

# 2008 FACILITIES MASTER PLAN



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Auburn School District No. 408

915 Fourth Street NE  
Auburn, Washington 98002

# 2008 Facilities Master Plan

**AUBURN SCHOOL DISTRICT NO. 408**

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## EXECUTIVE SUMMARY

Auburn School District is located in King County in the western section of the state of Washington. In 2008, 14,703 students were enrolled in the school district and were supported by a district-wide staff of 1,686. The school district's facilities are comprised of 14 elementary schools, 4 middle schools, 4 high schools, 6 support facilities, 52 portable classroom units (42 single, plus 10 double classroom units), 4 rental properties and 4 undeveloped sites.

Since 1975, Auburn School District has performed an in-depth review of its existing facilities and long-term facility needs on a 10-year basis. These reviews have culminated in issuance of a 10-year strategic plan for school district facilities. This process continued in 2006 with an expanded investigation that included the development of extensive facility standards. These standards were used as the basis for the evaluation of existing school program areas and facility components at all school district facilities. The results of these investigations and conclusions have been compiled in the "2008 Facilities Master Plan."

Based upon a comprehensive assessment of the school district's existing facilities, improvements that meet an essential need should be provided within 6 years at 14 schools and 6 support facilities at an estimated cost, in 2008, of \$46,411,052.

Aging facilities in Auburn School District should be replaced at their existing sites when they:

- exceed their economic life span;
- have program area deficiencies that result in a rating score below 50.00;
- have facility component deficiencies that result in a rating score below 50.00; and
- have a cost to modernize the building that is greater than 70% of the cost of replacement.

Based upon this criteria, the following schools should be replaced within eight years: Chinook, Dick Scobee, Lea Hill, Pioneer and Terminal Park Elementary Schools; Olympic Middle School; and Auburn High School at an estimated cost, in 2008, of \$314,159,724.

Based upon the student capacity of existing schools and projected enrollment during the next 10 years after construction of replacement schools, additional schools will not be needed to accommodate enrollment growth in Auburn School District until after 2018. Additional space should be provided in the vicinity of Auburn High School as soon as possible to accommodate the school's special education transition program for 18 to 21 year old students. The facility should consist of a modular building that is approximately 2,700 square feet in size with an estimated cost, in 2008, of \$1,000,000.

Based upon the condition and capacity of the school district's existing support facilities, new support facilities should not be needed during the next 10 years to accommodate growth of the school district's services and operations, except for a satellite bus facility.

A satellite bus facility should be provided in the Lea Hill area within seven years to accommodate expansion of the school district's bus fleet and to achieve cost efficiencies in bus operations at an estimated cost, in 2008, of \$1,629,971.

New portable classrooms should be provided to accommodate localized enrollment growth at individual schools when the growth cannot be addressed by school boundary adjustments or by the relocation of

existing portables that are unused and cost-effective to relocate. In 2009, a new, double-classroom portable unit should be provided at Lakeland Hills Elementary School. The estimated cost, in 2008, is \$257,040.

Auburn School District has a shortage of school capacity for students at the elementary and middle school levels in the south end of the school district. Continued enrollment growth is anticipated to occur in this area. To address this shortage, the school district should acquire 10-12 acres of property for a future elementary school and 20-25 acres of property for a future middle school in the south end of the school district within five years. The school district should budget \$5,000,000 for the acquisition of elementary school property and \$10,000,000 for the acquisition of middle school property.

The school district should continue to review its enrollment data on an annual basis to determine if there is a change in need for additional school facilities. In 2016, the school district should begin preparation of a Facilities Master Plan that will provide a 10-year strategic plan for school district facilities for the decade from 2018-2028.

## INTRODUCTION 1 | ONE

Auburn School District has a tradition of performing an in-depth review of its existing facilities and long-term facility needs on a 10-year basis. This review culminates in issuance of a 10-year strategic plan for school district facilities. This process began in 1975 with the issuance of “Guidelines for Development.” In 1986 and 1996, 10-year strategic plans were issued in the form of a “Study and Survey of Auburn School District Facilities.” This process continued in 2006 with an expanded investigation that included the development of extensive facility standards. These standards were used as the basis for the evaluation of existing school program areas and facility components at all facilities in Auburn School District. The results of these investigations and facility recommendations have been compiled in the “2008 Facilities Master Plan” for Auburn School District.

### Goals and Objectives | 101

The goal of the 2008 Facilities Master Plan is to identify a course of action that addresses Auburn School District’s facility needs during the next 10 years. The specific objectives are to:

- Provide a current inventory of all buildings and grounds in Auburn School District.
- Assess the condition of all existing buildings and grounds based upon program area standards and facility component standards.
- Provide projections to identify anticipated enrollment growth during the next 10 years.
- Identify facility improvements needed during the next 10 years.
- Identify new facilities needed during the next 10 years.
- Identify property acquisitions needed during the next 10 years.
- Identify the costs and schedule for facility improvements, new facilities and property acquisitions needed during the next 10 years.

### Process | 102

The following process was used in preparation of the Auburn School District 2008 Facilities Master Plan:

- Research facility planning information.
- Review school district reports and facility studies.
- Prepare program area standards and facility component standards for all schools and support facilities.
- Collect and compile facility data.
- Collect and compile enrollment data.
- Identify the economic life span of all school district buildings.
- Assess and rate the condition of existing facilities based upon program area and facility component standards.

- Identify improvements needed at existing facilities to meet school district’s minimum program area and facility component standards during the next 10 years.
- Identify the cost for improving each facility to meet school district’s minimum program area and facility component standards.
- Identify the replacement cost for each existing facility.
- Identify existing facilities that should be replaced.
- Identify new schools needed to accommodate enrollment growth during the next 10 years.
- Identify new support facilities needed to accommodate growth of school district operations during the next 10 years.
- Identify the costs for new school and support facilities.
- Identify property that should be acquired to accommodate new or expanded facilities during the next 10 years.
- Identify the cost of property acquisitions.
- Convene a Facilities Master Plan Steering Committee to:
  - Review school district buildings, grounds, facility data and enrollment projections.
  - Provide recommendations to the school board for facility improvements, new facilities, replacement facilities, portable classrooms and property acquisitions.
- Identify facility improvement projects approved for construction by the school board along with the cost, schedule and source of funding.
- Identify facility replacement projects approved for construction by the school board along with the cost, schedule and source of funding.
- Identify new facility projects approved for construction by the school board along with the cost, schedule and source of funding.
- Identify property acquisitions approved by the school board along with the cost, schedule and source of funding.

## Schedule | 103

The following schedule was used in preparation of the Auburn School District 2008 Facilities Master Plan:

- July 2006:                   Begin preparation of updated site plans and building floor plans in digital format.
- September 2006:           Begin research of facility planning information.  
Review school district’s 2004-05 Citizen’s Ad Hoc Committee Report and the 2006 “Futurescape: The Next Generation” report.
- February 2007:           Begin preparation of program area and facility component standards.

- July 2007: Begin inventory of facility components for all schools and support facilities.
- November 2007: Obtain review of draft program area and facility component standards by school district administrators and consultants.
- December 2007: Complete program area and facility component standards.  
Begin assessment of existing buildings and grounds.
- May 2008: Begin identification of improvements needed at existing facilities to meet school district's minimum standards.
- July 2008: Begin preparation of cost estimates for facility improvements, new replacement facilities, portable classrooms and property acquisitions.
- September 2008: Convene Steering Committee and begin meetings to review school district buildings, grounds, facility data and enrollment projections.
- October 2008: Issue Steering Committee Report with recommendations for facility improvements, new facilities, replacement facilities, portable classrooms, and property acquisitions including estimated costs and schedule.  
Present Facilities Master Plan data and Steering Committee Report to school board.
- November 2008: Present finance plan options to school board for funding facility improvements, new facilities, replacement facilities, portable classrooms and property acquisitions.
- December 2008: Complete school board identification of projects approved for construction along with funding plan and schedule.  
Complete Facilities Master Plan document.



## COMMUNITY INPUT 2 | TWO

The Auburn community is dedicated to the support of high quality education for all children. This support includes mutual planning involving school board members, school district staff and community members. Individuals from the community advise the district on a regular basis in the form of attendance area review committees, career education and technology advisory committees, the Cities and Schools Forum, citizen ad hoc committees, curriculum advisory committees, district improvement teams and the PTA General Council.

### **Citizen's Advisory Process | 201**

The school board continues to recognize the essential contributions of long-range planning to the efficient operation of its educational program. Although planning has been a hallmark of the school board over the years, the school board formalized the process in 1974 with the commission of a community-wide lay citizen's study and planning procedure. This resulted in the formation of a Citizen's Ad Hoc Committee to provide recommendations regarding specific issues that would confront the district over the next several years. The areas of study include enrollment growth and development of facilities. Ad Hoc committees were also commissioned in 1986, 1994, 2002 and 2004. Upon completion of their work, the Ad Hoc committees have reported their findings and recommendations directly to the school board. The school board, in turn, has carefully analyzed the committees' reports and adopted appropriate courses of action.

### **2004-2005 Citizen's Ad Hoc Committee | 202**

In October 2004, a Citizen's Ad Hoc Committee of 60 citizens was commissioned to evaluate specific issues and provide recommendations that would ensure a continued high level of educational excellence in the school district. The areas of evaluation were:

- Review the need for new facilities and the need for renovation of existing facilities during the next 10 years.
- Study the district's instructional technology program.
- Study the district's role in childhood fitness and nutrition.
- Study community use of district facilities and equipment.

The committee completed their work and submitted a 2004-05 Citizen's Ad Hoc Committee report with their findings and recommendations in August 2005.

### **Ad Hoc Committee Facility Recommendations | 203**

The 2004-05 Citizen's Ad Hoc Committee Report included the following facility recommendations:

1. Attain the following enrollment ranges for each school level:
  - Elementary Schools: 475-550 students.
  - Middle Schools: 650-800 students.
  - High Schools: 1,500-1,800 students.

- Alternative Schools: Not exceeding 350 students at West Auburn High School. Alternative programs exceeding 350 students at West Auburn should be accommodated at existing middle schools and other high schools.
2. Construct a new middle school that would open in September 2009.
  3. Evaluate existing school district property and acquire land for a new middle school and future facility needs.
  4. Monitor the needs for new school facilities at regular intervals.
  5. Begin a capital improvements program to complete modernizations and additions to existing facilities. Utilize the standards and evaluations process described in the New Facilities and Modernization section of the Citizen's Ad Hoc Committee Report.
  6. Replace any facility or portion of a facility if the cost of modernizing is greater than 70% of the estimated cost of a new structure.
  7. Establish a single comprehensive strategic facilities plan that will formulate the coordination of new construction and modernization plans over the next 10 years.
  8. Establish a citizen's committee to review and provide public input concerning the development of the modernization project priorities.

## STEERING COMMITTEE 3 | THREE

In September 2008, the Auburn School District Superintendent of Schools appointed a Facilities Master Plan Steering Committee to review school district facilities, review enrollment and facility data, and provide recommendations to the superintendent. These recommendations would address facility improvements, new facilities, replacement facilities, portable classrooms and property acquisitions needed to meet school district needs during the next 10 years. The Steering Committee completed a report with their findings and recommendations on October 21, 2008.

### Steering Committee Composition | 301

The Steering Committee included individuals representing the school district administration; elementary, middle and high school principals; and community members. These committee members were:

Jim Fletcher-Community Member  
 Ryan Foster-Lakeland Hills Elementary School Principal  
 Jeffrey Grose-Executive Director of Capital Projects  
 Bob Kenworthy-Capital Projects Department Coordinator  
 Jack Madigan-Rainier Middle School Assistant Principal  
 Mike Newman-Deputy Superintendent  
 Clarissa Ruston-Community Member  
 Rob Swaim-Director of Career and Technical Education and Athletics  
 Randy Thomas-Director of Maintenance and Operations  
 Mike Weibel-Lake View Elementary School Principal  
 Nola Wilson-Auburn Riverside High School Assistant Principal

### Steering Committee Process | 302

The Steering Committee met for over 40 hours and completed the following tasks:

- Visited selected facilities to compare the condition and quality of new and older facilities.
- Reviewed facility data for all school district facilities. These facilities include 14 elementary schools, 4 middle schools, 4 high schools, 6 support facilities, 62 portable classrooms, 4 rental properties and 4 undeveloped properties owned by the school district.
- Reviewed facility information provided by school district staff and consultants.
- Reviewed and provided recommendations for over 2,984 proposed facility improvements.
- Reviewed and provided recommendations for new facilities, portable classrooms and property acquisitions.
- Prioritized and ranked recommendations for facility improvements and new facilities based on the following categories:

- Rank A: Essential need.
  - Rank B: Beneficial but not an essential need.
  - Rank C: Not recommended because they were found to be a minor need or minor deficiency, not feasible, not cost-effective, not an eligible capital improvement, or scheduled for completion by the Maintenance Department or the Technology Levy.
- Conducted a second review of recommendations with Rank A to confirm they address an essential need.
  - Provided recommendations for the scheduling and funding of facility improvements, new facilities, replacement facilities, portable classrooms and property acquisitions.
  - Summarized the Steering Committee process, findings and recommendations in a report to the Superintendent of Auburn School District.

### **Steering Committee Recommendations | 303**

The Facilities Master Plan Steering Committee provided the recommendations pertaining to facility improvements, new facilities, replacement facilities, portable classrooms, property acquisitions, scheduling and funding. These recommendations are identified in “Appendix A – Steering Committee Report.” The school district administration presented this report to the school board on October 25, 2008.

## SCHOOL DISTRICT DATA 4 | FOUR

Education in the Auburn area dates back thousands of years to the time when the fertile river valley was home to Native Americans. These early inhabitants used their tribal legends and history as a basis of teachings and family bonds. White homesteaders arrived in the 1850s and by 1854 pioneers were claiming land that is now located in Auburn School District. The school district's first teacher was hired by a group of parents in the mid-1860s and taught school in the home of one of the pioneer families. In 1869, families built a log school house on donated land that became part of the town of Slaughter in 1886. In 1888, the Slaughter School District #61 was officially organized.<sup>1</sup> In 1893, the town was renamed Auburn, which led to renaming the school district, "Auburn School District."

Over the decades, surrounding school districts were annexed into the Auburn School District. Today the district encompasses approximately 62 square miles and serves the cities of Auburn, Algona, Pacific, as well as a portion of Federal Way and Unincorporated King County. The district owns 530 acres of property, 28 facilities and 61 portable classrooms. The 28 facilities include 14 elementary schools, 4 middle schools, 4 high schools and 6 support facilities.

### School District Vision | 401

The vision of Auburn School District is to develop in students the skills and attitudes that will maximize their potential for lifelong learning and ethically responsible decision-making. This vision is articulated in the school board's *Futurescape* documents. *Futurescape* identifies the school board's strategic plan for educational excellence. It is based on 10 fundamental beliefs adopted by the Washington State School Directors' Association and tailored by the school board to meet the needs of the school district's programs. *Futurescape: The Next Generation*<sup>2</sup> is an updated version of the original *Futurescape* document and responds to changing conditions facing the school district, while providing a strategic plan for the school board and staff through the year 2015.

### School District Belief Statements

In support of the school district's vision, *Futurescape: The Next Generation* identifies belief statements, which express the school board's values, convictions and commitments. The school board, being committed to the full education of the children of the school district, subscribes to the following beliefs:

- All children can be successful learners provided the unique ways individuals learn are accommodated within the instructional program.
- All children should enjoy equal access to an appropriate quality education.
- Effective education is tailored to the child's individual needs.
- A well-educated public is essential to the preservation of the democratic way of life.
- Effective education helps children adapt to a changing world and to become lifelong learners.

<sup>1</sup> Dr. Mildred Tanner Andrews, *The First 100 Years – Auburn School District* (Auburn, WA: Auburn School District Centennial Committee, 1996) 7-22.

<sup>2</sup> Auburn School District, *Futurescape: The Next Generation* (Auburn, WA: Auburn School Board, 2006).

- Effective education decisively impacts the economic well-being of the child, family and society.
- The best learning opportunities for children are created through the mutual cooperation and support of family, business, community and public.
- Educational professionals, respected for their skill and dedication to children's education, are vital to the success of schools.
- Children are the most successful in schools that have clearly defined performance goals and are accountable to their communities.
- The school board is most successful when it envisions effective schools and develops strategic plans to maintain them.
- As elected representatives of the community, the school board represents the community in all facets of the school district.<sup>3</sup>

## Education Plan | 402

Auburn School District offers a system of education extending from pre-school through grade 12 in compliance with the State of Washington Basic Education Act. Implementation of its system of education is guided by policies and procedures adopted by the school board.

### Basic Education Act

The goal of the basic education act is to provide students with the opportunity to become responsible and respectful global citizens, to contribute to their economic well-being and that of their families and communities, to explore and understand different perspectives, and to enjoy productive and satisfying lives. This act requires implementation of the following programs:

- A kindergarten program with at least a total instructional offering of 450 hours. The program shall include instruction in the essential academic learning requirements under RCW 28A.630.885 and such other subjects and such activities as the school district shall determine to be appropriate for the education of the school district's students enrolled in such program.
- A program available to students enrolled in grades 1-12 with at least a district-wide annual average total instructional hour offering of 1,000 hours. The state board of education may define alternatives to classroom instructional time for students in grades 9-12 enrolled in alternative learning experiences. The program shall include the essential academic learning requirements under RCW 28A.630.885 and such other subjects and such activities as the school district shall determine to be appropriate for the education of the school district's students enrolled in such program.
- Each school district's kindergarten through twelfth grade basic educational program shall be accessible to all students who are 5 years of age, as provided by RCW 28A.225.160, and less than 21 years of age and shall consist of a minimum of 180 school days per school year in such grades as are conducted by a school district, and 180-1/2 days of instruction, or equivalent, in kindergarten.

<sup>3</sup> Futurescape: The Next Generation, 3.

### **Auburn School District Policies and Procedures**

The school board adopts and maintains policies that govern the operation of the school district including instructional programs. The adoption of these policies constitutes the essential method by which the school board exercises its leadership in the operation of the school system. The superintendent develops administrative procedures as necessary to ensure efficient operation of the school district programs.

The following instructional programs are defined in school district policies:

- Instruction in basic skills and work skills.
- Curriculum development.
- Co-Curricular program.
- Interscholastic athletics.
- Special education and related services.
- Transitional bilingual education.
- Traffic safety education.
- Career and Technical Education.
- Home or hospital instruction.
- Gifted and talented programs.
- Remediation programs.
- AIDS presentation education.
- Education of students with disabilities.
- Summer school.
- Alternative learning experience.
- Libraries.
- Field trips, excursions and outdoor education.

### **Organizational Plan**

Auburn School District offers a system of education extending from pre-school through grade 12 with schools organized as follows:

- Elementary Schools: Pre-school and kindergarten through grade 5.
- Middle Schools: Grades 6, 7 and 8.
- Senior High Schools: Grades 9, 10, 11 and 12.

Additional educational offerings include adult education, summer school, special classes, alternative programs, services for exceptional children and home instruction.

## Instructional Schedule

Auburn School District operates an instructional calendar in compliance with WAC 180-16-215 that requires:

- A school year of no less than 180 school days in grades 1-12 and 180-1/2 days of instruction, or the equivalent, in kindergarten.
- A school day shall mean each day of the school year on which pupils enrolled in the school district are engaged in educational activity planned by and under the direction of the school district staff, as directed by the administration, and pursuant to written policy and board of directors of the district.
- Each school district's program shall be accessible to all legally eligible students, including students with disabilities, who are 5 years of age and under 21 years of age who have not completed high school graduation requirements.
- The school district may schedule the last 5 school days of the 180-day school year for non-instructional purposes for students who are graduating from high school.

The superintendent presents the school calendar for consideration and adoption by the school board.

The school day is established to comply with the requirements of the Basic Education Act. The start of the school day at each building is coordinated with the school district's transportation schedule, which is established to achieve timely and efficient movement of students throughout the district. During the 2008-09 school year, elementary schools started at 8:40 a.m. or 9:10 a.m. and dismissed at 3:10 p.m. or 3:40 p.m. Middle schools started at 7:45 a.m. and dismissed at 2:15 p.m. High schools, except West Auburn High School, started at 8:05 a.m. and dismissed at 2:35 p.m. West Auburn High School started at 7:55 a.m. and dismissed at 2:20 p.m.

## Student / Teacher Ratio

The ratio of students per teacher is established by the Auburn School District collective bargaining agreement with the Auburn Education Association and approved by the school board. The maximum number of students per teacher in a classroom for the 2008-09 school year is:

- Early Childhood: 12
- Kindergarten, First and Second Grades: 25
- Third and Fourth Grades: 27
- Fifth Grade: 30
- Grades Six Through Twelve: 30
- Special Education Resource Classroom: 25
- Special Education Self-Contained Classroom: 11

The ratio of students per teacher may be increased when additional compensation or teacher assistance is provided.



## Community Use Plan | 403

Auburn School District encourages and supports appropriate use of school properties by the community, with special emphasis toward youth and community service activities in a manner consistent with applicable local, state and federal statutory requirements. The priority and rules for community use of school district facilities are as follows:

- Auburn School District activities will take precedence.
- Ongoing, organized, community-wide youth and adult programs will share the next order of priority.
- Community activities such as youth groups, church recreation programs, service clubs and cultural enrichment groups serving the Auburn community will share the next order of priority.
- All other requests for use of school facilities will be considered on an individual basis. The school district makes every reasonable effort to cooperate with other users to ensure an atmosphere of mutual goodwill and community access.
- Rules, regulations, fee schedules and related information governing the use of school facilities are established and available to the community.
- Specified school equipment may be made available for use at a reasonable fee. No equipment shall be removed from school premises.
- Supervision must be provided by all user groups as prescribed by regulation.
- Auburn school facilities will be made available for use by individuals and groups without regard to race, sex, ethnic background or handicapped condition.

Applications for use of school district facilities are made to the building principal or facility administrator. The superintendent or designee establishes a fee schedule that is evaluated on a biennial basis. The superintendent has the authority to make final decisions on the use of a facility by a group.

The school district recognizes the value of its playfields to the community for recreation and organized sport activities. Because of this value, playfields may be used by all school district residents as long as the use is appropriate and compatible with the facility and surrounding area; the use shall not result in damage or undue wear; the use does not pose a hazard; required fees are paid and certificate of insurance is provided; and a custodian or authorized staff member is present when non-school groups use the facility.

## Support Plan | 404

School district operations are guided by operating policies adopted by the school board. The superintendent is responsible for management of the school district. The superintendent receives assistance and support from administrative staff and service departments within the school district.

### Board of Directors

The board of directors (also referred to as the school board) is an entity established by the state of Washington to plan and direct the school district's operation to an end that students have ample opportunity to meet their individual and collective learning needs. Bylaws of the school board define its organization and manner of conducting business. Operating policies are adopted by the school board to facilitate the performance of its responsibilities.

The school board consists of five members, elected by ballot of registered voters for terms of four years. The function of the school board is chiefly legislative. The school board employs a superintendent of schools of the district and establishes policies. Policies of the school board are established to formulate and interpret educational policies, delegate administrative duties and continuously appraise programs.

### **Administrative Staff**

The superintendent is the chief executive officer of the school board and is responsible for executive management and control of the school district and for enforcement of policies, rules and regulations adopted by the school board. The superintendent may delegate responsibility for the operation of the school system but remains responsible to the school board for the results.

The superintendent formulates objectives for school district operations, develops plans for achieving school district objectives, establishes and maintains a plan of organization for accomplishing objectives, and provides for proper delegation of authority and responsibility throughout the organization.

The administrative organization and those directly responsible to each staff member are as follows:

- Superintendent
  - Deputy Superintendent of Business and Operations
    - Director of Maintenance
      - Supervisor of Building Systems and Resource Management
      - Supervisor of Operations
      - Supervisor of Warehouse, Grounds, Print Room and Safety
    - Director of Child Nutrition
      - Assistant Supervisor of Child Nutrition
    - Director of Transportation
      - Supervisor of Driver Training
      - Supervisor of Shop
    - Executive Director of Capital Projects
      - Capital Projects Coordinator
    - Executive Director of Information Technology
      - Client Service Manager
      - Technical Services Manager
    - Executive Director of Business Services
      - Supervisor of Payroll
      - Supervisor of Purchasing
  - Assistant Superintendent for Human Resources
    - Director of Legal Affairs
    - Executive Director of Human Resources
  - Assistant Superintendent for School Programs
    - Executive Director of Student Services
      - Director of Career, Technology Education and Athletics
      - Coordinator of Performing Arts
      - High School Principals

- High School Assistant Principals
- Executive Director of Student Special Services
  - Assistant Director of Student Special Services
    - Kindergarten-Grade Eight Principals Middle School Assistant Principals
- Assistant Superintendent for Student Learning
  - Director of Elementary Student Learning
  - Director of Secondary Student Learning
  - Coordinator of Assessment and No Child Left Behind
- Supervisor of Publications and Grants

The duties and responsibilities of each administrative staff member are identified in the Auburn School District Job Description for each position.

### **Business Services**

The school district's business services provide accurate, efficient and effective use of the school district's fiscal and physical resources to support the instructional programs. The business services perform monitoring and audit functions, and all functions required by federal and state law and school district policies and procedures. The business services include: accounting, payroll, purchasing, data processing, accounts payable and receivable, and other services related to the management of the fiscal and physical resources of the district.

### **Child Nutrition Services**

The school district's child nutrition services provide a comprehensive food service program at all schools. These services are provided by a professional staff with full-service kitchens and on-site food preparation. School cafeterias are regulated and operated within the regular school district budget with separate accountability. Cafeteria accounts are maintained according to federal and state regulations, and all facilities are held ready for inspection and audit by authorized inspectors and regulatory agencies.

The school district's food service program supports the philosophy of the National School Lunch Program and strives to provide wholesome and nutritious meals for all students. Objectives of the program are to:

- Offer high quality food products that are appetizing and visually appealing.
- Meet nutritional goals and standards set forth by the USDA and the American Dietetic Association.
- Feed the students of the school district by purchasing, storing, preparing and serving meals in an efficient, cost-effective manner.
- Support the educational goals for students by emphasizing the relationship between eating nutritious foods and good health.

All schools participate in the School Breakfast Program, National School Lunch Program, After School Snack Program and Summer Food Service Program. The food service program at the school district's three comprehensive high schools is coordinated with and supports a culinary arts instructional program that provides food service training and education for high school students.

### **Facility Services**

The school district's facility services provide maintenance, operation and construction of the school district's physical plants and building sites. Facilities are maintained and operated with the objectives of providing high quality care, economy of operation, security and community use. The modernization of existing facilities and the construction of new facilities support these objectives as well as the school district's programs. Facility services include: custodial, grounds, maintenance and capital projects.

### **Information Technology Services**

The school district provides Information Technology (IT) services to support the philosophy that technology will be integrated into all aspects of the instructional program to improve the achievement and performance of all students. This is accomplished by providing all students with access to IT. The minimum standards for accomplishing this are:

- A ratio of one computer for every four students in kindergarten through grade 8.
- A ratio of one computer for every three students in grades 9 through 12.
- One computer for every full-time staff member.
- Replacement of all student and staff computers on a five-year basis.

IT services provide technical assistance to staff and students to support their integration of technology into the curriculum. Staff training is provided on an ongoing basis to keep pace with rapid changes in technology. Software and hardware are maintained and upgraded on a regular basis. Additional IT services include providing and maintaining:

- School district Intranet system for electronic documents and instructional resources.
- Skyward student information, fiscal and human resources systems.
- World Wide Web home page for school and community to access information about the school district and programs at individual schools.
- Internet-based interactive technology for parents and students to access information about academic progress, attendance, class scheduling, homework assignments, online meal payments, pay-for-service activities and student activity fees.

### **Instructional Services**

The school district provides instructional services to manage, supervise and coordinate instructional programs as required by statute and school district policies and procedures. Instructional services are evaluated on a continuing basis to ensure effective and efficient support of instructional programs.

### **Printing Services**

The school district provides printing services for the publication of printed matter that cannot be produced using photocopy machines present at each building site. This includes making booklets, inserting tabs in publications, printing duplicate copy forms, and producing large volume projects approved by the supervisor of print services on a reimbursable basis. These services are provided at the school district's Print Shop,

except for specialty printing and large projects that cannot be accomplished by Print Shop resources. In these cases, commercial printing services are utilized.

### **Transportation Services**

The school district provides transportation for students between home and school, and for approved field trips, school activities and extracurricular activities. These services are provided in compliance with school district policies as well as state and federal regulations.

Student transportation to and from school is provided when one of the following criteria is met:

- The student’s residence is located beyond the district-designated safe walking area for his or her school;
- The school district determines the student’s walking route to school is hazardous; or
- The student is disabled under RCW 28A.155.020 and is either not ambulatory or not capable of protecting his or her own welfare while traveling to or from the school or agency where special education services are provided.

The superintendent may authorize the use of district transportation vehicles for transporting non-participating students to extracurricular activities. Such vehicles may be used when the users pay an amount sufficient to reimburse the school district for the cost of such use. The superintendent is authorized to permit a parent of a student enrolled in school to ride a bus when excess seating is available and private or other public transportation is not reasonably available. The school board may authorize children attending an approved private school to ride a school bus provided that the bus route and stops are not altered, space is available, and a fee to cover the per seat cost for such transportation is collected. School district buses may be used in cooperation with a governmental agency transporting personnel, supplies and evacuees in the event of a major forest fire, flood or other disaster.

### **Warehouse Services**

The school district’s warehouse services provide limited warehousing of goods and commodities in high demand; short-term storage of surplus equipment; and long-term storage of school district records. Warehouse services and facilities are available to take advantage of economies offered by the purchase of large quantities. The warehouse services also provide internal mail and delivery service throughout the district.

## **Enrollment Data | 405**

Auburn School District uses a modified cohort survival model to project future enrollment. This model considers historical and current data as a basis for forecasting enrollment.

### **Historical Enrollment Data**

The school district’s consideration of historical data when projecting future enrollment is based upon the assumption that the individual factors affecting enrollment in the past are present today and will continue to be present in the future. To moderate the impact of singular factors, the school district evaluates past enrollment data by averaging the annual results over 6 and 13-year periods. These results provide a 6-year short-term trend and a 13-year long-term trend.

In summary, the average annual gain in students during the past 6 years is 1.32%, which is equivalent to a gain of 183 students per year. The average annual gain in students during the past 13 years is 1.55%, which is equivalent to a gain of 204 students per year.

The following “Table 1 – Thirteen Year History of Enrollment” identifies the past enrollment levels in Auburn School District on October 1 of each year.

**Table 1 – Thirteen Year History of Enrollment**

School Year	Grades K - 5	Grades 6 - 8	Grades 9 - 12	Totals
1995-1996	5,729	2,755	3,629	12,113
1996-1997	5,799	2,799	3,843	12,441
1997-1998	5,946	2,811	4,012	12,769
1998-1999	5,837	2,860	4,245	12,942
1999-2000	5,856	2,970	4,225	13,051
2000-2001	5,844	2,980	4,311	13,135
2001-2002	5,914	3,049	4,498	13,461
2002-2003	5,741	3,151	4,535	13,427
2003-2004	5,774	3,294	4,634	13,702
2004-2005	5,735	3,274	4,663	13,672
2006-2007	5,887	3,169	5,032	14,088
2007-2008	6,033	3,144	5,241	14,418
2008-2009	6,142	3,097	5,320	14,559

**Projected Enrollment Data**

The following “Table 2 – Ten Year Enrollment Projection” uses a modified cohort survival model to project enrollment during the next 10 years. This model also includes additional students that are anticipated to enroll in Auburn School District from new residential developments during this time period.

**Table 2 – Ten Year Enrollment Projection**

School Year	Grades K - 5	Grades 6 - 8	Grades 9 - 12	Totals
2008-2009 (Current)	6,142	3,097	5,320	14,559
2009-2010	6,370	3,284	5,193	14,847
2010-2011	6,581	3,408	5,128	15,117
2011-2012	6,801	3,511	5,251	15,563
2012-2013	7,039	3,626	5,500	16,165
2013-2014	7,230	3,715	5,616	16,561
2014-2015	7,404	3,797	5,789	16,990
2015-2016	7,511	3,859	5,830	17,200
2016-2017	7,596	3,903	5,896	17,395
2017-2018	7,682	3,948	5,963	17,593
2018-2019	7,769	3,992	6,030	17,791

## Fiscal Data | 406

Net assets serve as an indicator of the school district's financial position. For the fiscal year ending August 2008, Auburn School District's net assets were \$163,212,357. A large portion of the net assets—60%—consist of capital assets such as land, buildings and equipment less outstanding debt used to acquire those assets. Another 23% of net assets are subject to restrictions on how they may be used. The balance of assets is used to finance normal district operations without constraints established by debt practices, enabling legislation, or legal requirements.

The school district maintains five separate funds to finance its operations. These are the General Fund, Special Revenue Fund, Debt Service Fund, Capital Projects Fund and Transportation Vehicle Fund. The General Fund is the major operating fund of the school district and provides the majority of the resources for educational programs and support operations. For fiscal year ending in August 2008, General Fund revenue was \$124,143,930 and expenditures were \$121,735,089 for a net change in Fund Balance of \$2,408,841 and a final Fund Balance of \$7,202,333. The ending Fund Balance during this period for the Special Revenue Fund was \$1,214,699; Debt Service Fund was \$8,598,571; Capital Projects Funds was \$26,160,815; and Transportation Vehicle Fund was \$303,876.

## Capital Projects Funding | 407

The Capital Projects Fund accounts for the financial resources used for the acquisition and construction of capital facilities and equipment. Resources may be received from the issuance of bonds, special levies, state matching funds, school impact fees, investment earnings, insurance proceeds, property sale proceeds, rent and lease proceeds, and General Fund transfers.

The issuance of bonds that exceed a designated value of taxable property in the school district and special levies require approval by the electorate of the school district with proceeds dedicated to the capital projects for which they were approved. State matching funds are provided to the school district when a new school and school modernization projects meet eligibility requirements established by the state of Washington. School impact fees may be imposed on residential development to help pay for school facilities needed to serve residential growth and development. Investment earnings are generated from interest paid on bond and levy proceeds, state matching funds, impact fees and funds held in the Capital Project Funds. Insurance proceeds occur when the school district is reimbursed for the damage to or loss of a building and its contents. Proceeds from property sales are generated when the school district sells surplus property. Proceeds from the rent or lease of surplus school district property are deposited in the Capital Projects Fund. Resources from the General Fund may be transferred to the Capital Projects Fund with school board authorization.

## Bonding Capacity

School districts in the state of Washington may borrow money by issuing negotiable bonds for capital purposes, which includes acquiring property, buildings and equipment; improving existing facilities; and constructing new facilities.<sup>4</sup> The total value of bonds issued by the school district is limited to an indebtedness amount not exceeding three-eighths of one percent of the value of the taxable property in the school district without the approval of three-fifths of the voters voting at an election held for that purpose.

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<sup>4</sup> RCW 28A.530.010.

When a school district obtains approval of the electorate, the total indebtedness is limited to five percent of the value of the taxable property.<sup>5</sup>

The assessed value of taxable property in Auburn School District in 2008 was \$9,971,800,369. As of May 13, 2008, the school district had \$119,005,000 in outstanding debt from bond sales. The school district's bonding capacity in 2008 is:

- Without voter approval:  $(\$9,971,800,369 \times 0.00375) - \$119,005,000 = -\$81,610,749$
- With voter approval:  $(\$9,971,800,369 \times 0.0500) - \$119,005,000 = \$379,585,018$

### **Capital Improvements Levy Requirements**

A Capital Improvements Levy is a special tax levy to support the construction, modernization and remodeling of school facilities. Article VII, Section 2 of the Washington State Constitution and RCW 84.52.050 state the aggregate of all tax levies upon the real and personal property by the state and all taxing districts shall not exceed one percent of the value of the property. However, the State Constitution also states that school districts may levy additional taxes when authorized by a majority of the voters voting on the tax levy proposition.

A school district is required to conduct a special election for a Capital Improvements Levy and such tax levy is authorized for a period not exceeding six years. There is not a statutory limit on the amount of additional taxes that can be collected in a Capital Improvement Levy.

### **State Matching Funds**

The state of Washington provides matching funds to assist school districts in providing school facilities. Funds are provided for eligible projects through a School Construction Assistance Program. This program provides funds for planning, equipping and constructing new schools; incorporating additions to existing schools; modernizing existing schools; and replacing existing school facilities. Replacement projects consist of new facilities constructed in lieu of modernizing an existing facility. Eligibility for matching funds for the construction of new schools and additions is based upon the school district's need for instructional space for un-housed students. Eligibility for assistance for the modernization and replacement of existing schools is based upon the age of the facility and the length of time since it was previously modernized with state funding assistance.

Auburn School District is not eligible for state funding assistance for the construction of new schools and additions because it does not have a need for additional instructional space for un-housed students. Based upon enrollment projections, the school district will not be eligible for funding assistance for new schools and additions for at least five years.

The school district is eligible for state matching assistance for the modernization or replacement of its school facilities. The following "Table 3 – 2008 State Matching Eligibility - Modernization or Replacement (New-in-Lieu)" identifies the level of eligibility for each school:

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<sup>5</sup> RCW 39.36.020 (3) (4).



**Table 3 – 2008 State Matching Fund Eligibility - Modernization or Replacement (New-in-Lieu)**

OSPI Bldg. No.	Facility Name	Eligible Bldg. SF Area	Area Cost Allowance Per SF	Matching Ratio	Eligible Matching Funds
<b>ELEMENTARY SCHOOLS</b>					
3825	Alpac	33,725	\$168.79	0.5917	\$3,368,218
4638	Arthur Jacobsen	0	\$168.79	0.5917	\$0
3439	Chinook	45,591	\$168.79	0.5917	\$4,553,312
2932	Dick Scobee	50,187	\$168.79	0.5917	\$5,012,328
3745	Evergreen Heights	41,667	\$168.79	0.5917	\$4,161,410
3669	Gildo Rey	47,687	\$168.79	0.5917	\$4,762,646
4347	Hazelwood	0	\$168.79	0.5917	\$0
4417	Ilalko	0	\$168.79	0.5917	\$0
4637	Lakeland Hills	0	\$168.79	0.5917	\$0
4120	Lake View	55,495	\$168.79	0.5917	\$5,542,455
3525	Lea Hill	41,290	\$168.79	0.5917	\$4,123,758
3227	Pioneer	37,365	\$168.79	0.5917	\$3,731,756
2659	Terminal Park	36,698	\$168.79	0.5917	\$3,665,141
2326	Washington	4,200	\$168.79	0.5917	\$419,467
<b>MIDDLE SCHOOLS</b>					
2394	Cascade	90,138	\$168.79	0.5917	\$9,002,356
4462	Mt. Baker	0	\$168.79	0.5917	\$0
3169	Olympic	96,985	\$168.79	0.5917	\$9,686,187
4385	Rainier	0	\$168.79	0.5917	\$0
<b>HIGH SCHOOLS</b>					
2795	Auburn High	244,041	\$168.79	0.5917	\$24,373,117
4584	Auburn Mountainview	0	\$168.79	0.5917	\$0
4474	Auburn Riverside	0	\$168.79	0.5917	\$0
2702	West Auburn	2,985	\$168.79	0.5917	\$298,121

### School Impact Fees

School districts in the state of Washington may collect and use growth impact fees to assist in capital construction projects.<sup>6</sup> An impact fee is a payment of money imposed upon development as a condition of development approval to pay for public facilities needed to serve new growth and development and is reasonably related to the new development that creates demand and need for public facilities.<sup>7</sup>

School Impact Fee Ordinances have been adopted by King County, the City of Auburn and the City of Kent to allow for the assessment of school impact fees upon single family and multi-family developments within Auburn School District. The fees are collected by these jurisdictions and then transmitted to the school district. The school district is required to expend or encumber school impact fees for a permissible use within

<sup>6</sup> WAC 392-343-032

<sup>7</sup> RCW 82.02.090 (3)

six years of receipt unless there is an extraordinary and compelling reason for fees to be held longer than six years.<sup>8</sup>

In 2008, the school impact fee collected by King County, the City of Auburn and the City of Kent was \$5,374.64 for each building permit issued for a single family residence and \$877.02 for each building permit issued for a multi-family unit within Auburn School District.

### **Investment Earnings**

Auburn School District is required by law to deposit investment earnings from the proceeds of bonds, construction improvement levies and school impact fees into the Capital Projects Fund. These earnings are restricted and must be used for the same purpose as proceeds from their source. Investment earnings from the proceeds of state matching funds, insurance payments, property sales, rental and lease income, and reserves in the Capital Projects Fund are required to be deposited into the Capital Project Fund. These earnings are unrestricted and may be used for any legal expenditure of Capital Projects Funds.

### **Property Sale Proceeds**

The board of directors may sell any of the real property of the school district which is no longer required for school purposes. The proceeds from any sale are required to be deposited into the Debt Service Fund or the Capital Projects Fund, except for amounts required to be expended for the costs associated with the sale of such property.<sup>9</sup> The school district does not have real property available to sell. All real property owned by the school district is needed for current or future school purposes.

### **General Fund Transfers**

Auburn School District, as a practice, does not transfer resources from the General Fund to Capital Projects Fund. An exception was made in 1989 when a transfer was made for the purchase of portable classrooms.

### **Capital Projects Fund Status**

As of December 31, 2008, the Auburn School District Capital Projects Fund had a balance of \$26,831,549. Approximately \$19,000,000 of this balance is dedicated toward designated property acquisitions, capital projects and equipment, resulting in an undedicated amount of approximately \$7,831,549.

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<sup>8</sup> RCW 82.02.70

<sup>9</sup> RCW 28A.335.110 and RCW 28A.335.120

## FACILITY DATA 5 | FIVE

Auburn School District owns and operates almost 2 million square feet of buildings and maintains over 530 acres of property. The facilities include schools, portable classrooms, support facilities, rental property and undeveloped property.

The school district has a tradition of performing an in-depth review of its existing facilities and long-term facility needs on a 10-year basis. The most recent review has been conducted during the past two years. This review included the identification of school district facility goals, preparation of updated inventory records, an evaluation of current and future enrollment levels, preparation of facility standards and an assessment of each facility. This information was used to identify improvements needed at existing facilities and the need for new facilities, replacement facilities, portable classrooms and property acquisitions during the next 10 years.

### Facility Goals | 501

The 2004-05 Citizen's Ad Hoc Committee acknowledged that facilities play a critical role in the educational success of students in Auburn School District. In doing so, the committee established the following goals for the school district's facilities:

1. Provide a positive educational outcome while meeting the challenges of State and Federal education reform legislation.
2. Provide for the demands of increasing enrollment and changes in student demographics.
3. Provide parity in the ability of schools to meet program needs.
4. Provide permanent instructional spaces.

Based upon recommendations from the 2004-05 Citizen's Ad Hoc Committee, the school board established enrollment ranges for each school level. It is the school district's goal to provide permanent instructional facilities to accommodate these enrollment levels:

- Elementary Schools: 475-550 students.
- Middle Schools: 650- 800 students.
- High Schools: 1,500- 1,800 students.
- Alternative Schools: Not exceeding 350 students at West Auburn High School. Alternative programs exceeding 350 students at West Auburn should be accommodated at existing middle schools and other high schools.

### Facility Inventory | 502

As of October 2008, a total of 14,703 students were enrolled in the school district and were supported by a district-wide staff of 1,686. These students and staff utilize 28 permanent facilities plus 52 portable classrooms (42 single, plus 10 double-classroom units). The permanent facilities consist of 14 elementary schools, 4 middle schools, 4 high schools and 6 support facilities. The oldest permanent facility was constructed in 1945 and the newest facility was built in 2007.

The school district owns four residential properties and four undeveloped sites. The residential properties are rented to tenants.

The total of 1,940,808 square feet of building area is owned by the school district along with 530 acres of land.

The following “Table 4 – Facility Inventory” identifies the facilities owned by the school district and general inventory information about each facility.

Table 4 – Facility Inventory

OSPI Bldg. No.	Facility Name	Grade Span	Date of Original Construction	Site Size (Acres)	Gross Building Area (SF)	OSPI Building Area (SF)
<b>ELEMENTARY SCHOOLS</b>						
3825	Alpac	K - 5	1972	10.68	48,036	46,007
4638	Arthur Jacobsen	K - 5	2007	10.02	56,616	55,283
3439	Chinook	K - 5	1963	10.99	43,214	41,547
2932	Dick Scobee	K - 5	1954	8.90	62,669	52,377
3745	Evergreen Heights	K - 5	1970	10.10	43,961	41,657
3669	Gildo Rey	K - 5	1969	10.05	52,302	50,927
4347	Hazelwood	K - 5	1990	13.08	54,904	53,482
4417	Ilalko	K - 5	1992	14.22	54,728	53,310
4637	Lakeland Hills	K - 5	2006	12.00	54,872	53,454
4120	Lake View	K - 5	1980	16.48	54,052	52,252
3525	Lea Hill	K - 5	1965	20.24	42,061	40,536
3227	Pioneer	K - 5	1959	8.41	41,173	39,648
2659	Terminal Park	K - 5	1945	6.09	38,744	37,343
2326	Washington	K - 5	1972	5.33	45,238	44,426
<b>MIDDLE SCHOOLS</b>						
2394	Cascade	6 - 8	1967	16.94	90,421	90,421
4462	Mt. Baker	6 - 8	1994	28.98	91,227	91,227
3169	Olympic	6 - 8	1957	17.40	99,467	99,467
4385	Rainier	6 - 8	1991	25.54	91,759	91,759
<b>HIGH SCHOOLS</b>						
2795	Auburn High	9 - 12	1950	19.34	278,323	278,323
4584	Auburn Mountainview	9 - 12	2005	39.42	195,280	195,280
4474	Auburn Riverside	9 - 12	1995	35.32	186,612	186,612
2702	West Auburn	9 - 12	1990	5.26	30,295	30,295
<b>SUPPORT FACILITIES</b>						
	Administration Building	NA	1968	3.51	24,046	NA
	Administrative Annex (Rebuilt)	NA	1989	0.34	6,557	NA
	Auburn Memorial Stadium (Rebuilt)	NA	1982	6.60	17,055	NA
	Auburn Pool	NA	1971	0.74	14,390	NA
	Support Services Center	NA	1996	5.50	41,184	NA
	Transportation Center	NA	1997	5.90	19,500	NA
<b>PORTABLE CLASSROOMS</b>						
	42 – Single Classroom Units	K - 12	Varies	NA	36,992	NA
	10 – Double Classrooms Units	K - 12	Varies	NA	17,920	NA
<b>RENTAL PROPERTY</b>						
	506 3 <sup>rd</sup> St. NE – Auburn	NA	1923	0.09	1,380	NA
	509 3 <sup>rd</sup> St. NE – Auburn	NA	1924	0.12	800	NA
	512 3 <sup>rd</sup> St. NE – Auburn	NA	1985	0.19	3,030	NA
	18705 SE Lake Holm Road - Auburn	NA	1977	4.11	2,000	NA
<b>UNDEVELOPED PROPERTY</b>						
	129th Ave. SE / SE Lake Holm Road - Auburn	NA	NA	37.66	NA	NA
	190th Ave. SE / SE Lake Holm Road - Auburn	NA	NA	23.86	NA	NA
	40th St. NE / I St. NE - Auburn	NA	NA	35.22	NA	NA
	16401 SE 318th St. - Auburn	NA	NA	61.83	NA	NA
<b>TOTALS</b>				<b>530.46</b>	<b>1,940,808</b>	

During the past two years, the following inventory information has been compiled and reviewed for each school and support facility:

- General Information
- Aerial Photographs
- Site Plans
- Floor Plans
- Square Footage Information
- Facility Component Inventory

Facility size and facility component information was compiled and reviewed for each portable classroom, rental property and undeveloped site owned by the school district.

Refer to the “2008 Facility Master Plan – Facility Information” notebooks for inventory data about each facility in Auburn School District.

## **Facility Capacity | 503**

Permanent school facilities in Auburn School District have a capacity for 14,443 students. As of October 1, 2008, a total of 14,703 students were enrolled in the school district. Although the school district’s total permanent capacity exceeds the total number of students attending the schools by 260 students, capacity and enrollment levels vary among each facility. As a result, some schools have adequate permanent capacity for their current enrollment while there is a shortage of space at other schools. Portable classrooms are used at schools where there is a shortage of permanent space.

### **Capacity Calculation**

School capacity is determined by the number of classrooms or teaching stations present at each school, class type, classroom capacity and classroom utilization efficiency.

The number of classrooms at individual elementary schools range from 20 at Terminal Park Elementary School to 27 at the school district’s four newest elementary schools. The number of classrooms at the middle schools range from 34 at Rainier Middle School to 44 at Olympic Middle School. West Auburn High School offers an alternative education program and is the smallest high school in the school district with 13 teaching stations. The school district has three comprehensive high schools. Auburn High School is the largest with 86 teaching stations.

To calculate school capacity, classrooms types are identified as general classrooms, half-day kindergarten classrooms, half-day Head Start and Early Childhood Education (ECE) classrooms, self-contained special education classrooms, specialty classrooms and pull-out classrooms.

General classrooms consist of teaching stations that are used for general instruction and do not have specialized features or equipment.

Half-day kindergarten classrooms have separate groups of students attending class in the morning and afternoon. Half-day Head Start and ECE classrooms are dedicated teaching stations located in elementary schools for pre-school education with separate groups of students in the morning and afternoon.

Special education classrooms are dedicated teaching stations that provide self-contained instruction for students with disabilities. These classrooms are located at elementary, middle and high schools.

Specialty classrooms have specialized features or equipment and are located in middle and high schools. These consist of teaching stations for art, automobile technology, band, business education, clothing and childhood development, construction and manufacturing, computer applications, culinary arts, drafting, drama, electronics, family and consumer science, foods, gymnasiums, horticulture, industrial technology, marketing, orchestra and choral, science, sports medicine, visual communications and weight training.

Pull-out classrooms are teaching stations used by a variety of students during the school day and are not dedicated classrooms. Pull-out classrooms at elementary schools consist of classrooms used for music, learning specialists, English Language Learners, LAP/Title programs, physical education and special education resources. The programs that require pull-out classrooms are not present at all elementary schools. When determining capacity, four pull-out rooms are assumed to be present at each elementary school.

Pull-out classrooms at the middle and high school levels consist of computer labs that are shared by visiting classes throughout the school day.

The average capacity of a general classroom in elementary schools in Auburn School District is 26.5 students. Half-day kindergarten classrooms have an average capacity of 26.5 students in the morning and 26.5 students in the afternoon for a full-day capacity of 53 students. Half-day Head Start and ECE classrooms have a capacity of 12 students in the morning and 12 students in the afternoon for a full-day capacity of 24 students. Special education classrooms have a capacity of 11 students at all grade levels. General classrooms at the middle and high school levels have a capacity of 30 students, and specialty classrooms have a capacity of 25 students.

Although Auburn School District strives to maximize the utilization of classroom space, it is not feasible to schedule the maximum number of students in every classroom. Variations occur at elementary schools based upon the number of students in each grade. Variations occur at the middle and high school levels based upon the types of classes students select. To address these variations, the school district has established classroom utilization efficiency levels when determining school capacity. A utilization efficiency of 92% is used for elementary schools and 90% is used for middle and high schools.

The state of Washington calculates school capacity for determining state assistance in the construction of school facilities based upon a space allowance for each student. The capacity calculated by the state is utilized for funding purposes and is not intended to reflect a school's actual capacity.

The following "Table 5 – Facility Capacity" identifies the student capacity at each school and the factors used to determine capacity.

**Table 5 – Facility Capacity**

School Name	Total Clrms.	General Clrms.	General Clrm. Capacity	Half-Day Kindergarten Clrms.	Half-Day Kindergarten Clrm. Capacity	Head Start & ECE Clrms.	Head Start & ECE Clrm. Capacity	Spec. Ed. Clrm.	Spec. Ed. Clrm. Capacity	Specialty Clrms.	Specialty Clrm. Capacity	Pull-Out Clrms.	Clrm. Utilization Efficiency	Capacity
<b>ELEMENTARY SCHOOLS</b>														
Alpac	25	16.5	26.5	1.5	53.0	1.0	24.0	1	11.0	0	0.0	4	92%	510
Arthur Jacobsen	27	18.0	26.5	1.0	53.0	1.0	24.0	2	11.0	0	0.0	4	92%	532
Chinook	23	13.5	26.5	1.5	53.0	1.0	24.0	2	11.0	0	0.0	4	92%	447
Dick Scobee	22	12.5	26.5	1.5	53.0	2.0	24.0	1	11.0	0	0.0	4	92%	412
Evergreen Heights	21	13.0	26.5	1.0	53.0	2.0	24.0	0	11.0	0	0.0	4	92%	390
Gildo Rey	24	17.0	26.5	0.0	53.0	1.0	24.0	1	11.0	0	0.0	4	92%	449
Hazelwood	27	19.0	26.5	1.0	53.0	0.0	24.0	2	11.0	0	0.0	4	92%	557
Ilalko	27	17.5	26.5	1.5	53.0	0.0	24.0	3	11.0	0	0.0	4	92%	555
Lakeland Hills	27	19.0	26.5	1.0	53.0	0.0	24.0	2	11.0	0	0.0	4	92%	557
Lake View	24	15.0	26.5	1.0	53.0	1.0	24.0	2	11.0	0	0.0	4	92%	459
Lea Hill	22	14.5	26.5	0.5	53.0	2.0	24.0	0	11.0	0	0.0	4	92%	402
Pioneer	22	14.5	26.5	1.5	53.0	1.0	24.0	0	11.0	0	0.0	4	92%	451
Terminal Park	20	12.5	26.5	1.5	53.0	0.0	24.0	1	11.0	0	0.0	4	92%	412
Washington	23	14.5	26.5	1.5	53.0	0.0	24.0	2	11.0	0	0.0	4	92%	471
SUBTOTAL	334	217.0		16.0		12.0		19		0		70		6,604
<b>MIDDLE SCHOOLS</b>														
Cascade	39	22.0	30.0	0.0	0.0	0.0	0.0	2	11.0	14	25.0	1	90%	929
Mt. Baker	35	18.0	30.0	0.0	0.0	0.0	0.0	2	11.0	14	25.0	1	90%	821
Olympic	44	26.0	30.0	0.0	0.0	0.0	0.0	2	11.0	15	25.0	1	90%	1,059
Rainier	34	17.0	30.0	0.0	0.0	0.0	0.0	2	11.0	14	25.0	1	90%	794
SUBTOTAL	152	83.0		0.0		0.0		8		57		4		3,603
<b>HIGH SCHOOLS</b>														
Auburn High	86	45.0	30.0	0.0	0.0	0.0	0.0	5	11.0	34	25.0	2	90%	2,030
Auburn Mountainview	62	28.0	30.0	0.0	0.0	0.0	0.0	2	11.0	30	25.0	2	90%	1,451
Auburn Riverside	62	29.0	30.0	0.0	0.0	0.0	0.0	2	11.0	29	25.0	2	90%	1,455
West Auburn	13	12.0	30.0	0.0	0.0	0.0	0.0	0	11.0	0	25.0	1	90%	324
SUBTOTAL	223	114.0		0.0		0.0		9		93		7		5,260
<b>TOTAL</b>	<b>709</b>	<b>414.0</b>		<b>16.0</b>		<b>12.0</b>		<b>36</b>		<b>150</b>		<b>81</b>		<b>15,467</b>

**Capacity Versus Enrollment**

The following “Table 6 – School Capacity Versus 10-Year Enrollment Projection” compares the existing capacity of Auburn School District’s elementary, middle and high schools with projected enrollment during the next 10 years.



**Table 6 – School Capacity Versus 10-Year Enrollment Projection**

Year	School Type	Current Capacity	Projected Enrollment	Surplus Capacity
2009-2010	Elementary Schools	6,604	6,730	234
	Middle Schools	3,603	3,284	319
	High Schools	5,260	5,193	67
	Total	15,467	14,847	620
2010-2011	Elementary Schools	6,604	6,581	23
	Middle Schools	3,603	3,408	195
	High Schools	5,260	5,128	132
	Total	15,467	15,117	350
2011-2012	Elementary Schools	6,604	6,801	-197
	Middle Schools	3,603	3,511	92
	High Schools	5,260	5,251	9
	Total	15,467	15,563	-96
2012-2013	Elementary Schools	6,604	7,039	-435
	Middle Schools	3,603	3,626	-23
	High Schools	5,260	5,500	-240
	Total	15,467	16,165	-698
2013-2014	Elementary Schools	6,604	7,230	-626
	Middle Schools	3,603	3,715	-112
	High Schools	5,260	5,616	-356
	Total	15,467	16,561	-1,094
2014-2015	Elementary Schools	6,604	7,404	-800
	Middle Schools	3,603	3,797	-194
	High Schools	5,260	5,789	-529
	Total	15,467	16,990	-1,523
2015-2016	Elementary Schools	6,604	7,511	-907
	Middle Schools	3,603	3,859	-256
	High Schools	5,260	5,830	-570
	Total	15,467	17,200	-1,733
2016-2017	Elementary Schools	6,604	7,596	-992
	Middle Schools	3,603	3,903	-300
	High Schools	5,260	5,896	-636
	Total	15,467	17,395	-1,928
2017-2018	Elementary Schools	6,604	7,682	-1,078
	Middle Schools	3,603	3,948	-345
	High Schools	5,260	5,963	-703
	Total	15,467	17,593	-2,126
2018-2019	Elementary Schools	6,604	7,769	-1,165
	Middle Schools	3,603	3,992	-389
	High Schools	5,260	6,030	-770
	Total	15,467	17,791	-2,324

If the school district proceeds with replacing aging school buildings as recommended by the Facilities Master Plan Steering Committee, the school district’s student capacity will change because replacement schools will be built according to school district current design standards and will vary in size from the school buildings being replaced.

The following “Table 7 – Replacement School Data” identifies the date when replacement schools would open as recommended by the Facilities Master Plan Steering Committee and the change that would occur in school capacity.

**Table 7 – Replacement School Data**

School Name	Year when Replacement School Opens	Replacement School Capacity	Existing School Capacity	Change in Capacity
Terminal Park Elementary School	2011	550	388	162
Auburn High School	2012	1,800	2,030	-230
Olympic Middle School	2013	800	1,059	-259
Dick Scobee Elementary School	2013	550	388	162
Chinook Elementary School	2014	550	423	127
Pioneer Elementary School	2015	550	427	123
Lea Hill Elementary School	2016	550	378	172
<b>TOTAL</b>				257

The following “Table 8 – School Capacity Versus 10-Year Enrollment Projection with Replacement Schools” compares the new capacity of Auburn School District’s elementary, middle and high schools with projected enrollment during the next 10 years, taking into account the construction of replacement schools.

**Table 8 – School Capacity Versus 10-Year Enrollment Projection with Replacement Schools**

Year	School Type	Current Capacity	Projected Enrollment	Surplus Capacity
2009-2010	Elementary Schools	6,604	6,370	234
	Middle Schools	3,603	3,284	319
	High Schools	5,260	5,193	67
	Total	15,467	14,847	620
2010-2011	Elementary Schools	6,766	6,581	185
	Middle Schools	3,603	3,408	195
	High Schools	5,260	5,128	132
	Total	15,629	15,117	512
2011-2012	Elementary Schools	6,766	6,801	-35
	Middle Schools	3,603	3,511	92
	High Schools	5,030	5,251	-221
	Total	15,399	15,563	-164
2012-2013	Elementary Schools	6,928	7,039	-111
	Middle Schools	3,344	3,626	-282
	High Schools	5,030	5,500	-470
	Total	15,302	16,165	-863
2013-2014	Elementary Schools	7,055	7,230	-175
	Middle Schools	3,344	3,715	-371
	High Schools	5,030	5,616	-586
	Total	15,429	16,561	-1,132
2014-2015	Elementary Schools	7,178	7,404	-226
	Middle Schools	3,344	3,797	-453
	High Schools	5,030	5,789	-759
	Total	15,552	16,990	-1,438
2015-2016	Elementary Schools	7,350	7,511	-161
	Middle Schools	3,344	3,859	-515
	High Schools	5,030	5,830	-800
	Total	15,724	17,200	-1,476
2016-2017	Elementary Schools	7,350	7,596	-246
	Middle Schools	3,344	3,903	-559
	High Schools	5,030	5,896	-866
	Total	15,724	17,395	-1,671
2017-2018	Elementary Schools	7,350	7,682	-332
	Middle Schools	3,344	3,948	-604
	High Schools	5,030	5,963	-933
	Total	15,724	17,593	-1,869
2018-2019	Elementary Schools	7,350	7,769	-419
	Middle Schools	3,344	3,992	-648
	High Schools	5,030	6,030	-1,000
	Total	15,724	17,791	-2,067

## Facility Standards | 504

During the past 25 years, Auburn School District has used general design guidelines and project-specific educational specifications to direct the design of its facilities. As part of the current Facilities Master Plan process, the school district has developed comprehensive standards to establish minimum and recommended requirements for the design of its schools and support facilities. Two types of standards have been established:

- **Program Area Standards:** These standards pertain to the features and individual spaces included in a facility. Separate program area standards have been developed for elementary, middle and high schools. Refer to Appendix B for a copy of the program area standards.
- **Facility Component Standards:** These standards pertain to the individual site and building elements use to construct a facility. Separate facility component standards have been developed for elementary schools, middle schools, high schools and support facilities. Refer to Appendix C for a copy of the facility component standards.

While these standards will be used to guide the design of new facilities in Auburn School District, they have also been used as part of the Facilities Master Plan process to assess the condition of existing school and support facilities.

## Facility Assessment | 505

Auburn School District has conducted a comprehensive and detailed evaluation of its existing schools, support facilities, portable classrooms and rental property to accomplish the following:

- Identify and document existing conditions.
- Identify the need for facility improvements.
- Identify the need for replacement of facilities.

Four methods of assessment were used. These are the identification of economic life span, compliance with program area standards, compliance with facility component standards, and the identification of improvement costs as a percentage of replacement cost.

The assessments were conducted by a team that included school district principals and building administrators, representatives of the school district's Maintenance and Capital Projects departments, engineers and facility consultants.

### Economic Life Span

The economic life span was calculated for every school and support facility building. This identifies the number of years after which it is no longer cost-effective to invest significant funds to modify or improve the building. This measurement considers the building's roof material, exterior material, window type, structural frame, seismic design, and the placement of mechanical and electrical systems. The economic life span for school district facilities is summarized in "Table 9 – Facility Assessment Summary – School and Support Facilities". Refer to "Appendix D – Economic Life Span of Buildings" for the methodology and calculations used to determine economic life spans. Replacement of school and support facility buildings should be considered when the buildings have exceeded their economic life span.

### **Compliance with Program Area Standards**

Each school facility in Auburn School District was evaluated to determine its compliance with the minimum and recommended program area standards established for the school. Between 90 and 220 program area standards were evaluated for each school.

A score was assigned for each standard and a total score between 0 and 100 was computed for each facility. A score of 100 would reflect that every program area standard at the school met the school district's recommended standard. A score of 50 reflects that the average of all program area standards meets but does not exceed minimum standards. A score below 50 reflects that, on average, the school does not meet minimum program area standards established for the school. The scores for program area standards for each school are summarized in Table 9. Replacement or significant modernization of a school should be considered when the program area standard score is less than 50.

### **Compliance with Facility Component Standards**

Each school, support facility, portable classroom and rental property owned by the school district was evaluated to determine its compliance with the minimum and recommended facility component standards. Between 202 and 228 facility component standards were evaluated for each school and between 142 and 176 standards were evaluated for each support facility. Twenty-seven facility component standards were evaluated for each portable classroom and 32 standards were evaluated for each rental property.

A score was assigned for each standard and a total score between 0 and 100 was computed for each facility. Similar to the program area standards, a score of 100 would reflect that every facility component standard met the school district's recommended standard. A score of 50 reflects that the average of all facility component standards meets but does not exceed minimum standards. A score below 50 reflects that, on average, the school does not meet minimum facility component standards established for the facility. The scores for facility component standards are summarized in Table 7. Replacement or significant modernization of a facility should be considered when the facility component standard score is less than 50.

### **Improvement Costs as a Percentage of Replacement Cost**

As discussed under the Economic Life Span section of this chapter, sometimes it is not cost-effective to modify or improve a building. This situation was recognized by the 2004-05 Citizen's Ad Hoc Committee, which recommended that the school district replace any facility or portion of a facility if the cost of modernizing it is greater than 70% of the estimated cost of a new building. Consistent with this recommendation, the school district has estimated the cost to improve existing buildings to meet the recommended program area and facility component standards established for the facility. This estimated cost of improvement or modernization was then compared with the cost to replace the building. Table 9 summarizes these costs.

### **Assessment Summary**

"Table 9 – Facility Assessment Summary – School and Support Facilities" identifies the following assessment information for each school and support facility:

- Economic life span and year of replacement based upon economic life span.
- Program Area Standard assessment score.

- Facility Component Standard assessment score.
- Building improvement costs as a percentage of replacement cost.

**Table 9 – Facility Assessment Summary – School and Support Facilities**

Facility Name	Date of Original Construction	Economic Life Span (No. of Years)	Economic Life Span (Date)	Program Area Assessment Score	Facility Component Assessment Score	Building Improvement Cost Percentage
<b>ELEMENTARY SCHOOLS</b>						
Alpac	1972	47	2019	50.94	49.90	56%
Arthur Jacobsen	2007	73	2080	87.14	93.80	2%
Chinook	1963	40	2003	31.79	43.00	81%
Dick Scobee	1954	45	1999	38.94	42.61	89%
Evergreen Heights	1970	45	2015	41.80	44.10	79%
Gildo Rey	1969	49	2018	54.82	44.50	52%
Hazelwood	1990	72	2062	74.03	57.20	39%
Ilalko	1992	72	2064	76.45	62.00	27%
Lakeland Hills	2006	73	2079	86.40	89.60	4%
Lake View	1980	61	2041	53.15	48.10	52%
Lea Hill	1965	40	2005	35.25	45.70	73%
Pioneer	1959	40	1999	34.82	44.10	78%
Terminal Park	1945	44	1985	34.19	42.00	102%
Washington	1972	65	2037	55.40	58.60	22%
<b>MIDDLE SCHOOLS</b>						
Cascade	1967	46	2013	55.06	47.69	56%
Mt. Baker	1994	70	2064	65.91	68.98	29%
Olympic	1957	45	2002	41.36	42.83	118%
Rainier	1991	70	2061	64.32	63.26	32%
<b>HIGH SCHOOLS</b>						
Auburn High	1950	58	2008	48.57	39.91	72%
Auburn Mountainview	2005	81	2086	85.45	89.65	5%
Auburn Riverside	1995	80	2075	69.65	61.90	19%
West Auburn	1990	73	2063	72.83	57.31	25%
<b>SUPPORT FACILITES</b>						
Administration Building	1968	39	2007	NA	55.15	36%
Administrative Annex (Rebuilt)	1989	52	2041	NA	49.63	36%
Auburn Memorial Stadium (Rebuilt)	1982	55	2037	NA	53.02	17%
Auburn Pool	1971	65	2036	NA	40.83	33%
Support Services Center	1996	72	2068	NA	73.34	19%
Transportation Center	1997	66	2063	NA	74.85	8%

“Table 10 – Facility Assessment Summary – Portable Classrooms and Rental Property” identifies the following assessment information:

- Year built (if known).
- Facility Component Standard assessment score.
- Building improvement costs as a percentage of replacement cost.

**Table 10 – Facility Assessment Summary – Portable Classrooms and Rental Property**

Facility Type	Year Built	Facility Component Assessment Score	Building Improvement Cost Percentage
<b>PORTABLE CLASSROOMS</b>			
X100-AH	Unknown	56.50	22%
X101-AH	Unknown	54.00	26%
X102-AH	Unknown	57.00	29%
X103-AH	Unknown	53.00	20%
X104-AH	Unknown	51.50	25%
X105-AH	Unknown	52.50	35%
X106-AH	Unknown	50.00	34%
X107-AH	Unknown	54.00	23%
X108-AH	Unknown	50.50	38%
X109-AH	Unknown	50.00	39%
X110-AH	Unknown	50.00	36%
X111-AH	Unknown	49.50	43%
X112-CH	1989	73.50	3%
X113-CH	1989	77.00	3%
X114-CH	Unknown	64.00	5%
X115-CH	Unknown	60.00	3%
X116-CH	1989	75.50	3%
X117-DS	1989	75.00	11%
X118-DS	1989	74.50	2%
X119-DS	1989	74.00	2%
X120-LH	1989	74.00	7%
X121-LH	1989	73.50	12%
X122-RA	1993	72.00	9%
X123-RA	1993	70.00	7%
X124-RA	1993	71.50	6%
X125-RA	1997	75.00	2%
X126-PI	1989	75.50	1%
X127-PI	1989	77.50	1%
X128-PI	1989	77.50	1%
X133-MB	2001	84.00	2%
X134-TP	1989	77.00	0%
X135-TP	1989	78.00	0%
X136-IL	1989	71.00	11%
X137-IL	1989	69.00	12%
X138-AR	2004	82.00	8%
X139-AR	Unknown	83.50	2%
X140-AL	1989	73.50	7%
X141-AL	1989	72.00	5%
X142-AR	1997	75.50	5%
X143-AR	Unknown	76.50	5%
X144-AR	1997	77.50	5%
X145-MB	2001	84.00	2%
X146-AR	2001	82.50	2%
X147-AR	Unknown	76.50	2%
X148-MB	2001	84.00	2%
X149-LH	2003	84.50	2%
X150-LH	2003	87.50	3%
X151-LV	1989	72.00	5%
X152-LV	1989	71.00	5%
X153-MB	2008	87.00	2%
X154-GR	1989	73.50	8%
X155-GR	1989	72.50	8%
<b>RENTAL PROPERTY</b>			
506 3 <sup>rd</sup> St. NE - Auburn	1923	42.90	NA
509 3 <sup>rd</sup> St. NE – Auburn	1924	49.20	NA
512 3 <sup>rd</sup> St. NE – Auburn	1985	62.23	NA
18705 SE Lake Holm Road - Auburn	1977	72.90	NA

## FACILITY IMPROVEMENTS 6 | SIX

The school district used the results of facility assessments to identify improvements needed to bring each facility and portable classroom into compliance with minimum program area and facility component standards. A total of 3,458 separate improvement items were identified. Of this amount, 2,856 proposed improvements were identified at school facilities, 368 at support facilities and 234 at portable classrooms.

The Facilities Master Plan Steering Committee reviewed this data and provided recommendations for facility improvement guidelines, implementation of improvements, scheduling and funding.

### Facility Improvement Guidelines | 601

The Auburn School District board of directors accepted the following facility improvement guidelines recommended by the Facilities Master Plan Steering Committee:

#### Implementation Guidelines

- Provide improvements to facilities that are needed during the next 10 years and are essential for the support of educational programs, school district services, facility operations and facility integrity.
- Do not provide improvements at Arthur Jacobsen Elementary, Lakeland Hills Elementary and Auburn Mountainview High School because they are new facilities that are in excellent condition and meet school district's standards.
- Provide limited improvements at facilities that are recommended for replacement. Provide these improvements as needed to accommodate building access for the disabled and to address immediate health and safety needs.
- Carefully consider the costs and benefits of improvements at facilities not currently recommended for replacement, i.e., facilities that will exceed their economic life span within approximately 10 years. These facilities include Alpac, Evergreen Heights and Gildo Rey Elementary Schools; Cascade Middle School; and the Administration Building.

#### Scheduling Guidelines

- Begin planning and design work for facility improvements upon approval of funding.
- Begin construction of facility improvements within one year after the start of planning and design.
- Complete the facility improvement construction work in phases over a six-year period.
- Consider the following factors when determining the schedule for completion of facility improvements:
  - immediacy of need;
  - presence of health or safety deficiencies;
  - opportunities for reducing operating costs; and
  - efficiency in the cost of construction.



## Funding Guidelines

- Obtain financing utilizing bond issues or capital levies to fund facility improvements.
- Increase project costs to account for annual cost escalation based upon the actual year of construction. The costs identified in the Steering Committee Report and recommendations are based upon 2008 construction costs. The amount of increase should reflect the year of construction.

## Facility Improvement Data | 602

All proposed facility improvement items were classified based upon type of improvement. These classification categories are: site, structure, building exterior, building interior, equipment, mechanical, electrical and modernization.

Proposed improvements were also classified according to the type of deficiency or enhancement being addressed. These classifications are: health or safety deficiency, operating cost deficiency, facility deficiency or facility enhancement.

Based upon a review of the facility improvement data, the Facilities Master Plan Steering Committee prioritized and ranked all proposed improvements based on the following categories:

- Rank A: An essential need.
- Rank B: A beneficial improvement but not an essential need.
- Rank C: Not recommended for implementation because the improvement was judged to be a minor need or minor deficiency, not feasible, not cost-effective, or scheduled for completion by the school district's Maintenance Department or current Technology levy.

Refer to "Appendix E – Proposed Facility Improvements" for a list of all proposed facility improvements and the rank established for each item.

Cost estimates were prepared for 2,984 of 3,458 proposed facility improvement items. Cost estimates are based upon 2008 costs and include construction and "soft costs." Soft costs include project investigation costs, planning and design fees, bidding costs, legal fees, plan review and permit costs, sales tax, utility and mitigation fees, furnishings and equipment, construction monitoring and project management costs, accounting and financing costs, and contingencies.

Cost estimates were not prepared for proposed improvements that were judged to be a minor need or minor deficiency, not feasible, not cost-effective, or scheduled for completion by the school district's Maintenance Department or current Technology levy.

The following "Table 11 – Facility Improvement Rank and Costs" provides a summary of the rank and cost, in 2008 dollars, of proposed improvements at each school, support facility and portable classroom in Auburn School District.

**Table 11 – Facility Improvement Rank and Costs**

Facility Name	Rank A Costs (2008)	Rank B Costs (2008)	Rank C Costs (2008)
<b>ELEMENTARY SCHOOLS</b>			
Alpac	\$3,409,425	\$7,303,356	\$5,940,772
Arthur Jacobsen	\$0	\$0	\$526,088
Chinook	\$38,060	\$182,039	\$22,265,225
Dick Scobee	\$6,854	\$152,206	\$24,467,866
Evergreen Heights	\$6,297,500	\$750,777	\$19,754,320
Gildo Rey	\$3,527,226	\$3,287,532	\$13,004,097
Hazelwood	\$3,652,141	\$640,207	\$7,697,296
Ilalko	\$2,547,122	\$75,766	\$6,504,395
Lakeland Hills	\$0	\$0	\$987,218
Lake View	\$3,879,103	\$55,572	\$15,813,025
Lea Hill	\$9,139	\$45,035	\$21,345,041
Pioneer	\$16,261	\$35,605	\$22,534,259
Terminal Park	\$8,322	\$249,370	\$27,920,634
Washington	\$639,953	\$234,493	\$6,825,888
<b>ELEMENTARY SCHOOLS SUBTOTAL</b>	<b>\$24,031,105</b>	<b>\$13,011,956</b>	<b>\$195,586,124</b>
<b>MIDDLE SCHOOLS</b>			
Cascade	\$4,576,904	\$2,725,472	\$51,989,063
Mt. Baker	\$1,191,077	\$679,712	\$14,794,167
Olympic	\$0	\$546,250	\$54,832,406
Rainier	\$4,837,731	\$1,093,384	\$12,556,565
<b>MIDDLE SCHOOLS SUBTOTAL</b>	<b>\$10,605,711</b>	<b>\$5,044,818</b>	<b>\$134,172,201</b>
<b>HIGH SCHOOLS</b>			
Auburn High	\$572,125	\$2,643,977	\$81,733,320
Auburn Mountainview	\$0	\$0	\$4,973,846
Auburn Riverside	\$5,615,076	\$10,618,939	\$8,383,293
West Auburn	\$526,186	\$185,230	\$2,866,978
<b>HIGH SCHOOLS SUBTOTALS</b>	<b>\$6,713,386</b>	<b>\$13,448,145</b>	<b>\$97,957,436</b>
<b>SUPPORT FACILITIES</b>			
Administrative Annex	\$145,219	\$483,623	\$1,234,677
Administration Building	\$717,181	\$1,483,038	\$2,610,264
Auburn Memorial Stadium	\$1,734,008	\$1,337,810	\$1,698,487
Auburn Pool	\$1,650,713	\$459,510	\$2,679,785
Support Services Center	\$541,850	\$389,575	\$3,336,099
Transportation Center	\$271,879	\$0	\$623,008
<b>SUPPORT FACILITIES SUBTOTALS</b>	<b>\$5,060,850</b>	<b>\$4,153,556</b>	<b>\$12,182,319</b>
<b>PORTABLE CLASSROOMS</b>			
52 Portable Classroom Units	\$0	\$0	\$1,182,089
<b>PORTABLE CLASSROOM SUBTOTALS</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,182,089</b>
<b>TOTAL BY CATEGORY (2008 Costs)</b>	<b>\$46,411,052</b>	<b>\$35,658,475</b>	<b>\$441,080,169</b>
<b>GRAND TOTAL (2008 Costs)</b>	<b>\$523,149,696</b>		

## Facility Improvement Recommendations | 603

The Auburn School District board of directors accepted the recommendations of the Facilities Master Plan Steering Committee for providing improvements at schools, support facilities, portable classrooms, rental property and undeveloped property.

### School Facility Recommendations

Improvements that were classified as “Rank A” should be provided at school facilities. This includes improvements at 18 schools. The estimated cost of Rank A improvements at each school is identified in Table 11. Refer to “Appendix F – Approved Facility Improvements: Schools” for detailed information about these improvements. The following information summarizes the costs of these improvements at the elementary, middle and high school levels:

- Elementary School Facility Improvements:     \$24,031,105
- Middle School Facility Improvements:             \$10,605,711
- High School Facility Improvements:                 \$6,713,386
- Total for All Schools:                                 \$41,350,202

### Support Facility Recommendations

Improvements that were classified as Rank A should be provided at support facilities. This includes improvements at six support facilities. The estimated cost of Rank A improvements at each support facility is identified in Table 11. Refer to “Appendix G – Approved Facility Improvements: Support Facilities” for detailed information about these improvements. The total cost of improvements recommended for the school district’s support facilities is \$5,060,850.

### Portable Classroom Recommendations

A total of 234 proposed improvement items were identified at 42 of the school districts 52 portable classroom units. The remaining 10 portable classroom units met or exceeded all applicable minimum standards. The total cost of these improvements is \$1,182,089. All proposed improvements at portable classrooms were classified as Rank C and were not recommended for implementation as part of a capital improvement program. However, improvements that are necessary to address health and safety needs, maintain the integrity of the building exterior and structure, provide general upkeep, and sustain continued use as a portable classroom will be addressed as part of the school district’s maintenance program.

### Rental Property Recommendations

The school district’s rental properties occupy land that will be needed for future school facilities. The residential dwellings located on these parcels are unoccupied or rented to tenants. Because these dwellings will eventually be demolished to accommodate school facilities, facility improvements are not recommended as part of a capital improvement program. However, improvements that are necessary to address health and safety needs, maintain the integrity of the building exterior and structure, provide general upkeep, and sustain continued use as rental property will be addressed as part of the school district’s maintenance program.

**Undeveloped Property Recommendations**

The school district owns 158 acres of undeveloped property that was purchased for future school facilities. Because of the undeveloped condition of this property, improvements are not recommended as part of a capital improvements program. However, improvements that are necessary to protect the property from damage and restrict unauthorized access and activities should be provided as part of the school district's maintenance program.

**Facility Improvement Funding | 604**

The Auburn School District board of directors accepted the recommendation of the Facilities Master Plan Steering Committee to utilize a capital levy to fund improvements to existing facilities. On December 22, 2008, the school board authorized an election to levy a tax to provide \$46,400,000 to fund facility improvements. This Capital Improvement Levy would complete facility improvements classified as Rank A, which would be provided at 18 schools and 6 support facilities. The election will be held March 10, 2009. If approved, the tax levy would be collected over a six-year period.

## NEW FACILITIES 7 | SEVEN

The school district has evaluated the capacity of existing schools and enrollment projections to determine the need for additional schools and portable classrooms during the next 10 years. The condition of existing schools and support facilities has also been evaluated to determine the need for expanding and replacing facilities.

The Facilities Master Plan Steering Committee reviewed this data and provided recommendations for new facility guidelines, implementation of new facilities, scheduling and funding.

### **New Facility Guidelines | 701**

The Auburn School District board of directors accepted the following new facility recommendations of the Facilities Master Plan Steering Committee:

#### **Implementation Guidelines**

- Build additional facilities as needed to:
  - accommodate existing programs or services that operate in inadequate facilities that are not cost-effective to modernize or expand;
  - accommodate enrollment growth; or
  - accommodate growth of school district services and operations.
- Replace existing facilities that:
  - have exceeded their economic life span;
  - have program areas with a rating score below 50.00;
  - have facility components with a rating score below 50.00; and
  - have a cost to modernize the building that is greater than 70% of the cost of replacement.
- Build new and replacement facilities at a size and with features that meet school district's recommended standards.

#### **Scheduling Guidelines**

- The planning and design work for new facilities and replacement facilities shall begin upon approval of funding.
- New facilities shall be completed within the next 10 years.
- The following factors shall be considered when scheduling construction of these facilities:
  - Consider the cost and sequence of individual replacement projects and their impacts on financing and tax rates.
  - Consider constructing the highest cost projects first to reduce overall project costs by reducing annual escalation costs.
  - Consider replacing the largest schools first to provide early benefit to greatest number of students.

- Consider the location and the availability of space for interim housing of students when a school is being replaced.
- Consider the impact that construction projects and interim housing of students will have on school district services, operations and general fund.
- Consider student capacity increases that will occur at the elementary schools because of the construction of replacement schools, and complete replacement projects in a sequence that best meets enrollment needs.

### **Funding Guidelines**

- Obtain financing utilizing bond issues or capital levies to fund new facilities.
- Utilize school impact fees to pay for the acquisition, installation and relocation of portable classrooms, and the acquisition of property for future elementary and middle schools.
- Utilize matching funds from the State of Washington to pay for a portion of the replacement of existing schools.
- Increase project costs to account for annual cost escalation based upon the actual year of construction. The costs identified in the Steering Committee Report and recommendations are based upon 2008 construction costs. The amount of increase should reflect the year of construction.

## **New Facility Data | 702**

### **New School Data**

Auburn School District establishes school boundaries to achieve balanced enrollment among schools. Portable classrooms are installed to alleviate overcrowding on a short-term basis. New schools and additions to existing schools are constructed when additional capacity is needed to permanently address overcrowding district-wide or within a region of the school district. For planning purposes, the school district considers building and opening a new school when the projected enrollment at the elementary, middle and high school level exceeds capacity as follows:

- Elementary Schools: Total projected enrollment at all elementary schools exceeds capacity by 475 students.
- Middle Schools: Total projected enrollment at all middle schools exceeds capacity by 650 students.
- High Schools: Total projected enrollment at all comprehensive high schools exceeds capacity by 1,500 students.

Table 6 compares the existing capacity of Auburn School District's elementary, middle and high schools with projected enrollment during the next 10 years. Table 8 compares the new capacity of Auburn School District's elementary, middle and high schools with projected enrollment during the next 10 years taking into account the construction of replacement schools.

**School Additions Data**

Additions to existing schools are not needed to accommodate enrollment growth during the next 10 years based upon the school district’s existing capacity and 10-year enrollment projection that includes increased capacity from replacement schools. However, the facility assessment conducted for Auburn High School identified a deficiency in the space provided for the school district’s special education transition program for 18 to 21 year old students. The existing space used by this program at Auburn High School is undersized and lacks equipment, instructional features and restrooms needed for this program. The facility assessment concluded it was not feasible to modernize the existing special education space at the school to meet the needs of the transition program because of space limitations. Instead, additional space is needed for this program in the vicinity of Auburn High School.

As part of the Facility Master Plan process, educational specifications were prepared to identify the facilities needed to fully accommodate the special education transition program. Based upon these educational specifications, this program could utilize up to 3,420 square feet of additional space.

A cost estimate was prepared to provide and equip a permanent 3,420 square foot special education transition facility that includes 1.0 acre of site development. The estimated project cost, in 2008 dollars, is \$1,766,150.

A cost estimate was also prepared to provide a smaller and less expensive facility that meets the minimum requirements of the special education transition program. This facility would consist of a modular building that is approximately 2,700 square feet in size on a 0.2 acre site with an estimated project cost, in 2008 dollars, of \$1,000,000.

**Replacement School Data**

There are seven schools in Auburn School District whose facilities exceed their economic life span, have a program area assessment score below 50.00, have a facility component assessment score below 50.00, and have a building improvement cost greater than 70% of the cost of replacement. Five elementary schools, one middle school and one high school meet these criteria. “Table 12 – Facility Assessment Summary – Replacement Schools” identifies these schools and their assessment information.

**Table 12 – Facility Assessment Summary – Replacement Schools**

Facility Name	Date of Original Construction	Economic Life Span (No. of Years)	Economic Life Span (Date)	Program Area Assessment Score	Facility Component Assessment Score	Building Improvement Cost Percentage
Chinook Elementary School	1963	40	2003	31.79	43.00	81%
Dick Scobee Elementary School	1954	45	1999	38.94	42.61	89%
Lea Hill Elementary School	1965	40	2005	35.25	45.70	73%
Pioneer Elementary School	1959	40	1999	34.82	44.10	78%
Terminal Park Elementary School	1945	44	1985	34.19	42.00	102%
Olympic Middle School	1957	45	2002	41.36	42.83	118%
Auburn High School	1950	58	2008	48.57	39.91	72%

### **New Support Facility Data**

Based upon the assessment of the school district's support facilities, these facilities have adequate capacity to accommodate the growth of support staff and operations for the next 10 years, except at the Administration Building and Transportation Center. At the Administration Building, the assessment concluded it would be beneficial to provide additional meeting room space to address current and future meetings and conference room needs, but this was not considered to be an essential need and did not justify new or expanded facilities.

The assessment also concluded additional bus facilities will be needed during the next 10 years. Enrollment growth during the next 10 years is projected to be 3,232 students. These additional students will require additional school bus transportation. The extent of additional transportation will depend upon the location of the new students' homes and efficiencies that can be achieved using the school district's existing bus fleet. It is estimated that 11 additional buses will be needed to accommodate growth during the next 10 years. The existing transportation operation buildings and fuel station at the Transportation Center are adequate to accommodate this growth. However, additional bus parking will be needed.

The existing Transportation Center does not have space to accommodate additional bus parking. Instead, additional parking will be needed at another location along with facilities to accommodate bus parking activities. The facilities include parking and security for buses, parking for bus drivers' personal vehicles, restrooms and a dispatch office. The school district will be able to reduce school bus operation costs if additional parking is provided at a satellite bus center that is located in a manner to reduce bus travel.

### **New Portable Classroom Data**

New portable classrooms at existing schools should not be needed to accommodate district-wide enrollment growth during the next 10 years based upon the school district's existing capacity and 10-year enrollment projection that includes increased capacity from replacement schools. However, it is anticipated that localized enrollment growth will occur during this time period that will result in a shortage of space at individual schools. If this localized shortage of space cannot be addressed by school boundary adjustments or by the relocation of existing portables that are unused and cost-effective to relocate, then portable classrooms will be needed. The need for new portables should be evaluated annually based upon mid-year enrollment data.

Localized enrollment growth is anticipated to occur during the next 10 years at schools located in the Lea Hill, Lakeland Hills and north Auburn areas of Auburn School District.

## **New Facility Recommendations | 703**

### **New School Recommendations**

Based upon the school district's existing student capacity and projected enrollment during the next 10 years after the construction of replacement schools, additional schools will not be needed at the elementary, middle and high school levels to accommodate enrollment growth during the next 10 years. In two years, the school district should re-evaluate the need for additional schools based upon 2010 enrollment data and updated enrollment projections.

### **School Additions Recommendations**



Additional space should be provided in the vicinity of Auburn High School to accommodate the school’s special education transition program for 18 to 21 year old students. The facility should be constructed on 0.2 acres of property adjacent to Auburn High School at 509 Third St. NE. The facilities should consist of a modular building that is approximately 2,700 square feet in size with an estimated project cost, in 2008 dollars, of \$1,000,000.

Planning and design work should begin in January 2009. Construction work should begin in July 2009 and be completed in October 2009.

School impact fees that have been collected by Auburn School District should be used to fund the construction of the building and equipment.

**Replacement School Recommendations**

The school district should replace seven aging schools at their current locations and the schools should be built to comply with the school district’s recommended standards, except for the recommended site size standard. Site size shall match the existing site area present at each school. “Table 13 – Replacement Schools” identifies each replacement school and its site size, gross building area, student capacity and estimated project cost in 2008 dollars.

**Table 13 – Replacement Schools**

Facility Type	Site Size (Acres)	Gross Building Area (SF)	Student Capacity	Replacement Cost (2008)
Chinook Elementary School	10.99	52,000	550	\$32,179,660
Dick Scobee Elementary School	8.90	52,000	550	\$30,762,604
Lea Hill Elementary School	12.00	52,000	550	\$32,763,810
Pioneer Elementary School	8.41	52,000	550	\$30,276,975
Terminal Park Elementary School	6.09	52,000	550	\$28,621,827
Olympic Middle School	17.40	91,000	800	\$50,107,424
Auburn High School	19.34	256,887	1,800	\$109,447,424

Five existing facilities, not recommended for replacement, will exceed their economic life space within the next 10 years. These facilities are Alpac Elementary School, Evergreen Heights Elementary School, Gildo Rey Elementary School, Cascade Middle School and the Administration Building. The school district should carefully evaluate the program areas and facility components at these facilities in 10 years and consider replacement of these facilities between 2019 and 2028.

If funding is approved, work on replacement schools should proceed as identified in “Table 14 – Replacement School Schedule.”

**Table 14 – Replacement School Schedule**

Facility Name	Begin Planning and Design	Begin Construction	Complete Construction
<b>PHASE 1</b>			
Terminal Park Elementary School	April 2009	Sept. 2010	Aug. 2011
Olympic Middle School	April 2009	March 2012	Aug. 2013
Auburn High School	April 2009	Sept. 2010	Aug. 2012
<b>PHASE 2</b>			
Chinook Elementary School	Sept. 2011	Sept. 2013	Aug. 2014
Dick Scobee Elementary School	Sept. 2010	Sept. 2012	Aug. 2013
Lea Hill Elementary School	Sept. 2013	Sept. 2015	Aug. 2016
Pioneer Elementary School	Sept. 2012	Sept. 2014	Aug. 2015

### **New Support Facility Recommendations**

A satellite bus facility should be provided in the Lea Hill area to accommodate expansion of the existing school district bus fleet and to achieve cost efficiencies in bus operations. The facility should include fenced parking for 40 buses and 42 passenger vehicles, exterior surveillance camera system, electrical power at each bus stall for block heaters, parking lot lights, and a building facility with a men's and women's restroom, and office with time clock and one work station. The estimated project cost, in 2008 dollars, is \$1,629,971.

The satellite bus center should be constructed within seven years using existing resources in the Capital Projects Fund.

### **New Portable Classroom Recommendations**

In 2009, a new double-unit portable classroom should be provided at Lakeland Hills Elementary School to accommodate localized enrollment. The portable classroom should be ready for occupancy by mid-August 2009. The estimated project cost, in 2008 dollars, is \$167,265.

When new portable classrooms are provided and equipped, they should be funded by school impact fees.

### **New Facility Funding | 704**

The Auburn School District board of directors accepted the recommendation of the Facilities Master Plan Steering Committee to utilize bond issues to fund new facilities. On December 22, 2008, the Auburn School District board of directors authorized an election for a \$239,000,000 bond proposition to fund the replacement of Terminal Park Elementary School, Olympic Middle School and Auburn High School. The election will be held March 10, 2009. If approved, general obligation bonds will be sold with a maximum 20-year term of maturity. The bond proposition amount is based upon the estimated project costs for these replacement schools, plus annual escalation costs that reflect the year when construction bids are obtained.

The school district should submit an application to OSPI to obtain State matching funds to pay for a portion of cost of these replacement projects. The exact level of State matching funds will be based upon the school district's enrollment levels and Area Cost Allowance in effect at the time when construction bids are obtained. The award of State matching funds is not guaranteed. Instead, it is determined by OPSI based upon the availability of funds and the priority of projects being considered for funding. Because the award of State matching funds is not guaranteed, full funding for the projects should be secured through a bond proposition.

If State matching funds are awarded and received, these funds should be deposited in the Capital Projects Fund for use as determined by the school district's board of directors.

## PROPERTY ACQUISITIONS 8 | EIGHT

Auburn School District owns 158 acres of undeveloped property and 4.51 acres of rental property that were purchased for future schools. This property consists of four parcels of undeveloped property and four parcels of rental property.

### Property Data | 801

Three of the undeveloped parcels are located in rural areas where it is not cost-effective and not feasible to build schools because of existing land-use regulations and lack of public water and sewer systems. In addition, there is not an adequate population of students in these rural areas to support new schools. These three rural sites are located at: 129<sup>th</sup> Ave. SE/Lake Holm Road; 190<sup>th</sup> Ave. SE/Lake Holm Road; and 16401 SE 318<sup>th</sup> Street. Changes in land-use regulations and the availability of water and sewer systems at these sites are not expected to occur within the foreseeable future. In addition, student population growth is not anticipated to occur in these areas until there are changes in land-use regulations and the expansion of water and sewer systems. Thus, these three rural sites will not be suitable for new schools for at least 10 years.

One of the four undeveloped sites, located at 40<sup>th</sup> St. NE/I St. NE, is feasible for development of a school. The site is 35.22 acres in size and could accommodate a high school or an elementary school and middle school. The existing student population in this area is growing but is currently less than desired to support a new school.

The four rental property parcels range in size from .09 to 4.11 acres. Three of the parcels are adjacent to Auburn High School and one is adjacent to the undeveloped parcel owned by the school district at 190<sup>th</sup> Ave. SE/SE Lake Holm Road. Individually, the four parcels are too small to accommodate a new school. However, all four parcels are located adjacent to school district property and can be used for expansion of facilities at the adjacent properties.

Auburn School District has a shortage of school capacity for students at the elementary and middle school levels in the south end of the school district. Continued enrollment growth is anticipated in this area, which will result in a further shortage of space. Portable classrooms are being used to add classroom space on a temporary basis. School boundary adjustments have been made to reduce the shortage of space, but the need for additional school capacity in this area remains.

### Property Acquisition Recommendations | 802

Given the shortage of school capacity in the south end of the school district, the Auburn School District board of directors has accepted the following recommendations of the Facilities Master Plan Steering Committee for the acquisition of property:

- Acquire 10-12 acres of property within five years for a future elementary school in the south end of the school district. Budget \$5,000,000 for this acquisition.
- Acquire 20-25 acres of property within five years for a future middle school in the south end of the school district. Budget \$10,000,000 for this acquisition.

## **Property Acquisition Funding | 803**

School impact fees collected by the school district should be used to acquire property of a new elementary school and new middle school.

## SUMMARY 9 | NINE

Based upon the findings of the Facilities Master Plan Steering Committee, the Auburn School District board of directors has approved facility improvements, new facilities, portable classrooms and property acquisitions needed during the next 10 years. The following “Table 16 – 10-Year Facility Plan Summary” identifies the scope, cost and schedule for this work.

Table 16 – 10-Year Facility Plan Summary

Facility	Cost (2008)	Begin Construction	Complete Construction or Acquisition	Funding Source
<b>FACILITY IMPROVEMENTS</b>				
Alpac Elementary School	\$3,409,425	TBD	By 2015	2009 Capital Levy
Chinook Elementary School	\$38,060	TBD	By 2015	2009 Capital Levy
Dick Scobee Elementary School	\$6,854	TBD	By 2015	2009 Capital Levy
Evergreen Heights Elementary School	\$6,297,500	TBD	By 2015	2009 Capital Levy
Gildo Rey Elementary School	\$3,527,226	TBD	By 2015	2009 Capital Levy
Hazelwood Elementary School	\$3,652,141	TBD	By 2015	2009 Capital Levy
Ilalko Elementary School	\$2,547,122	TBD	By 2015	2009 Capital Levy
Lake View Elementary School	\$3,879,103	TBD	By 2015	2009 Capital Levy
Lea Hill Elementary School	\$9,139	TBD	By 2015	2009 Capital Levy
Pioneer Elementary School	\$16,261	TBD	By 2015	2009 Capital Levy
Terminal Park Elementary School	\$8,322	TBD	By 2015	2009 Capital Levy
Washington Elementary School	\$639,953	TBD	By 2015	2009 Capital Levy
Cascade Middle School	\$4,576,904	TBD	By 2015	2009 Capital Levy
Mt. Baker Middle School	\$1,191,077	TBD	By 2015	2009 Capital Levy
Rainier Middle School	\$4,837,731	TBD	By 2015	2009 Capital Levy
Auburn High School	\$572,125	TBD	By 2015	2009 Capital Levy
Auburn Riverside High School	\$5,615,076	TBD	By 2015	2009 Capital Levy
West Auburn High School	\$526,186	TBD	By 2015	2009 Capital Levy
Administrative Annex	\$145,219	TBD	By 2015	2009 Capital Levy
Administration Building	\$717,181	TBD	By 2015	2009 Capital Levy
Auburn Memorial Stadium	\$1,734,008	TBD	By 2015	2009 Capital Levy
Auburn Pool	\$1,650,713	TBD	By 2015	2009 Capital Levy
Support Services Center	\$541,850	TBD	By 2015	2009 Capital Levy
Transportation Center	\$271,879	TBD	By 2015	2009 Capital Levy
<b>REPLACEMENT FACILITIES</b>				
Terminal Park Elementary School	\$28,621,827	2010	2011	2009 Bond Proposition
Olympic Middle School	\$50,107,424	2012	2013	2009 Bond Proposition
Auburn High School	\$109,447,424	2010	2012	2009 Bond Proposition
Dick Scobee Elementary School	\$30,762,604	2012	2013	Future Bond Proposition
Chinook Elementary School	\$32,179,660	2013	2014	Future Bond Proposition
Pioneer Elementary School	\$30,276,975	2014	2015	Future Bond Proposition
Lea Hill Elementary School	\$32,763,810	2015	2016	Future Bond Proposition
<b>NEW FACILITIES</b>				
Auburn High School - Spec. Ed. Transition Program	\$750,000	2009	2009	School Impact Fees
Satellite Bus Center - Lea Hill Area	\$1,626,971	TBD	By 2016	Existing Cap. Projects Fund
<b>PORTABLE CLASSROOMS</b>				
Lakeland Hills Elementary School	\$257,040	2009	2009	School Impact Fees
Schools Requiring Additional Classroom Capacity	Varies	As Needed	As Needed	School Impact Fees
<b>PROPERTY ACQUISITIONS</b>				
New Elementary School Site (10 - 12 acres)	\$5,000,000	NA	2013	School Impact Fees
New Middle School Site (20 - 25 acres)	\$10,000,000	NA	2013	School Impact Fees

## APPENDICES

### **Appendix A – Steering Committee Report**

### **Appendix B – Program Area Standards**

Schools:

Elementary School

Middle School

Comprehensive High School

West Auburn High School

### **Appendix C – Facility Component Standards**

Schools:

Elementary School

Middle School

Comprehensive High School

West Auburn High School

Support Facilities:

Administration Building

Administrative Annex

Auburn Memorial Stadium

Auburn Pool

Support Services Center

Transportation Center

### **Appendix D – Economic Life Span of Buildings**

### **Appendix E – Proposed Facility Improvements**

Elementary Schools:

Alpac Elementary School

Arthur Jacobsen Elementary School

Chinook Elementary School

Dick Scobee Elementary School



Evergreen Heights Elementary School

Gildo Rey Elementary School

Hazelwood Elementary School

Ilalko Elementary School

Lake View Elementary School

Lakeland Hills Elementary School

Lea Hill Elementary School

Pioneer Elementary School

Terminal Park Elementary School

Washington Elementary School

M iddle Schools:

Cascade Middle School

Mt. Baker Middle School

Olympic Middle School

Rainier Middle School

H igh Schools:

A uburn High School

Auburn Mountainview High School

Auburn Riverside High School

West Auburn High School

Sup port Facilities:

Administration Building

Administrative Annex

Auburn Memorial Stadium

Auburn Pool

Support Services Center

Transportation Center

## Appendix F – Approved Facility Improvements: Schools

Elementary Schools:

Alpac Elementary School

Chinook Elementary School

Dick Scobee Elementary School

Evergreen Heights Elementary School

Gildo Rey Elementary School

Hazelwood Elementary School

Ilalko Elementary School

Lake View Elementary School

Lea Hill Elementary School

Pioneer Elementary School

Terminal Park Elementary School

Washington Elementary School

M iddle Schools:

Cascade Middle School

Mt. Baker Middle School

Rainier Middle School

H igh Schools:

A uburn High School

Auburn Riverside High School

West Auburn High School

## **Appendix G – Approved Facility Improvements: Support Facilities**

Support Facilities:

Administration Building

Administrative Annex

Auburn Memorial Stadium

Auburn Pool

Support Services Center

Transportation Center

## **Appendix A – Steering Committee Report**

## Facilities Master Plan

# STEERING COMMITTEE REPORT

October 21, 2008

**Steering Committee Assignment:** Review school district facilities and data. Provide recommendations for facility improvements, new facilities, and property acquisitions that will meet school district's needs for the next ten years.

### Steering Committee Members:

Jim Fletcher - Community Member  
Ryan Foster - Lakeland Hills Elementary School Principal  
Jeffrey Grose - Executive Director of Capital Projects  
Bob Kenworthy - Capital Projects Department Coordinator  
Jack Madigan - Rainier Middle School Assistant Principal  
Mike Newman - Deputy Superintendent  
Clarissa Ruston - Community Member  
Rob Swaim - Director of Career and Technical Education & Athletics  
Randy Thomas - Director of Maintenance and Operations  
Mike Weibel - Lake View Elementary School Principal  
Nola Wilson - Auburn Riverside High School Assistant Principal

### Steering Committee Process:

The Facilities Master Plan Steering Committee met eight times during the past month for a total of 42 hours. During these meetings, the Steering Committee completed the following tasks:

- Visited selected facilities to compare the condition and quality of new and older facilities.
- Reviewed facility data for all school district facilities. These facilities include fourteen elementary schools, four middle schools, four high schools, six support facilities, fifty-one portable classrooms, five rental properties, and five undeveloped properties owned by the school district.
- Reviewed facility information provided by school district staff and consultants.
- Reviewed and provided recommendations for over 2,700 proposed facility improvements.
- Reviewed and provided recommendations for new facilities and property acquisitions.
- Prioritized and ranked recommendations for facility improvements and new facilities based on the following categories:
  - Rank A: Essential need.
  - Rank B: Beneficial but not an essential need.
  - Rank C: Not recommended because they were found to be a minor need or minor deficiency, not feasible, not cost effective, not an eligible capital improvement, or scheduled for completion by the Maintenance Department or the Technology Levy.

- Conducted a second review of recommendations with Rank A to confirm they address an essential need.
- Provided recommendations for the scheduling and funding of facility improvements, new facilities and property acquisitions.
- Summarized the Steering Committee process, findings and recommendations in a report to the Superintendent of Auburn School District.

**Steering Committee Recommendations:**

**FACILITY IMPROVEMENT RECOMMENDATIONS:**

General:

- Provide improvements to facilities that are needed during the next ten years and are essential for the support of educational programs, school district services, facility operations, and facility integrity.
- Do not provide improvements at Arthur Jacobsen Elementary, Lakeland Hills Elementary and Auburn Mountainview High Schools because they are new facilities that are in excellent condition and meet school district's standards.
- Provide limited improvements at facilities that are recommended for replacement. Provide these improvements as needed to accommodate building access for the disabled and to address immediate health and safety needs.
- Carefully consider the costs and benefits of improvements at facilities not currently recommended for replacement which will exceed their economic life span within approximately ten years. These facilities include Alpac, Evergreen Heights and Gildo Rey Elementary Schools, Cascade Middle School, and the Administration Building.

School Facility Improvements: Provide facility improvements that have been designated with a Rank A by the Steering Committee. The estimated cost of these improvements is as follows:

- |  |             |
|--|-------------|
| • Alpac Elementary School:             | \$3,409,425 |
| • Arthur Jacobsen Elementary School:   | \$0         |
| • Chinook Elementary School:           | \$38,060    |
| • Dick Scobee Elementary School:       | \$6,854     |
| • Evergreen Heights Elementary School: | \$6,297,500 |
| • Gildo Rey Elementary School:         | \$3,527,226 |
| • Hazelwood Elementary School:         | \$3,652,141 |
| • Ilalko Elementary School:            | \$2,547,122 |
| • Lakeland Hills Elementary School:    | \$0         |
| • Lake View Elementary School:         | \$3,879,103 |
| • Lea Hill Elementary School:          | \$9,139     |

• Pioneer Elementary School:	\$16,261
• Terminal Park Elementary School	\$8,322
• Washington Elementary School	\$639,953
• Cascade Middle School:	\$4,576,904
• Mt. Baker Middle School:	\$1,191,077
• Olympic Middle School :	\$0
• Rainier Middle School:	\$4,837,731
• Auburn High School:	\$922,459
• Auburn Mountainview High School:	\$0
• Auburn Riverside High School:	\$5,275,172
• West Auburn High School:	<u>\$526,186</u>
TOTAL:	\$41,360,633

Support Facility Improvements: Provide facility improvements that have been designated with a Rank A by the Steering Committee. The estimated cost of these improvements is a follows:

• Administrative Annex:	\$145,219
• Administration Building:	\$717,181
• Auburn Memorial Stadium:	\$1,734,008
• Auburn Pool:	\$1,650,713
• Support Services Center:	\$541,450
• Transportation Center:	<u>\$271,879</u>
TOTAL:	\$5,060,850

Portable Classroom Improvements: Provide improvements at portable classrooms on a maintenance basis as necessary to meet health and safety needs, maintain the integrity of the building exterior and structure, provide general upkeep, and sustain continued use as a portable classroom.

Rental Property Improvements: Provide improvements at rental properties on a maintenance basis as necessary to meet health and safety needs, maintain the integrity of the building exterior and structure, provide general upkeep, and sustain continued use as rental property.

Undeveloped Property Improvements: Provide improvements at undeveloped properties as necessary to protect property from damage and to restrict unauthorized access and activities.

NEW FACILITY RECOMMENDATIONS:

General:

- Replace existing facilities that:
  - have exceeded their economic life span, and
  - have program areas with a rating score below 50.00, which shows that program areas, on average, do not meet the school district’s minimum standards, and
  - have facility components with a rating score below 50.00, which show that facility components, on average, do not meet the school district’s minimum standards, and
  - have a cost to modernize the building that is greater than 70% of the cost of replacement.

- Build replacement facilities at a size and with features that meet school district's recommended standards.
- Build additional facilities as needed to accommodate:
  - existing programs or services that operate in inadequate facilities that are not cost effective to modernize or expand,
  - enrollment growth, or
  - growth of school district services and operations.

Replacement Facilities:

- Replace Chinook, Dick Scobee, Lea Hill, Pioneer and Terminal Park Elementary Schools, and Olympic Middle School at their existing sites.
  - These schools have exceeded their economic life span, have program area and facility component scores below 50.00, and have an estimated cost of modernization is more than 70% of their replacement cost. (See Table 1 or page 7 for details.)
  - The estimated cost to replace these schools is:

▪ Chinook Elementary:	\$32,179,660
▪ Dick Scobee Elementary:	\$30,762,604
▪ Lea Hill Elementary:	\$32,763,810
▪ Pioneer Elementary:	\$30,276,975
▪ Terminal Park Elementary:	\$28,621,827
▪ Olympic Middle School:	<u>\$50,107,424</u>
TOTAL:	\$204,712,300
- Replace Auburn High School utilizing one of the options described below:
  - Portions of Auburn High School have reached its economic life span. The overall facility has program area and facility component scores below 50.00, and the estimated cost of modernization is more than 70% of its replacement cost. (See Table 1 on page 7 for details.)
  - Option 1: Provide an 1,800 student replacement school at the existing Auburn High School site.
    - Acquire up to seven adjacent residential and commercial properties to allow for site expansion.
    - Demolish existing Auburn High School facilities except for the Auto Shop, Main Gym area, and PAC.
    - Incorporate the Auto Shop, Main Gym and PAC in the replacement school.
    - Provide infrastructure and space for 10 portable classrooms.
  - Option 2: Provide a new 1,800 student school at a 35-acre site owned by the school district in north Auburn and retain the existing facilities at the Auburn High School site.
    - Provide infrastructure and space for 10 portable classrooms at the new school site.

- Retain and use the existing Auburn High School facilities as an interim school to house students when other schools are being replaced.
  - Provide minor modernization of existing facilities as needed to accommodate interim schools.
  - Maintain and use the existing Auto Shop, Main Gym and PAC as district-wide facilities.
  - Consider use of the existing Auburn High School site for a future middle school that would include continuing use of the existing Auto Shop, Main Gym and PAC as district-wide facilities.
- Option 3: Provide a new 1,800 student school at a 35-acre site owned by the school district in north Auburn and demolish a portion of the existing facilities at the Auburn High School site.
- Provide infrastructure and space for 10 portable classrooms at the new school site.
  - Demolish the existing Auburn High School facilities except the Auto Shop, Main Gym area, PAC and some site improvements.
  - After demolition of existing facilities, provide site improvements that would support the use of the existing Auto Shop, Main Gym, PAC, Auburn Pool, and Auburn Memorial Stadium as district-wide facilities.
- The estimated cost of each option to replace Auburn High School is:
- Option 1: \$109,447,424
  - Option 2: \$127,892,050
  - Option 3: \$147,970,412
- The following information summarizes the advantages and disadvantages of each option:
- Option 1:
    - Advantages:
      - Least expensive of the three options.
      - Maintains the tradition of Auburn High School located at this site.
      - Allows dual use of Auburn Memorial Stadium by Auburn High School and for district-wide activities.
      - This location better accommodates enrollment growth in the south end of the school district compared to Options 2 and 3.
    - Disadvantages:
      - A replacement school at this location cannot fully meet school district design standards.
      - Site size is approximately 10 acres less than school district standards.
      - The site does not have adequate size to accommodate both a baseball and softball field.
      - A replacement school at this site will be more difficult to secure and supervise than Options 2 and 3 because of its location in a downtown area with site access from two major streets and two side streets.
      - Location of a large high school in this area causes neighborhood traffic congestion and generates complaints from neighbors and nearby business establishments.



- Operation of the school during construction of a replacement school on the same site will be more difficult and expensive to accomplish than Options 2 and 3.
- Continued use of this site for Auburn High School eliminates the potential to use the facility as an interim school location when other schools are being replaced.
- Options 2 and 3:
  - Advantages:
    - A replacement school at a new site can be built to meet the school district's design standards.
    - The new 35-acre site meets school district's site-size standards and will fully accommodate parking, athletic, and outdoor P.E. activities.
    - A replacement school at a new site will have better security and supervision compared to Option 1.
    - A replacement school at a new site will relieve the traffic congestion and conflicts with neighbors and local businesses that occur with Option 1.
    - A replacement school at a new site in north Auburn will accommodate future enrollment growth that will occur in this area.
    - Construction of a replacement school at a new site will allow students to continue to attend classes at the existing Auburn High School facility during construction and eliminate the need and costs for interim accommodations.
    - Option 2 allows the existing Auburn High School facilities to be used for interim schools.
    - Option 2 allows the existing Auburn High School site to be available for a future middle school site.
    - Option 3 allows the existing Auburn High School site to be enhanced with additional parking for district-wide use.
  - Disadvantages:
    - More expensive than Option 1.
    - No longer maintains the tradition of Auburn High School located at its current location.
    - Eliminates operating cost efficiencies achieved by dual use of the Auto Shop, Main Gym, PAC, and Auburn Memorial Stadium by Auburn High School and for district-wide activities.
    - Location of a replacement school in north Auburn makes it more difficult to accommodate enrollment growth in the south end of the school district.
    - Option 3 does not accommodate construction of a future middle school at the existing Auburn High School site.

**Table 1:**

Name of School	Original Bldg. Age (Years)	Economic Life Span (Years)	Economic Life Span (Date)	Program Area Rating Score	Facility Component Rating Score	Building Replacement Cost %
Chinook Elementary	45	40	2003	31.79	43.00	83%
Dick Scobee Elementary	54	45	1999	38.94	42.61	89%
Lea Hill Elementary	43	40	2005	35.25	45.70	78%
Pioneer Elementary	49	40	1999	34.82	44.10	80%
Terminal Park Elementary	63	44	1985	34.19	42.00	104%
Olympic Middle School	51	45	2002	41.36	42.83	105%
Auburn High School	58	58	2008	48.57	39.91	78%

Additional Facilities:

- Build a facility to accommodate the special education transition program for 18 to 21 year old students in the vicinity of the existing Auburn High School campus at an estimated cost of \$1,766,150.
- Build a satellite bus center at an existing school site in the Lea Hill area at an estimated cost of \$1,629,971.
- Provide new portable classrooms as needed to accommodate enrollment growth during the next ten years. Relocate existing portables to accommodate growth if unused and cost effective to relocate.
- In two years, re-evaluate the need for additional schools based upon 2010 enrollment data. Current enrollment projections do not show the need for new schools to accommodate growth for at least five years and possibly as long as ten years. When re-evaluating the need for additional schools, take into account an increase in student capacity at the elementary school level if replacement schools are built at a larger capacity than the elementary schools they are replacing.

**PROPERTY ACQUISITION RECOMMENDATIONS:**

Future Elementary School Site: Acquire 10 to 12 acres of property within five years for a future elementary school at the south end of the school district. Budget \$5,000,000 for this acquisition.

Future Middle School Site: Acquire 20 to 25 acres of property within five years for a future middle school at the south end of the school district. Budget \$10,000,000 for this acquisition.

#### SCHEDULE RECOMMENDATIONS:

Facility Improvements: Begin planning and design for facility improvement projects upon approval of funding. Begin initial construction approximately one year after the start of planning and design. Construct improvements over a six year period. Consider the following factors when scheduling the construction of facility improvements:

- immediacy of need,
- presence of health and safety deficiencies,
- opportunities for reducing operating costs, and
- achieving efficiency in the cost of construction.

Replacement Facilities: Begin planning and design for facility improvements upon approval of funding. Complete replacement of schools within the next ten years. Consider the following factors when scheduling the replacement of schools:

- Financing: Consider the cost and sequence of individual replacement projects and their impacts on financing and tax rates.
- Construction cost: Consider constructing the highest cost projects first to reduce overall project costs by reducing annual escalation costs.
- Number of students affected: Consider replacing the largest schools first to provide early benefit to greatest number of students.
- Interim housing: Consider the location and the availability of space for interim housing of students when a school is being replaced.
- School district operations: Consider the impact that construction projects and interim housing of students will have on school district services, operations and general fund.
- Additional enrollment capacity at elementary schools: Elementary schools being replaced will provide additional enrollment capacity. Consider enrollment capacity increases at the elementary schools and complete replacement projects in a sequence that best meets enrollment needs.

#### Additional Facilities:

- Special Education Transition Facility: Begin planning and design for a special education transition facility upon approval of funding. Construct new facility within 12 months of obtaining building permits.
- Satellite Bus Center: Begin planning and design for a satellite bus center upon approval of funding. Construct new satellite bus center within 12 months of obtaining building permits.

FUNDING RECOMMENDATIONS:

Bond Issue and Capital Levy: Obtain financing utilizing bond issues and capital levies to fund facility improvements and new facilities.

School Impact Fees: Utilize school impact fees to pay for the acquisition, installation, and relocation of portable classrooms, and the acquisition of property for future elementary and middle schools.

State Matching Funds: Utilize matching funds from the State of Washington to pay for a portion of the replacement of existing schools. The exact level of eligibility will be determined by OSPI after computing the school district's October 1, 2008 enrollment data and classroom counts. State matching funds will increase each year because of annual increases in the Area Cost Allowance funded by the State. The school district's estimated eligibility for matching funds for the replacement of schools in lieu of modernization is:

• Chinook Elementary School:	\$4,553,312
• Dick Scobee Elementary School:	\$5,012,328
• Lea Hill Elementary School:	\$4,123,758
• Pioneer Elementary School:	\$3,731,756
• Terminal Park Elementary School:	\$3,665,141
• Olympic Middle School:	\$9,686,187
• Auburn High School:	<u>\$24,373,117</u>
TOTAL:	\$55,145,599

**Cost Summary of Steering Committee Recommendations :**

Costs by Rank (See Attachment B for details):

• Rank A:	\$363,967,327
• Rank B:	\$35,658,475
• Rank C:	<u>\$439,898,080</u>
TOTAL:	\$839,523,882

Costs by Category (See Attachment C for details):

• Facility Improvements:	\$46,421,483
• Replacement Facilities:	\$314,159,723
• New Facilities:	<u>\$3,386,121</u>
TOTAL:	\$363,967,327

Annual Escalation Costs: The costs shown above are based upon 2008 construction costs. All costs will need to be increased to account for annual cost escalation based upon the actual year of construction. The amount of increase will be dependent on the year of construction.

**Steering Committee Status:** This report summarizes Steering Committee process, findings and recommendations. Submittal of the report to the Superintendent completes the Steering Committee's work. The Steering Committee will be pleased to reconvene to respond to questions and provide further analysis and recommendations if so desired.

**Attachments:**

Attachment A: Assessment Summaries for Elementary Schools, Secondary Schools and Support Facilities, 10/21/08, 3 pages.

Attachment B: Steering Committee Recommendation by Rank, 10/21/08, 1 page.

Attachment C: Cost Summary of Steering Committee Recommendations, 10/21/08, 1 page.

<b>ELEMENTARY SCHOOLS ASSESSMENT SUMMARY</b>	<b>Alpac Elementary</b>	<b>Arthur Jacobsen Elementary</b>	<b>Chinook Elementary</b>	<b>Dick Scobee Elementary</b>	<b>Evergreen Heights Elementary</b>	<b>Gildo Rey Elementary</b>	<b>Hazelwood Elementary</b>	<b>Ilalko Elementary</b>	<b>Lakeland Hills Elementary</b>	<b>Lake View Elementary</b>	<b>Lea Hill Elementary</b>	<b>Pioneer Elementary</b>	<b>Terminal Park Elementary</b>	<b>Washington Elementary</b>
<b>FACILITY DATA</b>														
Site Size (Acres)	10.68	10.02	10.99	8.90	10.10	10.05	13.08	14.22	12.00	16.48	20.24	8.41	6.09	5.33
Building Size (OSPI Square Feet)	45,930	55,281	41,578	52,380	41,653	51,015	53,636	53,033	53,452	52,864	40,536	39,576	36,840	45,001
Date of Original Construction	1972	2007	1963	1954	1970	1969	1990	1992	2006	1980	1965	1959	1945	1972
<b>BUILDING LIFE SPAN</b>														
Economic Life Span of Building (Years)	47	73	40	45	45	49	72	72	73	61	40	40	44	65
Year of Replacement (Based on Economic Life Span)	2019	2080	2003	1999	2015	2018	2062	2064	2079	2041	2005	1999	1985	2037
<b>FACILITY RATING SCORES</b>														
Program Area Rating Score (100 scale)	50.94	87.15	31.79	38.94	41.80	54.82	74.03	76.45	86.40	53.15	35.25	34.82	34.19	55.40
Facility Component Rating Score (100 scale)	46.90	93.80	43.00	42.61	44.10	44.50	57.20	62.00	89.60	48.10	45.70	44.10	42.00	58.60
<b>FACILITY IMPROVEMENT DATA</b>														
Total Number of Improvement Items	124	41	135	134	142	135	101	81	31	120	138	124	141	77
Number of Items with Cost Estimates	106	19	122	122	125	119	87	65	22	106	125	116	133	67
<b>FACILITY IMPROVEMENT COSTS</b>														
Total Cost of Improvement Items	\$16,482,294	\$526,088	\$22,099,636	\$24,224,011	\$23,401,380	\$17,810,142	\$10,350,377	\$7,401,889	\$987,218	\$18,307,036	\$20,896,215	\$22,093,556	\$27,636,810	\$7,653,276
Site Improvements Cost	\$1,214,577	\$59,539	\$1,716,505	\$2,193,410	\$3,342,955	\$4,454,196	\$1,090,497	\$796,941	\$66,395	\$4,833,817	\$1,720,437	\$2,391,677	\$2,237,261	\$2,519,793
Structural Improvements Cost	\$0	\$0	\$1,551,381	\$2,126,017	\$185,169	\$88,247	\$0	\$0	\$0	\$0	\$2,038,445	\$2,242,485	\$455,138	\$0
Exterior Improvements Cost	\$2,701,438	\$0	\$2,972,348	\$4,022,105	\$3,106,162	\$3,765,962	\$2,957,759	\$3,226,474	\$0	\$3,269,972	\$2,579,835	\$2,590,756	\$2,184,282	\$121,225
Interior Improvements Cost	\$946,519	\$141,289	\$2,046,290	\$2,165,140	\$1,689,948	\$1,261,330	\$314,571	\$625,602	\$108,649	\$695,225	\$1,731,766	\$2,110,737	\$600,510	\$216,981
Equipment Improvements Cost	\$134,689	\$11,410	\$287,357	\$216,382	\$315,348	\$190,535	\$196,151	\$95,935	\$11,410	\$123,841	\$217,972	\$39,341	\$210,023	\$47,690
Mechanical Improvement Cost	\$1,101,743	\$68,655	\$1,221,117	\$1,274,573	\$2,769,667	\$1,437,093	\$3,010,168	\$362,292	\$276,927	\$1,719,399	\$996,751	\$861,694	\$1,480,350	\$453,059
Electrical Improvement Costs	\$1,696,399	\$245,196	\$1,696,143	\$2,353,210	\$1,583,832	\$1,866,454	\$1,855,496	\$1,473,375	\$376,893	\$2,947,803	\$1,959,469	\$1,785,032	\$1,828,993	\$1,444,847
Modernization Improvements Cost	\$8,686,929	\$0	\$10,608,496	\$9,873,175	\$10,408,299	\$4,746,325	\$925,735	\$821,270	\$146,945	\$4,716,978	\$9,651,540	\$10,071,833	\$18,640,254	\$2,849,681
<b>FACILITY REPLACEMENT COSTS</b>														
Replacement Cost - Building	\$24,028,991	\$24,028,991	\$24,630,771	\$24,654,865	\$24,028,991	\$24,028,991	\$24,028,991	\$24,028,991	\$24,028,991	\$24,028,991	\$24,528,657	\$24,505,504	\$24,442,486	\$24,028,991
Replacement Cost - Building and Site	\$32,264,141	\$32,264,141	\$32,179,660	\$30,762,604	\$32,264,141	\$32,264,141	\$32,264,141	\$32,264,141	\$32,264,141	\$32,264,141	\$32,763,810	\$30,276,975	\$28,621,827	\$32,264,141
Improvement Costs Percent of Replacement Cost - Building Only	64%	2%	83%	89%	83%	56%	39%	27%	4%	56%	78%	80%	104%	21%
Improvement Costs Percent of Replacement Cost - Building and Site	51%	2%	69%	79%	73%	55%	32%	23%	3%	57%	64%	73%	97%	24%

<b>SECONDARY SCHOOLS ASSESSMENT SUMMARY</b>	<b>Cascade Middle School</b>	<b>Mt. Baker Middle School</b>	<b>Olympic Middle School</b>	<b>Rainier Middle School</b>	<b>Auburn High School</b>	<b>Auburn Mountainview High School</b>	<b>Auburn Riverside High School</b>	<b>West Auburn High School</b>
<b>FACILITY DATA</b>								
Site Size (Acres)	16.94	28.98	17.40	25.54	19.34	39.42	35.32	5.26
Building Size (OSPI Square Feet)	91,298	90,358	99,473	90,947	279,293	187,370	187,038	30,290
Date of Original Construction	1967	1994	1957	1991	1950	2005	1995	1990
<b>BUILDING LIFE SPAN</b>								
Economic Life Span of Building (Years)	46	70	45	70	58	81	80	73
Year of Replacement (Based on Economic Life Span)	2013	2064	2002	2061	2008	2086	2075	2063
<b>FACILITY RATING SCORES</b>								
Program Area Rating Score (100 scale)	55.06	65.91	41.36	64.32	48.57	85.45	69.65	72.83
Facility Component Rating Score (100 scale)	47.69	68.98	42.83	63.26	39.91	89.65	61.90	57.31
<b>FACILITY IMPROVEMENT DATA</b>								
Total Number of Improvement Items	180	104	174	120	379	95	199	81
Number of Items with Cost Estimates	154	87	156	95	333	65	144	64
<b>FACILITY IMPROVEMENT COSTS</b>								
Total Cost of Improvement Items	\$31,738,300	\$14,536,473	\$54,563,734	\$16,036,367	\$84,986,332	\$4,973,847	\$22,990,718	\$3,578,395
Site Improvements Cost	\$10,498,461	\$3,723,847	\$6,904,790	\$4,096,364	\$9,081,186	\$1,049,844	\$6,608,953	\$487,533
Structural Improvements Cost	\$93,415	\$0	\$2,926,071	\$0	\$4,244,344	\$0	\$0	\$0
Exterior Improvements Cost	\$1,389,466	\$4,597,342	\$4,803,705	\$4,222,202	\$6,715,462	\$0	\$315,372	\$308,496
Interior Improvements Cost	\$1,077,501	\$1,865,058	\$2,462,812	\$1,305,916	\$6,309,972	\$308,720	\$2,482,485	\$651,738
Equipment Improvements Cost	\$263,087	\$367,313	\$908,502	\$241,198	\$1,487,477	\$94,703	\$1,033,819	\$16,457
Mechanical Improvement Cost	\$2,563,413	\$859,518	\$5,272,016	\$2,164,612	\$13,927,131	\$1,033,891	\$1,760,002	\$513,386
Electrical Improvement Cost	\$2,472,439	\$2,482,979	\$3,280,840	\$3,481,921	\$9,740,847	\$1,932,718	\$4,360,247	\$1,185,937
Modernization Improvements Cost	\$13,380,518	\$640,416	\$28,004,998	\$524,154	\$33,479,913	\$553,971	\$6,429,840	\$414,848
<b>FACILITY REPLACEMENT COSTS</b>								
Replacement Cost - Building	\$42,822,780	\$42,822,780	\$45,221,790	\$42,822,780	\$97,748,093	\$97,748,093	\$97,748,093	\$14,598,336
Replacement Cost - Building and Site	\$59,807,776	\$59,807,776	\$50,107,424	\$59,807,776	\$126,863,270	\$126,863,270	\$126,863,270	\$18,208,077
Improvement Costs Percent of Replacement Cost - Building Only	50%	25%	105%	28%	78%	4%	17%	21%
Improvement Costs Percent of Replacement Cost - Building and Site	53%	24%	109%	27%	67%	4%	18%	20%

<b>SUPPORT FACILITIES ASSESSMENT SUMMARY</b>	<b>Administrative Annex</b>	<b>Administration Building</b>	<b>Auburn Memorial Stadium</b>	<b>Auburn Pool</b>	<b>Support Services Center</b>	<b>Transportation Center</b>
<b>FACILITY DATA</b>						
Site Size (Acres)	0.34	3.51	6.60	0.74	5.50	5.90
Building Size (OSPI Square Feet)	6,557	24,046	12,392	14,390	44,657	19,505
Date of Original Construction	1989 (Rebuilt)	1968	1982 (Rebuilt)	1971	1996	1997
<b>ECONOMIC LIFE SPAN</b>						
Economic Life Span of Building (Years)	52	39	55	65	72	66
Year of Replacement (Based on Economic Life Span)	2041	2007	2037	2036	2068	2063
<b>FACILITY RATING SCORES</b>						
Facility Component Rating Score (100 scale)	49.63	55.15	53.02	40.83	73.34	74.85
<b>FACILITY IMPROVEMENT DATA</b>						
Total Number of Improvement Items	63	89	65	71	46	34
Number of Items with Cost Estimates	49	73	55	67	43	31
<b>FACILITY IMPROVEMENT COSTS</b>						
Total Cost of Improvement Items	\$1,629,301	\$4,635,047	\$4,770,304	\$4,749,640	\$4,199,098	\$894,888
Site Improvements Cost	\$589,842	\$564,403	\$2,163,208	\$143,271	\$78,934	\$102,952
Structural Improvements Cost	\$47,104	\$205,741	\$37,232	\$632,873	\$0	\$0
Exterior Improvements Cost	\$60,629	\$237,901	\$352,706	\$154,709	\$2,847,531	\$84,310
Interior Improvements Cost	\$137,316	\$1,008,792	\$252,336	\$496,449	\$106,750	\$115,224
Equipment Improvements Cost	\$11,410	\$130,552	\$127,913	\$93,845	\$72,600	\$11,410
Mechanical Improvement Cost	\$226,722	\$248,362	\$345,576	\$2,466,583	\$487,382	\$255,842
Electrical Improvement Cost	\$241,143	\$1,047,883	\$910,872	\$636,900	\$537,477	\$307,115
Modernization Improvements Cost	\$315,136	\$1,191,413	\$580,463	\$125,011	\$68,425	\$18,035
<b>FACILITY REPLACEMENT COSTS</b>						
Replacement Cost - Building	\$2,761,688	\$9,920,625	\$15,439,531	\$9,849,872	\$21,245,352	\$9,706,125
Replacement Cost - Building and Site	\$3,422,788	\$12,663,888	\$20,614,303	\$10,127,447	\$26,125,735	\$15,489,925
Improvement Costs Percent of Replacement Cost - Building Only	38%	41%	17%	47%	19%	8%
Improvement Costs Percent of Replacement Cost - Building and Site	48%	37%	23%	47%	16%	6%



## FACILITIES MASTER PLAN - STEERING COMMITTEE RECOMMENDATIONS BY RANK

Facility Name	New or Replacement Facility	Facility Improvements		
	Rank A: Essential	Rank A: Essential	Rank B: Beneficial	Rank C: Not Recommended
<b>ELEMENTARY SCHOOLS</b>				
Alpac Elementary School	\$0	\$3,409,425	\$7,303,356	\$5,940,772
Arthur Jacobsen Elementary School	\$0	\$0	\$0	\$526,088
Chinook Elementary School	\$32,179,660	\$38,060	\$182,039	\$22,265,225
Dick Scobee Elementary School	\$30,762,604	\$6,854	\$152,206	\$24,467,866
Evergreen Heights Elementary School	\$0	\$6,297,500	\$750,777	\$19,754,320
Gildo Rey Elementary School	\$0	\$3,527,226	\$3,287,532	\$13,004,097
Hazelwood Elementary School	\$0	\$3,652,141	\$640,207	\$7,697,296
Ilalko Elementary School	\$0	\$2,547,122	\$75,766	\$6,504,395
Lakeland Hills Elementary School	\$0	\$0	\$0	\$987,218
Lake View Elementary School	\$0	\$3,879,103	\$55,572	\$15,813,025
Lea Hill Elementary School	\$32,763,810	\$9,139	\$45,035	\$21,345,041
Pioneer Elementary School	\$30,276,975	\$16,261	\$35,605	\$22,534,259
Terminal Park Elementary School	\$28,621,827	\$8,322	\$249,370	\$27,920,634
Washington Elementary School	\$0	\$639,953	\$234,493	\$6,825,888
<b>ELEMENTARY SCHOOLS SUBTOTAL</b>	<b>\$154,604,876</b>	<b>\$24,031,105</b>	<b>\$13,011,956</b>	<b>\$195,586,124</b>
<b>MIDDLE SCHOOLS</b>				
Cascade Middle School	\$0	\$4,576,904	\$2,725,472	\$51,989,063
Mt. Baker Middle School	\$0	\$1,191,077	\$679,712	\$14,794,167
Olympic Middle School	\$50,107,424	\$0	\$546,250	\$54,832,406
Rainier Middle School	\$0	\$4,837,731	\$1,093,384	\$12,556,565
<b>MIDDLE SCHOOLS SUBTOTAL</b>	<b>\$50,107,424</b>	<b>\$10,605,711</b>	<b>\$5,044,818</b>	<b>\$134,172,201</b>
<b>HIGH SCHOOLS</b>				
Auburn High School (Assumes Option A Replacement)	\$111,203,574	\$922,459	\$2,643,977	\$81,733,320
Auburn Mountainview High School	\$0	\$0	\$0	\$4,973,846
Auburn Riverside High School	\$0	\$5,275,172	\$10,618,939	\$8,383,293
West Auburn High School	\$0	\$526,186	\$185,230	\$2,866,978
<b>HIGH SCHOOLS SUBTOTALS</b>	<b>\$111,203,574</b>	<b>\$6,723,817</b>	<b>\$13,448,145</b>	<b>\$97,957,436</b>
<b>SUPPORT FACILITIES</b>				
Administrative Annex	\$0	\$145,219	\$483,623	\$1,234,677
Administration Building	\$0	\$717,181	\$1,483,038	\$2,610,264
Auburn Memorial Stadium	\$0	\$1,734,008	\$1,337,810	\$1,698,487
Auburn Pool	\$0	\$1,650,713	\$459,510	\$2,679,785
Support Services Center	\$0	\$541,850	\$389,575	\$3,336,099
Transportation Center	\$1,629,971	\$271,879	\$0	\$623,008
<b>SUPPORT FACILITIES SUBTOTALS</b>	<b>\$1,629,971</b>	<b>\$5,060,850</b>	<b>\$4,153,556</b>	<b>\$12,182,319</b>
<b>TOTAL BY CATEGORY (2008 Costs)</b>	<b>\$317,545,844</b>	<b>\$46,421,483</b>	<b>\$35,658,475</b>	<b>\$439,898,080</b>
<b>TOTAL (Rank A Combined - 2008 Costs)</b>	<b>\$363,967,327</b>		<b>\$35,658,475</b>	<b>\$439,898,080</b>
<b>GRAND TOTAL (2008 Costs)</b>			<b>\$839,523,882</b>	

## FACILITIES MASTER PLAN - COST SUMMARY OF STEERING COMMITTEE RECOMMENDATIONS

Facility Name	New Facility	Replacement Facility	Facility Improvements
<b>ELEMENTARY SCHOOLS</b>			
Alpac Elementary School	\$0	\$0	\$3,409,425
Arthur Jacobsen Elementary School	\$0	\$0	\$0
Chinook Elementary School	\$0	\$32,179,660	\$38,060
Dick Scobee Elementary School	\$0	\$30,762,604	\$6,854
Evergreen Heights Elementary School	\$0	\$0	\$6,297,500
Gildo Rey Elementary School	\$0	\$0	\$3,527,226
Hazelwood Elementary School	\$0	\$0	\$3,652,141
Ilalko Elementary School	\$0	\$0	\$2,547,122
Lakeland Hills Elementary School	\$0	\$0	\$0
Lake View Elementary School	\$0	\$0	\$3,879,103
Lea Hill Elementary School	\$0	\$32,763,810	\$9,139
Pioneer Elementary School	\$0	\$30,276,975	\$16,261
Terminal Park Elementary School	\$0	\$28,621,827	\$8,322
Washington Elementary School	\$0	\$0	\$639,953
<b>ELEMENTARY SCHOOLS SUBTOTAL</b>	<b>\$0</b>	<b>\$154,604,876</b>	<b>\$24,031,105</b>
<b>MIDDLE SCHOOLS</b>			
Cascade Middle School	\$0	\$0	\$4,576,904
Mt. Baker Middle School	\$0	\$0	\$1,191,077
Olympic Middle School	\$0	\$50,107,424	\$0
Rainier Middle School	\$0	\$0	\$4,837,731
<b>MIDDLE SCHOOLS SUBTOTAL</b>	<b>\$0</b>	<b>\$50,107,424</b>	<b>\$10,605,711</b>
<b>HIGH SCHOOLS</b>			
Auburn High School (Assumes Option A Replacement)	\$1,756,150	\$109,447,424	\$922,459
Auburn Mountainview High School	\$0	\$0	\$0
Auburn Riverside High School	\$0	\$0	\$5,275,172
West Auburn High School	\$0	\$0	\$526,186
<b>HIGH SCHOOLS SUBTOTAL</b>	<b>\$1,756,150</b>	<b>\$109,447,424</b>	<b>\$6,723,817</b>
<b>SUPPORT FACILITIES</b>			
Administrative Annex	\$0	\$0	\$145,219
Administration Building	\$0	\$0	\$717,181
Auburn Memorial Stadium	\$0	\$0	\$1,734,008
Auburn Pool	\$0	\$0	\$1,650,713
Support Services Center	\$0	\$0	\$541,850
Transportation Center	\$1,629,971	\$0	\$271,879
<b>SUPPORT FACILITIES SUBTOTAL</b>	<b>\$1,629,971</b>	<b>\$0</b>	<b>\$5,060,850</b>
<b>TOTALS BY CATEGORY (2008 Costs)</b>	<b>\$3,386,121</b>	<b>\$314,159,723</b>	<b>\$46,421,483</b>
<b>GRAND TOTAL (2008 Costs)</b>	<b>\$363,967,327</b>		

## **Appendix B – Program Area Standards**

### Schools:

Elementary School

Middle School

Comprehensive High School

West Auburn High School

# ELEMENTARY SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>CAPACITY</b>		
<b>Classrooms</b>	Classroom Count: 23 rooms.	Classroom Count: 26 rooms.
<b>Building Size</b>	OSPI Gross SF: 44,000	OSPI Gross SF: 49,500
<b>ACCESSIBILITY</b>		
<b>Site Access</b>	Pedestrian Access: Sidewalk access from street at front of school with crosswalks at internal driveways. Vehicle Access: Separate entry / exit driveways for buses and parent's vehicles.	Pedestrian Access: Sidewalk access from street at front of school that do not cross internal driveways. Vehicle Access: Separate entry / exit driveways for buses and parent's vehicles.
<b>Building Access</b>	Delivery Entry: Adjacent to Kitchen. Main Entry: At front of school. Secondary Entries: At bus loading area, staff parking lot, and playground.	Delivery Entry: Adjacent to Kitchen, corridor access, and Maintenance Storage Room. Main Entry: At front of school and prominent. Secondary Entries: At classrooms, bus loading area, staff parking lot, and playground.
<b>Disabled Access</b>	Pre-1992 Facilities: Shall provide program accessibility to people with disabilities. 1992 and Older Facilities: Shall provide accessibility in compliance with the American Disabilities Act (ADA).	All Facilities: Shall provide accessibility in compliance with the American Disabilities Act (ADA).
<b>ACOUSTICS</b>		
<b>Site Acoustics</b>	Criteria: Off site noise shall comply with WAC 246-366-030(3) and not exceed an hourly average of 55 dBA and an hourly maximum of 70dBA.	Criteria: Off site noise shall comply with WAC 246-366-030(3) and not exceed an hourly average of 55 dBA and an hourly maximum of 70dBA.
<b>Building Acoustics</b>	Criteria: A maximum unoccupied background noise level of 50 NC in classrooms and offices.	Criteria: A maximum unoccupied background noise level of 35 NC in classrooms and offices.
<b>APPEARANCE</b>		
<b>Site Appearance</b>	Criteria: Attractive site appearance from street. A finished and maintained appearance for all site areas.	Criteria: Attractive site appearance from street. A finished and maintained appearance for all site areas.
<b>Building Exterior Appearance</b>	Criteria: Attractive exterior with a prominent front entry.	Criteria: Attractive exterior with a timeless appearance and prominent front entry.
<b>Building Interior Appearance</b>	Criteria: Attractive interior.	Criteria: Attractive interior appearance with features and colors that have a classic and timeless quality.
<b>COMMUNITY USE</b>		
<b>Outdoor Facilities Community Use</b>	Criteria: Grass and hard surface play areas, play shed, and play equipment area easily accessible during non-school hours.	Criteria: Grass and hard surface play areas, play shed, and play equipment area easily accessible during non-school hours with benches in all areas.
<b>Indoor Facilities Community Use</b>	Criteria: Gym, Library and restrooms easily accessible during non-school hours.	Criteria: Gym, Library and public restrooms easily accessible during non-school hours and located in a community access zone that can be secured from the rest of the building.
<b>DAY LIGHTING</b>		
<b>Classrooms Day Lighting</b>	Criteria: Exterior windows at all classrooms.	Criteria: Exterior windows at all classrooms with no direct sun.
<b>Gymnasium Day Lighting</b>	Criteria: Exterior windows not required.	Criteria: Exterior windows with no direct sun.

# ELEMENTARY SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>Library Day Lighting</b>	Criteria: Exterior windows.	Criteria: Exterior windows with no direct sun.
<b>Offices Day Lighting</b>	Criteria: Exterior window at main office area and relite windows opening to corridors at other offices.	Criteria: Exterior windows at all offices.
<b>SPACE RELATIONSHIPS</b>		
<b>Exterior Space Relationships</b>	Criteria: Visitor parking and student pick-up / drop off area at front of school and separated from bus loading. Hard surface play areas easily accessible from classrooms. Grass play area adjacent to hard surface play area.	Criteria: Visitor parking and student pick-up / drop off area at front of school and separated from bus loading. Bus loading and hard surface play areas easily accessible from classrooms. Grass play area adjacent to hard surface play area.
<b>Interior Space Relationships</b>	Criteria: All interior spaces within a common building with corridor access to all areas. Main office at front entry. Pre-school through second grade classrooms on ground floor.	Criteria: All interior spaces within a common building with corridor access to all areas. Main office at front entry. Gym, Library and public restroom located within community access zone that can be secured from rest of school. Kitchen and adjacent serving area centrally located. Pre-school through second grade classrooms located on ground floor.
<b>SUPERVISION / SECURITY</b>		
<b>Site Security</b>	Criteria: Perimeter fence without pedestrian gates at play areas and adjacent to other properties. Vehicle gates at driveway access to delivery area and hard surface play area.	Criteria: Perimeter fence without pedestrian gates at play areas and adjacent to other properties. Vehicle gates at driveway access to delivery area, hard surface play area, and staff parking lot.
<b>Site Supervision</b>	Criteria: Front entry to building visible from main office.	Criteria: Front entry to building visible from main office. Minimal blind spots at athletic fields. Conduit for surveillance cameras at exterior light poles.
<b>Building Security</b>	Criteria: Access to building areas controlled by lockable gates and doors. Intrusion alarm system in main office, library and corridors.	Criteria: All building areas under a common roof with access controlled by lockable doors using a Primus key. Classroom exterior doors automatically lock. Intrusion alarm system in main office, library, corridors and portable classrooms.
<b>Building Supervision</b>	Criteria: Front lobby area visible from main office. Relite windows opening to an adjacent space present at all offices.	Criteria: Front lobby area visible from main office. Minimal blind spots at interior corridors and around perimeter of building. Relite windows opening to an adjacent space present at all offices. Student restrooms designed to allow doors to be open during school hours.
<b>STANDARD CLASSROOMS</b>		
<b>Pre-School</b>	Size: 840 SF. Location: On ground floor. Close to bus loading area. Special Features: ADA compliant restroom in classroom with changing table. Sink in classroom with 6 LF of sink counter.	Size: 900 SF. Location: On ground floor. Close to bus loading area. Special Features: Exterior door. ADA compliant restroom in classroom with changing table. Sink with bubbler in classroom with 12 LF of sink counter.
<b>Kindergarten</b>	Size: 900 SF. Location: On ground floor. Close to bus loading area. Special Features: Restroom in classroom. Sink in classroom with 6 LF of sink counter.	Size: 960 SF. Location: On ground floor. Close to bus loading area. Special Features: Exterior door. ADA compliant restroom in classroom. Sink with bubbler in classroom with 12 LF of sink counter.

# ELEMENTARY SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>Grades 1 - 2</b>	Size: 840 SF. Location: On ground floor. Close to Kitchen. Special Features: Restroom in classroom. Sink in classroom with 6 LF of sink counter.	Size: 900 SF. Location: On ground floor. Close to Kitchen. Special Features: Exterior door. ADA compliant restroom in classroom. Sink with bubbler in classroom with 12 LF of sink counter.
<b>Grades 3 - 5</b>	Size: 840 SF. Location: Close to Kitchen. Special Features: Sink in classroom with 6 LF of sink counter.	Size: 900 SF. Location: Close to Kitchen. Special Features: Exterior door. Sink with bubbler in classroom with 12 LF of sink counter.
<b>Special Education</b>	Size: 840 SF. Location: On ground floor. Close to bus loading area. Special Features: ADA compliant restroom in classroom with changing table. Sink in classroom with 6 LF of sink counter.	Size: 900 SF. Location: On ground floor. Close to bus loading area. Special Features: Exterior door. ADA compliant restroom in classroom with changing table. Testing room in classroom. Sink with bubbler in classroom with 12 LF of sink counter.
<b>SPECIALTY CLASSROOMS</b>		
<b>Music</b>	Size: 900 SF. Location: On ground floor. Special Features: Exterior door. Acoustical isolation.	Size: 960 SF. Location: On ground floor. Close to Gym. Special Features: Exterior door. Acoustical isolation. Built-in sound system.
<b>Stage</b>	Size: 900 SF. Location: Adjacent to Gym. Special Features: Door to corridor. Acoustical isolation. Operable wall between Stage and Gym.	Size: 960 SF. Location: Adjacent to Gym. Special Features: Exterior door and door to corridor. Stage lighting track and fixtures, built-in sound system, backdrop curtains at perimeter walls. Acoustical isolation. Operable wall between Stage and Gym.
<b>LIBRARY</b>		
<b>Audio Visual Storage</b>	Size: 120 SF. Location: Adjacent to Library. Special Features: Easy access through Library from adjacent corridor.	Size: 150 SF. Location: Adjacent to Library. Special Features: Easy access through Library from adjacent corridor. 3'-6" wide entry door.
<b>Study / Circulation</b>	Size: 2,200 SF. Location: Central location. Special Features: Classroom instruction area with tables, computer lab with 15 computer stations, open floor area for story telling. Circulation counter and 3 computer search stations. Open shelving for 7,200 volumes.	Size: 2,800 SF. Location: Central location and within community access zone. Special Features: Classroom instruction area with tables, computer lab area with 30 computer stations, open floor area for story telling. Circulation counter and 4 computer search stations. Open shelving for 8,000 volumes. Two entry doors from interior corridors. Exterior door and windows.
<b>LEARNING RESOURCE</b>		
<b>Library Workroom</b>	Size: 150 SF. Location: Adjacent to Library. Special Features: Relite windows to Library. Cable TV system head-end, recording and transmitting equipment.	Size: 200 SF. Location: Adjacent to Library. Special Features: Relite windows to Library. Cable TV system head-end, recording and transmitting equipment. Power and telecommunication outlets for two workstations.
<b>PHYSICAL EDUCATION TEACHING STATION</b>		

# ELEMENTARY SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>Gym</b>	Size: 3,600 SF Location: Adjacent to Stage and PE Storage. Within community access zone. Special Features: Rubber floor, retractable or side-swing basketball backboards, sound system, and scoreboard.	Size: 4,000 SF Location: Adjacent to Stage. PE Office and Storage. Within community access zone. Special Features: Wood floor, retractable or side-swing basketball backboards, sound system, scoreboard, divider curtain, and exterior windows.
<b>ASSEMBLY</b>		
<b>Commons</b>	None.	None.
<b>SERVICE AND SUPPORT</b>		
<b>Classroom Restroom</b>	Size: 24 SF Location: Adjacent to Kindergarten and Grades 1 and 2 classrooms. Special Features: Exhaust fan.	Size: 50 SF Location: Adjacent to Kindergarten and Grades 1 and 2 classrooms. Special Features: ADA compliant. Exhaust fan with manual bypass timer.
<b>Kiln</b>	Size: 70 SF Location: Adjacent to corridor. Features: Exhaust fan.	Size: 80 SF Location: Adjacent to corridor. Features: Kiln ventilation system.
<b>Special Education - Restroom</b>	Size: 50 SF Location: Adjacent to Special Education classroom. Special Features: ADA compliant with exhaust fan.	Size: 70 SF Location: Adjacent to Special Education classroom. Special Features: ADA compliant with oversized exhaust fan with manual bypass timer.
<b>Special Education - Testing</b>	Size: 40 SF Location: Adjacent to special education classroom. Special Features: Relite window to special education classroom and durable wainscot.	Size: 60 SF Location: Adjacent to special education classroom. Special Features: Relite window to special education classroom and durable wainscot.
<b>Storage - General</b>	Size: 150 SF Location: adjacent to corridor and centrally located. Special Features: None.	Size: 200 SF Location: Adjacent to corridor and centrally located. Special Features: Relite window to corridor with electrical and data outlets for conversion to office.
<b>Storage - Instructional Material</b>	Size: 150 SF Location: Adjacent to corridor and centrally located. Special Features: None.	Size: 200 SF Location: Adjacent to corridor and centrally located. Special Features: Floor to ceiling shelving.
<b>Storage - P. E. Equipment Storage</b>	Size: 300 SF Location: Adjacent to Gym. Special Features: Double door without mullion.	Size: 360 SF Location: Adjacent to Gym. Special Features: Double door without mullion.
<b>STUDENT SERVICES</b>		
<b>Counselor</b>	Size: 200 SF Location: Adjacent to corridor. Special Features: None.	Size: 240 SF Location: Adjacent to corridor. Close to main office. Special Features: Relite window to corridor.
<b>Health Room</b>	Size: 150 SF Location: Adjacent to main office. Special Features: Visible connection to main office. Exhaust fan.	Size: 200 SF Location: Adjacent to main office secretary's area and Nurse's office. Special Features: Visible connection to main office and Nurse's room. Oversized exhaust fan with manual bypass timer.
<b>Health Restroom</b>	Size: 50 SF Location: Adjacent to Health room. Special Features: ADA compliant with exhaust fan.	Size: 70 SF Location: Adjacent to Health room. Special Features: ADA compliant with oversized exhaust fan with manual bypass timer.
<b>OFFICE SPACE</b>		

# ELEMENTARY SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>Conference Room - Large</b>	Size: 240 SF Location: Adjacent to corridor. Special Features: None.	Size: 300 SF Location: Adjacent to corridor in main office area. Special Features: Relite window to corridor.
<b>Conference Room - Small</b>	Size: 200 SF Location: Adjacent to corridor. Special Features: None.	Size: 240 SF Location: Adjacent to corridor in main office area. Special Features: Relite window to corridor.
<b>Itinerant Office</b>	Size: 100 SF Location: One office, adjacent to corridor. Special Features: None.	Size: 120 SF Location: Two offices, each adjacent to corridor. Special Features: Relite window to corridor.
<b>Mail Room</b>	Size: 120 SF Location: In main office area. Special Features: 50 tote tray mailboxes.	Size: 160 SF Location: Adjacent to main corridor and office workroom. Special Features: 60 pass through tote tray mailboxes.
<b>Main Office - Reception</b>	Size: 180 SF Location: At front entry and adjacent to main office secretary area. Special Features: Visual link to front entry foyer.	Size: 220 SF Location: At front entry and adjacent to main office secretary area. Special Features: Visual link to front entry foyer.
<b>Main Office - Secretary</b>	Size: 400 SF Location: At front entry and adjacent to reception area, health room, mail room and workroom. Close to principal's office. Special Features: Visual link to health room.	Size: 500 SF Location: At front entry and adjacent to reception area, health room, mail room, principal's office and workroom. Special Features: Visual link to health room, principal's office and front entrance to building.
<b>Maintenance Office</b>	Size: 120 SF. Location: Adjacent to main corridor. Close to exterior delivery area. Special Features: Location for EMS computer.	Size: 160 SF. Location: Adjacent to main corridor. Close to exterior delivery area. Special Features: Location for EMS computer, HVAC bypass timers, fire alarm and security panels.
<b>Nurse</b>	Size: 120 SF Location: Adjacent to Health room. Special Features: Relite window to Health room.	Size: 180 SF Location: Adjacent to Health room. Special Features: Power and data outlets for Nurse and Health Technician work stations. Relite window to Health room.
<b>OT / PT</b>	Size: 240 SF Location: Adjacent to corridor. Special Features: Ceiling hook.	Size: 300 SF Location: Adjacent to corridor. Special Features: Ceiling hook, wall pad near ceiling hook area, and relite window to corridor.
<b>P. E. Office</b>	Size: 80 SF Location: Adjacent to Gym. Special Features: None.	Size: 120 SF Location: Adjacent to Gym. Special Features: Relite window to Gym.
<b>Principal</b>	Size: 200 SF Location: In main office area. Special Features: Relite window to main office area.	Size: 250 SF Location: Adjacent to main office secretary area. Special Features: Relite window to main office secretary area. Power and data outlets at two locations for optional test location. Visual link to front entry.
<b>Workroom - Main Office</b>	Size: 140 SF Location: Adjacent to main office secretary area. Special Features: Visual link to main office area.	Size: 180 SF Location: Adjacent to main office secretary area. Special Features: Visual link to main office reception and secretary areas.



# ELEMENTARY SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>Workroom - Staff</b>	Size: 400 SF Location: Centrally located. Special Features: Power for 2 high capacity copy machines.	Size: 500 SF Location: Centrally located. Special Features: Power and data outlets for 2 high capacity, networked copy machines and staff work station. High capacity ventilation system to accommodate heat load from laminator and copy machines.
<b>CAFETERIA / FOOD SERVICE</b>		
<b>Kitchen</b>	Size: 800 SF Location: Centrally located. Adjacent to serving area, cooler, freezer, storage room and exterior delivery area. Special Features: Full service Kitchen with scullery, work desk area and roll-up counter door to serving area. Power, telecommunication outlets and Meal Time outlets at work desk area.	Size: 1,000 SF Location: Centrally located. Adjacent to serving area, walk-in cooler and freezer, storage room and exterior delivery area. Special Features: Full service Kitchen with scullery, work desk area and roll-up counter door to serving area. Power, telecommunication outlets and Meal Time outlets at work desk area.
<b>Kitchen Storage</b>	Size: 140 SF Location: Adjacent to Kitchen and close to exterior delivery area.	Size: 180 SF Location: Adjacent to Kitchen and close to exterior delivery area. Special Features: 3'-6" wide door to Kitchen.
<b>Serving Area</b>	Size: 400 SF Location: Within a corridor and adjacent to Kitchen. Special Features: Accessible by interior corridors from all classrooms. Power and Meal Time outlets at student check-out stations.	Size: 480 SF Location: Within a corridor and adjacent to Kitchen. Special Features: Accessible by interior corridors from all classrooms. Power and Meal Time outlets at student check-out stations.
<b>Staff Lounge</b>	Size: 450 SF Location: Adjacent to Telephone room and close to Kitchen. Special Features: Sink counter and power for microwave oven and refrigerator.	Size: 500 SF Location: Adjacent to Telephone room and close to Kitchen. Special Features: Sink counter and power for 2 microwave ovens, 2 refrigerators, and vending machine. Power and data outlets for work station.
<b>Walk-in Cooler</b>	Size: 80 SF. Location: Adjacent to Kitchen and walk-in Freezer. Close to exterior delivery area. Special Features: Floor surface that matches Kitchen.	Size: 100 SF. Location: Adjacent to Kitchen and walk-in Freezer. Close to exterior delivery area. Special Features: Exterior condenser unit, quarry tile floor and window in door.
<b>Walk-in Freezer</b>	Size: 80 SF. Location: Adjacent to Kitchen and walk-in Cooler. Close to exterior delivery area. Special Features: Floor surface that matches Kitchen.	Size: 100 SF. Location: Adjacent to Kitchen and walk-in Cooler. Close to exterior delivery area. Special Features: Exterior condenser unit, quarry tile floor and window in door.
<b>GENERAL SUPPORT SPACE</b>		
<b>Storage - Community</b>	Size: 80 SF. Location: Adjacent to main corridor. Special Features: Lockable storage cabinets.	Size: 120 SF. Location: Within community access zone, adjacent to main corridor and near front entry. Special Features: Lockable storage cabinets.
<b>Storage - Emergency Supply</b>	Size: 160 SF. Location: Adjacent to building exterior. Special Features: Doors to building exterior and main corridor.	Size: 200 SF. Location: Adjacent to building exterior. Special Features: Doors to building exterior and main corridor.
<b>Storage - Furniture</b>	Size: 200 SF. Location: Adjacent to corridor. Special Features: 3'-6" wide door and protective wainscot at walls.	Size: 300 SF. Location: Adjacent to Gym. Special Features: Double doors without mullion and 7' high wainscot.

# ELEMENTARY SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>Storage - Maintenance</b>	Size: 160 SF. Location: Adjacent to main corridor. Close to exterior delivery area. Special Features: 3'-6" wide door and flammable storage cabinet.	Size: 200 SF. Location: Adjacent to main corridor. Close to exterior delivery area. Special Features: 3'-6" wide door and flammable storage cabinet.
<b>Storage - Miscellaneous</b>	Size: 80 SF. Location: Adjacent to main corridor. Special Features: None.	Size: 120 SF. Location: Adjacent to main corridor. Special Features: Relite window to corridor with electrical and data outlets for conversion to office.
<b>Telecommunication - HC Room</b>	Size: 60 SF. Location: Adjacent to main corridor or mechanical attic space. Special Features: Separate and secure room with data communications equipment and independent temperature control system.	Size: 80 SF. Location: Adjacent to main corridor or mechanical attic space. Special Features: Separate and secure room with data communications equipment, independent temperature control system, and emergency power to core infrastructure and servers.
<b>Telecommunication - MC Room</b>	Size: 120 SF. Location: Adjacent to main corridor or mechanical attic space. Special Features: Separate and secure room with data communications equipment and independent temperature control system.	Size: 160 SF. Location: Centrally located for efficiency of cable distribution. Adjacent to main corridor or mechanical attic space. Special Features: Separate and secure room with data communications equipment, telephone backboard and headend equipment, intercom console, independent temperature control system, and emergency power to core infrastructure and servers.
<b>Telephone Room</b>	Size: 40 SF. Location: Adjacent to Staff Lounge. Special Features: Relite windows in door and ventilation system.	Size: 60 SF. Location: Adjacent to Staff Lounge. Special Features: ADA compliant with relite windows in door and ventilation system.
<b>COVERED PLAY AREA</b>		
<b>Playshed</b>	Size: 2,000 SF. Location: Within asphalt play area. Special Features: Basketball hoops.	Size: 2,800 SF. Location: Within asphalt play area. Special Features: Basketball hoops and exterior lights.
<b>NON-ASSIGNABLE SPACE</b>		
<b>Corridors</b>	Size: 10' wide at front entry, 8' wide at classroom areas, 14' wide at Kitchen serving area. Location: To provide access to all rooms within building. Special Features: Location for student lockers, display cases and tackable display areas.	Size: 12' wide at front entry, 8' wide at classroom areas, 16' wide at Kitchen serving area. Location: To provide access to all rooms within building. Special Features: Location for student lockers, display cases, tackable display areas and hand wash areas adjacent to student restrooms.
<b>Custodial</b>	Size: 60 SF. Location: One at each classroom wing with one close to Kitchen. Special Features: Mop sink, floor drain, exhaust fan and protective wainscot.	Size: 70 SF. Location: One at each classroom wing with one close to Kitchen. Special Features: Mop sink, floor drain, exhaust fan and protective wainscot. No electrical panels in room.
<b>Electrical - Main Distribution</b>	Size: As needed to accommodate main switch gear.	Size: As needed to accommodate main switch gear. Location: At exterior wall and adjacent to mechanical room. Special Features: Exterior door and door to mechanical room.

# ELEMENTARY SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>Electrical - Secondary Distribution</b>	Size: As needed to accommodate electrical panels. Location: As needed for electrical distribution. Special Features: No mop sinks in room.	Size: As needed to accommodate electrical panels. Location: As needed for electrical distribution. Special Features: No mop sinks in room.
<b>Elevator</b>	Size: 80" W x 65" D interior cab. Location: At multi-story buildings and centrally located. Special Features: Button and keyed controls.	Size: 92" W x 65" D interior cab. Location: At multi-story buildings and located centrally and within community access zone. Special Features: Button and keyed controls.
<b>Elevator Equipment</b>	Size: As needed to accommodate elevator equipment. Location: Adjacent to elevator. Special Features: Acoustically isolated.	Size: As needed to accommodate elevator equipment. Location: Adjacent to elevator and accessible from corridor. Special Features: Acoustically isolated with independent temperature control system.
<b>Mechanical - Main Equipment</b>	Size: As needed to accommodate equipment. Location: At exterior wall, centrally located, adjacent to main electrical room. Special Features: Double doors with removable mullion.	Size: As needed to accommodate equipment. Location: At exterior wall, centrally located, adjacent to main electrical room. Special Features: Two 3'-6" wide doors with removable mullion, laundry tub sink and location for irrigation controller. Separation between relief air grilles and fire sprinkler riser.
<b>Mechanical - Secondary Equipment</b>	Size: As needed to accommodate equipment. Location: Adjacent to and accessible from corridor or building exterior. Special Features: Door opening large enough accommodate equipment removal and replacement.	Size: As needed to accommodate equipment. Location: Adjacent to and accessible from corridor. Special Features: Door opening large enough accommodate equipment removal and replacement.
<b>Restroom - Public - Men</b>	Size: 110 SF. Location: Near front entry and within community access zone. Special Features: ADA compliant with one water closet and one urinal.	Size: 200 SF. Location: Near front entry and within community access zone. Special Features: ADA compliant with one water closets, two urinals, and hot / cold water hose bibb.
<b>Restroom - Public - Women</b>	Size: 120 SF. Location: Near front entry and within community access zone. Special Features: ADA compliant with two water closets.	Size: 220 SF. Location: Near front entry and within community access zone. Special Features: ADA compliant with three water closets and hot / cold water hose bibb.
<b>Restroom - Staff - Men</b>	Size: 120 SF. Location: Near each classroom wing. Special Features: One water closet, one urinal and one sink.	Size: 150 SF. Location: Within each classroom wing. Special Features: ADA compliant with one water closet, one urinal and one sink.
<b>Restroom - Staff - Women</b>	Size: 140 SF. Location: Near each classroom wing. Special Features: Two water closets and one sink.	Size: 170 SF. Location: Within each classroom wing. Special Features: ADA compliant with two water closets and one sink.
<b>Restroom - Student - Boys</b>	Size: As needed to accommodate code-required number of toilet fixtures. Location: Within each classroom wing where classrooms do not have individual restrooms. Hand wash sinks within restroom or adjacent to hand wash area in corridor. Special Features: ADA compliant.	Size: As needed to accommodate code-required number of toilet fixtures. Location: Within each classroom wing where classrooms do not have individual restrooms and adjacent to hand wash area in corridor. Special Features: ADA compliant with ceramic tile floor, 7' high wainscot, exterior window, and hot / cold water hose bibb.

# ELEMENTARY SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>Restroom - Student - Girls</b>	Size: As needed to accommodate code-required number of toilet fixtures. Location: Within each classroom wing where classrooms do not have individual restrooms. Hand wash sinks within restroom or adjacent to hand wash area in corridor. Special Features: ADA compliant.	Size: As needed to accommodate code-required number of toilet fixtures. Location: Within each classroom wing where classrooms do not have individual restrooms and adjacent to hand wash area in corridor. Special Features: ADA compliant with ceramic tile floor, 7' high wainscot, exterior window, and hot / cold water hose bibb.
<b>Stairs</b>	Size: 6' wide. Location: At multi-story buildings and centrally located. Special Features: Protective wainscot.	Size: 8' wide. Location: At multi-story buildings and centrally located. Special Features: Protective wainscot.

# MIDDLE SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>CAPACITY</b>		
<b>Enrollment</b>	Enrollment Capacity: 650 students.	Enrollment Capacity: 650 - 800 students.
<b>Building Size</b>	OSPI Gross SF: 80,000 SF.	OSPI Gross SF: 86,400 SF.
<b>ACCESSIBILITY</b>		
<b>Site Access</b>	Pedestrian Access: Sidewalk access from street at front of school with crosswalks at internal driveways. Vehicle Access: Separate entry / exit driveways for buses and parent's vehicles. Separate delivery area.	Pedestrian Access: Sidewalk access from street at front of school that do not cross internal driveways. Vehicle Access: Separate entry / exit driveways for buses and parent's vehicles. Separate delivery area.
<b>Building Access</b>	Delivery Entry: Adjacent to Kitchen. Main Entry: At front of school. Secondary Entries: At bus loading area, staff parking lot, and athletic fields.	Delivery Entry: Adjacent to Kitchen, corridor access, and Maintenance Storage Room. Main Entry: At front of school and prominent. Secondary Entries: At classrooms, bus loading area, staff parking lot, and athletic fields.
<b>Disabled Access</b>	Pre-1992 Facilities: Shall provide program accessibility to people with disabilities. 1992 and Older Facilities: Shall provide accessibility in compliance with the American Disabilities Act (ADA).	All Facilities: Shall provide accessibility in compliance with the American Disabilities Act (ADA).
<b>ACOUSTICS</b>		
<b>Site Acoustics</b>	Criteria: Off site noise shall comply with WAC 246-366-030(3) and not exceed an hourly average of 55 dBA and an hourly maximum of 70dBA.	Criteria: Off site noise shall comply with WAC 246-366-030(3) and not exceed an hourly average of 55 dBA and an hourly maximum of 70dBA.
<b>Building Acoustics</b>	Criteria: A maximum unoccupied background noise level of 50 NC in classrooms and offices.	Criteria: A maximum unoccupied background noise level of 35 NC in classrooms and offices.
<b>APPEARANCE</b>		
<b>Site Appearance</b>	Criteria: Attractive site appearance from street. A finished and maintained appearance for all site areas.	Criteria: Attractive site appearance from street. A finished and maintained appearance for all site areas.
<b>Building Exterior Appearance</b>	Criteria: Attractive exterior with a prominent front entry.	Criteria: Attractive exterior with a timeless appearance and prominent front entry.
<b>Building Interior Appearance</b>	Criteria: Attractive interior.	Criteria: Attractive interior appearance with features and colors that have a classic and timeless quality.
<b>COMMUNITY USE</b>		
<b>Outdoor Facilities Community Use</b>	Criteria: Athletic fields easily accessible during non-school hours.	Criteria: Athletic fields easily accessible during non-school hours and close to parking and exterior restrooms.
<b>Indoor Facilities Community Use</b>	Criteria: Gym, Library, Cafeteria / Commons and restrooms easily accessible during non-school hours.	Criteria: Gym, Library, Cafeteria / Commons, Computer Lab and public restrooms easily accessible during non-school hours and located within a community access zone that can be secured from the rest of the building.
<b>DAY LIGHTING</b>		
<b>Classrooms Day Lighting</b>	Criteria: Exterior windows at all classrooms.	Criteria: Exterior windows at all classrooms with no direct sun.
<b>Commons Day Lighting</b>	Criteria: Exterior windows.	Criteria: Exterior windows with no direct sun.

# MIDDLE SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>Gymnasiums Day Lighting</b>	Criteria: Exterior windows not required.	Criteria: Exterior windows with no direct sun.
<b>Library Day Lighting</b>	Criteria: Exterior windows.	Criteria: Exterior windows with no direct sun.
<b>Offices Day Lighting</b>	Criteria: Exterior window at main office area and relite windows opening to corridors at other offices.	Criteria: Exterior windows at all offices.
<b>SPACE RELATIONSHIPS</b>		
<b>Exterior Space Relationships</b>	Criteria: Visitor parking and student drop off / pick up area at front of school and separated from bus loading. Exterior courtyard adjacent to Commons. Athletic fields close to locker rooms.	Criteria: Visitor parking and student drop off / pick up area at front of school and separated from bus loading. Bus loading area easily accessible from classroom areas. Exterior courtyard adjacent to Commons. Athletic fields close to locker rooms and parking lot.
<b>Interior Space Relationships</b>	Criteria: All interior spaces within a common building with corridor access to all areas.	Criteria: All interior spaces within a common building with corridor access to all areas. Main office at front entry. Commons, Computer Room, Gyms and Library located within community access zone that can be secured from rest of school. Separate classroom areas for each grade level, each with a Science classroom.
<b>SUPERVISION / SECURITY</b>		
<b>Site Security</b>	Criteria: Perimeter fence at athletic fields and adjacent to other properties. Vehicle gates at driveway access to delivery area, service drive and staff parking lot.	Criteria: Perimeter fence at athletic fields and adjacent to other properties. Building perimeters and courtyards securable. Vehicle gates at driveway access to delivery area, service drive and staff parking lot.
<b>Site Supervision</b>	Criteria: Front entry to building visible from main office.	Criteria: Front entry to building visible from main office. Minimal blind spots at athletic fields. Conduit for surveillance cameras at exterior light poles.
<b>Building Security</b>	Criteria: Access to building areas controlled by lockable gates and doors. Intrusion alarm system in administration area, library, science rooms, industrial technology lab, music rooms, computer rooms, and corridors.	Criteria: All building areas under a common roof with access controlled by lockable doors using a Primus key. Classroom exterior doors automatically lock. Intrusion alarm system in administration area, library, science rooms, industrial technology lab, music rooms, computer rooms, corridors and portable classrooms.
<b>Building Supervision</b>	Criteria: Front lobby area visible from main office. Relite windows opening to an adjacent space present at all offices.	Criteria: Front lobby area visible from main office. Minimal blind spots at interior corridors and around perimeter of building. Relite windows opening to an adjacent space present at all offices. Student restrooms designed to allow doors to be open during school hours.
<b>STANDARD CLASSROOMS</b>		
<b>General Classroom</b>	Size: 840 SF. Location: Near staff and student restrooms. Special Features: None.	Size: 900 SF. Location: Near staff and student restrooms. Convenient access to Library, main office and bus loading area. Special Features: Sink and 6 LF of sink counter.
<b>Language Arts</b>	Size: 840 SF. Location: Near staff and student restrooms. Special Features: None.	Size: 900 SF. Location: Near staff and student restrooms. Convenient access to Library, main office and bus loading area. Special Features: Sink and 6 LF of sink counter.

# MIDDLE SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>Resource</b>	Size: 840 SF. Location: Near staff and student restrooms. Special Features: None.	Size: 900 SF. Location: Near staff and student restrooms. Convenient access to Library, main office and bus loading area. Special Features: Sink and 6 LF of sink counter.
<b>Social Studies</b>	Size: 840 SF. Location: Near staff and student restrooms. Special Features: None.	Size: 900 SF. Location: Near staff and student restrooms. Convenient access to Library, main office and bus loading area. Special Features: Sink and 6 LF of sink counter.
<b>Special Education</b>	Size: 840 SF. Location: On ground floor. Close to main office and bus loading area. Special Features: Testing room and ADA compliant restroom in classroom.	Size: 900 SF. Location: On ground floor. Close to main office and bus loading area. Special Features: Testing room and ADA compliant restroom in classroom. Sink and 6 LF of sink counter.
<b>SPECIALTY CLASSROOMS</b>		
<b>Art</b>	Size: 900 SF. Location: Adjacent to Art storage and workroom. Special Features: Two sinks and eye wash.	Size: 1000 SF. Location: Adjacent to Art storage and workroom. Close to exterior door and Visual Communications. Special Features: Cabinet storage for student projects, three sinks, eye wash, supplemental track lighting system, and evacuation exhaust fan.
<b>Band</b>	Size: 1,400 SF. Location: Adjacent to Band storage, office and practice rooms. Close to vehicle access. Special features: Built-in sound system and instrument storage cabinets within room or in adjacent storage room.	Size: 1,600 SF. Location: Adjacent to vehicle access, and Band storage, office and practice rooms. Close to restrooms and within an area that can be secured from rest of building. Special features: 3'-6" exterior door adjacent to vehicle access. Large sink and 6 LF of sink counter, built-in sound system, instrument storage cabinets and closets.
<b>Computer Applications</b>	Size: 1,000 SF. Location: Close to Computer lab. Special Features: 30 students computer stations and one teacher's station. Master shut-off switch for student computers and monitors.	Size: 1,100 SF. Location: Adjacent to Computer lab. Special Features: Sink and 6 LF of sink counter. 32 student computer stations and one teacher's work station. Master shut-off switch for student computers and monitors.
<b>Computer Classroom</b>	Size: 900 SF. Location: Close to Computer Applications. Special Features: 30 student computer stations and one teacher's station. Master shut-off switch for student computers and monitors.	Size: 1,000 SF. Location: Adjacent to Computer Applications. Special Features: Sink and 6 LF of work counter. 32 student computer stations, one teacher's station, and computer station at front of classroom. Master shut-off switch for student computers and monitors.
<b>Drama</b>	Size: 840 SF. Location: Adjacent to another classroom that is usable for drama practice. Special Features: Operable wall between adjacent classroom.	Size: 900 SF. Location: Adjacent to Stage. Special Features: Operable wall between adjacent classroom, make-up counter and mirror, costume and set material storage cabinets. Sink and 6 LF of sink counter.
<b>Family and Consumer Science</b>	Size: 1,200 SF. Location: Near service access. Special Features: 8 student cooking stations.	Size: 1,400 SF. Location: Near service access. Special Features: 8 student cooking stations including ADA compliant station. 6 student computer stations. Closet with stacking washer and dryer. Demonstration station at front of classroom with cooking equipment and overhead mirror. Evacuation exhaust system with manual timer.

# MIDDLE SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>Industrial Technology Classroom</b>	Size: 840 SF. Location: Adjacent to Industrial Technology Lab. Special Features: Relite windows between Technology Lab.	Size: 900 SF. Location: Adjacent to Industrial Technology Lab. Special Features: Relite windows between Technology Lab. Sink and 6 LF of sink counter.
<b>Industrial Technology Lab</b>	Size: 2,900 SF Location: Adjacent to Technology classroom, Material storage, and vehicle access. Special Features: Student workbench area with 8 benches and stools, wood and metal working equipment, sawdust collection system, hand wash sink, storage cabinets for student projects.	Size: 3,100 SF Location: Adjacent to Technology classroom, Material storage, and vehicle access. Special Features: Student workbench area with 8 benches and stools, wood and metal working equipment, sawdust collection system, large hand wash sink, storage cabinets for student projects, and relite windows between Technology classroom.
<b>Music Practice - Ensemble</b>	Size: 200 SF. Location: Adjacent to Band or Orchestra room. Special Features: Acoustical isolation. Door and relite window to Band or Orchestra room.	Size: 250 SF. Location: Between Band and Orchestra rooms. Special Features: Acoustical isolation. Door and relite windows to Band and Orchestra rooms. One computer station.
<b>Music Practice - Small</b>	Size: 50 SF. Location: Adjacent to corridor and Band or Orchestra rooms. Special Features: Two practice rooms each with door to corridor. Relite window to Band or Orchestra rooms. Acoustical isolation.	Size: 50 SF. Location: Adjacent to corridor and Band or Orchestra rooms. Special Features: Two practice rooms each with door to corridor. Relite window to Band or Orchestra rooms. Acoustical isolation.
<b>Music Practice - Medium</b>	Size: 80 SF. Location: Adjacent to corridor and Band or Orchestra rooms. Special Features: Door to corridor. Relite window to Band or Orchestra rooms. Acoustical isolation.	Size: 80 SF. Location: Adjacent to corridor and Band or Orchestra rooms. Special Features: Door to corridor. Relite window to Band or Orchestra rooms. Acoustical isolation.
<b>Orchestra / Choral</b>	Size: 1,100 SF. Location: Adjacent to Orchestra storage, office and practice rooms. Close to vehicle access. Special features: Built-in sound system and instrument storage cabinets within room or in adjacent storage room.	Size: 1,300 SF. Location: Adjacent to Orchestra storage, office and practice rooms. Close to restrooms and vehicle access. Within an area that can be secured from rest of building. Special features: Built-in sound system and instrument storage cabinets within room.
<b>Science</b>	Size: 900 SF. Location: Three classrooms with each adjacent to Science prep room. Special Features: 7 student work stations each with sink, power and natural gas.	Size: 1,000 SF. Location: Three classrooms with each adjacent to Science prep room. One Science classroom located in a classroom area for each grade level. Special Features: 8 student work stations each with sink, power and natural gas and one ADA compliant station. Demonstration station at front of classroom with sink, power and natural gas. Evacuation exhaust fan with manual timer.
<b>Visual Communications</b>	Size: 1,000 SF. Location: Adjacent to Darkroom. Special Features: Sink and work counter, storage cabinets for student projects. Six student computer stations.	Size: 1,200 SF. Location: Close to Industrial Technology Lab. Special Features: Sink and work counter, storage cabinets for student projects. Fifteen student computer stations.
<b>LIBRARY</b>		
<b>Audio Visual</b>	Size: 150 SF. Location: Adjacent to Library. Special Features: Easy access through Library from adjacent corridor.	Size: 180 SF. Location: Adjacent to Library. Special Features: Easy access through Library from adjacent corridor. 3'-6" wide entry door.



# MIDDLE SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>Group Study</b>	Size: 120 SF Location: Adjacent to Library. Special Features: Relite window to Library.	Size: 160 SF Location: Adjacent to Library. Special Features: Relite window to Library. Four computer stations.
<b>Reserve / Periodicals</b>	Size: 150 SF. Location: Behind circulation desk and adjacent to Workroom or a combined room with Library Workroom. Special Features: Relite window to Library.	Size: 180 SF. Location: Behind circulation desk and adjacent to Workroom. Special Features: 3' - 6" wide door. Relite window to Library.
<b>Study / Circulation</b>	Size: 2,200 SF. Location: Central location. Adjacent to Group Study, Audio Visual Storage, and Library Workroom. Special Features: Two separate instruction areas with tables, reading area, circulation counter, and 8 student computer stations. Open shelving for 10,000 volumes.	Size: 2,600 SF. Location: Central location. Adjacent to Group Study, Audio Visual Storage, and Library Workroom. Special Features: Two separate instruction areas with tables, reading area, circulation counter, and 15 student computer stations. Open shelving for 13,000 volumes. Exterior windows.
<b>LEARNING RESOURCE</b>		
<b>Library Workroom</b>	Size: 200 SF. Location: Behind circulation desk. Adjacent to Reserve / Periodicals or a combined room with Reserve / Periodicals. Special Features: Relite windows to Library. Power and telecommunication outlets for two workstations. Cable TV system head-end, recording and transmitting equipment.	Size: 240 SF. Location: Behind circulation desk and adjacent to Reserve / Periodicals. Special Features: Relite windows to Library. Two computer stations. Cable TV system head-end, recording and transmitting equipment.
<b>PHYSICAL EDUCATION TEACHING STATION</b>		
<b>Auxiliary Gym</b>	Size: 3,600 SF Location: Adjacent to PE and Athletic Storage. Close to Main Gym, Locker Rooms and vehicle access. Within community access zone. Special Features: Rubber floor, retractable or side-swing basketball backboards, divider curtain, and sound system.	Size: 4,200 SF Location: Adjacent to PE and Athletic Storage. Close to Main Gym, Locker Rooms, drinking fountain, and vehicle access. Within community access zone. Special Features: Wood floor, retractable or side-swing basketball backboards, sound system, divider curtain, exterior windows, scoreboard and two 30-second clocks.
<b>Boy's Locker Room</b>	Size: 1,200 SF. Location: Adjacent to PE Office, Coaches' Office, Staff Locker Room, Drying Room, and building exterior. Close to athletic fields, Training Room, Weight Room, and Main and Auxiliary Gyms. Special Features: 350 box lockers, 75 half-height lockers, shower area with 8 shower heads, restroom area with 2 water closets, 2 urinals and 2 sinks. Relite windows between offices and locker area.	Size: 1,400 SF. Location: Adjacent to PE Office, Coaches' Office, Staff Locker Room, Drying Room, and building exterior. Close to athletic fields, Training Room, Weight Room, and Main and Auxiliary Gyms. Special Features: 400 box lockers, 100 half-height lockers, shower area with 10 shower heads, ADA compliant privacy shower, restroom area with 2 water closets, 3 urinals and 2 sinks. Relite windows between offices and locker area.
<b>Girl's Locker Room</b>	Size: 1,200 SF. Location: Adjacent to PE Office, Coaches' Office, Coaches' Locker Room, and building exterior. Close to athletic fields, Training Room, and Main and Auxiliary Gyms. Special Features: 350 box lockers, 75 half-height lockers, shower area with 8 shower heads, restroom area with 3 water closets and 2 sinks. Relite windows between offices and locker area.	Size: 1,400 SF. Location: Adjacent to PE Office, Coaches' Office, Coaches' Locker Room, and building exterior. Close to athletic fields, Training Room, and Main and Auxiliary Gyms. Special Features: 400 box lockers, 100 half-height lockers, shower area with 10 shower heads, ADA compliant privacy shower, restroom area with 4 water closets and 2 sinks. Relite windows between offices and locker area.

# MIDDLE SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>Main Gym</b>	<p>Size: 7,200 SF                      Location: Adjacent to PE Storage, Athletic Storage, and vehicle access. Close to Auxiliary Gym and Locker Rooms. Within community access zone.                      Special Features: Wood floor, retractable or side-swing basketball backboards, divider curtain, sound system, motorized bleachers for 800, scoreboard and two 30-second clocks.</p>	<p>Size: 7,800 SF                      Location: Adjacent to PE Storage, Athletic Storage, and vehicle access. Close to drinking fountain, Auxiliary Gym and Locker Rooms. Within community access zone.                      Special Features: Wood floor, retractable or side-swing basketball backboards, sound system, divider curtain, ADA compliant motorized bleachers for 800, large motorized projection screen with protective enclosure, exterior windows, 2 scoreboards and two 30-second clocks.</p>
<b>ASSEMBLY</b>		
<b>Assembly Storage</b>	<p>Size: 100 SF.                      Location: Adjacent to Commons.                      Special Features: 3'-6" wide door.</p>	<p>Size: 120 SF.                      Location: Adjacent to Commons. Close to exterior door.                      Special Features: Double door without mullion. Protective wainscot at walls.</p>
<b>Stage</b>	<p>Size: 800 SF.                      Location: Adjacent to Commons, Drama classroom, and corridor.                      Special Features: Operable wall at openings to Commons and Drama classroom. Door to corridor.</p>	<p>Size: 900 SF.                      Location: Adjacent to Commons, Drama Storage, Drama classroom, and corridor.                      Special Features: Operable wall at openings to Commons and Drama classroom. Door to Commons, Drama classroom, and corridor. Stage lighting track and fixtures, backdrop curtains at perimeter walls.</p>
<b>SERVICE AND SUPPORT</b>		
<b>Art Prep</b>	<p>Size: 100 SF                      Location: Adjacent to Art room.                      Special Features: Sink, work counter, and relite windows to Art room.</p>	<p>Size: 130 SF                      Location: Adjacent to Art room and Art Storage room.                      Special Features: Sink, work counter, and relite windows to Art room.</p>
<b>Art Kiln Room</b>	<p>Size: 80 SF.                      Location: Adjacent to Art room.                      Special Features: Kiln with exhaust hood.</p>	<p>Size: 120 SF.                      Location: Adjacent to Art room.                      Special Features: Kiln with down draft exhaust system, solder table, overhead exhaust fan, and relite window to Art room.</p>
<b>Darkroom</b>	<p>Size: 150 SF.                      Location: Adjacent to Visual Communications. Close to corridor access.                      Special Features: Light trap at entry, power and cabinets for 3 enlargers, photo processing sink.</p>	<p>Size: 160 SF.                      Location: Adjacent to Visual Communications. Close to corridor access.                      Special Features: Light trap at entry, power and cabinets for 3 enlargers, photo processing sink, and eye wash.</p>
<b>Science Prep Room - Large</b>	<p>Size: 220 SF.                      Location: Between two Science classrooms.                      Special Features: Doors to Science classrooms. Emergency shower and floor drain. Acid and base storage cabinets. Exhaust system.</p>	<p>Size: 260 SF.                      Location: Between two Science classrooms.                      Special Features: Doors with relite windows to Science classrooms. Emergency shower and floor drain. Acid and base storage cabinets. Exhaust system.</p>
<b>Science Prep Room - Small</b>	<p>Size: 140 SF.                      Location: Adjacent to one Science classroom.                      Special Features: Door with to Science classroom. Emergency shower and floor drain.</p>	<p>Size: 160 SF.                      Location: Adjacent to one Science classroom.                      Special Features: Doors with relite windows to Science classrooms. Emergency shower and floor drain.</p>
<b>Special Education - Restroom</b>	<p>Size: 50 SF                      Location: Adjacent to Special Education classroom.                      Special Features: ADA compliant with exhaust fan.</p>	<p>Size: 70 SF                      Location: Adjacent to Special Education classroom.                      Special Features: ADA compliant with oversized exhaust fan with manual bypass timer.</p>

# MIDDLE SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>Special Education - Testing</b>	Size: 60 SF Location: Adjacent to Special Education classroom. Special Features: Door and relite window to Special Education classroom with protective wainscot at walls.	Size: 80 SF Location: Adjacent to Special Education classroom. Special Features: Door and relite window to Special Education classroom with protective wainscot at walls.
<b>Storage - Art</b>	Size: 120 SF Location: Adjacent to Art room. Special Features: Relite window in door.	Size: 150 SF Location: Adjacent to Art room and Art Prep room. Special Features: Relite window in door.
<b>Storage - Drama</b>	Size: 120 SF. Location: Close to Stage or Drama classroom. Special Features: None.	Size: 120 SF. Location: Adjacent to Stage or Drama classroom. Special Features: 3'-6" wide door and protective wainscot at walls.
<b>Storage - Gym Assembly</b>	Size: 50 SF. Location: Adjacent to Main Gym. Special Features: Location for Main Gym sound system rack.	Size: 60 SF. Location: Adjacent to Main Gym. Special Features: Location for Main Gym sound system rack. Protective wainscot on walls.
<b>Storage - Gym Equipment</b>	Size: 600 SF. Location: Adjacent to Gym. Special Features: Two pair of double doors to Main Gym.	Size: 800 SF. Location: Adjacent to Main and Auxiliary Gyms. Special Features: Three pair of double doors without mullions to Main Gym. Double door to Auxiliary Gym. Protective wainscot at walls.
<b>Storage - Industrial Technology - Materials</b>	Size: 150 SF. Location: Adjacent to Technology Lab or fenced off area with Technology Lab. Special Features: Protective surface at walls.	Size: 200 SF. Location: Adjacent to Technology Lab. Close to exterior door with vehicle access. Special Features: Double doors without mullion. Protective surface at walls.
<b>Storage - Instructional Material</b>	None.	Size: 150 SF Location: Adjacent to corridor and centrally located. Special Features: Floor to ceiling shelving.
<b>Storage - P. E.</b>	Size: 180 SF Location: Adjacent to Main Gym. Close to Auxiliary Gym. Special Features: Protective wainscot at walls.	Size: 200 SF Location: Between Main and Auxiliary Gyms. Special Features: 3'-6" doors to Main and Auxiliary Gyms. Protective wainscot at walls.
<b>Storage - Science Chemicals</b>	None.	Size: 100 SF. Location: Adjacent to Science Prep room. Special Features: Acid and base storage cabinets. Exhaust system.
<b>Storage - Music Uniforms</b>	Size: 80 SF. Location: Adjacent to corridor. Close to Band and Orchestra rooms. Special Features: None.	Size: 80 SF. Location: Adjacent to Band Room. Close to Orchestra room. Special Features: 3'-6" wide door.
<b>STUDENT SERVICES</b>		
<b>Counselor</b>	Size: 110 SF Location: Four adjacent offices adjacent to corridor in Counseling area. Close to main entry. Special Features: Relite window to corridor.	Size: 130 SF Location: Four adjacent offices adjacent to corridor in Counseling area. Close to main entry. Special Features: Relite window to corridor.
<b>Health Room</b>	Size: 170 SF Location: Adjacent to Attendance or Main Office, Health Restroom, and Nurse's office. Special Features: Visible connection to Attendance or Main Office. Exhaust fan.	Size: 200 SF Location: Adjacent to Attendance secretary's area, Health Restroom, and Nurse's office. Special Features: Visible connection to Attendance secretary's area and Nurse's room. Oversized exhaust fan with manual bypass timer.

# MIDDLE SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>Health Restroom</b>	Size: 50 SF Location: Adjacent to Health room. Special Features: ADA compliant with exhaust fan.	Size: 70 SF Location: Adjacent to Health room. Special Features: ADA compliant with oversized exhaust fan with manual bypass timer.
<b>Isolated Waiting</b>	Size: 120 SF. Location: Adjacent to Attendance area. Special Requirements: Relite window to Attendance area.	Size: 150 SF. Location: Adjacent to Attendance area. Special Requirements: Relite window to Attendance area. Protective wainscot at walls.
<b>Student Store</b>	Size: 80 SF Location: Adjacent to corridor. Close to Cafeteria / Commons. Special Features: Serving counter with roll-up counter door.	Size: 100 SF Location: Adjacent to Cafeteria / Commons. Special Features: Serving counter with roll-up counter door and computer station.
<b>Training</b>	Size: 110 SF. Location: Adjacent to corridor. Close to Gyms , Locker Rooms, and athletic fields. Special Features: Relite window to corridor and water source for ice machine.	Size: 140 SF. Location: Adjacent to corridor. Close to Gyms , Locker Rooms, and athletic fields. Special Features: Relite window to corridor and water source for ice machine.
<b>OFFICE SPACE</b>		
<b>Assistant Principal</b>	Size: 140 SF. Location: Adjacent to Attendance area. Special Features: Relite window to Attendance area.	Size: 160 SF Location: Adjacent to Attendance area. Special Features: Relite window to Attendance area. Exterior window with view of front entrance.
<b>Attendance - Secretary and Bookkeeper</b>	Size: 360 SF. Location: Adjacent to front entry foyer, reception area, Assistant Principal, Health, Isolated Waiting, and Conference room. Close to Main office. Special Features: Area for Attendance Secretary and Bookkeeper work stations, visual link to entry foyer, relite window to Health room and Isolated Waiting, reception counter between work stations and reception area.	Size: 440 SF. Location: Adjacent to front entry foyer, reception area, Assistant Principal, Health, Isolated Waiting, and Conference room. Close to Main office. Special Features: Area for Attendance Secretary and Bookkeeper work stations, relite windows to entry foyer, relite window to Health room, reception counter between work stations and reception area.
<b>Attendance - Reception</b>	Size: 200 SF. Location: Adjacent to front entry foyer, and Attendance Secretary / Bookkeeper. Close to Main office. Special Features: Relite windows to entry foyer.	Size: 240 SF. Location: Adjacent to front entry foyer, and Attendance Secretary / Bookkeeper. Close to Main office. Special Features: Two separate entry doors from entry foyer. Relite windows to entry foyer.
<b>Conference Room - Large</b>	Size: 220 SF Location: Adjacent to Main office or Attendance area. Special Features: None.	Size: 260 SF Location: Adjacent to Main office or Attendance area. Special Features: Relite window to Main office or Attendance area.
<b>Conference Room - Small</b>	Size: 140 SF Location: Adjacent to Main office or Attendance area. Special Features: None.	Size: 160 SF Location: Adjacent to Main office or Attendance area. Special Features: Relite window to Main office or Attendance area with power and telecommunication outlets for conversion to office.
<b>Coaches' Office - Men</b>	Size: 80 SF. Location: Adjacent to Men's Locker Room. Special Features: Relite window with visual link to locker area.	Size: 90 SF. Location: Adjacent to Men's Locker Room. Special Features: Relite window with visual link to locker area.

# MIDDLE SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>Coaches' Office - Women</b>	Size: 80 SF. Location: Adjacent to Women's Locker Room. Special Features: Relite window with visual link to locker area.	Size: 90 SF. Location: Adjacent to Women's Locker Room. Special Features: Relite window with visual link to locker area.
<b>Main Office - Reception</b>	Size: 160 SF Location: At front entry and adjacent to Main office Secretary / Registrar area. Special Features: Relite windows to front entry foyer.	Size: 200 SF Location: At front entry and adjacent to Main office Secretary / Registrar area. Special Features: Relite windows to front entry foyer.
<b>Main Office - Secretary and Registrar</b>	Size: 450 SF Location: At front entry and adjacent to Main office reception area and Principal. Close to Counselors and Staff Workroom. Special Features: Area for office manager, registrar and secretary work stations, visual link to entry foyer, relite window to Principal's office, reception counter between work stations and reception area.	Size: 500 SF Location: At front entry and adjacent to Main office reception area, Principal, and Counselors. Close to Staff Workroom. Special Features: Area for office manager, registrar and secretary work stations, visual link to entry foyer and front entry doors, relite window to Principal and Counselor's office, reception counter between work stations and reception area.
<b>Maintenance Office</b>	Size: 120 SF. Location: Adjacent to corridor. Close to exterior delivery area. Special Features: Sink and work counter. Location for EMS computer.	Size: 160 SF. Location: Adjacent to main corridor. Close to Maintenance storage and exterior delivery area. Special Features: Sink and work counter. Location for EMS computer, HVAC bypass timers, fire alarm and security panels.
<b>Music Office</b>	Size: 200 SF. Location: Between Band and Orchestra rooms. Close to Practice rooms. Special Features: Relite windows to Band and Orchestra rooms. Acoustical isolation. Power and data outlets for three workstations.	Size: 220 SF. Location: Between Band and Orchestra rooms. Close to Practice rooms. Special Features: Relite windows to Band and Orchestra rooms. Acoustical isolation. Three staff workstations.
<b>Nurse</b>	Size: 120 SF. Location: Adjacent to Health room. Special Features: Relite window to Health room.	Size: 150 SF Location: Adjacent to Health room. Special Features: Includes work stations for Nurse and Health room aide with relite window to Health room.
<b>OT / PT / Psychologist</b>	Size: 150 SF. Location: Adjacent to corridor. Close to Main office or Attendance area. Special Requirements: Ceiling hook with relite window to corridor.	Size: 160 SF. Location: Adjacent to corridor. Close to Main office and Counselors. Special Requirements: Ceiling hook, wall padding close to ceiling hook area, and relite window to corridor.
<b>P. E. Office - Men</b>	Size: 130 SF. Location: Adjacent to Boy's Locker room. Close to Staff Locker room. Special Features: Relite window with visual link to locker area. Power and data outlets for two teacher's work station.	Size: 150 SF. Location: Adjacent to Boy's Locker room. Close to Staff Locker room. Special Features: Relite window with visual link to locker area. Two staff work stations.
<b>P. E. Office - Women</b>	Size: 130 SF. Location: Adjacent to Girl's Locker room. Close to Staff Locker room. Special Features: Relite window with visual link to locker area. Power and data outlets for two teacher's work station.	Size: 150 SF. Location: Adjacent to Girl's Locker room. Close to Staff Locker room. Special Features: Relite window with visual link to locker area. Two staff work stations.
<b>P. E. Staff Locker - Men</b>	Size: 110 SF. Location: Adjacent to Men's Locker room. Special Features: 10 lockers, shower stall, water closet and sink.	Size: 130 SF. Location: Adjacent to Men's Locker room. Special Features: ADA compliant with 12 lockers, shower stall, water closet and sink.

# MIDDLE SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>P. E. Staff Locker - Women</b>	Size: 110 SF. Location: Adjacent to Women's Locker room. Special Features: 10 lockers, shower stall, water closet and sink.	Size: 130 SF. Location: Adjacent to Women's Locker room. Special Features: ADA compliant with 12 lockers, shower stall, water closet and sink.
<b>Planning Office</b>	Size: 180 SF. Location: Three offices, centrally located, adjacent to corridor. Special Features: Six staff work stations.	Size: 220 SF. Location: Three offices, adjacent to corridor, with each office located in a classroom area for each grade level. Special Features: Six staff work stations.
<b>Principal</b>	Size: 230 SF Location: Adjacent to Main office area. Special Features: Relite window to Main office area.	Size: 250 SF Location: Adjacent to Main office area. Special Features: Relite window to Main office area. Power and data outlets at two locations for optional test location. Visual link to front entry.
<b>Record Storage</b>	Size: 120 SF. Location: Adjacent to Main office area. Special Requirements: None.	Size: 140 SF. Location: Adjacent to Main office area. Special Requirements: None.
<b>Workroom - Staff</b>	Size: 520 SF Location: Centrally located. Special Features: Power and data outlets for 2 high capacity copy machines and two staff workstations. Tote tray mail boxes for 75.	Size: 580 SF Location: Adjacent to Main office area. Special Features: Power and data outlets for 2 high capacity, networked copy machines and three staff workstations. Tote tray mail boxes for 90. High capacity ventilation system to accommodate heat load from laminator and copy machines.
<b>CAFETERIA / FOOD SERVICE</b>		
<b>Commons</b>	Size: 3,200 SF. Location: Adjacent to front entry lobby, Kitchen, Stage, and exterior courtyard. Within community access zone. Special Features: Operable wall at Stage opening.	Size: 3,600 SF. Location: Adjacent to front entry lobby, Kitchen, Stage, Student Store, Kitchenette, and exterior courtyard. Within community access zone. Centrally located and close to restrooms. Special Features: Operable wall at Stage opening. Accommodations for 4 computer stations.
<b>Kitchen</b>	Size: 1,100 SF Location: Centrally located. Adjacent to Serving area, Cooler, Freezer, Storage and Custodial rooms, and exterior delivery area. Special Features: Full service Kitchen with scullery, staff lockers, and work desk area. Power, telecommunications, and Meal Time outlets at work desk.	Size: 1,300 SF Location: Centrally located. Adjacent to Serving area, walk-in Cooler and Freezer, Storage and Custodial rooms, and exterior delivery area. Special Features: Full service Kitchen with scullery, staff lockers, and work desk area. Power, telecommunications, and Meal Time outlets at work desk.
<b>Kitchenette</b>	None.	Size: 90 SF. Location: Adjacent to Cafeteria / Commons. Special Features: Two basin sink, serving counter with roll-up counter door to Cafeteria.
<b>Kitchen Storage</b>	Size: 120 SF Location: Adjacent to Kitchen and close to exterior delivery area.	Size: 140 SF Location: Adjacent to Kitchen and close to exterior delivery area. Special Features: 3'-6" wide door to Kitchen.
<b>Serving Area</b>	Size: 300 SF Location: Between Kitchen and Cafeteria / Commons. Special Features: Serving counter between Kitchen and Serving area. Relite windows to Cafeteria / Commons. Two check out stations with Meal Time outlets at exit doors to Cafeteria / Commons.	Size: 460 SF Location: Between Kitchen and Cafeteria / Commons. Special Features: Serving counter between Kitchen and Serving area. Relite windows to Cafeteria / Commons. One controlled entrance from Cafeteria / Commons. Three exit doors each with a checkout station with Meal Time outlets.

# MIDDLE SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>Staff Lounge</b>	Size: 560 SF Location: Adjacent to Telephone room and close to Kitchen. Special Features: Sink counter and space for microwave, refrigerator, and vending machine.	Size: 620 SF Location: Adjacent to Telephone rooms and close to Kitchen. Special Features: Sink counter and space for 2 microwaves and 2 refrigerators and vending machine. One computer station.
<b>Vending Machine Alcove</b>	Size: 30 SF. Location: In main corridor. Close to Commons and Gyms. Special Features. Power for 2 vending machines.	Size: 60 SF. Location: In main corridor. Close to Commons and Gyms. Special Features. Power for 4 vending machines.
<b>Walk-in Cooler</b>	Size: 100 SF. Location: Adjacent to Kitchen and walk-in Freezer. Close to exterior delivery area. Special Features: Floor surface that matches Kitchen.	Size: 160 SF. Location: Adjacent to Kitchen and walk-in Freezer. Close to exterior delivery area. Special Features: Exterior condenser unit, quarry tile floor and window in door.
<b>Walk-in Freezer</b>	Size: 100 SF. Location: Adjacent to Kitchen and walk-in Cooler. Close to exterior delivery area. Special Features: Floor surface that matches Kitchen.	Size: 160 SF. Location: Adjacent to Kitchen and walk-in Cooler. Close to exterior delivery area. Special Features: Exterior condenser unit, quarry tile floor and window in door.
<b>GENERAL SUPPORT SPACE</b>		
<b>Athletic Storage</b>	Size: 300 SF. Location: Close to Gymnasiums Special Features: Work counter and cabinet storage for individual athletic teams.	Size: 340 SF. Location: Between Main and Auxiliary Gyms. Special Features: Work counter and cabinet storage for individual athletic teams. 3'-6" doors to Main and Auxiliary Gyms.
<b>Drying Room</b>	Size: 280 SF. Location: Adjacent to Men's Locker Room. Special Features: Independent heat and ventilation system manual timer. Racks for hanging football uniforms and equipment.	Size: 320 SF. Location: Adjacent to Men's Locker Room. Special Features: Independent heat and ventilation system connected to EMS with manual bypass timer. Racks for hanging football uniforms and equipment.
<b>Field House Storage</b>	Size: 600 SF. Location: Close to running track. Special Features: Roll-up overhead door.	Size: 700 SF. Location: Adjacent to running track. Special Features: Roll-up overhead door and separate pedestrian door.
<b>Football Equipment</b>	Size: 170 SF Location: Adjacent to Corridor. Close to Locker rooms. Special Features: 3'-6" door to corridor.	Size: 170 SF Location: Adjacent to Corridor. Close to Locker rooms. Special Features: Double door without mullion.
<b>Laundry</b>	None.	Size: 60 SF. Location: Adjacent to corridor. Close to Gyms. Special Features: Laundry sink. Plumbing and power for washing machine and dryer.
<b>Storage - Emergency Supply</b>	None.	Size: 200 SF. Location: Adjacent to building exterior. Special Features: Doors to building exterior and main corridor.
<b>Storage - Furniture</b>	Size: 140 SF. Location: Adjacent to corridor. Special Features: 3'-6" wide door and protective wainscot at walls.	Size: 180 SF. Location: Adjacent to corridor. Special Features: Double doors without mullion and 7' high wainscot at walls.

# MIDDLE SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>Storage - Maintenance</b>	Size: 160 SF. Location: Adjacent to corridor. Close to exterior delivery area. Special Features: Flammable storage cabinet.	Size: 200 SF. Location: Adjacent to corridor. Close to Maintenance Office and exterior delivery area. Special Features: 3'-6" wide door and flammable storage cabinet.
<b>Telecommunication - HC Room</b>	Size: 60 SF. Location: Adjacent to main corridor or mechanical attic space. Located as needed for cable distribution. Special Features: Separate and secure room with independent temperature control system.	Size: 80 SF. Location: Adjacent to main corridor or mechanical attic space. Located as needed for cable distribution. Special Features: Separate and secure room with independent temperature control system and emergency power to core infrastructure and servers.
<b>Telecommunication - MC Room</b>	Size: 160 SF. Location: Adjacent to main corridor or mechanical attic space. Special Features: Separate and secure room with data communications equipment and independent temperature control system.	Size: 200 SF. Location: Centrally located for efficiency of cable distribution. Adjacent to main corridor or mechanical attic space. Special Features: Separate and secure room with data communications equipment, telephone backboard and headend equipment, intercom console, independent temperature control system, and emergency power to core infrastructure and servers.
<b>Telephone Room</b>	Size: 40 SF. Location: Adjacent to Staff Lounge. Special Features: Relite windows in door and ventilation system.	Size: 60 SF. Location: Two adjacent rooms within Staff Lounge. Special Features: ADA compliant with relite windows in door and ventilation system.
<b>COVERED PLAY AREA</b>		
<b>Playshed</b>	None.	None.
<b>NON-ASSIGNABLE SPACE</b>		
<b>Corridors</b>	Size: 12' wide at front entry, 10' wide at main corridors, 9' wide at classroom areas. Location: To provide access to all rooms within building. Special Features: Location for student lockers, display cases and tackable display areas.	Size: 14' wide at front entry, 12' wide at main corridors, 10' wide at classroom areas.. Location: To provide access to all rooms within building. Special Features: Location for student lockers, display cases, tackable display areas and hand wash areas adjacent to student restrooms.
<b>Custodial</b>	Size: 60 SF. Location: One at each classroom wing with one within the Kitchen. Special Features: Mop sink, floor drain, exhaust fan and protective wainscot at walls.	Size: 70 SF. Location: One at each classroom wing with one within the Kitchen. Special Features: Mop sink, floor drain, exhaust fan and protective wainscot at walls. No electrical panels in room.
<b>Electrical - Main Distribution</b>	Size: As needed to accommodate main switch gear.	Size: As needed to accommodate main switch gear. Location: At exterior wall and adjacent to main Mechanical room. Special Features: Exterior door and door to mechanical room.
<b>Electrical - Secondary Distribution</b>	Size: As needed to accommodate electrical panels. Location: As needed for electrical distribution. Special Features: No mop sinks in room.	Size: As needed to accommodate electrical panels. Location: As needed for electrical distribution. Special Features: No mop sinks in room.



# MIDDLE SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>Mechanical - Main Equipment</b>	Size: As needed to accommodate equipment. Location: At exterior wall, centrally located, adjacent to main distribution Electrical room. Special Features: Double doors with removable mullion.	Size: As needed to accommodate equipment. Location: At exterior wall, centrally located, adjacent to main distribution Electrical room. Special Features: Two 3'-6" wide doors with removable mullion, laundry tub sink and location for irrigation controller. Separation between relief air grilles and fire sprinkler riser.
<b>Mechanical - Secondary Equipment</b>	Size: As needed to accommodate equipment. Location: Adjacent to and accessible from corridor or building exterior. Special Features: Door opening large enough accommodate equipment removal and replacement.	Size: As needed to accommodate equipment. Location: Adjacent to and accessible from corridor. Special Features: Door opening large enough accommodate equipment removal and replacement.
<b>Restroom - Public - Men</b>	Size: 160 SF. Location: Near front entry, Library, Gyms and Commons. Within community access zone. Special Features: ADA compliant with one water closet and two urinals.	Size: 200 SF. Location: Near front entry, Library, Gyms and Commons. Within community access zone. Special Features: ADA compliant with one water closets, three urinals, and hot / cold water hose bibb.
<b>Restroom - Public - Women</b>	Size: 180 SF. Location: Near front entry, Library, Gyms and Commons. Within community access zone. Special Features: ADA compliant with three water closets.	Size: 220 SF. Location: Near front entry, Library, Gyms and Commons. Within community access zone. Special Features: ADA compliant with four water closets, and hot / cold water hose bibb.
<b>Restroom - Staff - Men</b>	Size: 120 SF. Location: Near each classroom wing. Special Features: One water closet, one urinal and one sink.	Size: 150 SF. Location: Within each classroom wing. Special Features: ADA compliant with one water closet, one urinal and one sink.
<b>Restroom - Staff - Women</b>	Size: 140 SF. Location: Near each classroom wing. Special Features: Two water closets and one sink.	Size: 170 SF. Location: Within each classroom wing. Special Features: ADA compliant with two water closets and one sink.
<b>Restroom - Student - Boys</b>	Size: As needed to accommodate code-required number of toilet fixtures. Location: Within each classroom wing. Special Features: ADA compliant.	Size: As needed to accommodate code-required number of toilet fixtures. Location: Within each classroom wing and adjacent to hand wash area in corridor. Special Features: ADA compliant with ceramic tile floor, 7' high wainscot, exterior window, and hot / cold water hose bibb.
<b>Restroom - Student - Girls</b>	Size: As needed to accommodate code-required number of toilet fixtures. Location: Within each classroom wing. Special Features: ADA compliant.	Size: As needed to accommodate code-required number of toilet fixtures. Location: Within each classroom wing and adjacent to hand wash area in corridor. Special Features: ADA compliant with ceramic tile floor, 7' high wainscot, exterior window, and hot / cold water hose bibb.
<b>Sawdust Collector</b>	Size: 80 SF. Location: Adjacent to building exterior and Industrial Technology Lab. Special Features: Entrance from exterior.	Size: 80 SF. Location: Adjacent to building exterior and Industrial Technology Lab. Special Features: Entrance from exterior. Sound attenuation within room.
<b>Stairs</b>	Size: 8' wide. Location: At multi-story buildings and centrally located. Special Features: Protective wainscot at walls.	Size: 10' wide. Location: At multi-story buildings and centrally located. Special Features: Protective wainscot at walls.

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>CAPACITY</b>		
<b>Enrollment</b>	Enrollment Capacity: 1,500 students.	Enrollment Capacity: 1,500 - 1,800 students.
<b>Building Size</b>	OSPI Gross SF: 180,000 SF.	OSPI Gross SF: 195,000 SF plus up to 10 portable classrooms.
<b>ACCESSIBILITY</b>		
<b>Site Access</b>	Pedestrian Access: Sidewalk access from street at front of school with crosswalks at internal driveways. Vehicle Access: Separate entry / exit driveways for buses. Separate delivery area.	Pedestrian Access: Sidewalk access from street at front of school that do not cross internal driveways. Vehicle Access: Separate entry / exit driveways for buses. Two or more separated entry / exit driveways for student traffic. Separate delivery area.
<b>Building Access</b>	Delivery Entry: Adjacent to Kitchen. Main Entry: At front of school. Secondary Entries: At bus loading area, staff and student parking lots, and athletic fields.	Delivery Entry: Adjacent to Kitchen, Receiving Room, Maintenance Storage Room, and corridor access. Main Entry: At front of school and prominent. Secondary Entries: At classrooms, bus loading area, staff and student parking lots, and athletic fields.
<b>Disabled Access</b>	Pre-1992 Facilities: Shall provide program accessibility to people with disabilities. 1992 and Older Facilities: Shall provide accessibility in compliance with the American Disabilities Act (ADA).	All Facilities: Shall provide accessibility in compliance with the American Disabilities Act (ADA).
<b>ACOUSTICS</b>		
<b>Site Acoustics</b>	Criteria: Off site noise shall comply with WAC 246-366-030(3) and not exceed an hourly average of 55 dBA and an hourly maximum of 70dBA.	Criteria: Off site noise shall comply with WAC 246-366-030(3) and not exceed an hourly average of 55 dBA and an hourly maximum of 70dBA.
<b>Building Acoustics</b>	Criteria: A maximum unoccupied background noise level of 50 NC in classrooms and offices.	Criteria: A maximum unoccupied background noise level of 35 NC in classrooms and offices.
<b>APPEARANCE</b>		
<b>Site Appearance</b>	Criteria: Attractive site appearance from street. A finished and maintained appearance for all site areas.	Criteria: Attractive site appearance from street. A finished and maintained appearance for all site areas.
<b>Building Exterior Appearance</b>	Criteria: Attractive exterior with a prominent front entry.	Criteria: Attractive exterior with a timeless appearance and prominent front entry.
<b>Building Interior Appearance</b>	Criteria: Attractive interior.	Criteria: Attractive interior appearance with features and colors that have a classic and timeless quality.
<b>COMMUNITY USE</b>		
<b>Outdoor Facilities Community Use</b>	Criteria: Athletic fields easily accessible during non-school hours.	Criteria: Athletic fields easily accessible during non-school hours and close to parking and exterior restrooms.
<b>Indoor Facilities Community Use</b>	Criteria: Gyms, Library, Commons, Theater, and public restrooms easily accessible during non-school hours.	Criteria: Gym, Library, Commons, Theater, Computer Lab, Career Center, and public restrooms easily accessible during non-school hours and located within community access zones that can be secured from the rest of the building.
<b>DAY LIGHTING</b>		
<b>Classrooms Day Lighting</b>	Criteria: Exterior windows at all classrooms.	Criteria: Exterior windows at all classrooms with no direct sun.

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>Commons Day Lighting</b>	Criteria: Exterior windows.	Criteria: Exterior windows with no direct sun.
<b>Gymnasiums Day Lighting</b>	None.	Criteria: Exterior windows with no direct sun.
<b>Library Day Lighting</b>	Criteria: Exterior windows.	Criteria: Exterior windows with no direct sun.
<b>Offices Day Lighting</b>	Criteria: Exterior window at main office area and relite windows opening to corridors at other offices.	Criteria: Exterior windows at all offices.
<b>SPACE RELATIONSHIPS</b>		
<b>Exterior Space Relationships</b>	Criteria: Visitor parking and student drop off / pick up area at front of school and separated from bus loading. Separate student and staff parking lots. Exterior courtyard adjacent to Commons. Athletic fields close to locker rooms.	Criteria: Visitor parking and student drop off / pick up area at front of school and separated from bus loading. Bus loading area easily accessible from classroom areas. Separate student and staff parking lots. Exterior courtyard adjacent to Commons. Athletic fields close to locker rooms and parking lot.
<b>Interior Space Relationships</b>	Criteria: All interior spaces within a common building with corridor access to all areas.	Criteria: All interior spaces within a common building with corridor access to all areas. Attendance, Counseling and Main offices near front entry. Commons and Library centrally located. Commons, Theater, Computer Room, Gyms, Career Center, Library, and public restrooms located within community access zones that can be secured from rest of school. Classrooms with common use close to each other. Lockers distributed in corridors at classroom areas.
<b>SUPERVISION / SECURITY</b>		
<b>Site Security</b>	Criteria: Perimeter fence at athletic fields and adjacent to other properties. Vehicle gates at driveway access to delivery area, service drive, bus loading area, and staff and student parking lots.	Criteria: Perimeter fence at athletic fields and adjacent to other properties. Building perimeters and courtyards securable. Vehicle gates at driveway access to delivery area, service drive, bus loading area, and staff and student parking lots. Surveillance cameras at site entry / exit driveways, parking lots, bus loading area, front of school, courtyards, and Field House area.
<b>Site Supervision</b>	Criteria: Front entry to building visible from main office.	Criteria: Front entry to building visible from main office. Minimal blind spots at athletic fields. Conduit for surveillance cameras at exterior light poles.
<b>Building Security</b>	Criteria: Access to building areas controlled by lockable gates and doors. Intrusion alarm system in administration area, library, science rooms, construction / manufacturing, electronics, drafting, music rooms, computer rooms, and corridors.	Criteria: All building areas under a common roof with access controlled by lockable doors using a Primus key. Classroom exterior doors automatically lock. Conduit or cable tray for future surveillance camera wiring. Intrusion alarm system in administration area, library, science rooms, construction / manufacturing, electronics, drafting, music rooms, computer rooms, corridors, and portable classrooms.
<b>Building Supervision</b>	Criteria: Front lobby area visible from main office. Relite windows opening to an adjacent space present at all offices.	Criteria: Front lobby area visible from main office. Minimal blind spots at interior corridors and around perimeter of building. Relite windows opening to an adjacent space present at all offices. Student restrooms designed to allow doors to be open during school hours.
<b>STANDARD CLASSROOMS</b>		

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>General</b>	Size: 840 SF. Location: Near staff and student restrooms. Special Features: None.	Size: 900 SF. Location: Near staff and student restrooms. Convenient access to Library, main office and bus loading area. Special Features: None.
<b>Language Arts</b>	Size: 840 SF. Location: Near staff and student restrooms. Special Features: None.	Size: 900 SF. Location: Near staff and student restrooms. Convenient access to Library, main office and bus loading area. Special Features: None.
<b>Resource</b>	Size: 840 SF. Location: Near staff and student restrooms. Special Features: None.	Size: 900 SF. Location: Near special education classrooms, staff and student restrooms. Convenient access to Library, main office and bus loading area. Special Features: None.
<b>Social Studies</b>	Size: 840 SF. Location: Near staff and student restrooms. Special Features: None.	Size: 900 SF. Location: Near staff and student restrooms. Convenient access to Library, main office and bus loading area. Special Features: None.
<b>Special Education</b>	Size: 840 SF. Location: Two Special Education classrooms, both located on ground floor. Adjacent to Testing room. Close to Special Education office, OT / PT, main office, restrooms and bus loading area. Special Features: ADA compliant restroom and testing room in classroom.	Size: 900 SF. Location: Two Special Education classrooms, both located on ground floor. Adjacent to Testing room and Special Education office. Close to OT / PT, main office, restrooms and bus loading area. Special Features: ADA compliant restroom and testing room in classroom. Sink and 6 LF of sink counter.
<b>World Language</b>	Size: 840 SF. Location: Near staff and student restrooms. Special Features: None.	Size: 900 SF. Location: Near staff and student restrooms. Convenient access to Library, main office and bus loading area. Special Features: None.
<b>SPECIALTY CLASSROOMS</b>		
<b>2-D Art</b>	Size: 1,000 SF. Location: Close to Art storage. Special Features: Two sinks, cabinet storage for student projects, and eye wash.	Size: 1,100 SF. Location: Adjacent to Art storage. Close to 3-D Art, Graphics Computer lab, Visual Communications and exterior door for deliveries. Special Features: Cabinet storage for student projects, two sinks, eye wash, supplemental track lighting system, and evacuation exhaust system with manual timer.
<b>3-D Art</b>	Size: 1,000 SF. Location: Adjacent to Kiln room. Close to Art storage. Special Features: Two sinks, solder table with exhaust system, cabinet storage for student projects, and eye wash.	Size: 1,300 SF. Location: Adjacent to Kiln room and Art storage. Close to 2-D Art, Graphics Computer lab, Visual Communications and exterior door for deliveries. Special Features: Solder table with exhaust system, cabinet storage for student projects, two sinks, eye wash, supplemental track lighting system, and evacuation exhaust system with manual timer.
<b>Audio Lab</b>	Size: 60 SF. Location: Adjacent to Visual Communications. Special Features: Acoustical isolation. Door with relite window and sound seals.	Size: 80 SF. Location: Adjacent to Visual Communications. Special Features: Acoustical isolation. Relite window to Visual Communications classroom. Door with relite window and sound seals.

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>Automobile Technology</b>	None. (Qualified students shall have access to Automobile Technology program at Auburn High School.)	None. (Qualified students shall have access to Automobile Technology program at Auburn High School.)
<b>Business Education</b>	Size: 1,100 SF. Location: Three adjacent Business classrooms near Marketing. Special Features: 30 student computer stations and one teacher's work station.	Size: 1,300 SF. Location: Three adjacent Business classrooms near Marketing. Special Features: 30 student computer stations, one teacher's work station, and computer at front of classroom. Sink and work counter. Room orientation to allow student stations to face front of room. Master shut-off switch for student computers and monitors.
<b>Band</b>	Size: 1,600 SF. Location: Adjacent to Band storage, Music office, and practice rooms. Close to vehicle access. Special features: Built-in sound system and instrument storage cabinets within room or in adjacent storage room.	Size: 1,900 SF. Location: Adjacent to vehicle access, Band storage, Music office and practice rooms. Close to Music Library, restrooms and within an area that can be secured from rest of building. Special features: 3'-6" exterior door adjacent to vehicle access. Large sink and 8 LF of sink counter, built-in sound system, instrument storage cabinets and closets. Relite window to Music office.
<b>Clothing / Child Development</b>	Size: 900 SF. Location: Close to Foods classroom. Special Features: Built-in cabinets for 14 sewing machines.	Size: 1,100 SF. Location: Adjacent to Dressing room and Foods classroom. Special Features: Built-in cabinets for 16 sewing machines. Sink and 6' LF of sink counter.
<b>Computer -- Classroom</b>	Size: 900 SF. Location: Two adjacent computer classrooms, centrally located. Special Features: 30 student computer stations and one teacher's station. Master shut-off switch for student computers and monitors.	Size: 1,000 SF. Location: Two adjacent computer classrooms, centrally located. Special Features: 32 student computer stations, one teacher's station, and computer at front of classroom. Master shut-off switch for student computers and monitors.
<b>Computer - Graphics Lab</b>	Size: 1,000 SF. Location: Close to Art and Visual Communications classrooms. Special Features: 30 student computer stations and one teacher's station. Master shut-off switch for student computers and monitors.	Size: 1,100 SF. Location: Adjacent to Visual Communications classroom. Close to Art classrooms. Special Features: Relite window and door to Visual Communications classroom. 32 student computer stations, one teacher's station, and computer at front of classroom. Master shut-off switch for student computers and monitors.
<b>Construction / Manufacturing</b>	Size: 3,000 SF Location: Adjacent to Construction / Manufacturing office, Material storage, Drying, Sawdust collector, and vehicle access. Close to dumpster. Special Features: Student workbench area with 8 benches and stools, wood and metal working equipment, sawdust collection system, hand wash sink, storage cabinets for student projects.	Size: 3,400 SF Location: Adjacent to Construction / Manufacturing office, Material storage, Drying, Sawdust Collector, and vehicle access. Close to Electronics , Drafting and dumpster. Special Features: Student workbench area with 8 benches and stools, wood and metal working equipment, sawdust collection system, large hand wash sink, storage cabinets for student projects, and relite window to Drying room. Overhead door to vehicle access.
<b>Darkroom</b>	Size: 260 SF. Location: Adjacent to Visual Communications. Close to corridor access. Special Features: Light trap at entry, film loading room within Darkroom, power and cabinets for 8 enlargers, and photo processing sink.	Size: 300 SF. Location: Adjacent to Visual Communications. Close to corridor access. Special Features: Light trap at entry, film loading room within Darkroom, power and cabinets for 10 enlargers, photo processing sink, and eye wash.

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>Drafting</b>	Size: 1,400 SF. Location: Close to Electronics and Construction / Manufacturing. Special Features: Power and data for 24 drafting stations and teacher's station. Storage cabinets for student projects.	Size: 1,600 SF. Location: Close to Electronics and Construction / Manufacturing. Special Features: 32 computerized drafting stations, one teacher's station, and computer at front of classroom. Storage cabinets for student projects.
<b>Drama</b>	Size: 900 SF. Location: Adjacent to Drama office and Dressing rooms. Close to Stage and Theater. Special Features: Sink and 6 LF of work counter, make-up mirror and counter.	Size: 1,100 SF. Location: Adjacent to Drama office and Dressing rooms. Close to Stage and Theater. Special Features: Sink and 8 LF of work counter, make-up mirror and counter, costume and set material storage cabinets.
<b>Electronics / Computer Networking</b>	Size: 1,200 SF. Location: Adjacent to Electronics storage. Close to Construction / Manufacturing and Drafting. Special Features: Sink and work counter. Six work benches with power and compressed air, 8 student electronics work stations, and 6 student computer stations.	Size: 1,400 SF. Location: Adjacent to Electronics storage. Close to Construction / Manufacturing and Drafting. Special Features: Sink and work counter. Six work benches with power and compressed air, 12 student electronics work stations, and 12 student computer stations.
<b>Foods</b>	Size: 1,200 SF. Location: Close to Clothing / Child Development classroom. Near vehicle access for deliveries. Special Features: 7 student cooking stations.	Size: 1,400 SF. Location: Adjacent to Clothing / Child Development classroom and vehicle access for deliveries. Special Features: 8 student cooking stations including ADA compliant station. 6 student computer stations. Closet with stacking washer and dryer. Demonstration station at front of classroom with cooking equipment and overhead mirror. Evacuation exhaust system with manual timer.
<b>Greenhouse</b>	Size: 200 SF. Location: Adjacent to Horticulture classroom. Close to vehicle access for deliveries. Special Features: South or west exposure. Independent heating and ventilation system. Shade system, hose bibbs, floor drains with soil traps. Relite windows to Horticulture classroom.	Size: 2,400 SF. Location: Adjacent to vehicle access. Close to Horticulture classroom and land lab. Special Features: South or west exposure. Independent heating and ventilation system with computerized control from Horticulture office. Shade system, hose bibbs, floor drains with soil traps, laundry sink, and misting system. One computer station.
<b>Horticulture</b>	Size: 1,000 SF. Location: Adjacent to Horticulture Prep. Close to Greenhouse and vehicle access for deliveries. Special Features: Large sink with soil trap and work counter. Power for floral coolers.	Size: 1,200 SF. Location: Adjacent to Horticulture Prep and Storage rooms. Close to Greenhouse and vehicle access for deliveries. Special Features: Laminar flow hood, and large sink with soil trap and work counter. Power for floral coolers.
<b>Marketing</b>	Size: 900 SF. Location: Adjacent to Marketing office. Close to Student Store and Commons. Special Features: Relite window to Marketing office.	Size: 1,000 SF. Location: Adjacent to Marketing office. Close to Student Store and Commons. Special Features: Relite window to Marketing office.
<b>Music Ensemble</b>	Size: 300 SF. Location: Adjacent to corridor between Band and Orchestra rooms. Special Features: Acoustical isolation. Door with large vision panel.	Size: 350 SF. Location: Adjacent to corridor between Band and Orchestra rooms. Special Features: Acoustical isolation. 2 student computer stations. 3'-6" wide door with large vision panel.

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>Music Practice - Medium</b>	Size: 100 SF. Location: Two room, both adjacent to corridor between Band and Orchestra rooms. Special Features: Acoustical isolation. Large vision panel in door.	Size: 110 SF. Location: Two rooms, both adjacent to corridor between Band and Orchestra rooms. Special Features: Acoustical isolation. One computer station. Large vision panel in door.
<b>Music Practice - Small</b>	Size: 70 SF. Location: Two room, both adjacent to corridor between Band and Orchestra rooms. Special Features: Acoustical isolation. Large vision panel in door.	Size: 80 SF. Location: Two rooms, both adjacent to corridor between Band and Orchestra rooms. Special Features: Acoustical isolation. Large vision panel in door.
<b>Orchestra / Choral</b>	Size: 1,400 SF. Location: Adjacent to Music office and practice rooms. Close to vehicle access. Special features: Built-in sound system and instrument storage cabinets within room or in adjacent storage room.	Size: 1,600 SF. Location: Adjacent to vehicle access, Music office and practice rooms. Close to Music Library, restrooms and within an area that can be secured from rest of building. Special features: 3'-6" exterior door adjacent to vehicle access. Drinking fountain, built-in sound system, instrument storage cabinets and closets. Relite window to Music office.
<b>Science</b>	Size: 1,300 SF. Location: Seven classrooms with each adjacent to Science prep room. Close to Chemical storage room. Special Features: 7 student lab stations each with power, natural gas and shared sink. Two work sinks, eye wash, and demonstration cabinet with sink, power and natural gas at front of classroom. Fume hoods at three Science rooms used for chemistry. Lockable cabinet drawers for storage of student projects.	Size: 1,500 SF. Location: Seven classrooms with each adjacent to Science prep room. Close to Chemical Storage room. Special Features: 8 student lab stations each with power and data outlets, natural gas, and shared sink. Four work sinks, eye wash, and demonstration cabinet with sink, power and natural gas at front of classroom. Evacuation exhaust fan with manual timer. Fume hoods at three Science rooms used for chemistry. Lockable cabinet drawers for storage of student projects key to the building master key system.
<b>Silk Screen</b>	Size: 300 SF. Location: Adjacent to Visual Communications. Special Features: Sink and work counter. Silk screen washing area.	Size: 380 SF. Location: Adjacent to Visual Communications. Special Features: Relite window to Visual Communications classroom. Sink and work counter. Silk screen wash booth with exhaust fan. Eye wash.
<b>Sports Medicine</b>	Size: 900 SF. Location: Close to Training, Weight room, Locker rooms, Gyms, and athletic fields. Special Features: Two sinks and work counter.	Size: 980 SF. Location: Adjacent to Training room. Close to Weight room, Locker rooms, Gyms, and athletic fields. Special Features: Relite windows to Training room. Three sinks and work counter. High capacity ventilation system.
<b>Training</b>	Size: 500 SF. Location: Adjacent to corridor. Close to Sports Medicine, Locker rooms, Gyms, Weight room and athletic fields. Special Features: Relite window and door to corridor. Sink and work counter. Plumbing for two whirl pool tubs and ice maker. One teacher's work station.	Size: 750 SF. Location: Adjacent to corridor and Sports Medicine. Close to Locker rooms, Gyms, Weight room and athletic fields. Special Features: Relite windows and doors to corridor and Sports Medicine. Sink and work counter. Plumbing for two whirl pool tubs and ice maker. One teacher's work station.
<b>Video Lab</b>	Size: 200 SF. Location: Adjacent to Visual Communications. Special Features: Power and data for four student work stations.	Size: 240 SF. Location: Adjacent to Visual Communications. Special Features: Power and data for four student work stations.

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>Visual Communications</b>	<p>Size: 1,100 SF.                      Location: Adjacent to Darkroom, Video Room, Audio Room, Storage, and Silk Screen. Close to vehicle delivery access.                      Special Features: Six student computer stations. Sink and work counter.</p>	<p>Size: 1,300 SF.                      Location: Adjacent to Graphics Computer Lab, Darkroom, Storage, Video Room, Audio Room, and Silk Screen. Close to Art and vehicle delivery access.                      Special Features: No student computer stations in classroom. Relite window and door to Graphics computer lab. Sink and work counter.</p>
<b>LIBRARY</b>		
<b>Audio Visual Equipment</b>	<p>Size: 150 SF.                      Location: Adjacent to Library.                      Special Features: Easy access through Library from adjacent corridor.</p>	<p>Size: 180 SF.                      Location: Adjacent to Library.                      Special Features: Easy access through Library from adjacent corridor. 3'-6" wide entry door.</p>
<b>Group Study</b>	<p>Size: 120 SF                      Location: Adjacent to Library.                      Special Features: Relite window to Library.</p>	<p>Size: 160 SF                      Location: Adjacent to Library.                      Special Features: Relite window to Library. Power and data outlets for four computer stations and CATV outlet.</p>
<b>Reserve / Periodicals</b>	<p>Size: 220 SF.                      Location: Behind circulation desk and adjacent to Workroom or a combined room with Library Workroom.                      Special Features: Relite window to Library.</p>	<p>Size: 260 SF.                      Location: Behind circulation desk and adjacent to Workroom.                      Special Features: 3' - 6" wide door. Relite window to Library.</p>
<b>Study / Circulation</b>	<p>Size: 5,200 SF.                      Location: Central location. Adjacent to Group Study, Audio Visual, Reserve / Periodicals, and Library Workroom.                      Special Features: Two separate instruction areas with tables at opposites ends of room. Computer area with 24 stations, reading area, circulation counter, and 4 computerized search stations. Open shelving for 16,000 volumes.</p>	<p>Size: 5,600 SF.                      Location: Central location. Adjacent to Group Study, Audio Visual, Reserve / Periodicals, and Library Workroom.                      Special Features: Two separate instruction areas with tables at opposites ends of room. Computer area with 30 stations, reading area, and circulation counter, and 4 computerizes search stations. Up to 6' high shelving at perimeter of room and 4' high shelving at center of room for 18,000 volumes. Exterior windows.</p>
<b>LEARNING RESOURCE</b>		
<b>Library Workroom</b>	<p>Size: 240 SF.                      Location: Behind circulation desk. Adjacent to Reserve / Periodicals or a combined room with Reserve / Periodicals.                      Special Features: Relite windows and door to Library. Sink and work counter. Two staff workstations. Cable TV system head-end, recording and transmitting equipment.</p>	<p>Size: 280 SF.                      Location: Behind circulation desk and adjacent to Reserve / Periodicals.                      Special Features: Relite windows and door to Library. Sink and work counter. Two staff work stations. Cable TV system head-end, recording and transmitting equipment.</p>
<b>PHYSICAL EDUCATION TEACHING STATION</b>		
<b>Auxiliary Gym</b>	<p>Size: 10,700 SF                      Location: Adjacent to Sound System closet, corridor or lobby. Close to Main Gym, Weight room, P.E. Storage, Locker rooms, Concession, event parking, and vehicle access. Within community access zone.                      Special Features: Wood floor, retractable motorized bleachers for 300, motorized retractable or side-swing basketball backboards, divider curtain to separate gym in half, power volleyball standards for two courts, gymnastics equipment anchors, sound system, 20' high ceiling, scoreboards and 30-second clocks.</p>	<p>Size: 12,400 SF                      Location: Adjacent Sound System closet, corridor or lobby. Close to Main Gym, Weight room, P.E. Storage, Locker rooms, Concession, event parking, and vehicle access. Within community access zone.                      Special Features: Wood floor, retractable ADA compliant motorized bleachers for 300, motorized retractable or side-swing basketball backboards, two divider curtains to separate gym in three sections, power volleyball standards for three courts, gymnastics equipment anchors, sound system, 23' high ceiling, scoreboards and 30-second clocks.</p>



# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>Boy's Locker</b>	<p>Size: 1,600 SF.                      Location: Adjacent to PE Office, Men's Staff Locker Room, showers, restroom, and building exterior. Close to athletic fields, Training Room, Weight Room, and Main and Auxiliary Gyms.                      Special Features: 650 box lockers, 120 half-height lockers. Relite windows between office and locker area.</p>	<p>Size: 1,700 SF.                      Location: Adjacent to PE Office, Men's Staff Locker Room, showers, restroom, and building exterior. Close to athletic fields, Sports Medicine, Training Room, Weight Room, Laundry, and Main and Auxiliary Gyms.                      Special Features: Direct access to Main Gym. 700 box lockers, 140 half-height lockers. Relite windows between office and locker area.</p>
<b>Boy's Locker Restroom</b>	<p>Size: 240 SF.                      Location: Adjacent to Locker room.                      Special Requirements: 4 urinals, 2 water closets, 3 sinks, and visual link to Locker room.</p>	<p>Size: 270 SF.                      Location: Adjacent to Locker room.                      Special Requirements: 4 urinals, 3 water closets, 3 sinks, and visual link to Locker room.</p>
<b>Boy's Locker Shower</b>	<p>Size: 260 SF.                      Location: Adjacent to Locker Room.                      Special Features: 8 shower heads plus privacy shower, drying area, and visual link to Locker room.</p>	<p>Size: 280 SF.                      Location: Adjacent to Locker Room.                      Special Features: 10 shower heads plus ADA compliant privacy shower, drying area, and visual link to Locker room.</p>
<b>Girl's Locker</b>	<p>Size: 1,600 SF.                      Location: Adjacent to PE Office, Women's Staff Locker Room, showers, restroom, and building exterior. Close to athletic fields, Training Room, Weight Room, and Main and Auxiliary Gyms.                      Special Features: 650 box lockers, 120 half-height lockers. Relite windows between office and locker area.</p>	<p>Size: 1,700 SF.                      Location: Adjacent to PE Office, Women's Staff Locker Room, showers, restroom, and building exterior. Close to athletic fields, Sports Medicine, Training Room, Weight Room, Laundry, and Main and Auxiliary Gyms.                      Special Features: Direct access to Main Gym. 700 box lockers, 140 half-height lockers. Relite windows between office and locker area.</p>
<b>Girl's Locker Restroom</b>	<p>Size: 240 SF.                      Location: Adjacent to Locker room.                      Special Requirements: 6 water closets, 3 sinks, and visual link to Locker room.</p>	<p>Size: 270 SF.                      Location: Adjacent to Locker room.                      Special Requirements: 7 water closets, 3 sinks, and visual link to Locker room.</p>
<b>Girl's Locker Shower</b>	<p>Size: 260 SF.                      Location: Adjacent to Locker Room.                      Special Features: 8 shower heads plus privacy shower, drying area, and visual link to Locker room.</p>	<p>Size: 280 SF.                      Location: Adjacent to Locker Room.                      Special Features: 10 shower heads plus ADA compliant privacy shower, drying area, and visual link to Locker room.</p>
<b>Main Gym</b>	<p>Size: 12,800 SF                      Location: Adjacent to Locker rooms, P. E. and Assembly storage, corridor or lobby. Close to Auxiliary Gym, Weight room, Concession, event parking, and vehicle access. Within community access zone.                      Special Features: Wood floor, retractable motorized bleachers for 1,500, motorized retractable or side-swing basketball backboards, divider curtain to separate gym in half, power volleyball standards for 3 courts, gymnastics equipment anchors, sound system, 20' high ceiling, two scoreboards and two 30-second clocks.</p>	<p>Size: 13,200 SF                      Location: Adjacent to Locker rooms, P. E. and Assembly storage, corridor or lobby. Close to Auxiliary Gym, Weight room, Concession, event parking, and vehicle access. Within community access zone.                      Special Features: Wood floor, ADA compliant retractable motorized bleachers for 1,600, motorized retractable or side-swing basketball backboards, divider curtain to separate gym in half, power volleyball standards for 3 courts, gymnastics equipment anchors, sound system, large motorized projection screen with protective enclosure, 23' high ceiling, two scoreboards and four 30-second clocks.</p>
<b>Weight Room</b>	<p>Size: 1,800 SF.                      Location: Close to Locker rooms, Training, drinking fountains, and Main and Auxiliary Gyms.                      Special Features: Free weight and conditioning equipment, rubber floor surface, mirrors at free weight area, power and data for teacher's work station, and high capacity ventilation system.</p>	<p>Size: 2,200 SF.                      Location: Close to Locker Rooms, Sports Medicine, Training, and Main and Auxiliary Gyms.                      Special Features: Free weight and conditioning equipment, rubber floor surface, mirrors at free weight area, power and data for teacher's work station, high capacity ventilation system, CATV outlet, relite windows to corridor, and drinking fountains.</p>

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>ASSEMBLY</b>		
<b>Commons Sound System</b>	Size: 40 SF. Location: Adjacent to Commons. Special Features: Location for sound system rack.	Size: 50 SF. Location: Adjacent to Commons. Special Features: Location for sound system rack.
<b>Commons Storage</b>	Size: 100 SF. Location: Adjacent to Commons. Special Features: 3'-6" wide door.	Size: 120 SF. Location: Adjacent to Commons. Close to exterior door. Special Features: Double door without mullion. Protective wainscot at walls.
<b>Stage</b>	Size: 1,100 SF. Location: Part of Theater. Adjacent to Theater Workroom. Close to Control Booth, Technician's office, Drama classroom, Theater storage, and vehicle access. Special Features: Proscenium opening to Theater. Resilient wood floor, stage drapery, motorized projection screen, winch powered stage rigging, stage manager's control panel, and microphone, data, power and CATV outlets in floor box at front of stage.	Size: 1,500 SF. Location: Part of Theater. Adjacent to Theater Workroom. Close to Control Booth, Technician's office, Drama classroom, Theater storage, and vehicle access. Special Features: Proscenium opening to Theater. Resilient wood floor, stage drapery, motorized projection screen, winch powered stage rigging, stage manager's control panel, stage extension system at front of stage, and microphone, data, power and CATV outlets in floor box at front of stage.
<b>Theater Seating</b>	Size: 3,600 SF. Location: Connected to Stage. Adjacent to Control Booth, and corridor or lobby. Close to Concession, Drama classroom and office, Drama storage, music classrooms, and event parking. Special Features: Theater seating for 400, overhead lighting catwalk, stage lighting and sound systems.	Size: 3,900 SF. Location: Connected to Stage. Adjacent to Control Booth, and corridor or lobby. Close to Concession, Drama classroom and office, Drama storage, music classrooms, and event parking. Special Features: Theater seating for 400, two overhead lighting catwalks, stage lighting and sound systems, ADA compliant access to Stage.
<b>Theater Control Booth</b>	Size: 200 SF. Location: Adjacent to Theater. Special Features: Sliding window with full view of Stage. Location for lighting and sound controls boards and equipment.	Size: 300 SF. Location: Adjacent to Theater. Special Features: Sliding window with full view of Stage. Location for lighting and sound controls boards and equipment. Supplemental track lighting at ceiling.
<b>Technician's Office</b>	Size: 80 SF. Location: Adjacent to or part of Theater Workroom. Close to Stage, Drama classroom and Theater storage. Special Features: Connected to Theater communication system.	Size: 100 SF. Location: Adjacent to Theater Workroom. Close to Stage, Drama classroom and Theater storage. Special Features: Relite windows to Theater Workroom and connected to Theater communication system.
<b>Theater Storage</b>	Size: 240 SF. Location: Adjacent to Theater Workroom. Special Features: 3'-6" wide door, 12' high ceiling, and protective wainscot on walls.	Size: 400 SF. Location: Adjacent to Theater Workroom. Special Features: Double door without mullion, 12' high ceiling, and protective wainscot on walls.
<b>Theater Workroom</b>	Size: 500 SF. Location: Adjacent to Stage, Technician's Office and Theater Storage, and exterior vehicle access. Close to Drama classroom. Special Features: Roll up door to Stage. Pedestrian and overhead exterior door to vehicle access. Relite windows to Technician's office.	Size: 600 SF. Location: Adjacent to Stage, Technician's Office and Theater Storage, and exterior vehicle access. Close to Drama classroom. Special Features: Double 3' wide x 10' high doors without mullion to Stage. Pedestrian and overhead exterior door to vehicle access. Relite windows to Technician's office.
<b>SERVICE AND SUPPORT</b>		

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>Auxiliary Gym - Sound System Closet</b>	None.	Size: 70 SF. Location: Adjacent to Auxiliary Gym. Special Features: Location for sound system rack and rack for power volley ball poles.
<b>Clothing / Child Development - Dressing</b>	Size: 40 SF. Location: Adjacent to Clothing classroom. Special Features: Full length mirror and coat hooks on wall.	Size: 60 SF. Location: Adjacent to Clothing classroom. Special Features: Full length mirror and coat hooks on wall.
<b>Construction / Manufacturing - Drying</b>	Size: 120 SF. Location: Adjacent to Construction / Manufacturing. Special Features: Relite window to Construction / Manufacturing. Independent exhaust system with manual bypass timer.	Size: 140 SF. Location: Adjacent to Construction / Manufacturing. Special Features: Relite window to Construction / Manufacturing. Independent exhaust system with manual bypass timer.
<b>Drama - Dressing</b>	Size: 60 SF. Location: Two separate dressing rooms, each adjacent to Drama classroom and restroom. Special Features: Full height mirror and coat hooks on wall.	Size: 60 SF. Location: Two separate dressing rooms, each adjacent to Drama classroom and restroom. Special Features: Full height mirror and coat hooks on wall.
<b>Drama - Restroom</b>	Size: 60 SF. Location: Two separate restrooms, each adjacent to a Drama dressing room. Special Features: Water closet, sink and high capacity exhaust fan with manual bypass timer.	Size: 60 SF. Location: Two separate restrooms, each adjacent to a Drama dressing room. Special Features: Water closet, sink and high capacity exhaust fan with manual bypass timer.
<b>Horticulture Prep</b>	Size: 140 SF. Location: Adjacent to Horticulture classroom. Close to Greenhouse and Horticulture storage. Special Features: Relite windows to Horticulture classroom. Power and data for teacher's station.	Size: 160 SF. Location: Adjacent to Horticulture classroom. Close to Greenhouse and Horticulture storage. Special Features: Relite windows to Horticulture classroom. Exterior window with visual link to Greenhouse. Location for Greenhouse temperature control computer. Power and data for teacher's station.
<b>Kiln</b>	Size: 80 SF. Location: Adjacent to 3-D Art room. Special Features: 2 kilns with exhaust hood. Relite windows to Art classroom.	Size: 110 SF. Location: Adjacent to 3-D Art room. Special Features: Two kilns each with down draft exhaust system, overhead exhaust fan, and relite window to Art classroom.
<b>Music Library</b>	None.	Size: 180 SF. Location: Close to Music office, Band, Orchestra / Choral classrooms. Special Features: Designed to efficiently accommodate file cabinets.
<b>Science Prep Room - Large</b>	Size: 280 SF. Location: Between two Science classrooms. Special Features: Doors to Science classrooms. Emergency shower and floor drain. Exhaust system.	Size: 310 SF. Location: Between two Science classrooms. Special Features: Doors with relite windows to Science classrooms. Emergency shower and floor drain. Exhaust system.
<b>Science Prep Room - Small</b>	Size: 180 SF. Location: Adjacent to one Science classroom. Special Features: Door with to Science classroom. Emergency shower and floor drain.	Size: 200 SF. Location: Adjacent to one Science classroom. Special Features: Doors with relite windows to Science classrooms. Emergency shower and floor drain.
<b>Special Education - Restroom</b>	Size: 50 SF Location: Adjacent to Special Education classroom. Special Features: ADA compliant with exhaust fan.	Size: 70 SF Location: Adjacent to Special Education classroom. Special Features: ADA compliant with oversized exhaust fan with manual bypass timer.

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>Special Education - Testing</b>	Size: 60 SF Location: Two testing rooms, each adjacent to Special Education classroom. Special Features: Door and relite windows to Special Education classroom with protective wainscot at walls. One computer station.	Size: 80 SF Location: Two testing rooms, each adjacent to Special Education classroom. Special Features: Door and relite windows to Special Education classroom with protective wainscot at walls. Two computer stations.
<b>Storage - Art</b>	Size: 300 SF Location: Adjacent to 3-D Art room. Close to 2-D Art room. Special Features: Relite window in door.	Size: 400 SF Location: Adjacent to 2-D and 3-D Art rooms. Special Features: Doors to 2-D and 3-D Art rooms. Location for oxygen and acetylene tanks with piping to solder table. Relite window in doors.
<b>Storage - Athletic Teams</b>	Size: 1,000 SF. Location: Close to Gyms and Locker rooms. Special Features: Cabinets and chain link enclosures for storage of individual team equipment.	Size: 1,200 SF. Location: Within Field House. Close to Gyms and Locker rooms. Special Features: Cabinets and chain link enclosures for storage of individual team equipment.
<b>Storage - Band Equipment / Uniforms</b>	Size: 300 SF. Location: Adjacent to Band room. Close to Orchestra / Choral, corridor and vehicle access. Special Features: Double doors without mullion. Protective wainscot at walls.	Size: 400 SF. Location: Adjacent to Band room. Close to Orchestra / Choral, corridor and vehicle access. Special Features: Double doors without mullion. Protective wainscot at walls.
<b>Storage - Band Instruments</b>	Size: 60 SF. Location: Two rooms both within Band room. Special Features: Double doors without mullions. Protective wainscot a walls.	Size: 70 SF. Location: Two rooms both within Band room. Special Features: Double doors without mullions. Protective wainscot a walls.
<b>Storage - Career Center</b>	Size: 30 SF. Location: Adjacent to Career Center. Special Features: None.	Size: 60 SF. Location: Adjacent to Career Center. Special Features: None.
<b>Storage - Construction / Manufacturing Material</b>	Size: 280 SF. Location: Adjacent to Construction / Manufacturing or fenced off area within Construction / Manufacturing. Close to exterior door and vehicle delivery access. Special Features: Protective surface at walls.	Size: 320 SF. Location: Adjacent to Construction / Manufacturing. Close to exterior door and vehicle delivery access. Special Features: Double doors without mullion. Protective surface at walls.
<b>Storage - Electronics / Computer Networking</b>	Size: 70 SF. Location: Adjacent to Electronics. Special Features: None.	Size: 110 SF. Location: Adjacent to Electronics. Special Features: Relite window in door.
<b>Storage - Gym Assembly</b>	Size: 60 SF. Location: Adjacent to Main Gym. Special Features: Location for Main Gym sound system rack.	Size: 80 SF. Location: Adjacent to Main Gym. Special Features: Location for Main Gym sound system rack. Protective wainscot on walls.
<b>Storage - Gym Equipment</b>	Size: 200 SF. Location: Adjacent to Main Gym. Close to Auxiliary Gym and corridor access. Special Features: 3'-6" wide door. Protective wainscot at walls.	Size: 220 SF. Location: Adjacent to Main and Auxiliary Gyms. Special Features: Double doors without mullions to Main and Auxiliary Gyms. Protective wainscot at walls.
<b>Storage - Horticulture Equipment</b>	Size: 100 SF. Location: Adjacent to exterior. Close to Horticulture. Special Features: Exterior door. High capacity ventilation system.	Size: 120 SF. Location: Adjacent to exterior and Horticulture classroom. Special Features: Doors to exterior and Horticulture classroom. High capacity ventilation system.
<b>Storage - Instructional Material</b>	Size: 160 SF. Location: Centrally located. Close to corridor and general classrooms. Special Features: None.	Size: 180 SF. Location: Centrally located. Adjacent to corridor. Close general classrooms. Special Features: None.

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>Storage - Music Sound Equipment</b>	Size: 70 SF. Location: Adjacent to Orchestra / Choral. Special Features: Double doors without mullion.	Size: 80 SF. Location: Adjacent Orchestra / Choral. Special Features: Double doors without mullion.
<b>Storage - Orchestra / Choral Uniforms</b>	None.	Size: 40 SF. Location: Adjacent to Orchestra / Choral. Special Requirements: Two sets of double doors without mullions.
<b>Storage - P. E.</b>	Size: 260 SF. Location: Adjacent to Main Gym. Close to Auxiliary Gym. Special Features: 3'-6" wide door. Protective wainscot at walls.	Size: 280 SF Location: Between Main and Auxiliary Gyms. Special Features: 3'-6" doors to Main and Auxiliary Gyms. Protective wainscot at walls.
<b>Storage - Science Chemicals</b>	Size: 140 SF. Location: Adjacent to Science Prep room. Special Features: Acid and flammable storage cabinets. Exhaust system.	Size: 160 SF. Location: Adjacent to Science Prep room. Special Features: Acid and flammable storage cabinets. High capacity exhaust system.
<b>Storage - Visual Communications</b>	Size: 90 SF. Location: Adjacent to Visual Communications. Special Requirements: Relite window in door.	Size: 110 SF. Location: Adjacent to Visual Communications. Close to corridor. Special Requirements: Relite window in door.
<b>STUDENT SERVICES</b>		
<b>Career Center</b>	Size: 700 SF. Location: Adjacent to Career Counselor and Storage room. Close to front of building. Within community access zone. Special Requirements: Relite window to Career Counselor's office. Study area with tables for 16 students. 8 student computer stations and one teacher station.	Size: 1,100 SF. Location: Adjacent to Career Counselor and Storage room. Close to front of building. Within community access zone. Special Requirements: Relite window to Career Counselor's office. Study area with tables for 24 students. 15 student computer stations and one teacher's station.
<b>Career Counselor</b>	Size: 90 SF. Location: Adjacent to Career Center. Special Features: Relite window to Career Center.	Size: 110 SF. Location: Adjacent to Career Center. Special Features: Relite window to Career Center.
<b>Concession</b>	Size: 160 SF. Location: Adjacent to corridor or lobby. Close to Gyms. Within community access zone. Special Features: Three compartment sink, roll up door at serving counter, power for pop corn machine.	Size: 200 SF. Location: Adjacent to Concession storage, corridor or lobby. Close to Gyms and Theater. Within community access zone. Special Features: Three compartment sink, roll up door at serving counter, power for pop corn machine, hot water dispenser, and one computer station.
<b>Counselor</b>	Size: 110 SF Location: Four adjacent offices adjacent to corridor in Counseling area. Close to main entry. Special Features: Relite window to corridor.	Size: 130 SF Location: Four adjacent offices adjacent to corridor in Counseling area. Close to main entry. Special Features: Relite window to corridor.
<b>Health Room</b>	Size: 200 SF Location: Adjacent to Counseling secretary area and Health restroom. Close to Nurse's office. Special Features: Sink and 6 LF work counter. Visible connection to Counseling secretary area. Exhaust fan.	Size: 220 SF Location: Adjacent to Counseling secretary's area, Health restroom, and Nurse's office. Special Features: Relite window to Counseling secretary's area and Nurse's room. Plumbing for under-counter ice machine. High capacity exhaust fan with manual bypass timer.
<b>Health Restroom</b>	Size: 50 SF Location: Adjacent to Health room. Special Features: ADA compliant with exhaust fan.	Size: 70 SF Location: Adjacent to Health room. Special Features: ADA compliant with high capacity exhaust fan with manual bypass timer.

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>Storage - Concession</b>	None.	Size: 50 SF. Location: Adjacent to Concession. Special Features: Direct access from Concession.
<b>Storage - Student Store</b>	Size: 140 SF Location: Adjacent Student Store. Close to corridor and Cafeteria / Commons. Special Features: Relite window in door to Student Store.	Size: 160 SF Location: Adjacent Student Store and corridor. Close to Cafeteria / Commons. Special Features: Relite window in door to Student Store. Protective wainscot on walls.
<b>Student Store</b>	Size: 320 SF Location: Adjacent to corridor. Close to Cafeteria / Commons. Special Features: Serving counter with roll-up counter door. Sink and work counter. Power for coolers and freezers. Three point-of-sale stations. High capacity ventilation system.	Size: 360 SF Location: Adjacent to wide corridor area. Close to Cafeteria / Commons. Special Features: Serving counter with roll-up counter doors. Three-compartment sink, instant hot water tap, plumbing for espresso machine. Power for coolers, freezers, and warming ovens. Four point-of-sale stations. Conduit for camera surveillance system. High capacity ventilation system.
<b>OFFICE SPACE</b>		
<b>Activities Director</b>	Size: 140 SF. Location: Adjacent to Activities / Athletic Secretary and Athletic Director. Close to Main office, Bookkeeper, and Activities Storage. Special Requirements: Relite window to corridor or Activities / Athletic Secretary.	Size: 160 SF. Location: Adjacent to Activities / Athletic Secretary and Athletic Director. Close to Main office, Bookkeeper, and Activities Storage. Special Requirements: Relite window to corridor or Activities / Athletic Secretary. Surveillance camera system monitoring station.
<b>Activities / Athletics Secretary</b>	Size: 200 SF. Location: Adjacent to Activities Director, Athletic Director, and main corridor. Close to Activities Storage, Bookkeeper and Main office. Special Features: Reception area and reception counter. Power and data outlets for two staff work stations.	Size: 260 SF. Location: Adjacent to Activities Director, Athletic Director, and main corridor. Close to Activities Storage, Bookkeeper and Main office. Special Features: Cashier's window to corridor. Reception area and reception counter. Pass through window to Bookkeeper. Two staff work stations.
<b>Athletic Director</b>	Size: 140 SF. Location: Adjacent to Activities / Athletic Secretary and Activities Director. Close to Main office, Bookkeeper, and Activities Storage. Special Requirements: Relite window to corridor or Activities / Athletic Secretary.	Size: 160 SF. Location: Adjacent to Activities / Athletic Secretary and Activities Director. Close to Main office, Bookkeeper, and Activities Storage. Special Requirements: Relite window to corridor or Activities / Athletic Secretary. Surveillance camera system monitoring station.
<b>Assistant Principal</b>	Size: 140 SF. Location: Two adjacent offices in Main Office area. Close to Principal and Conference room. Special Features: Relite window to corridor or Main Office area.	Size: 160 SF Location: Three adjacent offices in Main Office area. Close to Principal and Conference room. Special Features: Relite window to corridor or Main Office area. Surveillance camera system monitoring station.
<b>Attendance - Secretary</b>	Size: 400 SF. Location: Adjacent to Attendance reception area and Dean of Students. Close to main corridor, Security office, Counselors and Conference room. Special Features: Reception counter with work stations for student aides. Work stations for two secretaries and one adult aid. Relite windows to main corridor and Dean of Students.	Size: 460 SF. Location: Adjacent to Attendance reception area and Dean of Students. Close to main corridor, Security office, Counselors and Conference room. Special Features: Reception counter with work stations for student aides. Work stations for two secretaries and one adult aid. Relite windows to main corridor and Dean of Students.

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>Attendance - Reception</b>	Size: 200 SF. Location: Adjacent to main corridor and Attendance Secretary area. Close to main building entry, Counselors and Main office. Special Features: Relite windows to main corridor.	Size: 240 SF. Location: Adjacent to main corridor and Attendance Secretary area. Close to main building entry, Counselors and Main office. Special Features: Relite windows to main corridor.
<b>Bookkeeper</b>	Size: 140 SF. Location: Adjacent to main corridor. Close to Main office, Activities / Athletics Secretary, and main building entry. Special Features: Cashier's window to main corridor for two stations. Two point of sale stations and one staff work station.	Size: 160 SF. Location: Adjacent to main corridor and Mail room. Close to Main office, Activities / Athletics Secretary, and main building entry. Special Features: Cashier's window to main corridor for two stations. Two point of sale stations and one staff work station. Pass through window to Activities / Athletics Secretary.
<b>Conference Room - Counseling - Large</b>	Size: 280 SF. Location: Adjacent to Counseling area. Close to Attendance. Special Features: Relite window to Counseling area.	Size: 320 SF. Location: Adjacent to Counseling area. Close to Attendance. Special Features: Relite window to Counseling area.
<b>Conference Room - Main Office - Large</b>	Size: 280 SF. Location: Adjacent to Main Office area. Special Features: Relite window to Main Office area.	Size: 320 SF. Location: Adjacent to Main Office area. Special Features: Relite window to Main Office area.
<b>Conference Room - Main Office - Small</b>	Size: 140 SF Location: Two small Conference rooms in Main Office area. Special Features: Relite window to Main Office area.	Size: 160 SF Location: Two small Conference rooms in Main Office area. Special Features: Relite window to Main Office area.
<b>Construction / Manufacturing Office</b>	Size: 80 SF. Location: Adjacent to Construction / Manufacturing. Special Features: Relite window to Construction / Manufacturing.	Size: 100 SF. Location: Adjacent to Construction / Manufacturing. Special Features: Relite window to Construction / Manufacturing. Two staff work stations.
<b>Counseling - Reception</b>	Size: 140 SF. Location: Adjacent to main corridor and Counseling Secretary area. Close to main building entry, Health room, Registrar, Counselors and Main office. Special Features: Relite windows to main corridor.	Size: 160 SF. Location: Adjacent to main corridor and Counseling Secretary area. Close to main building entry, Health room, Registrar, Counselors and Main office. Special Features: Relite windows to main corridor.
<b>Counseling Secretary</b>	Size: 300 SF. Location: Adjacent to Counseling reception area, Health room, Registrar and Counselors. Close to main corridor, main building entry, and Conference room. Special Features: Reception counter with work stations for student aides. Work station for secretary. Relite windows to main corridor, Health room, Counselors, and Registrar.	Size: 340 SF. Location: Adjacent to Counseling reception area, Health room, Registrar and Counselors. Close to main corridor, main building entry, and Conference room. Special Features: Reception counter with work stations for student aides. Work station for secretary. Relite windows to main corridor, Health room, Counselors, and Registrar.
<b>Dean of Students</b>	Size: 140 SF. Location: Adjacent to Attendance area. Close to Counselors, Security office and Conference room . Special Features: Relite window to Attendance area.	Size: 160 SF. Location: Adjacent to Attendance area. Close to Counselors, Security office and Conference room . Special Features: Relite window to Attendance area. Surveillance camera system monitoring station.
<b>Drama Office</b>	None.	SF: 100 SF. Location: Adjacent to Drama classroom. Special Features: Relite window to Drama classroom.
<b>Mail Room</b>	Size: 200 SF. Location: Adjacent to main corridor, Main Office Workroom, and Main Office. Special Features: 140 pass through tote tray mail boxes.	Size: 240 SF. Location: Adjacent to main corridor, Main Office Workroom, and Main Office. Special Features: 160 pass through tote tray mail boxes.

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>Mail Room - Receiving</b>	None.	Size: 30 SF. Location: Adjacent to Mail Room. Close to Bookkeeper's and Main Offices. Special Features: Alcove without door that is open to Mail Room.
<b>Main Office - Reception</b>	Size: 160 SF Location: Adjacent to main building entry and Main office Secretary area. Special Features: Relite windows to front entry foyer.	Size: 200 SF Location: Adjacent to main building entry, Main office Secretary area, and Lost and Found. Special Features: Relite windows to front entry foyer.
<b>Main Office - Secretary</b>	Size: 650 SF Location: Adjacent to Main Office Workroom and reception area, Principal, Assistant Principals, and Conference rooms. Close to Counseling and Attendance. Special Features: Work stations for office manager and two secretaries. Reception counter with student work stations. Relite window to main building entry foyer, Assistant Principal's office, and Conference rooms.	Size: 700 SF Location: Adjacent to Main Office Workroom and reception area, Principal, Assistant Principals, Conference rooms, and Lost and Found. Close to Commons, Counseling, Attendance, and Special Education areas. Special Features: Work stations for office manager and two secretaries. Reception counter with student work stations. Relite window to main building entry foyer, Assistant Principal's office, and Conference rooms.
<b>Maintenance Office</b>	Size: 160 SF. Location: Adjacent to corridor. Close to exterior delivery area. Special Features: Sink and work counter. Location for EMS computer.	Size: 180 SF. Location: Adjacent to corridor. Close to Maintenance storage, Receiving, and exterior delivery area. Special Features: Sink and work counter. Location for EMS computer, HVAC bypass timers, fire alarm and security panels.
<b>Marketing Office</b>	Size: 100 SF. Location: Adjacent to Marketing classroom. Close to Student Store. Special Features: Relite window to Marketing Classroom. Outlet for point-of-sale station and computer.	Size: 120 SF. Location: Adjacent to Marketing classroom. Close to Student Store. Special Features: Relite window to Marketing Classroom. Outlet for point-of-sale station and computer. Conduit for camera surveillance system in Student Store.
<b>Music Office</b>	Size: 240 SF. Location: Between Band and Orchestra / Choral rooms. Close to Practice rooms. Special Features: Relite windows to Band and Orchestra / Choral rooms. Acoustical isolation. Power and data outlets for three workstations.	Size: 260 SF. Location: Between Band and Orchestra / Choral rooms. Adjacent to corridor serving Practice rooms. Special Features: Relite windows to Band room, and Orchestra / Choral room, and corridor to Practice rooms. Acoustical isolation. Three staff workstations.
<b>Nurse</b>	Size: 120 SF. Location: Adjacent to Health room. Special Features: Relite window to Health room.	Size: 150 SF Location: Adjacent to Health room. Special Features: Work stations for Nurse and Health room aide with relite window to Health room.
<b>OT / PT / Psychologist</b>	Size: 220 SF. Location: Adjacent to corridor and Special Education area. Close Main office. Special Requirements: Ceiling hook.	Size: 260 SF. Location: Adjacent to corridor. Close to Special Education area and Main office. Special Requirements: Ceiling hook with wall padding close to ceiling hook area.
<b>P. E. Office - Men</b>	Size: 160 SF. Location: Adjacent to Boy's Locker room. Close to Staff Locker room. Special Features: Relite window with visual link to locker area. Three teacher's work stations.	Size: 180 SF. Location: Adjacent to Boy's Locker room. Close to Staff Locker room. Special Features: Relite window with visual link to locker area. Three teacher's work stations.



# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>P. E. Office - Women</b>	Size: 160 SF. Location: Adjacent to Girl's Locker room. Close to Staff Locker room. Special Features: Relite window with visual link to locker area. Three teacher's work stations.	Size: 180 SF. Location: Adjacent to Girl's Locker room. Close to Staff Locker room. Special Features: Relite window with visual link to locker area. Three teacher's work stations.
<b>P. E. Staff Locker - Men</b>	Size: 200 SF. Location: Adjacent to Men's Locker room. Special Features: 16 lockers, shower stall, water closet, urinal and sink.	Size: 260 SF. Location: Adjacent to Men's Locker room. Special Features: ADA compliant with 20 lockers, shower stall, water closet, urinal and sink.
<b>P. E. Staff Locker - Women</b>	Size: 200 SF. Location: Adjacent to Women's Locker room. Special Features: 16 lockers, shower stall, water closet, and sink.	Size: 260 SF. Location: Adjacent to Women's Locker room. Special Features: ADA compliant with 20 lockers, shower stall, water closet and sink.
<b>Planning Office</b>	Size: 180 SF. Location: Two offices, each adjacent to corridor and distributed throughout classroom areas. Special Features: Six staff work stations.	Size: 220 SF. Location: Three offices, each adjacent to corridor and distributed throughout classroom areas. Special Features: Six staff work stations.
<b>Principal</b>	Size: 230 SF Location: Adjacent to Main office area. Special Features: Relite window to Main office area.	Size: 250 SF Location: Adjacent to Main office area. Special Features: Relite window to Main office area. Power and data outlets at two locations for optional test location. Surveillance cameral monitoring station. <i>Visual link to front entry</i>
<b>Registrar</b>	Size: 170 SF. Location: Adjacent to Counseling Secretary area. Close to Counselors. Special Features: Reception counter. Power and data outlets for two staff work stations.	Size: 200 SF. Location: Adjacent to Counseling Secretary area. Close to Counselors. Special Features: Reception counter. Two staff work stations.
<b>Security Office</b>	Size: 100 SF. Location: Adjacent to Main Office or Attendance area. Special Features: Relite window to corridor or adjacent office area. Surveillance camera computer and monitoring station.	Size: 120 SF. Location: Adjacent to Attendance area. Special Features: Relite window to corridor or Attendance area. Surveillance camera computer and monitoring station.
<b>Special Education Office</b>	Size: 200 SF. Location: Adjacent to Special Education classrooms. Special Features: Relite windows to corridor or Special Education classrooms. Power and data for teacher's station.	Size: 240 SF. Location: Adjacent to Special Education classrooms. Special Features: Relite windows to corridor or Special Education classrooms. Two teacher's work stations.
<b>Storage - Activities</b>	Size: 60 SF. Location: Close to Activities / Athletics area. Special Features: None.	Size: 90 SF. Location: Adjacent to Activities / Athletics Secretary area. Special Features: None.
<b>Storage - Records</b>	Size: 100 SF. Location: Adjacent to Main office area. Special Requirements: Location for key cabinet.	Size: 200 SF. Location: Adjacent to Main office area. Special Requirements: Location for key cabinet.
<b>Work Experience Coordinator</b>	Size: 100 SF. Location: Centrally located. Adjacent to corridor. Special Features: Relite window to corridor.	Size: 120 SF. Location: In Main Office or Counseling area. Special Features: Relite window to corridor or adjacent office area.
<b>Workroom - Main Office</b>	Size: 200 SF. Location: Adjacent to Main Office and Mail room. Special Features: 140 pass through tote tray mail boxes. Sink and work counter. Power for copy machine. Telephone outlet for fax machine.	Size: 240 SF. Location: Adjacent to Main Office and Mail room. Special Features: 160 pass through tote tray mail boxes. Sink and work counter. Power and data outlets for networked copy machine. Telephone outlet for fax machine.

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>Workroom - Staff</b>	Size: 300 SF Location: Centrally located. Special Features: Power for 2 high capacity copy machines.	Size: 360 SF Location: Centrally located. Special Features: Power and data outlets for 2 high capacity, networked copy machines. High capacity ventilation system to accommodate heat load from laminator and copy machines.
<b>CAFETERIA / FOOD SERVICE</b>		
<b>Commons</b>	Size: 7,000 SF. Location: Adjacent to front entry lobby, main corridor, Commons Storage, Commons Sound System room, Kitchen and Serving area, and exterior courtyard. Close to Main Office, Student Store, and vending machine area. Within community access zone. Special Features: Sound system and drinking fountains.	Size: 8,500 SF. Location: Adjacent to front entry lobby, main corridor, Commons Storage, Commons Sound System room, Kitchen and Serving area, and exterior courtyard. Close to Main Office, Student Store, and vending machine area. Within community access zone. Special Features: Sound system and drinking fountains. Accommodations for 6 computer stations.
<b>Kitchen</b>	Size: 1,300 SF Location: Centrally located. Adjacent to Kitchen Office, Serving area, Cooler, Freezer, Scullery, Storage, Custodial room, and exterior delivery area. Close to dumpsters. Special Features: Full service teaching Kitchen with student and staff lockers and quarry tile floor.	Size: 1,600 SF Location: Centrally located. Adjacent to Kitchen Office and Restroom, Serving area, Cooler, Freezer, Scullery, Storage, Custodial room, fine dining area within Commons, and exterior delivery area. Close to dumpsters. Special Features: Full service teaching Kitchen plus fine dining cooking, wait station, student and staff lockers, and quarry tile floor.
<b>Kitchen Custodial</b>	Size: 60 SF. Location: Adjacent to Kitchen. Special Features: Mop sink, quarry tile floor and exhaust fan.	Size: 60 SF. Location: Adjacent to Kitchen. Special Features: Mop sink, quarry tile floor and exhaust fan.
<b>Kitchen Lockers</b>	Size: 70 SF. Location: Adjacent to Kitchen. Special Features: 16 lockers 18" H x 12" W x 12" D and 4 full height lockers. Quarry tile floor.	Size: 80 SF. Location: Adjacent to Kitchen. Special Features: 20 lockers 18" H x 12" W x 12" D and 4 full height lockers. Quarry tile floor.
<b>Kitchen Office</b>	Size: 140 SF. Location: Adjacent to Kitchen. Special Features: Relite window to Kitchen. Two staff work stations and one Meal Time outlet.	Size: 140 SF. Location: Adjacent to Kitchen. Special Features: Relite window to Kitchen. Two staff work stations and one Meal Time outlet.
<b>Kitchen Restroom</b>	None.	Size: 60 SF. Location: Adjacent to Kitchen. Special Features: ADA compliant with water closet and sink.
<b>Kitchen Scullery</b>	Size: 220 SF. Location: Adjacent to Commons and Kitchen. Special Features: Pass through window to Commons.	Size: 260 SF. Location: Adjacent to Commons and Kitchen. Special Features: Pass through window to Commons.
<b>Kitchen Storage</b>	Size: 260 SF Location: Adjacent to Kitchen and close to exterior delivery area. Special Features: Relite windows to Kitchen.	Size: 300 SF Location: Adjacent to Kitchen and close to exterior delivery area. Special Features: 3'-6" wide door to Kitchen. Relite windows to Kitchen.
<b>Microwave Alcove</b>	None.	Size: 20 SF. Location: Adjacent to Kitchen. Special Features: Sink with instant hot water tap, power for two microwave ovens, and counter.

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>Serving Area</b>	Size: 1,000 SF Location: Between Kitchen and Commons. Special Features: Serving counter between Kitchen and Serving area. Relite windows to Commons. Four check out stations with Meal Time outlets at exit doors Commons. Quarry tile floor.	Size: 1,200 SF Location: Between Kitchen and Commons. Special Features: Serving counter between Kitchen and Serving area. Relite windows to Commons. Five check out stations with Meal Time outlets at exit doors Commons. Quarry tile floor.
<b>Staff Lounge</b>	Size: 800 SF Location: Adjacent to Telephone rooms and close to Kitchen. Special Features: Sink counter and space for two microwave ovens, two refrigerators, and two vending machines.	Size: 900 SF Location: Adjacent to Telephone rooms and close to Kitchen. Special Features: Sink counter and power for two microwave ovens, two refrigerators, and two vending machines. Computer work station.
<b>Vending Machine - Large Alcoves</b>	Size: 70 SF. Location: Two separate alcoves adjacent to wide corridor. Close to Commons, Gyms and Theater. Not within Commons. Special Features. Floor drains and power for five vending machines at each alcove.	Size: 100 SF. Location: Two separate alcoves adjacent to wide corridor. Close to Commons, Gyms and Theater. Not within Commons. Special Features. Floor drains and power for six vending machines at each alcove. Roll down door.
<b>Vending Machine - Small Alcove</b>	Size: 30 SF. Location: Adjacent to corridor at Locker rooms. Special Features: Floor drain and power for two vending machines.	Size: 30 SF. Location: Adjacent to corridor at Locker rooms. Special Features: Floor drain and power for two vending machines.
<b>Walk-in Cooler</b>	Size: 100 SF. Location: Adjacent to Kitchen and walk-in Freezer. Close to exterior delivery area. Special Features: Exterior condenser unit, quarry tile floor and window in door.	Size: 150 SF. Location: Adjacent to Kitchen and walk-in Freezer. Close to exterior delivery area. Special Features: Exterior condenser unit, quarry tile floor and window in door.
<b>Walk-in Freezer</b>	Size: 160 SF. Location: Adjacent to Kitchen and walk-in Cooler. Close to exterior delivery area. Special Features: Exterior condenser unit, quarry tile floor and window in door.	Size: 240 SF. Location: Adjacent to Kitchen and walk-in Cooler. Close to exterior delivery area. Special Features: Exterior condenser unit, quarry tile floor and window in door.
<b>GENERAL SUPPORT SPACE</b>		
<b>Laundry</b>	None.	Size: 60 SF. Location: Adjacent to corridor. Close to Gyms and Kitchen. Special Features: Laundry sink. Plumbing and power for washing machine and dryer.
<b>Lost and Found</b>	Size: 30 SF. Location: Adjacent to Main Office. Special Features: 3'-6" wide door. Exhaust fan.	Size: 40 SF. Location: Adjacent to Main Office. Special Features: Double doors without mullion. Exhaust fan.
<b>Receiving Room</b>	Size: 300 SF. Location: Adjacent to exterior of building and corridor at delivery area. Close to Maintenance Storage and Office. Special Features: Double doors or overhead door at exterior and door to corridor.	Size: 360 SF. Location: Adjacent to exterior of building and corridor at delivery area. Close to Maintenance Storage and Office. Special Features: Double doors or overhead door at exterior and 3'-6" wide door to corridor.
<b>Storage - Lift Equipment</b>	None.	Size: 40 SF. Location: Adjacent to corridor. Near Gyms or Commons. Special Features: Protective wainscot at walls. Power outlet for lift charger. No electrical panels in room.

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>Storage - Maintenance</b>	Size: 200 SF. Location: Adjacent to corridor. Close to exterior delivery area. Special Features: Flammable storage cabinet.	Size: 240 SF. Location: Adjacent to corridor. Close to Receiving room, Maintenance Office and exterior delivery area. Special Features: 3'-6" wide door and flammable storage cabinet.
<b>Telecommunication - HC Room</b>	Size: 60 SF. Location: Adjacent to main corridor or mechanical attic space. Located as needed for cable distribution. Special Features: Separate and secure room with independent temperature control system.	Size: 80 SF. Location: Adjacent to main corridor or mechanical attic space. Located as needed for cable distribution. Special Features: Separate and secure room with independent temperature control system and emergency power to core infrastructure and servers.
<b>Telecommunication - MC Room</b>	Size: 160 SF. Location: Centrally located. Adjacent to main corridor or mechanical attic space. Special Features: Separate and secure room with data communications equipment and independent temperature control system.	Size: 200 SF. Location: Centrally located. Adjacent to main corridor or mechanical attic space. Special Features: Separate and secure room with data communications equipment, telephone backboard and headend equipment, intercom console, independent temperature control system, and emergency power to core infrastructure and servers.
<b>Telephone Room</b>	Size: 30 SF. Location: Two rooms within Staff Lounge. Special Features: Relite windows in door and ventilation system.	Size: 40 SF. Location: Two adjacent rooms within Staff Lounge. Special Features: ADA compliant with relite windows in door and ventilation system.
<b>COVERED PLAY AREA</b>		
<b>Playshed</b>	None.	None.
<b>NON-ASSIGNABLE SPACE</b>		
<b>Corridors</b>	Size: 14' wide at front entry, 12' wide at main corridors, 10' wide at classroom areas. Location: To provide access to all rooms within building. Special Features: Location for student lockers, display cases and tackable display areas.	Size: 18' wide at front entry, 14' wide at main corridors, 12' wide at classroom areas.. Location: To provide access to all rooms within building. Special Features: Location for student lockers, display cases, tackable display areas.
<b>Custodial</b>	Size: 60 SF. Location: One at each section of building. Special Features: Mop sink, floor drain, exhaust fan and protective wainscot at walls.	Size: 70 SF. Location: One at each section of building. Special Features: Mop sink, floor drain, exhaust fan and protective wainscot at walls. No electrical panels in room.
<b>Electrical - Main Distribution</b>	Size: As needed to accommodate main switch gear.	Size: As needed to accommodate main switch gear. Location: At exterior wall and adjacent to main Mechanical room. Special Features: Exterior door and door to mechanical room.
<b>Electrical - Secondary Distribution</b>	Size: As needed to accommodate electrical panels. Location: As needed for electrical distribution. Special Features: No mop sinks in room.	Size: As needed to accommodate electrical panels. Location: As needed for electrical distribution. Special Features: No mop sinks in room.
<b>Elevator</b>	Size: 80" W x 65" D interior cab. Location: At multi-story buildings and centrally located. Special Features: Button and keyed controls.	Size: 92" W x 65" D interior cab. Location: At multi-story buildings and located centrally and within community access zone. Special Features: Button and keyed controls.

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>Elevator Equipment</b>	Size: As needed to accommodate elevator equipment. Location: Adjacent to elevator. Special Features: Acoustically isolated.	Size: As needed to accommodate elevator equipment. Location: Adjacent to elevator and accessible from corridor. Special Features: Acoustically isolated with independent temperature control system.
<b>Mechanical - Main Equipment</b>	Size: As needed to accommodate equipment. Location: At exterior wall, centrally located, adjacent to main distribution Electrical room. Special Features: Double doors with removable mullion.	Size: As needed to accommodate equipment. Location: At exterior wall, centrally located, adjacent to main distribution Electrical room. Special Features: Two 3'-6" wide doors with removable mullion, laundry tub sink and location for irrigation controller. Separation between relief air grilles and fire sprinkler riser.
<b>Mechanical - Secondary Equipment</b>	Size: As needed to accommodate equipment. Location: Adjacent to and accessible from corridor or building exterior. Special Features: Door opening large enough accommodate equipment removal and replacement.	Size: As needed to accommodate equipment. Location: Adjacent to and accessible from corridor. Special Features: Door opening large enough accommodate equipment removal and replacement.
<b>Restroom - Staff - Men</b>	Size: 120 SF. Location: Near each classroom wing. Special Features: One water closet, one urinal and one sink.	Size: 150 SF. Location: Within each classroom wing. Special Features: ADA compliant with one water closet, one urinal and one sink.
<b>Restroom - Staff - Women</b>	Size: 140 SF. Location: Near each classroom wing. Special Features: Two water closets and one sink.	Size: 170 SF. Location: Within each classroom wing. Special Features: ADA compliant with two water closets and one sink.
<b>Restroom - Student - Boys</b>	Size: As needed to accommodate code-required number of toilet fixtures. Location: Within each classroom wing. Special Features: ADA compliant.	Size: As needed to accommodate code-required number of toilet fixtures. Location: Within each classroom wing and adjacent to hand wash area in corridor. Special Features: ADA compliant with ceramic tile floor, 7' high wainscot, exterior window, and hot / cold water hose bibb.
<b>Restroom - Student - Girls</b>	Size: As needed to accommodate code-required number of toilet fixtures. Location: Within each classroom wing. Special Features: ADA compliant.	Size: As needed to accommodate code-required number of toilet fixtures. Location: Within each classroom wing and adjacent to hand wash area in corridor. Special Features: ADA compliant with ceramic tile floor, 7' high wainscot, exterior window, and hot / cold water hose bibb.
<b>Sawdust Collector</b>	Size: 80 SF. Location: Adjacent to building exterior and Construction / Manufacturing. Special Features: Entrance from exterior.	Size: 80 SF. Location: Adjacent to building exterior and Construction / Manufacturing. Special Features: Entrance from exterior. Sound attenuation within room.
<b>Stairs</b>	Size: 8' wide. Location: At multi-story buildings and centrally located. Special Features: Protective wainscot at walls.	Size: 10' wide. Location: At multi-story buildings and centrally located. Special Features: Protective wainscot at walls.
<b>NON-MATCHED SPACE</b>		
<b>Field House - Coaches Office</b>	Size: 80 SF. Location: Two offices, one in each Locker Room. Special Features: Relite window with visual link to locker area.	Size: 90 SF. Location: Two offices, one in each Locker Room. Special Features: Relite window with visual link to locker area.

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>Field House - Concession</b>	Size: 140 SF. Location: Adjacent to exterior. Special Features: Sink, roll up door at serving counter, power for pop corn machine.	Size: 160 SF. Location: Adjacent to exterior. Special Features: Three compartment sink, roll up door at serving counter, plumbing for espresso machine, one computer station, and power for pop corn machine.
<b>Field House - Custodial</b>	Size: 80 SF. Location: Adjacent to exterior. Special Features: Mop sink, floor drain, exhaust fan and protective wainscot at walls. No electrical panels in room.	Size: 100 SF. Location: Adjacent to exterior. Special Features: 3'-6" wide door. Mop sink, floor drain, exhaust fan and protective wainscot at walls. No electrical panels in room.
<b>Field House - Drying Room</b>	Size: 200 SF. Location: Two drying rooms, each adjacent to a Locker Room. Special Features: Independent heat and ventilation system manual timer. Racks for hanging football uniforms and equipment.	Size: 240 SF. Location: Two drying rooms, each adjacent to a Locker Room. Special Features: Independent heat and ventilation system connected to EMS with manual bypass timer. Racks for hanging football uniforms and equipment.
<b>Field House - Mechanical and Electrical</b>	Size: As needed to accommodate mechanical and electrical equipment. Location: At exterior wall, centrally located. Special Features: Double doors with removable mullion.	Size: As needed to accommodate mechanical and electrical equipment. Location: At exterior wall, centrally located. Special Features: Double doors with removable mullion.
<b>Field House - Storage - Activities</b>	None.	Size: 200 SF. Location: At exterior wall closest to main building. Special Features: Double doors without mullions.
<b>Field House - Storage - Athletic Teams</b>	None.	Size: 1,200 SF. Location: At exterior wall. Special Features: Cabinets and fenced areas for individual team storage.
<b>Field House - Storage - Covered Area</b>	Size: 450 SF. Location: At end of Field House. Special Features: Fencing with gates at open wall areas.	Size: 500 SF. Location: At end of Field House. Special Features: Fencing with gates at open wall areas.
<b>Field House - Storage - Drama</b>	None.	Size: 400 SF. Location: At exterior wall closest to building. Special Features: Double doors without mullion.
<b>Field House - Storage - Emergency Supplies</b>	None.	Size: 200 SF. Location: Adjacent to building exterior. Special Features: 3'-6" wide door.
<b>Field House - Storage - Track and Field Equipment</b>	Size: 1,000 SF. Location: At exterior wall closest to track. Convenient access to track and football / soccer field. Special Features: Two overhead doors and a pedestrian door at exterior wall. Power outlets for recharging electric carts.	Size: 1,200 SF. Location: At exterior wall closest to track. Convenient access to track and football / soccer field. Special Features: Two overhead doors and a pedestrian door at exterior wall. Power outlets for recharging electric carts.
<b>Field House - Football Equipment</b>	None.	Size: 170 SF Location: Adjacent to Corridor. Close to Locker rooms. Special Features: Work bench and double door without mullion.
<b>Field House - Gymnastics / Wrestling Storage</b>	None.	Size: 700 SF. Location: At exterior wall closest to main building. Special Features: Two overhead doors. Protective wall surface.

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## PROGRAM AREAS

Category	Minimum Standards	Recommended Standards
<b>Field House - Public Restroom - Men</b>	Size: 180 SF. Location: Adjacent to spectator area. Special Features: Two urinals, one water closet, two sinks.	Size: 220 SF. Location: Adjacent to spectator area. Special Features: Two urinals, one water closet, two sinks.
<b>Field House - Public Restroom - Women</b>	Size: 180 SF. Location: Adjacent to spectator area. Special Features: Two water closet, two sinks.	Size: 220 SF. Location: Adjacent to spectator area. Special Features: Three water closet, two sinks.
<b>Field House - Team Locker Room</b>	Size: 1,200 SF. Location: Two separate locker rooms, each includes a changing area, showers and restroom. Adjacent to Coaches' office and Drying room. Close to running track. Special Features: Three shower stalls, 2 water closets, 2 urinals, 2 sinks, benches and 100 hooks. Relite window to Coaches' office.	Size: 1,400 SF. Location: Two separate locker rooms, each includes a locker area, showers and restroom. Adjacent to Coaches' office and Drying room. Close to running track. Special Features: Three shower stalls, 2 water closets, 2 urinals, 2 sinks, benches, and 100 locker each 48" H x 15" D x 15" W. Relite window to Coaches' office.
<b>Field House - Vending Machine Alcove</b>	None.	Size: 30 SF. Location: Open to exterior and adjacent spectator area. Special Features: Power for two vending machines and roll down door.
<b>Storage Shed - Baseball</b>	Size: 60 SF. Location: Adjacent dugout at main baseball field. Special Features: 3'-6" wide door that opens to baseball infield.	Size: 100 SF. Location: Adjacent dugout at main baseball field. Special Features: 3'-6" wide door that opens to baseball infield.
<b>Storage Shed - Softball</b>	Size: 60 SF. Location: Adjacent dugout at main softball field. Special Features: 3'-6" wide door that opens to baseball infield.	Size: 100 SF. Location: Adjacent dugout at main softball field. Special Features: 3'-6" wide door that opens to baseball infield.
<b>Storage Shed - Tennis</b>	Size: 60 SF. Location: Adjacent to tennis court area. Special Features: 3'-6" wide door.	Size: 100 SF. Location: Adjacent to tennis court area. Special Features: 3'-6" wide door.
<b>Ticket Booth</b>	None.	Size: 50 SF. Location: At fence gate to spectator area at track and Field House area. Special Features: Cashier counter and window. Power and unheated.

**STANDARDS**

**PROGRAM AREAS**

Category	Minimum Standards	Recommended Standards
<b>CAPACITY</b>		
<b>Enrollment</b>	Enrollment Capacity: 250 students.	Enrollment Capacity: 250 - 350 students with 100 of the students enrolled in evening classes.
<b>Building Size</b>	Building Size: 30,000 SF.	Building Size: 30,000 SF.
<b>ACCESSIBILITY</b>		
<b>Site Access</b>	Pedestrian Access: Sidewalk access from street at front of school with crosswalks at internal driveways. Vehicle Access: Separate entry / exit driveways for buses and visitor parking.	Pedestrian Access: Sidewalk access from street at front of school that do not cross internal driveways. Vehicle Access: Separate entry / exit driveways for buses and visitor parking.
<b>Building Access</b>	Delivery Entry: Adjacent to a secondary entrance. Main Entry: At front of school. Secondary Entries: At bus loading area, staff and student parking lots, and athletic fields.	Delivery Entry: Adjacent to secondary entrance. Main Entry: At front of school and prominent. Secondary Entries: At classrooms, bus loading area, staff and student parking lots, and athletic fields.
<b>Disabled Access</b>	Pre-1992 Facilities: Shall provide program accessibility to people with disabilities. 1992 and Older Facilities: Shall provide accessibility in compliance with the American Disabilities Act (ADA).	All Facilities: Shall provide accessibility in compliance with the American Disabilities Act (ADA).
<b>ACOUSTICS</b>		
<b>Site Acoustics</b>	Criteria: Off site noise shall comply with WAC 246-366-030(3) and not exceed an hourly average of 55 dBA and an hourly maximum of 70dBA.	Criteria: Off site noise shall comply with WAC 246-366-030(3) and not exceed an hourly average of 55 dBA and an hourly maximum of 70dBA.
<b>Building Acoustics</b>	Criteria: A maximum unoccupied background noise level of 50 NC in classrooms and offices.	Criteria: A maximum unoccupied background noise level of 35 NC in classrooms and offices.
<b>APPEARANCE</b>		
<b>Site Appearance</b>	Criteria: Attractive site appearance from street. A finished and maintained appearance for all site areas.	Criteria: Attractive site appearance from street. A finished and maintained appearance for all site areas.
<b>Building Exterior Appearance</b>	Criteria: Attractive exterior with a prominent front entry.	Criteria: Attractive exterior with a timeless appearance and prominent front entry.
<b>Building Interior Appearance</b>	Criteria: Attractive interior.	Criteria: Attractive interior appearance with features and colors that have a classic and timeless quality.
<b>COMMUNITY USE</b>		
<b>Outdoor Facilities Community Use</b>	Criteria: Athletic fields easily accessible during non-school hours.	Criteria: Athletic fields easily accessible during non-school hours and close to parking.
<b>Indoor Facilities Community Use</b>	Criteria: Gym, Library, Commons, Computer Lab, and public restrooms easily accessible during non-school hours.	Criteria: Gym, Library, Commons, Computer Lab, and public restrooms easily accessible during non-school hours.
<b>DAY LIGHTING</b>		
<b>Classrooms Day Lighting</b>	Criteria: Exterior windows at all classrooms.	Criteria: Exterior windows at all classrooms with no direct sun.
<b>Commons Day Lighting</b>	Criteria: Exterior windows.	Criteria: Exterior windows with no direct sun.



**STANDARDS**

**PROGRAM AREAS**

Category	Minimum Standards	Recommended Standards
<b>Gymnasiums Day Lighting</b>	None.	Criteria: Exterior windows with no direct sun.
<b>Library Day Lighting</b>	Criteria: Exterior windows.	Criteria: Exterior windows with no direct sun.
<b>Offices Day Lighting</b>	Criteria: Exterior window at main office area and relite windows opening to corridors at other offices.	Criteria: Exterior windows at all offices.
<b>SPACE RELATIONSHIPS</b>		
<b>Exterior Space Relationships</b>	Criteria: Visitor parking and student drop off / pick up area at front of school and separated from bus loading. Athletic fields close to locker rooms.	Criteria: Visitor parking and student drop off / pick up area at front of school and separated from bus loading. Bus loading area easily accessible from classroom areas. Exterior courtyard adjacent to a main corridor. Athletic fields close to locker rooms and parking lot.
<b>Interior Space Relationships</b>	Criteria: All interior spaces within a common building with corridor access to all areas.	Criteria: All interior spaces within a common building with corridor access to all areas. Main offices near front entry. Commons and Library centrally located.
<b>SUPERVISION / SECURITY</b>		
<b>Site Security</b>	Criteria: Perimeter fence at athletic fields and adjacent to other properties.	Criteria: Perimeter fence at athletic fields and adjacent to other properties. Building perimeters and courtyards securable. Vehicle gates at driveway access to delivery area, service drive, bus loading area, and staff and student parking lots.
<b>Site Supervision</b>	Criteria: Front entry to building visible from main office.	Criteria: Front entry to building visible from main office. Minimal blind spots at athletic fields. Conduit for surveillance cameras at exterior light poles.
<b>Building Security</b>	Criteria: Access to building areas controlled by lockable gates and doors. Intrusion alarm at main office and corridors.	Criteria: All building areas under a common roof with access controlled by lockable doors using a Primus key. Intrusion alarm at main office, computer classrooms, Library, and corridors. Classroom exterior doors automatically lock. Conduit or cable tray for future surveillance camera wiring.
<b>Building Supervision</b>	Criteria: Front lobby area visible from main office. Relite windows opening to an adjacent space present at all offices.	Criteria: Front lobby area visible from main office. Minimal blind spots at interior corridors and around perimeter of building. Relite windows opening to an adjacent space present at all offices. Student restrooms designed to allow doors to be open during school hours.
<b>STANDARD CLASSROOMS</b>		
<b>Language Arts</b>	Size: 840 SF. Location: Near staff and student restrooms. Special Features: Power and telecommunication outlets for 6 student computer stations and one teacher work station. Sink and 6 LF of sink counter.	Size: 900 SF. Location: Near staff and student restrooms. Convenient access to Library, main office and bus loading area. Special Features: Power and telecommunication outlets for 6 student computer stations, teacher work station, computer at front of classroom, and ceiling mounted LCD projector. Sink and 6 LF of sink counter.

**STANDARDS**

**PROGRAM AREAS**

Category	Minimum Standards	Recommended Standards
<b>Math</b>	Size: 840 SF. Location: Near staff and student restrooms. Special Features: Power and telecommunication outlets for 6 student computer stations and one teacher work station. Sink and 6 LF of sink counter.	Size: 900 SF. Location: Near staff and student restrooms. Convenient access to Library, main office and bus loading area. Special Features: Power and telecommunication outlets for 6 student computer stations, teacher work station, computer at front of classroom, and ceiling mounted LCD projector. Sink and 6 LF of sink counter.
<b>Social Studies</b>	Size: 840 SF. Location: Near staff and student restrooms. Special Features: Power and telecommunication outlets for 6 student computer stations and one teacher work station. Sink and 6 LF of sink counter.	Size: 900 SF. Location: Near staff and student restrooms. Convenient access to Library, main office and bus loading area. Special Features: Power and telecommunication outlets for 6 student computer stations, teacher work station, computer at front of classroom, and ceiling mounted LCD projector. Sink and 6 LF of sink counter.
<b>SPECIALTY CLASSROOMS</b>		
<b>Business Education</b>	Size: 900 SF. Location: Centrally located. Special Features: Power and data outlets for 12 student computer stations and teacher's work station.	Size: 1,100 SF. Location: Centrally located. Special Features: Power and data outlets for 24 student computer stations, teacher's work station, computer at front of classroom, and ceiling mounted projector. Sink and work counter. Room orientation to allow student stations to face front of room. Master shut-off switch for student computers and monitors.
<b>Computer -- Classroom</b>	Size: 600 SF. Location: Centrally located. Special Features: Power and data outlets for 12 student work stations and one teacher's station.	Size: 900 SF. Location: Centrally located. Special Features: Power and data outlets for 24 student work stations, one teacher's station, computer at front of classroom, and ceiling mounted projector. Master shut-off switch for student computers and monitors.
<b>Family and Consumer Science</b>	Size: 1,000 SF. Location: Close to vehicle access for deliveries. Special Features: Four student cooking stations each with range, exhaust hood and sink.	Size: 1,200 SF. Location: Close to vehicle access for deliveries. Special Features: 6 student cooking stations including ADA compliant station. Closet with stacking washer and dryer. Evacuation exhaust system with manual timer. Power and data outlets for 6 student computer stations and computer at front of classroom.
<b>Industrial Technology Classroom</b>	Size: 840 SF. Location: Adjacent to Industrial Technology Lab. Special Features: Relite windows between Technology Lab. Power and telecommunication outlets for 6 student computer stations and teacher work station.	Size: 900 SF. Location: Adjacent to Industrial Technology Lab. Special Features: Relite windows between Technology Lab. Power and data outlets for 6 student computer stations, two teacher work stations, computer at front of classroom, and ceiling mounted projector. Sink and 6 LF of sink counter.
<b>Industrial Technology Lab</b>	Size: 1,600 SF Location: Adjacent to Technology classroom and vehicle access. Special Features: Student workbench area with 6 benches, wood working equipment, sawdust collection system, hand wash sink, storage cabinets for student projects.	Size: 1,800 SF Location: Adjacent to Technology classroom and vehicle access. Special Features: Student workbench area with 8 benches, wood and metal working equipment, sawdust collection system, large hand wash sink, storage cabinets for student projects, and relite windows between Technology classroom.

**STANDARDS**

**PROGRAM AREAS**

Category	Minimum Standards	Recommended Standards
<b>Science</b>	Size: 900 SF. Location: Adjacent to Science prep room. Special Features: 6 student work stations each with power, natural gas and shared sink. Eye wash, and demonstration cabinet with sink, power and natural gas at front of classroom. Power and data outlets for teacher's work station.	Size: 1,000 SF. Location: Adjacent to Science prep room. Special Features: 7 student work stations each with power and data outlets, natural gas, and shared sink. Eye wash and demonstration cabinet with sink, power and natural gas at front of classroom. Evacuation exhaust fan with manual timer. Power and data outlets for 4 student computer stations, computer at front of classroom, and ceiling mounted projector.
<b>LIBRARY</b>		
<b>Audio Visual Equipment</b>	Size: 70 SF. Location: Adjacent to Library. Special Features: Easy access through Library from adjacent corridor.	Size: 90 SF. Location: Adjacent to Library. Special Features: Easy access through Library from adjacent corridor. 3'-6" wide entry door.
<b>Group Study</b>	Size: 90 SF Location: Adjacent to Library. Special Features: Relite window to Library.	Size: 110 SF Location: Adjacent to Library. Special Features: Relite window to Library. Power and data outlets for two computer stations and CATV outlet.
<b>Study / Circulation</b>	Size: 600 SF. Location: Central location. Adjacent to Group Study, Audio Visual, and Library Workroom. Special Features: Reading area, circulation counter, and 2 computerized search stations. Open shelving for 2,000 volumes.	Size: 900 SF. Location: Central location. Adjacent to Group Study, and Library Workroom. Special Features: Reading area, circulation counter, and 4 computerized search stations. Open shelving for 3,000 volumes. Exterior windows.
<b>LEARNING RESOURCE</b>		
<b>Library Workroom</b>	Size: 100 SF. Location: Within Library and behind circulation desk. Special Features: Open to Library. Power and telecommunication for check out station.	Size: 140 SF. Location: Within Library and behind circulation desk. Special Features: Open to Library. Power and telecommunication for one workstation and check out station. Cable TV system head-end, recording and transmitting equipment.
<b>PHYSICAL EDUCATION TEACHING STATION</b>		
<b>Boy's Locker</b>	Size: 350 SF. Location: Close to PE Office, building exterior, and athletic fields. Special Features: Includes restroom with one urinal, one water closet, one sink, shower area, and 50 box lockers.	Size: 400 SF. Location: Close to PE Office, building exterior, and athletic fields. Direct access to Gym. Special Features: ADA compliant that includes restroom with one urinal, one water closet, one sink, shower area, and 50 box lockers and 10 half-height lockers.
<b>Girl's Locker</b>	Size: 350 SF. Location: Close to PE Office, building exterior, and athletic fields. Special Features: Includes restroom with one sink, two water closets, shower area, and 50 box lockers.	Size: 400 SF. Location: Close to PE Office, building exterior, and athletic fields. Direct access to Gym. Special Features: ADA compliant that includes restroom with one sink, two water closets, shower area, and 50 box lockers and 10 half-height lockers.
<b>Gymnasium</b>	Size: 3,600 SF Location: Adjacent to PE Office and PE Storage. Close to locker rooms and athletic fields. Special Features: Rubber floor, retractable or side-swing basketball backboards, retractable bleachers for 150, scoreboard, and sound system.	Size: 4,000 SF Location: Adjacent to locker rooms, PE Office, and PE Storage. Close to athletic fields and restrooms. Special Features: Wood floor, retractable or side-swing basketball backboards, scoreboard, two 30-second clocks, sound system, retractable bleachers for 250, and exterior windows.
<b>ASSEMBLY</b>		

**STANDARDS**

**PROGRAM AREAS**

Category	Minimum Standards	Recommended Standards
<b>Commons</b>	Size: 2,000 SF. Location: Adjacent to front entry lobby and Kitchenette. Close to restrooms and exterior courtyard. Special Features: Serving counter at Kitchenette.	Size: 2,500 SF. Location: Adjacent to front entry lobby, Kitchenette, Commons Storage and exterior courtyard. Close to restrooms. Special Features: Serving counter at Kitchenette.
<b>Commons Sound System</b>	None.	Size: 40 SF. Location: Adjacent to Commons. Special Features: Location for sound system rack.
<b>Commons Storage</b>	None.	Size: 80 SF. Location: Adjacent to Commons. Special Features: 3'-6" wide door. Protective wainscot at walls.
<b>SERVICE AND SUPPORT</b>		
<b>Science Prep Room</b>	Size: 100 SF. Location: Adjacent to Science classroom. Special Features: Door with to Science classroom, sink, emergency shower and floor drain.	Size: 120 SF. Location: Adjacent to Science classroom. Special Features: Door with relite window to Science classroom, sink, chemical storage cabinet, emergency shower and floor drain.
<b>Storage - Instructional Material</b>	Size: 100 SF. Location: Centrally located. Close to corridor and general classrooms. Special Features: None.	Size: 120 SF. Location: Centrally located. Adjacent to corridor. Close general classrooms. Special Features: None.
<b>Storage - P. E.</b>	Size: 100 SF. Location: Adjacent to Gym. Close to corridor access. Special Features: Protective wainscot at walls.	Size: 120 SF. Location: Adjacent to Gym. Close to exterior access. Special Features: 3'-6" wide door. Protective wainscot at walls.
<b>STUDENT SERVICES</b>		
<b>Counselor</b>	Size: 110 SF Location: Near main office. Special Features: Relite window to corridor or main office.	Size: 130 SF Location: Adjacent to main office. Special Features: Relite window to main office.
<b>Health Room</b>	Size: 100 SF Location: Adjacent to main office secretary area and Health restroom. Close to Nurse's office. Special Features: Sink and 6 LF work counter. Visible connection to main office secretary area. Exhaust fan.	Size: 120 SF Location: Adjacent to main office secretary area, Health restroom and Nurse's office. Special Features: Sink and 6 LF work counter. Visible connection to main office secretary area. Exhaust fan. High capacity exhaust fan with manual bypass timer.
<b>Health Restroom</b>	Size: 50 SF Location: Adjacent to Health room. Special Features: ADA compliant with exhaust fan.	Size: 70 SF Location: Adjacent to Health room. Special Features: ADA compliant with high capacity exhaust fan with manual bypass timer.
<b>OFFICE SPACE</b>		
<b>Conference Room - Main Office</b>	Size: 120 SF. Location: Adjacent to Main Office area. Special Features: Relite window to Main Office area.	Size: 140 SF. Location: Adjacent to Main Office area. Special Features: Relite window to Main Office area. Power and data outlet for work station.

**STANDARDS**

**PROGRAM AREAS**

Category	Minimum Standards	Recommended Standards
<b>Main Office - Attendance Secretary and Office Manager</b>	Size: 300 SF Location: Adjacent to Main Office reception area, Principal, Health Room, and Conference room. Close to Staff Workroom, Counselor and Registrar. Special Features: Work stations with power and data outlets for office manager and Attendance secretary. Reception counter. Relite window to main building entry foyer, Principal's office, Health Room, and Conference room.	Size: 400 SF Location: Adjacent to Main Office reception area, Principal, Health Room, Conference room, Counselor, Staff Workroom, and Registrar. Close to Commons. Special Features: Work stations with power and data outlets for office manager and Attendance secretary. Reception counter with student work station. Relite window to main building entry foyer, Principal's office, Counselor, Registrar, and Conference rooms. Surveillance camera monitoring station at Office Manager's workstation.
<b>Main Office - Reception</b>	Size: 150 SF Location: Adjacent to main building entry and Main office Secretary and Office Manager area. Special Features: Relite windows to front entry foyer.	Size: 180 SF Location: Adjacent to main building entry, Main office Secretary and Office Manager area. Special Features: Relite windows to front entry foyer.
<b>Maintenance Office</b>	Size: 160 SF. Location: Adjacent to corridor. Close to exterior delivery area. Special Features: Location for EMS computer.	Size: 180 SF. Location: Adjacent to corridor. Special Features: Sink and work counter. Location for EMS computer, HVAC bypass timers, fire alarm and security panels.
<b>Nurse</b>	Size: 80 SF. Location: Adjacent to Health room. Special Features: Relite window to Health room.	Size: 100 SF Location: Adjacent to Health room. Special Features: Relite window to Health room.
<b>P. E. Office</b>	Size: 120 SF Location: Adjacent to Gym. Special Features: Location for sound system control panel.	Size: 180 SF Location: Adjacent to Gym. Special Features: Location for sound system control panel. Relite window to Gym.
<b>Principal</b>	Size: 200 SF Location: Adjacent to Main office area. Special Features: Relite window to Main office area.	Size: 240 SF Location: Adjacent to Main office area. Special Features: Relite window to Main office area. Visual link to front entry doors.
<b>Registrar</b>	Size: 150 SF. Location: Close to Main office and Counselor. Special Features: Relite window to corridor or Main office area.	Size: 180 SF. Location: Adjacent to Counseling Secretary area. Close to Counselors. Special Features: Relite window to Main office area.
<b>Storage - Records</b>	Size: 100 SF. Location: Adjacent to Main office area. Special Requirements: Location for key cabinet.	Size: 150 SF. Location: Adjacent to Main office area. Special Requirements: Location for key cabinet.
<b>Work Experience Coordinator</b>	Size: 80 SF. Location: Centrally located. Adjacent to corridor. Special Features: Relite window to corridor.	Size: 100 SF. Location: In Main Office area. Special Features: Relite window to corridor or adjacent office area.
<b>Workroom - Staff</b>	Size: 300 SF Location: Centrally located. Special Features: Power and data outlets for high capacity copy machine and one staff workstation. Tote tray mail boxes for 30.	Size: 360 SF Location: Adjacent to Main office area. Special Features: Power and data outlets for high capacity copy machine and two staff workstations. Tote tray mail boxes for 40.
<b>CAFETERIA / FOOD SERVICE</b>		

**STANDARDS**

**PROGRAM AREAS**

Category	Minimum Standards	Recommended Standards
<b>Kitchenette</b>	Size: 160 SF Location: Adjacent to Commons. Centrally located. Special Features: Serving counter with roll-up counter door at Commons. Two-compartment sink and work counter. Power for freestanding refrigerator, freezer and milk cooler. Power and data outlets for Meal Time station.	Size: 200 SF Location: Adjacent to Commons. Close to exterior deliver area and dumpsters. Centrally located. Special Features: Serving counter with roll-up counter door at Commons. Three-compartment sink and work counter. Insta-hot water faucet. Power for freestanding refrigerator, freezer and milk cooler. Power and data outlets for Meal Time station.
<b>Microwave Alcove</b>	None.	Size: 20 SF. Location: Adjacent to Kitchen. Special Features: Sink with instant hot water tap, power for two microwave ovens, and counter.
<b>Staff Lounge</b>	Size: 240 SF Location: Adjacent to Telephone room and close to Kitchenette. Special Features: Sink counter and space for microwave and refrigerator.	Size: 300 SF Location: Adjacent to Telephone room and close to Kitchenette. Special Features: Sink counter and space for microwave and refrigerator.
<b>Vending Machine Alcove</b>	Size: 50 SF. Location: Close to Commons. Special Features. Power for 2 vending machines.	Size: 60 SF. Location: Adjacent to Commons. Special Features. Power for 3 vending machines.
<b>GENERAL SUPPORT SPACE</b>		
<b>Lost and Found</b>	Size: 30 SF. Location: Adjacent to Main Office. Special Features: 3'-6" wide door. Exhaust fan.	Size: 40 SF. Location: Adjacent to Main Office. Special Features: Double doors without mullion. Exhaust fan.
<b>Storage - Emergency Supply</b>	Size: 120 SF. Location: Adjacent to building exterior. Special Features: Doors to building exterior and main corridor.	Size: 160 SF. Location: Adjacent to building exterior. Special Features: Doors to building exterior and main corridor.
<b>Storage - Maintenance</b>	None.	Size: 120 SF. Location: Adjacent to corridor. Close to exterior delivery area. Special Features: 3'-6" wide door and flammable storage cabinet.
<b>Telecommunication - HC Room</b>	Size: 60 SF. Location: Adjacent to main corridor or mechanical attic space. Special Features: Separate and secure room with independent temperature control system.	Size: 60 SF. Location: Adjacent to main corridor or mechanical attic space. Special Features: Separate and secure room with independent temperature control system.
<b>Telecommunication - MC Room</b>	Size: 100 SF. Location: Adjacent to main corridor or mechanical attic space. Special Features: Separate and secure room with MC racks and independent temperature control system.	Size: 120 SF. Location: Centrally located for efficiency of cable distribution. Adjacent to main corridor or mechanical attic space. Special Features: Separate and secure room with MC racks, telephone backboard and headed equipment, intercom console and has independent temperature control system.
<b>Telephone Room</b>	Size: 30 SF. Location: Adjacent to Staff Lounge. Special Features: Relite windows in door and ventilation system.	Size: 40 SF. Location: Adjacent to Staff Lounge. Special Features: ADA compliant with relite windows in door and ventilation system.
<b>COVERED PLAY AREA</b>		
<b>Playshed</b>	None.	None.

**STANDARDS**

**PROGRAM AREAS**

Category	Minimum Standards	Recommended Standards
<b>NON-ASSIGNABLE SPACE</b>		
<b>Corridors</b>	Size: 10' wide at front entry, 8' wide at classroom areas. Location: To provide access to all rooms within building. Special Features: Location for display cases and tackable display areas.	Size: 12' wide at front entry, 8' wide at classroom areas. Location: To provide access to all rooms within building. Special Features: Location for display cases and tackable display areas.
<b>Custodial</b>	Size: 40 SF. Location: One at each section of building. Special Features: Mop sink, floor drain, exhaust fan and protective wainscot at walls.	Size: 60 SF. Location: One at each section of building. Special Features: Mop sink, floor drain, exhaust fan and protective wainscot at walls. No electrical panels in room.
<b>Electrical - Main Distribution</b>	Size: As needed to accommodate main switch gear.	Size: As needed to accommodate main switch gear. Location: At exterior wall and adjacent to main Mechanical room. Special Features: Exterior door and door to mechanical room.
<b>Electrical - Secondary Distribution</b>	Size: As needed to accommodate electrical panels. Location: As needed for electrical distribution. Special Features: No mop sinks in room.	Size: As needed to accommodate electrical panels. Location: As needed for electrical distribution. Special Features: No mop sinks in room.
<b>Mechanical - Main Equipment</b>	Size: As needed to accommodate equipment. Location: At exterior wall, centrally located, adjacent to main distribution Electrical room. Special Features: Double doors with removable mullion.	Size: As needed to accommodate equipment. Location: At exterior wall, centrally located, adjacent to main distribution Electrical room. Special Features: Two 3'-6" wide doors with removable mullion, laundry tub sink and location for irrigation controller. Separation between relief air grilles and fire sprinkler riser.
<b>Mechanical - Secondary Equipment</b>	Size: As needed to accommodate equipment. Location: Adjacent to and accessible from corridor or building exterior. Special Features: Door opening large enough accommodate equipment removal and replacement.	Size: As needed to accommodate equipment. Location: Adjacent to and accessible from corridor. Special Features: Door opening large enough accommodate equipment removal and replacement.
<b>Restroom - Staff - Men</b>	Size: 100 SF. Location: Centrally located. Special Features: One water closet, one urinal and one sink.	Size: 160 SF. Location: Within each classroom wing. Special Features: ADA compliant with one water closet, two urinals and one sink.
<b>Restroom - Staff - Women</b>	Size: 110 SF. Location: Centrally located. Special Features: Two water closets and one sink.	Size: 180 SF. Location: Centrally located. Special Features: ADA compliant with three water closets and one sink.
<b>Restroom - Student - Boys</b>	Size: 220 SF. Location: Centrally located. Special Features: ADA compliant with 2 urinals, 2 water closets, 2 sinks, and protective wainscot at walls.	Size: 260 SF. Location: Centrally located. Special Features: ADA compliant with 2 urinals, 2 water closets, 2 sinks, ceramic tile floor, 7' high wainscot, exterior window, and hot / cold water hose bibb.
<b>Restroom - Student - Girls</b>	Size: 220 SF. Location: Centrally located. Special Features: ADA compliant with 4 water closets, 2 sinks, and protective wainscot at walls.	Size: 260 SF. Location: Centrally located. Special Features: ADA compliant with 4 water closets, 2 sinks, ceramic tile floor, 7' high wainscot, exterior window, and hot / cold water hose bibb.

**STANDARDS**

**PROGRAM AREAS**

Category	Minimum Standards	Recommended Standards
<b>Sawdust Collector</b>	Size: 80 SF. Location: Adjacent to building exterior and Industrial Technology Lab. Special Features: Entrance from exterior.	Size: 80 SF. Location: Adjacent to building exterior and Industrial Technology Lab. Special Features: Entrance from exterior. Sound attenuation within room.



## **Appendix C – Facility Component Standards**

### Schools:

Elementary School

Middle School

Comprehensive High School

West Auburn High School

### Support Facilities:

Administration Building

Administrative Annex

Auburn Memorial Stadium

Auburn Pool

Support Services Center

Transportation Center

# ELEMENTARY SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>SITE AREAS</b>		
<b>Parking and Access - Buses</b>	Quantity: 10 stalls, 12' wide. Type: Asphalt, 20-year life. Location: Bus loading zone separated from visitor and parent parking.	Quantity: 12 stalls, 16' wide. Type: Asphalt, 30-year life. Location: Bus loading zone separated from visitor and parent parking.
<b>Parking and Access - Service / Delivery</b>	Quantity: 2 delivery vehicle stalls, 12' wide. 1 maintenance vehicle stall, 10' wide. Type: Asphalt, 20-year life. Location: Delivery stalls adjacent to Kitchen. Maintenance stall adjacent to building.	Quantity: 2 delivery stalls each 16' wide. 2 maintenance vehicle stalls, 12' wide. Type: Asphalt, 30-year life. Location: Delivery stalls adjacent to Kitchen. Maintenance stalls adjacent to Mechanical Room.
<b>Parking and Access - Staff</b>	Quantity: 60 stalls, 8'-6" wide. Type: Asphalt, 20-year life. Location: Separate from visitor parking.	Quantity: 80 stalls, 9' wide. Type: Asphalt, 30-year life. Location: Separate from visitor parking.
<b>Parking and Access - Visitors</b>	Quantity: 10 stalls, 8'-6" wide. Type: Asphalt, 20-year life. Location: At front of building.	Quantity: 25 stalls, 9' wide. Type: Asphalt, 30-year life. Location: At front of building.
<b>Student Drop Off - Pick Up</b>	Quantity: 20 parallel parking stalls. Type: Asphalt, 20-year life. Location: Adjacent to sidewalk at front of building.	Quantity: 40 stalls. Type: Asphalt, 30-year life. Location: At least 20 adjacent to sidewalk at front of building. The remaining stalls may be located in the staff or visitor's parking lot if separated from bus traffic.
<b>Street Frontage Sidewalks</b>	Type: 5' wide with ADA compliant curb cuts, asphalt.	Type: 6' wide with ADA compliant curb cuts, concrete.
<b>On-Site Walkways</b>	Type: 5' wide with ADA compliant curb cuts, asphalt.	Type: 6' wide with ADA compliant curb cuts, concrete.
<b>Stairs and Ramps</b>	Type: 5' wide, ADA compliant, concrete.	Type: 6' wide, ADA compliant, concrete with abrasive stair nosings at stairs and detectable warning pattern at ramps.
<b>Hard Surface Play Areas</b>	Quantity: 48,000 SF. Type: Asphalt, 20-year life. Location: Adjacent to grass playground.	Quantity: 60,000 SF. Type: Asphalt, 20-year life. Location: Adjacent to grass playground.
<b>Lawns</b>	Type: Irrigated grass turf. Location: At front of building, street frontage, and adjacent to landscape areas where suitable.	Type: Irrigated grass turf with concrete mow strip around posts and hydrants and where grass is adjacent to building. Location: At front of building, street frontage, and adjacent to landscape areas where suitable.
<b>Grass Play Area</b>	Quantity: 72,000 SF Type: Grass turf with automated irrigation system. Location: At non-hard surface playground areas.	Quantity: 120,000 Type: Grass turf with sand mix topsoil and automated irrigation system. Location: At non-hard surface playground areas.
<b>Athletic Surfacing</b>	Type: Sand long-jump pit with cinder runway. Location: Adjacent to grass playground or hard surface play area.	Type: Sand long-jump pit with asphalt runway. Location: Adjacent to hard surface play area.
<b>Climbing Equipment Ground Surface</b>	Quantity: 2 separate areas, each 4,000 SF. Type: Engineer wood fiber, 12" deep. Location: Adjacent to hard surface play area.	Quantity: 2 separate areas, each 6,000 SF. Type: Engineer wood fiber, 16" deep. Location: Adjacent to hard surface play area.
<b>Dumpster Area</b>	Type: Designated area to accommodate one 8 YD garbage dumpster and one 8 YD recycle dumpster. Location: Adjacent to service drive with direct access for refuse trucks. Close to exterior door.	Type: Designated area to accommodate one 8 YD garbage dumpster and one 8 YD recycle dumpster with masonry screen walls on three sides. Location: Adjacent to service drive with direct access for refuse trucks. Centrally located and close to exterior door at a main corridor.

# ELEMENTARY SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Portable Classroom Infrastructure</b>	None.	Type: Asphalt surface with underground vaults with drains to storm system and conduit for power, telephone, intercom, data, fire alarm, EMS and security systems for 6 portable classrooms. Location: Close to classroom area and building entrance. Not visible from street.
<b>SITE IMPROVEMENTS</b>		
<b>Fences and Gates</b>	Type: Chainlink fencing at perimeter of property at play field areas and adjacent to other property. 12' wide chainlink gates at all fence areas for direct vehicle access. Height: 6' high at perimeter of site except at front of school. 6' high at stormwater detention ponds and wetlands adjacent to play areas. 4' high stormwater detention ponds and wetlands separated from play areas.	Type: Chainlink fencing at perimeter of property at play field areas and adjacent to other property. 16' wide chainlink gates at all fence areas for direct vehicle access. Ornamental metal fencing adjacent to roadways and at stormwater detention ponds and wetlands at front of school with 16' gates for vehicle access. Height: 6' high at perimeter of site except at front of school. 6' high at stormwater detention ponds and wetlands adjacent to play areas. 4' high stormwater detention ponds and wetlands separated from play areas.
<b>Backstop Fencing</b>	Type: 12' wide x 12' tall chainlink. Location: 1 at corner of grass play area.	Type: 40' wide x 16' high, three section chainlink with concrete mow strip at base. Location: 2 at opposite corners of grass play area.
<b>Pipe Rail Gates and Railings</b>	Gates: 12' wide made from galvanized steel pipe with padlock hardware and reflective warning tape. Located at driveway access to delivery area and hard surface play area. Railings: Made from galvanized steel pipe.	Gates: 16' wide made from galvanized steel pipe with padlock hardware and reflective warning tape. Located at driveway access to delivery area and hard surface play area. Railings: Made from galvanized steel pipe, ADA compliant.
<b>Retaining Walls</b>	Type: Concrete or segmental block at play areas. Rockery or segmental block at non-play areas.	Type: Concrete or segmental block at play areas. Rockery or segmental block at non-play areas.
<b>Bicycle Racks</b>	Quantity: Racks for 12 bikes at full-busing schools. Racks for 24 bikes at partial or non-busing schools. Type: Galvanized metal. Location: Near front of school.	Quantity: Racks for 12 bikes at full-busing schools. Racks for 36 bikes at partial or non-busing schools. Type: Galvanized "ribbon" metal. Location: Near front of school and visible from main office.
<b>Dumpsters</b>	Quantity: One 8 YD garbage dumpster and one 8 YD recycle dumpster. Location: At dumpster area at service drive.	Quantity: One 8 YD garbage dumpster and one 8 YD recycle dumpster. Location: At dumpster enclosure at service drive.
<b>Exterior Benches</b>	Quantity: 2 at front of school. 8 at hard surface play area. Type: Durable non-wood material.	Quantity: 2 at front of school. 12 at hard surface play area. 8 at bus loading area. Type: Prefinished metal "ribbon" bench.
<b>Exterior Waste Receptacles</b>	Quantity: Two at outdoor play area, one at bus loading area, and one at each main entry. Type: Heavy-duty galvanized can with push door dome top.	Quantity: One at grass play area, two at hard surface play area, one at bus loading area, and one at each main entry. Type: Heavy-duty galvanized can with push door dome top at bus loading and play areas, prefinished metal "ribbon" container with push door dome top at each main entry.
<b>Exterior Bleachers</b>	None.	None.
<b>Flag Pole</b>	Type: 25' painted metal. Location: Front of school and accessible from hard surface.	Type: 40' spun aluminum with internal halyard. Location: Front of school and accessible from hard surface.

# ELEMENTARY SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Climbing Equipment</b>	Type: Area 1 - suitable for children 4 - 7 years old. Area 2 - suitable for children 7-12. All equipment non-wood components and conforming to CPSC "Handbook for Public Playground Safety".	Type: Area 1 - suitable for children 4 - 7 years old. Area 2 - suitable for children 7-12. All equipment non-wood components and conforming to CPSC "Handbook for Public Playground Safety".
<b>Playground Equipment</b>	Basketball Hoops: Heavy-duty metal backboards and hoops with nylon nets. 6 at Playshed, 2 at hard surface play area. Tetherball: 4 at hard surface play area. Pickleball: 2 at hard surface play area. Box hockey: 4 at hard surface play area.	Basketball Hoops: Heavy-duty metal backboards and hoops with nylon nets. 6 at Playshed, 4 at hard surface play area. Tetherball: 6 at hard surface play area. Pickleball: 6 at hard surface play area with 4 allowed to be located at future portable classroom area. Box hockey: 6 at hard surface play area. Funnel ball: 1 at hard surface play area.
<b>Playground Striping</b>	Basketball court: 1 at hard surface play area. Tetherball circle: 4 at hard surface play area. Pickleball court: 2 at hard surface play area. Box hockey circle: 4 at hard surface play area.	Basketball court: 2 at hard surface play area. Tetherball circle: 6 at hard surface play area. Pickleball court: 6 at hard surface play area with 4 allowed to be located at future portable classroom area. Box hockey circle: 6 at hard surface play area. Funnel ball circle: 1 at hard surface play area. Fire drill lines: Queuing line with room number for each classroom at hard surface play area.
<b>Reader Board</b>	Type: Non-illuminated, 3' high x 6' wide pole mounted reader board with interchangeable letters and permanent school name. Location: At front of school.	Type: Non-illuminated, 4' high x 8' wide reader board mounted on both sides of site sign with interchangeable letters and locking clear plastic cover. Location: Mounted on site sign at front of school and visible from two directions.
<b>Site Sign</b>	Type: Monument sign with school name and address. Location: At front of school.	Type: Concrete or masonry monument sign with school name, address and built-in readerboard. Location: At front of school.
<b>Traffic Control Signs</b>	Type: As needed for traffic and parking control. Location: At HC parking stalls, maintenance parking stalls, delivery vehicle stalls, bus loading area, student drop off / pick up zone, parking lots, service drive, entry roads.	Type: As needed for traffic and parking control. Location: At HC parking stalls, maintenance parking stalls, delivery vehicle stalls, bus loading area, student drop off / pick up zone, parking lots, service drive, entry roads.
<b>Pavement Markings</b>	Type: Painted lines at cross walks, stop bars, traffic arrows, parking stalls, HC parking symbols, fire lanes, and numbers at bus stalls. Location: At bus loading area, drop off / pick up zone, parking lots, service drive, entry roads.	Type: Painted lines at parking stalls, HC parking symbols, and fire lanes. Thermoplastic markings at cross walks, stop bars, traffic arrows and numbers at bus stalls. Location: At bus loading area, drop off / pick up zone, parking lots, service drive, entry roads.
<b>LANDSCAPING</b>		
<b>Shrubs / Groundcover</b>	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department with automated irrigation system. Location: At building perimeter, parking lot islands, and perimeter landscape buffers.	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department with automated irrigation system. Location: At building perimeter, parking lot islands, and perimeter landscape buffers.
<b>Trees</b>	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department. Location: At lawn areas, street frontage, parking lot islands, and perimeter landscape buffers.	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department. Location: At lawn areas, street frontage, parking lot islands, and perimeter landscape buffers.

# ELEMENTARY SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Wetlands</b>	Type: As required by ordinance with temporary irrigation system. Location: As required by ordinance and separated from playground areas.	Type: As required by ordinance with temporary irrigation system. Location: As required by ordinance and separated from playground areas.
<b>Irrigation System</b>	Type: Automated system with separate water meter. Location: At lawns, grass play areas, landscape areas and wetlands.	Type: Automated system controlled by EMS with separate water meter. Location: At lawns, grass play areas, landscape areas and wetlands.
<b>UTILITIES</b>		
<b>Water System</b>	Type: Ductile iron pipe with separate domestic and fire service systems, deduct meter for irrigation system, backflow preventor and FDC on fire system. Size: As required for flow requirements. Location: As required by local water purveyor.	Type: Ductile iron pipe with separate domestic and fire service systems, separate (non-deduct) meter for irrigation system, backflow preventor and FDC on fire system. Supplemental electronic meters for domestic and irrigation systems located in Main Mechanical Room and connected to EMS. Size: As required for flow requirements. Location: As required by local water purveyor with domestic and irrigation meters located close to building.
<b>Sanitary Sewer System</b>	Type: PVC or concrete pipe with positive slope in compliance with Dept. of Ecology "Orange Book". Size: 6" diameter side and main sewer. Location: As required by local sewer purveyor with manhole structures easily accessible for maintenance.	Type: PVC pipe with ductile iron pipe where cover is less than 24". Positive slope in compliance with Dept. of Ecology "Orange Book" and locking manhole covers. Size: 6" diameter side and 8" diameter main sewer. Location: As required by local sewer purveyor with manhole structures easily accessible for maintenance.
<b>Storm Drainage System</b>	Type: Concrete pipe, ductile iron, PVC or corrugated polyethylene pipe. Size: 4" diameter footing and roof drains. 8" diameter site storm drains. Location: As required by local jurisdiction with drainage structures easily accessible for maintenance.	Type: PVC or corrugated polyethylene pipe with ductile iron pipe where cover is less than 24". Locking grates and Type 2 manhole structures where invert is deeper than 60". Clean outs at the base of all downspouts and at ends of roof and footing drain lines. Size: 6" diameter footing and roof drains. 8" diameter site storm drains. Location: As required by local jurisdiction with drainage structures easily accessible for maintenance.
<b>Natural Gas Service</b>	Type: Capacity as required for building gas load provided in inches or pounds. Location: Underground with gas meter adjacent to exterior wall of building.	Type: Capacity in pounds as required for building gas load with a minimum of 2 pounds and supplemental electronic meter located in Main Mechanical Room and connected to EMS. Location: Underground with gas meter adjacent to exterior wall of building.
<b>Fuel Storage Tanks</b>	Underground storage tanks: Steel with corrosion-resistant coating. Locate close to equipment receiving fuel and below an area that is accessible for future excavation. Above ground storage tanks: Steel with corrosion protection and secondary containment area. Locate close to equipment receiving fuel.	Underground storage tanks: Not acceptable. Above ground storage tanks: Steel with corrosion protection and secondary containment area. Locate close to equipment receiving fuel.
<b>Electrical Service</b>	Type: As required for calculated electrical load. Location: Underground.	Type: As required for calculated electrical load plus 15% spares with fully coordinated overcurrent protection. Location: Underground.

# ELEMENTARY SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Telephone Service</b>	Type: 8 voice grade lines comprised of 6 Centrex lines and 2 POTS lines. Size: 2" conduit. Location: Underground.	Type: 8 voice grade lines comprised of 6 Centrex line and 2 POTS lines. Size: Two 4" conduit. Location: Underground.
<b>Cable Television Service</b>	Type: Comcast Basic Cable service. Size: 2" conduit. Location: Underground.	Type: Comcast Basic Cable service. Size: Two 4" conduit. Location: Underground.
<b>Internet Connection</b>	Type: One T1 line with a 1.544 MB bandwidth. Location: Underground.	Type: Two T1 lines with combined 3.088 MB bandwidth. Location: Underground with spare 4" conduit for future expansion.
<b>Energy Usage - MBTUs per SF Building Area</b>	Annual usage: .052 MBTUs per SF.	Annual usage: .044 MBTUs per SF.
<b>Water Usage - Domestic Water per SF Building Area</b>	Annual usage: Average of existing elementary school facilities.	Annual usage: Average of lowest three existing elementary school facilities.
<b>Water Usage - Irrigation Water per SF Landscape Area</b>	Annual usage: Average of existing elementary school facilities.	Annual usage: Average of lowest three existing elementary school facilities.
<b>STRUCTURE</b>		
<b>Foundation</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>Floor Structure</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>Wall Structure - Bearing</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>Wall Structure - Non Bearing</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>Roof Structure</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Pitched roof built in compliance with building structural code currently in effect.
<b>BUILDING ENVELOPE</b>		
<b>Floors</b>	Ground level: Wood framing over ventilated crawl space. Upper levels: Wood framing with plywood subfloor.	Ground level: Reinforced concrete slab-on-grade with vapor retarder and capillary break. Upper level: Reinforced concrete over wood or metal decking.
<b>Exterior Wall Surface</b>	Type: Cement board siding, metal siding, concrete or window wall.	Type: Masonry.
<b>Exterior Wall Insulation</b>	Type: R-11.	Type: R-19 or greater if required by code.
<b>Exterior Windows</b>	Quantity: 48 SF of glazing per classroom. Type: Operable sash metal frames with dual glazing. Location: At all classrooms.	Quantity: 72 SF of glazing per classroom. Type: Operable sash prefinished aluminum frames with 1/4" dual glazing, low E coating, U-value less than 40, and integral blinds. Location: At all classrooms and offices.

# ELEMENTARY SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Exterior Doors</b>	Type: 16-gauge painted hollow metal door with hollow metal frame. Location: As required for ease of circulation and fire exiting. Size: 3' x 6'-8" with a pair of doors with removable mullion at exterior door of mechanical equipment spaces.	Type: 14-gauge hollow painted hollow metal door with hollow metal frame and U-value less than 0.40. Location: At first floor classrooms and as required for ease of circulation and fire exiting. Size: 3' x 7' except oversized door at Kitchen service entry and a pair of 3' x 7' doors with removable mullion at exterior door of mechanical equipment spaces.
<b>Soffits</b>	Type: Painted wood.	Type: Painted MDO plywood or prefinished metal.
<b>Flashing</b>	Type: Painted metal.	Type: Pre-finished 24-gauge sheet metal.
<b>Trim</b>	Type: Painted wood.	Type: Pre-finished 24-gauge sheet metal.
<b>Gutters and Downspouts</b>	Gutters: Painted metal located at edge of roof. Downspouts: Painted PVC or metal.	Gutters: Pre-finished 22-gauge sheet metal field formed in continuous lengths located at edge of roof. Downspouts: Pre-finished 11-gauge sheet metal with rain diverters at roof valleys and connected to storm drainage system or rain garden.
<b>Roof Membrane</b>	Low-sloped roof: Built-up roofing with mineral cap sheet. Pitched roof: 30-year fiberglass composition shingles.	Low-sloped roof: Single-ply Hypolon membrane. Pitched roof: Pre-finished 24-gauge metal.
<b>Roof Insulation</b>	Type: R-19.	Type: R-38 or greater if required by code, installed at roof level.
<b>Roof Accessories</b>	Type: Painted metal. Location: Minimum 5' separation from roof drains, edges and valleys.	Type: Pre-finished metal with protected electrical receptacle at all mechanical equipment. Location: Minimum 10' separation from roof drains, edges and valleys.
<b>Skylights</b>	Type: Translucent glazing and 300-pound point load capacity.	Type: Translucent, dual-surface, reinforced plastic glazing with pre-finished aluminum frame and 300-pound point load capacity.
<b>Fall Arrest System</b>	Type: Fall protection roof anchors in compliance with UMC, WISHA and OSHA standards. Location: In compliance with WISHA and OSHA standards.	Type: Fall protection roof anchors and railings in compliance with UMC, WISHA and OSHA standards. Location: In compliance with UMC, WISHA and OSHA standards.
<b>Canopies / Covered Walkways</b>	Type: Metal framed with single-ply Hypolon membrane or built-up roof with mineral cap sheet. Location: At exterior classroom doors where roof overhang not present.	Type: Metal framed with pre-finished metal roof. Location: At bus loading areas and exterior classroom doors where roof overhang not present.
<b>INTERIORS</b>		
<b>Floors - Classrooms</b>	Carpet: Synthetic pile with polypropylene / vinyl backing in seating area. VCT: 12" x 12" tile at sink area. Walk-off mat: Loose-laid mat with synthetic pile at exterior door.	Carpet: Synthetic pile with polypropylene / vinyl backing in seating area. VCT: 12" x 12" tile between exterior door and interior door and includes sink area. Walk-off mat: Glue-down mat with synthetic pile and polypropylene / vinyl backing at exterior doors.
<b>Floors - Corridors and Stairs</b>	Carpet: Synthetic pile with polypropylene / vinyl backing at corridors. VCT: 12" x 12" tile with abrasive nosing at stair treads. Walk-off mat: Loose-laid mat with synthetic pile at exterior doors.	Carpet: Synthetic pile with polypropylene / vinyl backing at corridors. VCT: 12" x 12" tile with abrasive nosing at stair treads. Walk-off mat: Glue-down mat with synthetic pile and polypropylene / vinyl backing at exterior doors.

# ELEMENTARY SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Floors - Gymnasium</b>	Type: Seamless rubber flooring.	Type: Maple hardwood flooring on sleeper system.
<b>Floors - Kitchen</b>	Type: Seamless flooring with abrasive finish.	Type: Unglazed quarry tile with abrasive surface over mortar bed.
<b>Floors - Library</b>	Carpet: Synthetic pile with polypropylene / vinyl backing. Walk-off mat: Loose-laid mat with synthetic pile at exterior door.	Carpet: Synthetic pile with polypropylene / vinyl backing in seating area. Walk-off mat: Glue-down mat with synthetic pile and polypropylene / vinyl backing at exterior doors.
<b>Floors - Restrooms</b>	Ceramic tile: Unglazed porcelain tile in student and public restrooms. Sheet vinyl: Sheet vinyl with coved base in staff, health and classroom restrooms.	Ceramic tile: Unglazed porcelain tile in student, public and staff restrooms. Sheet vinyl: Sheet vinyl with coved base in health and classroom restrooms.
<b>Floors - Support Spaces</b>	Carpet: Synthetic pile with polypropylene / vinyl backing at office, reception areas and work rooms. VCT: 12" x 12" tile at storage and telecommunications rooms. Concrete: Sealed concrete at custodial, mechanical and electrical rooms. Plywood: Plywood floor deck at catwalks and mechanical attics in wood frame buildings.	Carpet: Synthetic pile with polypropylene / vinyl backing at office, reception areas and work rooms. VCT: 12" x 12" tile at storage and telecommunications rooms. Sheet vinyl: Vinyl sheet flooring at custodial rooms. Concrete: Sealed concrete at mechanical and electrical rooms, and at catwalks and mechanical attics in metal frame buildings. Plywood: Plywood floor deck at catwalks and mechanical attics in wood frame buildings.
<b>Walls - Classrooms</b>	Type: Painted gypsum wallboard.	Type: Vinyl wall covering.
<b>Walls - Corridors and Stairs</b>	Gypsum wallboard: Painted wallboard at corridors and entry areas. Ceramic tile: Porcelain ceramic tile at sink alcoves.	Gypsum wallboard: Painted wallboard below chair rail and lockers in corridors and entry areas. Ceramic tile: Porcelain ceramic tile at sink alcoves. Vinyl wall material: Vinyl wall covering above chair rail and lockers in corridors.
<b>Walls - Gymnasium</b>	Wainscot: 7' high painted MDF or sealed masonry. Above wainscot: Painted gypsum wallboard or sealed masonry.	Wainscot: 7' high painted MDF or sealed masonry. Above wainscot: Painted gypsum wallboard or sealed masonry.
<b>Walls - Kitchen</b>	Perimeter walls: Gypsum wallboard with epoxy paint. Cooking island wall: FRP panels.	Perimeter walls: FRP panels. Cooking island wall: Stainless steel cladding.
<b>Walls - Library</b>	Type: Painted gypsum wallboard.	Type: Vinyl wall covering.
<b>Walls - Restrooms</b>	Gypsum wallboard: Painted wallboard at classroom and staff restrooms, and above wainscot in public and student restrooms. Ceramic tile: 7' high porcelain ceramic tile wainscot in public and student restrooms.	Gypsum wallboard: Painted wallboard above wainscot at classroom, health, public, staff, and student restrooms. Ceramic tile: 7' high porcelain ceramic tile wainscot in student and public restrooms. Plastic laminate: 40" high wainscot in classroom, health and staff restrooms.
<b>Walls - Support Spaces</b>	Gypsum wallboard: Painted wallboard in custodial, electrical, mechanical, office, reception, staff lounge, storage, and work rooms.	Gypsum wallboard: Painted wallboard in custodial, electrical, mechanical, office, reception, storage, and work rooms.
<b>Asbestos-Containing Materials</b>	Criteria: Asbestos-containing building materials present in a facility shall be intact, undisturbed and included in an asbestos management plan in compliance with AHERA regulations.	Criteria: Asbestos-containing building materials shall not be present.



# ELEMENTARY SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Interior Doors</b>	Classrooms: Hollow metal or solid core doors. Support spaces: Hollow metal or solid core doors. Corridors: Hollow metal at cross-corridor doors.	Classroom: 1-3/4" thick solid core doors with wood veneer. Support spaces: 1-3/4" thick solid core doors with wood veneer. Corridors: 16 gauge hollow metal at cross-corridor doors.
<b>Door Hardware</b>	Locksets: Schlage or Corbin with standard classroom function and keying that matches the school district's Schlage or Corbin Master Key system.	Closers and handles: ADA compliant. Door mullions: Removable and secured with key. Hinges: Continuous at high-use doors. Locksets: Schlage with Primus at exterior doors; standard classroom function plus exterior door locksets with inside cylinders keyed to unlock the outside and outside cylinders keyed to unlatch only; and keying that matches the school district's Schlage Great Grand Master Key system.
<b>Automatic Door Opener</b>	None.	Type: ADA compliant with keyed power shut off at door. Location: At main entry doors.
<b>Overhead Doors and Grilles</b>	Interior overhead doors and grilles: Manually operated up to 6' wide. Motorized operation when over 6' wide. Fire-rated overhead doors and grilles shall be activated by local smoke or heat detectors. Exterior overhead doors and grilles: Manually operated.	Interior overhead doors and grilles: Manually operated up to 6' wide. Motorized operation when over 6' wide. Fire-rated overhead doors and grilles shall be activated by local smoke or heat detectors. Exterior overhead doors and grilles: Manually operated up to 10' wide. Motorized operation when over 10' wide.
<b>Interior Windows</b>	Type: Wood or metal frame with glazing in compliance with applicable building codes.	Type: Metal frame with safety glass.
<b>Operable Walls</b>	Stage: Manually operated folding partition with STC 52 sound transmission separating Stage from Gym.	Gymnasium: Motorized divider curtain at center of room. Stage: Manually operated folding partition with STC 52 sound transmission separating Stage from Gym.
<b>Ceilings - Classrooms</b>	Type: Surface applied acoustical ceiling tile or suspended acoustical ceiling panels. Height: Minimum 9'.	Type: Surface applied acoustical ceiling tile or suspended acoustical ceiling panels. Height: Minimum 9'-6".
<b>Ceilings - Corridors</b>	Type: Surface applied acoustical ceiling tile or suspended acoustical ceiling panels. Height: Minimum 9'.	Type: Surface applied acoustical ceiling tile or 2' x 2' suspended acoustical ceiling panels. Height: Minimum 10'.
<b>Ceilings - Gymnasium</b>	Type: Painted gypsum board or exposed structure. Height: Minimum 20'.	Type: Exposed structure or surface applied acoustical ceiling tile. Height: Minimum 23'.
<b>Ceilings - Kitchen</b>	Type: Painted gypsum board, surface applied acoustical ceiling tile, or suspended acoustical ceiling panels. Height: Minimum 9'.	Type: 2'x4' suspended acoustical ceiling panels with scrubable surface and non-combustible rating for ceiling panels within 18" of cooking exhaust hood. Height: Minimum 10'.
<b>Ceilings - Library</b>	Type: Surface applied acoustical ceiling tile or suspended acoustical ceiling panels. Height: Minimum 10'.	Type: Surface applied acoustical ceiling tile or 2' x 2' suspended acoustical ceiling panels. Height: Minimum 10'.
<b>Ceilings - Restrooms</b>	Type: Acoustical ceiling tile. Height: Minimum 8' at classroom, health and staff restrooms, public and student restrooms.	Type: Painted gypsum board. Height: Minimum 8' at classroom, health and staff restrooms, 9' at public and student restrooms.

# ELEMENTARY SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Ceilings - Support Spaces</b>	Gypsum board: Custodial and general storage rooms, minimum 9'-0" high. Gym storage rooms minimum 9'-6" high. Suspended acoustical ceiling panels: Conference rooms, offices and workrooms, minimum 8'-6" high.	Gypsum board: Custodial and general storage rooms, minimum 9'-0" high. Gym storage rooms minimum 9'-6" high. Suspended acoustical ceiling panels (2'x2'): Conference rooms and offices, minimum 9' high. Suspended acoustical ceiling panels (2'x4'): Workrooms, minimum 9' high.
<b>EQUIPMENT AND SPECIALTIES</b>		
<b>Marker Boards</b>	Quantity: One 16' board at classrooms. One 4' board at conference rooms. One 4' board at kitchen serving area. Type: Ceramic coated steel. Location: Classrooms and conference rooms.	Quantity: One 16' board and one 8' board at classrooms. One 8' board at conference rooms. Power and data outlets at 16' board in classrooms for future Smartboard connection. One 4' board at kitchen serving area. Type: Ceramic coated steel.
<b>Tackboards</b>	Quantity: 16' in classrooms, 4' in offices, 8' in lounge, 4' in conference rooms, and 8' tackboard in corridors at front entry and adjacent to each classroom. Type: Cedar, cork or vinyl-covered cork. Location: Classrooms, offices, staff lounge, conference rooms and corridors.	Quantity: 16' at lounge, 8' at offices and conference rooms. Type: Vinyl-covered cork at offices, staff lounge and conference rooms. Vinyl wall covering in lieu of tackboards at classrooms. Location: Offices and conference rooms.
<b>Interior Signage</b>	Type: High impact acrylic room signs with room name and number. Cast metal dedication plaque. Location: Room sign at main entry door to all rooms. Dedication plaque at entry lobby.	Type: ADA compliant, high impact acrylic room signs with room name and number. Cast metal dedication plaque. Location: Room sign at main entry door to all rooms. Dedication plaque at entry lobby.
<b>Toilet Partitions</b>	Type: Plastic laminate covered fiber board. Location: Partitions at toilet stalls.	Type: Plastic laminate covered phenolic panels. Location: Partitions at toilet stalls and screens at urinals.
<b>Toilet Accessories</b>	Type: Mirrors, paper towel dispensers, soap dispensers, grab bars, tampon dispensers and sanitary napkin receptacles. Location: Mirrors at restroom hand wash areas. Paper towel and soap dispensers at all sinks. Grab bars at ADA accessible toilet stalls. Tampon dispenser and sanitary napkin receptacle at staff women's restrooms.	Type: Mirrors, paper towel dispensers, soap dispensers, grab bars, tampon dispensers and sanitary napkin receptacles. Location: Mirrors at restroom hand wash areas. Paper towel and soap dispensers at all sinks. Grab bars at ADA accessible toilet stalls. Tampon dispenser and sanitary napkin receptacle at staff women's restrooms.
<b>Lockers</b>	Corridors: 30 duplex or double tier metal lockers for each classroom not including the Stage classroom, without combination locks. Kitchen and Maintenance Office: 3 individual metal lockers, each 12" W x 15" D x 60" H, secured with padlock.	Corridors - Kindergarten - 2nd Grades: 28 single tier metal lockers for each classroom, 9" W x 12" D x 48" H, with positive latch handles, and without combination locks. Corridors - 3rd through 5th Grades: 30 double tier metal lockers for each classroom, 15" W x 12" D x 30" H, with positive latch handles, and without combination locks Kitchen and Maintenance Office: 3 individual metal lockers, each 12" W x 15" D x 60" H, secured with padlock, in each space.
<b>Residential Appliances</b>	Type: Residential grade. Microwave ovens: Portable microwaves in Staff Lounge. Refrigerator: Refrigerators in Staff Lounge.	Type: Residential grade, ADA compliant and ENERGY STAR qualified. Microwave ovens: Portable microwaves in Staff Lounge. Refrigerator: Large capacity refrigerators in Staff Lounge.

# ELEMENTARY SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Projection Screens</b>	Classrooms: 70" W x 70" H with manual operation. Library: Two 70" W x 70" H with manual operation. Gymnasium: 144" W x 144" H with motorized operation.	Classrooms: 70" W x 70" H with manual operation. Library: Two 120" W x 90" W with motorized operation and one 70" W x 70" H with manual operation. Gymnasium: 144" W x 144" H with motorized operation.
<b>Stage Curtains</b>	Stage curtain: Center fold curtain with valence between stage and gym or stage on commons. Stage backdrop curtain: None.	Stage curtain: Center fold curtain with valence between stage and gym or stage on commons. Stage backdrop curtain: Curtain on track at perimeter walls of stage.
<b>Window Covering</b>	Classrooms: Roller shades or coated fabric curtains at exterior windows. Horizontal louver mini-blinds at interior relite windows. Conference rooms and offices: Coated fabric curtains or horizontal louver mini-blinds at exterior windows. Horizontal louver mini-blinds at interior relite windows. Gymnasium: None. Library: Roller shades or coated fabric curtains. Interior windows: Horizontal louver mini-blinds at interior relite windows.	Classrooms: Integral blinds between window glass at exterior windows. Horizontal louver mini-blinds at interior relite windows. Conference rooms and offices: Integral blinds between window glass at exterior windows. Horizontal louver mini-blinds at interior relite windows. Gymnasium: Roller shades. Library: Roller shades or integral blinds between window glass at exterior windows. Interior windows: Horizontal louver mini-blinds at interior relite windows.
<b>Cabinets - Classrooms</b>	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to a master system. 6 LF counter with low cabinets, 3 LF flat file, 3 LF tall bookshelf, 3 LF tall storage, 12 LF upper cabinets, 3 LF wardrobe.	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to the building master key system. 12 LF counter with low cabinets, 4 LF flat file, 12 LF low bookshelves, 3 LF tall bookshelf, 3 LF tall storage, 16 LF upper cabinets, 22 LF upper / upper cabinets, 3 LF wardrobe.
<b>Cabinets - Offices</b>	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to a master system. Quantity: As needed to accommodate office use.	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, and locks keyed to the building master key system. Quantity: As needed to accommodate office use.
<b>Cabinets - Storage</b>	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to a master system. Quantity: As needed to accommodate storage needs.	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to the building master key system. Quantity: As needed to accommodate storage needs.
<b>Cabinets - Support Spaces</b>	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to a master system. Quantity: As needed to accommodate support space use.	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to the building master key system. Quantity: As needed to accommodate support space use.
<b>Display Cases</b>	Quantity: 8 LF at front enter foyer. Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to a master display case system.	Quantity: 12 LF at front enter foyer. Type: Recessed aluminum frame display case with hinged door, tackboard at back surface, and keyed to a building master key system.
<b>Equipment - Art</b>	Type: Electric kiln with ceiling exhaust system. Location: In dedicated room with fire detection system.	Type: Electric kiln with Environment ventilation system and ceiling exhaust system. Location: In dedicated room with fire sprinkler system.

# ELEMENTARY SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Equipment - Classrooms</b>	Computers: One computer per each FTE staff and one computer for each 4 students in the building with computers not exceeding 5 years in age. Printers: One ink jet printer not exceeding 4 years in age per classroom or one laser printer not exceeding 8 years in age per two classrooms.	Computers: One computer per each FTE staff and one computer for each 4 students in the building with computers not exceeding 5 years in age. Printer: One ink jet printer not exceeding 2 years in age per classroom or one laser printer not exceeding 6 years in age per two classrooms. LCD Projector and Camera: One projector with ceiling mount framework and document camera not exceeding 8 years in age.
<b>Equipment - Food Service</b>	Type: Equipment adequate to accommodate a full service kitchen and includes ventilation hood, separate walk-in cooler and freezer, and cooking, dishwashing and serving equipment.	Type: Equipment adequate to accommodate a full service kitchen and includes ventilation hood, separate walk-in cooler and freezer, convection oven, combi-oven, tilting kettle, two-burner cooktop, mixer and stand, 6 hot food wells, pre-rinse assembly and hose reel, dishwasher with booster heater. Gas-fired when practical.
<b>Equipment - Gymnasium</b>	Basketball backboards: 2 ceiling suspended, motorized backboards at main court. 4 side swing manually operated backboards at side walls. Divider curtain: None. Scoreboard: 3' H x 6' W electronic scoreboard in Gym.	Basketball backboards: 2 ceiling suspended, motorized backboards at main court. 4 side swing manually operated adjustable height backboards at side walls. Divider curtain: Vinyl curtain with motorized operation. Scoreboard: 4'H x 8'W electronic scoreboard with control cable built-in at Gym.
<b>Equipment - Library</b>	Computers: 15 student computers, 3 computer search stations, 1 staff computer, not exceeding 5 years in age. Printers: Two ink jet printers not exceeding 4 years in age or two laser printers not exceeding 10 years in age or a combination of 2 printers. Television: One television monitor with DVD / VCR player, not exceeding 10 years in age. Library Management Equipment: Check-out system not exceeding 6 years in age.	Computers: 30 student computers, 4 computer search stations, 2 staff computers, not exceeding 4 years in age. Printers: Two ink jet printers not exceeding 2 years in age or two laser printers not exceeding 6 years in age or a combination of 2 printers. Television: One television monitor with DVD / VCR player, not exceeding 8 years in age. Library Management Equipment: Check-out system not exceeding 4 years in age. LCD Projector and Camera: One projector with ceiling mount framework and document camera not exceeding 8 years in age.
<b>Equipment - Offices / Workrooms</b>	Computers: Staff computers not exceeding 5 years in age. Printers: Ink jet printers not exceeding 4 years in age and laser printers not exceeding 10 years in age. Copy Machines: Two 60 copies per minute machines, one 25 copies per minute machine, not exceeding 8 years in age. FAX Machine: Not exceeding 10 years in age.	Computers: Staff computers not exceeding 4 years in age. Printers: Ink jet printers not exceeding 2 years in age and laser printers not exceeding 6 years in age. Copy Machines: Two 60 copies per minute networkable machines, one 25 copies per minute networkable machine, not exceeding 7 years in age. FAX Machine: Not exceeding 6 years in age.
<b>Equipment - Support Spaces</b>	Type: As needed to accommodate the support area activities. Quantity: As needed to accommodate the support area activities.	Type: As needed to accommodate the support area activities. Quantity: As needed to accommodate the support area activities.

# ELEMENTARY SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Furniture - Classrooms</b>	<p>Student Chairs: Hard plastic not exceeding 30 years in age.</p> <p>Staff Chairs: Upholstered not exceeding 15 years in age.</p> <p>Student Desks: Hard plastic not exceeding 30 years in age.</p> <p>Teacher Desks: Plastic laminate surfaced not exceeding 30 years in age.</p> <p>Tables: Plastic laminate surfaced not exceeding 30 years in age.</p> <p>File Cabinets: Metal not exceeding 40 years in age.</p>	<p>Student Chairs: Hard plastic not exceeding 20 years in age.</p> <p>Staff Chairs: Upholstered not exceeding 10 years in age.</p> <p>Student Desks: Hard plastic not exceeding 20 years in age.</p> <p>Teacher Desks: Plastic laminate surfaced not exceeding 20 years in age.</p> <p>Tables: Plastic laminate surfaced not exceeding 20 years in age.</p> <p>File Cabinets: Metal not exceeding 30 years in age.</p>
<b>Furniture - Library</b>	<p>Student Chairs: Hard plastic not exceeding 30 years in age.</p> <p>Staff Chairs: Upholstered not exceeding 15 years in age.</p> <p>Teacher Desks: Plastic laminate surfaced not exceeding 30 years in age.</p> <p>Tables: Plastic laminate surfaced not exceeding 30 years in age.</p>	<p>Student Chairs: Hard plastic not exceeding 20 years in age.</p> <p>Staff Chairs: Upholstered not exceeding 10 years in age.</p> <p>Teacher Desks: Plastic laminate surfaced not exceeding 20 years in age.</p> <p>Tables: Plastic laminate surfaced not exceeding 20 years in age.</p>
<b>Furniture - Offices / Workrooms</b>	<p>Staff Chairs: Upholstered not exceeding 15 years in age and hard plastic chairs not exceeding 30 years in age.</p> <p>Teacher Desks: Plastic laminate surfaced not exceeding 30 years in age.</p> <p>Tables: Plastic laminate surfaced not exceeding 30 years in age.</p> <p>File Cabinets: Metal not exceeding 40 years in age.</p>	<p>Staff Chairs: Upholstered not exceeding 10 years in age and hard plastic chairs not exceeding 20 years in age.</p> <p>Teacher Desks: Plastic laminate surfaced not exceeding 20 years in age.</p> <p>Tables: Plastic laminate surfaced not exceeding 20 years in age.</p> <p>File Cabinets: Metal not exceeding 30 years in age.</p>
<b>Furniture - Support Spaces</b>	<p>Type: As needed to accommodate the support area activities.</p> <p>Quantity: As needed to accommodate the support area activities.</p>	<p>Type: As needed to accommodate the support area activities.</p> <p>Quantity: As needed to accommodate the support area activities.</p>
<b>Artwork</b>	<p>School provided: Temporary artwork displays subject to approval by principal. Permanent artwork approved by school principal.</p> <p>Washington State art collection: Protected against damage in a reasonable manner and secured in place to protect against unauthorized removal.</p>	<p>School provided: Temporary artwork displays subject to approval by principal and protected as appropriate. Permanent artwork approved by school principal and secured in place to protect against unauthorized removal.</p> <p>Washington State art collection: Protected against damage in a reasonable manner and secured in place to protect against unauthorized removal.</p>
<b>Elevator</b>	<p>Type: Hydraulic with acoustically isolated equipment room.</p> <p>Size: 80" W x 65" D interior cab size.</p>	<p>Type: Hydraulic with acoustically isolated equipment room.</p> <p>Size: 92" W x 65" D interior cab size.</p>
<b>Vending Machines</b>	<p>Type: Refrigerated and non-refrigerated machines with motion sensitive illumination control.</p> <p>Quantity: 1 machine.</p> <p>Location: At Staff Lounge.</p>	<p>Type: Refrigerated and non-refrigerated machines with motion sensitive illumination control.</p> <p>Quantity: 2 machines.</p> <p>Location: At Staff Lounge.</p>
<b>Wheelchair Lift</b>	<p>Type: ADA compliant with key access controls.</p> <p>Location: Where needed for ADA compliance.</p> <p>Size: 36" W x 48" D platform space.</p>	<p>Type: ADA compliant with controls keyed to the building master key system.</p> <p>Location: Where required for ADA compliance and integrated with building architecture.</p> <p>Size: 36" W x 48" D platform space.</p>
<b>MECHANICAL</b>		
<b>Fire Suppression System</b>	<p>Fire sprinkler system: Wet or dry system in compliance with NFPA 13, and local building codes.</p> <p>Fire suppression: Fire suppression system at Kitchen exhaust hood.</p>	<p>Fire sprinkler system: Wet system in compliance with NFPA 13, local building codes and FM Global Data Sheets 2-8 and 3-6.</p> <p>Fire suppression: Wet agent fire suppression system at Kitchen exhaust hood.</p>

# ELEMENTARY SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Plumbing Insulation</b>	Type: Insulation in compliance with building code at time of construction on domestic hot water lines.	Type: Insulation in compliance with current building code on domestic hot water lines and 1/2" insulation on domestic cold water lines.
<b>Domestic Water System</b>	Piping: Type L copper. Pumps: Bronze fitted pumps. Heating: Gas or electric heaters.	Piping: Type L copper. Pumps: All bronze pumps with isolation valves at both sides of pumps. Heating: Gas heaters.
<b>Domestic Water Quality</b>	Criteria: A maximum level of .015 mg/L (15ppb) of lead and 1.3 mg/L (1300 ppb) of copper in tap water.	Criteria: A maximum level of .015 mg/L (15ppb) of lead and 1.3 mg/L (1300 ppb) of copper in tap water.
<b>Soil and Waste</b>	Type: Cast iron pipe and fittings.	Type: Cast iron pipe and fittings.
<b>Plumbing Fixtures</b>	Water closets: Vitreous china. Urinals: Vitreous china. Lavatories: Vitreous china wall-hung sinks and stainless steel counter-mounted sinks. Drinking fountains: Vitreous china or stainless steel. Trap primers: None.	Water closets: ADA compliant, wall-hung vitreous china with water saving valves . Urinals: ADA compliant, wall-hung vitreous china with water saving valves. Lavatories: ADA compliant, vitreous china wall-hung sinks and stainless steel counter-mounted sinks with self-closing faucets. Drinking fountains: ADA compliant, stainless steel. Trap primers: Electronic trap primers with manual override.
<b>Natural Gas Piping</b>	Type: Black steel, Schedule 40 pipe with butt-weld fittings.	Type: Black steel, Schedule 40 pipe with butt-weld fittings.
<b>HVAC Duct Insulation</b>	Type: In compliance with building code at time of construction.	Type: In compliance with current building code.
<b>HVAC Pipe Insulation</b>	Type: In compliance with building code at time of construction.	Type: In compliance with current building code.
<b>Hydronic Piping</b>	Type: Type L copper or Schedule 40 black steel.	Type: Type L copper at piping below 2" diameter. Schedule 40 black steel at 2" diameter piping and above with welded or rolled grooved Victualic fittings.
<b>Hydronic Pumps</b>	Type: Vertical in-line or base mounted end-suction pumps.	Type: Vertical in-line or base mounted end-suction pumps with redundant pumps for back-up.
<b>Refrigerant Piping</b>	Type: Type L hard drawn copper tube, refrigeration grade.	Type: Type L hard drawn copper tube, refrigeration grade.
<b>HVAC Ductwork</b>	Metal ducts: Galvanized sheet metal. Non-metal ducts: Insulated, reinforced flexible duct with vapor barrier jacket.	Metal ducts: Galvanized sheet metal per SMACNA Standards with welded stainless steel at Kitchen exhaust hoods. Non-metal ducts: Insulated, reinforced flexible duct with vapor barrier jacket allowed at locations approved by school district.
<b>HVAC Fans</b>	Type: Forward curved or backward inclined units with 1" filters, non-asbestos flexible connections, standard motors, and belt guards.	Type: Forward curved or backward inclined units with neoprene flexible connections, high efficiency motors, belt guards, minimum two rows of coils, drain valves, and 2" filters contained in factory-built filter rack.
<b>Heating / Ventilation System - Classrooms</b>	Type: Individual temperature control and minimum 450 CFM outside air supply in each classroom.	Type: Individual temperature control, minimum 450 CFM outside air supply, and off-hour override switch in each classroom
<b>Heating / Ventilation System - Gymnasium</b>	Type: Individual temperature control and minimum 5% outside air supply.	Type: Individual temperature control, minimum 5% outside air supply, CO2 sensor for ventilation control, and manual bypass timer in Maintenance Office.

# ELEMENTARY SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Heating / Ventilation System - Library</b>	Type: Individual temperature control and minimum 15% outside air supply.	Type: Individual temperature control, minimum 15% outside air supply, mechanical cooling, and manual bypass timer in Maintenance Office.
<b>Heating / Ventilation System - Offices</b>	Type: Temperature control shared by common areas and minimum 15% outside air supply.	Type: Temperature control shared by common offices, minimum 20% outside air supply, and mechanical cooling in main office areas used during summer months.
<b>Heating / Ventilation System - Workrooms</b>	Type: Individual temperature control and high capacity ventilation system where high volume photocopy machines are used.	Type: Individual temperature control and independent high capacity ventilation system where high volume photocopy machines are used.
<b>Heating / Ventilation System - Support Spaces</b>	Type: Heating and ventilation systems capable of maintaining comfortable temperature range and ventilation.	Type: Heating and ventilation systems capable of maintaining comfortable temperature range and provide ventilation supply in compliance with current codes.
<b>Air Terminal Units</b>	Type: Steel or aluminum units.	Type: Steel or aluminum units with bird screens at intakes. Heavy-duty units at Gymnasiums and multipurpose rooms.
<b>Ventilation Hoods</b>	Kiln room: Galvanized sheet metal canopy hood above kiln. Kitchen: Welded stainless steel filter hood above cooking equipment.	Kiln room: Down draft hood at each kiln. Kitchen: Welded stainless steel extracting hood with filters above cooking equipment.
<b>Boilers</b>	Type: Single gas fired hot water or steam boiler.	Type: Dual hot water, gas-fired, fire-tube, minimum 82% efficient, steel boilers each sized for 66% of load.
<b>Furnaces</b>	Type: Gas fired with 80% efficiency.	Type: Gas fired with minimum 80% efficiency.
<b>Heat Exchangers</b>	Type: Plate-type with 50% efficiency.	Type: Plate-type with 66% efficiency.
<b>Refrigerant Compressors and Condensers</b>	Type: Air cooled units. Location: Single unit per system.	Type: Air cooled units. Location: Single unit serving multiple systems.
<b>Water Chillers</b>	Type: Air cooled with dual compressors.	Type: Dual air cooled units with minimum of 2 compressors each and sound attenuation treatment.
<b>Exhaust Fans</b>	Type: Steel utility or aluminum dome type. Location: Easily accessible for maintenance.	Type: Steel utility or aluminum dome type. Location: Non-kitchen exhaust fans located in catwalk or mechanical attic area, not on roof. Kitchen exhaust fans located platform on roof with adjacent roof hatch plus walking platform where roof slope exceeds 3:12 slope.
<b>Heat Pumps</b>	Type: Air cooled units. Location: One unit per zone.	Type: Air cooled units with automatic compressor lock out. Location: One unit per zone.
<b>Fan Coil Units</b>	Type: Units with steel housing, minimal filters, and no outside air.	Type: Units with steel housing, 1" filters, and damper controlled outside air .
<b>Unit Ventilators</b>	Type: Units with heavy-duty steel housing and capacity based on code required CFM.	Type: Units with heavy-duty steel housing, capacity based upon code required CFM, factory installed access panels and filter racks, and NC-35 sound rating.
<b>Unit Heaters</b>	Type: Propeller type gas or hot water units.	Type: Propeller type gas or hot water units.

# ELEMENTARY SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Automatic Controls</b>	Type: Direct digital control system with individual zone control and thermostat for each instructional space and office area, Local Operator's Station at building's Maintenance Office, and connected to Central Operator's Station at Support Services Center.	Type: Direct digital control system with BACnet automation system, individual zone control and thermostat for each instructional space and office area, Dynamic Data exchange, Local Operator's Station at building Maintenance Office, and connected to Central Operator's Station at Support Services Center.
<b>ELECTRICAL</b>		
<b>Transformers</b>	Type: Dry type with capacity for calculated load.	Type: Low noise, dry type with capacity for calculated load plus 20%.
<b>Switchgear</b>	Type: Fuse or circuit breaker type with capacity for calculated load.	Type: Fuse or circuit breaker type with capacity for calculated load plus 15% and includes 15% spares.
<b>Panelboards</b>	Type: Circuit breaker type.	Type: Circuit breaker type with 15% spares.
<b>Power Distribution</b>	Type: Copper for #1 wire or less. Copper or aluminum for wire greater than #1.	Type: Copper wire.
<b>Power Conditioning</b>	None.	Type: Transient voltage surge suppressors. Location: At panelboards for protection of lighting, receptacles and computers.
<b>Wiring Devices</b>	Type: 15 or 20 amp.	Type: 20 amp.
<b>Electrical Outlets - Classrooms</b>	Quantity: Three duplex electrical receptacles for student computers, one at teacher's work station, plus one at each wall per classroom.	Quantity: Six duplex electrical receptacles for student computers, two at teacher's work station, one in floor box at front of classroom, one at ceiling for projector, plus two at each wall per classroom.
<b>Electrical Outlets - Library</b>	Quantity: One duplex electrical receptacle for each of two student computer stations, one at check-out station, plus one at each wall.	Quantity: One duplex electrical receptacle for each student computer station, two at check-out station, one in floor box at instructional area, one at ceiling for projector, plus two at each wall.
<b>Electrical Outlets - Offices / Workrooms</b>	Quantity: One duplex electrical receptacle for each staff workstation, one for each copy and fax machine, plus one at each wall.	Quantity: Two duplex electrical receptacles for each staff workstation, one for each copy and fax machine, plus one at each wall.
<b>Electrical Outlets - Support Spaces</b>	Quantity: One duplex electrical receptacle for each electrical equipment item, one at every 80' on center in corridors, plus one at each wall.	Quantity: One duplex electrical receptacles for each electrical equipment item, one at every 50' on center in corridors, plus one at each wall.
<b>Electrical Outlets - Emergency Power</b>	None.	Quantity: Duplex electrical receptacles connected to emergency generator at MC Room, HC Rooms, Main Mechanical Room, Maintenance Office, Principal's Office, and Main Office area, mechanical catwalks and attic spaces.
<b>Circuit Protection Devices</b>	Type: Circuit breakers with fuses at selected equipment.	Type: Circuit breakers with fuses at selected equipment.
<b>Packaged Generator</b>	Type: Diesel-fired with belly or above ground tank and minimum 48-hour operation capability with capacity to operate emergency lighting, fire alarm system, telephone, intercom, telecommunications equipment, and selected electrical outlets.	Type: Diesel-fired with belly tank and minimum 48-hour operation capability with capacity to operate emergency lighting, stand-by lighting, fire alarm system, telephone, intercom, telecommunications equipment, and selected electrical outlets plus 10% additional capacity.
<b>Battery Equipment</b>	Type: Uninterrupted power supply for intercom, telephone, and energy management systems. Back-up battery for fire alarm system.	Type: Uninterrupted power supply for intercom, telephone, and energy management systems. Back-up battery for fire alarm system.



# ELEMENTARY SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Lighting - Exterior - Bus Loading</b>	Type: Pole or building mounted fixtures with 5.0 foot-candle level controlled by photocell and EMS. Location: Between building and bus loading area.	Type: Pole or building mounted fixtures with 5.0 foot-candle level controlled by photocell and EMS. Location: Between building and bus loading area.
<b>Lighting - Exterior - Main Entry</b>	Type: Pole or building mounted fixtures with 5.0 foot-candle level controlled by photocell and EMS. Location: At front entrance between building and entry drive.	Type: Pole or building mounted fixtures with 8.0 foot-candle level controlled by photocell and EMS. Location: At front entrance between building and entry drive.
<b>Lighting - Exterior - Parking</b>	Type: Pole mounted fixtures with 0.8 foot-candle level controlled by photocell and EMS. Location: At parking lots.	Type: Pole mounted fixtures with 1.0 foot-candle level controlled by photocell and EMS. Location: At parking lots.
<b>Lighting - Exterior - Pathways</b>	Type: Pole or building mounted fixtures with 1.0 foot-candle level controlled by photocell and EMS. Location: At pathways around building and between building and parking areas.	Type: Pole or building mounted fixtures with 1.5 foot-candle level controlled by photocell and EMS. Location: At pathways around building and between building and parking areas.
<b>Lighting - Exterior - Playground</b>	None.	Type: Pole or building mounted fixtures with 1.5 foot-candle level controlled by photocell and EMS with manual bypass timer. Location: At pathway between building and Playshed.
<b>Lighting - Exterior - Playshed</b>	None.	Type: Ceiling mounted fixtures with 15.0 foot-candle level controlled by photocell and EMS with manual bypass timer. Location: At Playshed ceiling.
<b>Lighting - Exterior - Service / Delivery</b>	Type: Pole or building mounted fixtures with 3.0 foot-candle level controlled by photocell and EMS with manual bypass timer. Location: At area between building and dumpsters.	Type: Pole or building mounted fixtures with 5.0 foot-candle level controlled by photocell and EMS with manual bypass timer. Location: At area between building and dumpsters.
<b>Lighting - Classrooms</b>	Type: Fluorescent fixtures with a minimum of 50 foot-candle level and maximum of 1.3 watts per SF.	Type: T-8 or T-5 fluorescent fixtures with parabolic louvers to control screen glare, minimum 50 foot-candle level and a maximum of 1.1 watts per SF.
<b>Lighting - Corridors</b>	Type: Fluorescent fixtures with a minimum 15 foot-candle level and a maximum of 0.8 watts per SF.	Type: T-8, T-5 and compact fluorescent fixtures with a minimum 15 foot-candle level and a maximum of 0.6 watts per SF.
<b>Lighting - Emergency</b>	Interior Pathways: An average of 1 foot-candle level at floor level at all paths of egress with a minimum of 0.3 foot-candle level at the center of paths of egress.	Interior Pathways: An average of 1 foot-candle level at floor level at all paths of egress with a minimum of 0.3 foot-candle level at the center of paths of egress. Standby Lighting: One standby light fixture connected to emergency generator in each classroom, office, restroom and mechanical equipment space.
<b>Lighting - Gymnasium</b>	Type: Fluorescent or metal halide fixtures with a minimum 20 foot-candle level and a maximum of 1.3 watts per SF.	Type: Metal halide fixtures, pendant and hook mounted with instant restart at emergency fixtures with a minimum 25 foot-candle level and a maximum of 1.2 watts per SF.
<b>Lighting - Kitchen</b>	Type: Fluorescent fixtures with a minimum 40 foot-candle level and a maximum of 1.5 watts per SF.	Type: T-8 or T-5 fluorescent fixtures with a minimum 50 foot-candle level and a maximum of 1.3 watts per SF.
<b>Lighting - Library</b>	Type: Fluorescent fixtures with a minimum 50 foot-candle level and a maximum of 1.3 watts per SF.	Type: T-8 or T-5 fluorescent fixtures with parabolic louvers to control screen glare with a minimum 50 foot-candle level and a maximum of 1.1 watts per SF.

# ELEMENTARY SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Lighting - Restrooms</b>	Type: Fluorescent fixtures with a minimum 20 foot-candle level and a maximum of 1.1 watts per SF.	Type: T-8, T-5 and compact fluorescent fixtures with a minimum 20 foot-candle level and a maximum of 0.8 watts per SF.
<b>Lighting - Support Spaces</b>	Type: Fluorescent fixtures with a minimum 50 foot-candle level and a maximum of 1.3 watts per SF.	Type: T-8 or T-5 fluorescent fixtures with parabolic louvers to control screen glare with a minimum 50 foot-candle level and a maximum of 1.1 watts per SF.
<b>Lighting - Stage</b>	Not applicable.	Type: Track-mounted lighting at ceiling at front of stage.
<b>Automatic Lighting Control</b>	Exterior lighting: Time clock and photocell control.	Exterior lighting: EMS and photocell control with separate zones. Interior lighting: Occupancy sensors in classrooms and corridors.
<b>Exit Signs</b>	Type: In compliance with building code at time of construction.	Type: In compliance with current building code and connected to emergency generator.
<b>Data Communications Cabling</b>	Backbone: Optical fiber between MC and HC locations. Wiring: Category 3 cable between computer equipment and MC or HC.	Backbone: 6 pair multimode optical fiber between MC and HC locations. Wiring: Category 5e below grade and Category 6 above grade between computer equipment and MC or HC.
<b>Data Communications Equipment</b>	Filter: Granular grade-level appropriate web content filtering. Router: 10 Mb WAN connectivity. Routing: Layer 3 capability in core switch at MC. Switch: 10 /100 / 1000 host capability. Traffic shaping: Site-based capability. WAN connectivity speed: 10 Mb. UPS: For routers, switches, and servers providing a minimum of 5 minutes of uninterrupted power.	Filter: Granular grade-level appropriate web content filtering. Router: 100 Mb WAN connectivity. Routing: Layer 3 capability in core switch at MC. Switch: 10 /100 / 1000 host capability. Traffic shaping: Site-based capability. WAN connectivity speed: 1,000 Mb. UPS: For routers, switches, and servers providing a minimum of 10 minutes of uninterrupted power.
<b>Data Communications Outlets - Classrooms</b>	Quantity: Six data outlets for student computers plus one at teacher's work station per classroom.	Quantity: Six data outlets for student computers, two at teacher's work station, and one in floor box at front of classroom per classroom and Stage.
<b>Data Communications Outlets - Library</b>	Quantity: One data outlet for each student computer station and one at check-out station.	Quantity: One data outlet for each student computer station, two at check-out station, and one in floor box at instructional area.
<b>Data Communications Outlets - Offices / Workrooms</b>	Quantity: One data outlet for each staff workstation and one for each printer.	Quantity: Two data outlets for each staff workstation, one for each remote printer, and one for each networked copy machine.
<b>Data Communications Outlets - Support Spaces</b>	Quantity: One data receptacle for each computer station and one for each printer located within the space.	Quantity: One data receptacle for each computer station and one for each printer located within the space.
<b>Wireless Data Communications</b>	None.	Type: Power and data outlets for secure wireless access and free-roaming capability in Library, Main Office, Gymnasium, and each classroom wing.

# ELEMENTARY SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Telephone / Intercom / Clock System</b>	<p>Communication system: Rauland Telecenter integrated communications system for telephones, voice mail, intercom, clock, class change tones and Enhanced 911.</p> <p>Clocks: Master clock with analog secondary clocks.</p> <p>Intercom: Voice controlled amplifiers with two-way loud speaking and handsets in all occupied spaces except call button in Gymnasium.</p> <p>Telephones: Digital PBX central exchange, voice mail system.</p>	<p>Communication system: Rauland Telecenter ISC integrated communications system for telephones, voice mail, intercom, clock, class change tones and Enhanced 911.</p> <p>Clocks: Rauland master clock. Analog secondary clocks in corridors, Gymnasium and commons. Digital secondary clocks in classrooms, office and support spaces.</p> <p>Intercom: Voice controlled amplifiers with two-way loud speaking and handsets in all occupied spaces except call button in Gymnasium.</p> <p>Telephones: Digital PBX central exchange, voice mail system.</p>
<b>Telephone Handsets</b>	<p>Single-line handset: Classrooms, conference rooms, Kitchen, Library, offices (unless otherwise noted), staff lounge, staff workroom.</p> <p>Multi-line handset: Main office secretary, Main office workroom, Principal.</p> <p>Multi-line handset with station console: Office manager.</p>	<p>Single-line handset: Classrooms, conference rooms, Kitchen, Library, offices (unless otherwise noted), staff lounge, staff workroom.</p> <p>Multi-line handset: Health, Main office secretary, Main office workroom, Principal.</p> <p>Multi-line handset with station console: Office manager.</p>
<b>Sound System</b>	<p>Gymnasium: Public address and stereo music playback system with built-in equipment rack, speakers and microphone outlets.</p>	<p>Gymnasium: Digital audio public address and stereo music playback system with built-in equipment rack, speakers with protective cage, wireless microphone system, microphone outlets, and assistive listening system.</p>
<b>Television System</b>	<p>Classrooms: One cable TV outlet in each room.</p> <p>Library office: Television head-end equipment and cable TV outlet.</p> <p>Library: One cable TV outlet.</p>	<p>Classrooms: One cable TV outlet in each room.</p> <p>Library office: Television head-end equipment and cable TV outlet.</p> <p>Conference rooms: One cable TV outlet in each room.</p> <p>Library: Two cable TV outlets.</p>
<b>Audio - Video System</b>	<p>None.</p>	<p>Classrooms: One ceiling mounted video projector outlet connected to outlet in floor box at front of each general classroom..</p> <p>Library: Two ceiling mounted video projector outlets connected to outlet in floor boxes at front of Library instructional areas.</p> <p>Large Conference room: One ceiling mounted video projector outlet connected to outlet at wall.</p>
<b>Intrusion Detection</b>	<p>Type: Multi-zone system with NAPCO control panel, keypad activation device, and passive infrared motion detectors.</p> <p>Location: Control panel in office area, keypad at front entry door, and detection devices in main office, library, and corridors.</p>	<p>Type: Multi-zone system with NAPCO control panel, keypad activation device, and passive infrared motion detectors.</p> <p>Location: Control panel in Maintenance office, keypad at main entry doors, and detection devices in main office, library, corridors and portable classrooms.</p>
<b>Video Surveillance</b>	<p>None.</p>	<p>Type: Conduit from main office area to corridor cable tray system and to exterior light poles for future surveillance cameras.</p>
<b>Fire Detection and Alarm</b>	<p>Type: Automatic addressable alarm and detection system in compliance with building code at time of construction. Plastic guards with local alarm at pull stations.</p> <p>Location: Detection and alarm devices located in compliance with building code at time of construction and annunciator at front entry.</p>	<p>Type: Automatic addressable alarm and detection system in compliance with current building code. Plastic guards with local alarm at pull stations.</p> <p>Location: Detection and alarm devices located in compliance with current building code, control panel and printer in Maintenance Office, graphic annunciator at front entry, and LCD annunciator with controls at Main Office.</p>

# MIDDLE SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>SITE AREAS</b>		
<b>Parking and Access - Buses</b>	Quantity: 16 stalls, 12' wide. Type: Asphalt, 20-year life. Location: Bus loading zone separated from visitor and parent parking.	Quantity: 20 stalls, 16' wide. Type: Asphalt, 30-year life. Location: Bus loading zone separated from visitor and parent parking.
<b>Parking and Access - Service / Delivery</b>	Quantity: 2 delivery vehicle stalls, 12' wide. 1 maintenance vehicle stall, 10' wide. Type: Asphalt, 20-year life. Location: Delivery stalls adjacent to Kitchen. Maintenance stall adjacent to building.	Quantity: 2 delivery stalls each 16' wide. 2 maintenance vehicle stalls, 12' wide. Type: Asphalt, 30-year life. Location: Delivery stalls adjacent to Kitchen. Maintenance stalls adjacent to Mechanical Room.
<b>Parking and Access - Staff</b>	Quantity: 75 stalls, 8'-6" wide. Type: Asphalt, 20-year life. Location: Separate from visitor parking.	Quantity: 100 stalls, 9' wide. Type: Asphalt, 30-year life. Location: Separate from visitor parking.
<b>Parking and Access - Visitors</b>	Quantity: 20 stalls, 8'-6" wide. Type: Asphalt, 20-year life. Location: At front of building.	Quantity: 25 stalls, 9' wide. Type: Asphalt, 30-year life. Location: At front of building.
<b>Parking and Access - Events</b>	Quantity: 100 stalls, 8'-6" wide. Type: Asphalt, 20-year life. Location: Combined with staff and visitor parking.	Quantity: 150 stalls, 8'-6" wide. Type: Asphalt, 30-year life. Location: Combined with staff and visitor parking.
<b>Student Drop Off - Pick Up</b>	Quantity: 18 parallel parking stalls. Type: Asphalt, 20-year life. Location: Adjacent to sidewalk at front of building.	Quantity: 24 parallel parking stalls. Type: 30-year life. Location: Adjacent to sidewalk at front of building.
<b>Street Frontage Sidewalks</b>	Type: 5' wide with ADA compliant curb cuts, asphalt.	Type: 6' wide with ADA compliant curb cuts, concrete.
<b>On-Site Walkways</b>	Type: 5' wide with ADA compliant curb cuts, asphalt.	Type: 6' wide with ADA compliant curb cuts, concrete.
<b>Stairs and Ramps</b>	Type: 5' wide, ADA compliant, concrete.	Type: 6' wide, ADA compliant, concrete with abrasive stair nosings at stairs and detectible warning pattern at ramps.
<b>Exterior Courtyard</b>	Type: Concrete or brick pavers. Location: Adjacent to Commons. Size: 8,000 SF.	Type: Concrete or brick pavers. Location: Adjacent to Commons. Size: 12,000 SF.
<b>Hard Surface Play Areas</b>	Quantity: 2 basketball courts. Type: Asphalt. Location: Close to courtyard.	Quantity: 3 basketball courts. Type: Asphalt. Location: Adjacent to courtyard.
<b>Lawns</b>	Type: Irrigated grass turf. Location: At front of building, street frontage, and adjacent to landscape areas where suitable.	Type: Irrigated grass turf with concrete mow strip around posts and hydrants and where grass is adjacent to building. Location: At front of building, street frontage, and adjacent to landscape areas where suitable.
<b>Grass Athletic Fields</b>	Quantity: 1 baseball field, 1 softball field, 1 football / soccer field. Type: Grass turf with automated irrigation system. Location: Close to Field House, locker rooms, and parking.	Quantity: 2 baseball fields, 2 softball fields, 1 football / soccer field. Type: Grass turf with sand topsoil mix and automated irrigation system. Location: Close to Field House, locker rooms, and parking.

# MIDDLE SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Athletic Surfacing</b>	Track: 400 meter track, cinder surface. Shot put: Cinder surface throwing area. Long jump: Cinder surface runway, sand pit. Softball infield: Free draining infield sand. Baseball infield: Free draining infield sand.	Football / Soccer field: Artificial turf, infill type. Track: Rubberized running surface. Shot put: Cinder surface throwing area. Long jump: Rubberized surface runway, sand pit. Softball infield: Free draining infield sand with under drain system. Baseball infield: Free draining infield sand with underdrain system.
<b>Dumpster Area</b>	Type: Designated area to accommodate one 30 YD garbage dumpster and two 8 YD recycle dumpsters. Location: Adjacent to exterior door at Kitchen. Accessible from service drive with direct access by refuse trucks.	Type: Designated area to accommodate one 30 YD garbage dumpster and two 8 YD recycle dumpsters. Waste line and spare conduit to accommodate future trash compactor. Location: Adjacent to exterior door at Kitchen. Close to exterior door at a main corridor. Accessible from service drive with direct access by refuse trucks. Visually separated from courtyard and exterior windows.
<b>Portable Classroom Infrastructure</b>	None.	Type: Asphalt surface with underground vaults with drains to storm system and conduit for power, telephone, intercom, data, fire alarm, EMS and security systems for 8 portable classrooms. Location: Close to classroom area and building entrance. Not visible from street.
<b>SITE IMPROVEMENTS</b>		
<b>Fences and Gates</b>	Type: Chainlink fencing at perimeter of property, at athletic fields, and adjacent to other property. 12' wide chainlink gates at all fence areas for direct vehicle access. Height: 6' high at athletic fields and perimeter of site except at front of school. 6' high at stormwater detention ponds and wetlands adjacent to play areas. 4' high stormwater detention ponds and wetlands separated from play areas.	Type: Chainlink fencing at perimeter of property, at athletic fields, and adjacent to other property. 16' wide chainlink gates at all fence areas for direct vehicle access. Ornamental metal fencing adjacent to roadways and at stormwater detention ponds and wetlands at front of school with 16' gates for vehicle access. Height: 6' high at athletic fields and perimeter of site except at front of school. 6' high at stormwater detention ponds and wetlands adjacent to play areas. 4' high stormwater detention ponds and wetlands separated from play areas.
<b>Backstop Fencing</b>	Type: 20' high chainlink with wood timbers behind home plate. Increase height or add overhang if needed for foul ball containment close to parking areas, roads or tennis courts. Location: At baseball and softball fields.	Type: 25' high chainlink with wood timbers behind home plate. Increase height or add overhang if needed for foul ball containment close to parking areas, roads or tennis courts. Location: At baseball and softball fields.
<b>Pipe Rail Gates and Railings</b>	Gates: 12' wide made from galvanized steel pipe with padlock hardware and reflective warning tape. Located at driveway access to delivery area, service drive, and staff parking lot. Railings: Made from galvanized steel pipe.	Gates: 16' wide made from galvanized steel pipe with padlock hardware and reflective warning tape. Located at driveway access to delivery area, service drive, and staff parking lot. Railings: Made from galvanized steel pipe, ADA compliant.
<b>Retaining Walls</b>	Type: Concrete, segmental block or rockery.	Type: Concrete, segmental block or rockery.
<b>Bicycle Racks</b>	Quantity: Racks for 24 bikes.. Type: Galvanized metal. Location: At an area with visual supervision.	Quantity: Racks for 36 bikes. Type: Galvanized "ribbon" metal. Location: At an area with visual supervision.
<b>Dumpsters</b>	Quantity: One 30 YD garbage dumpster and two 8 YD recycle dumpsters. Location: At dumpster area at Kitchen delivery area.	Quantity: One 30 YD garbage dumpster and two 8 YD recycle dumpsters. Location: At dumpster area at Kitchen delivery area.

# MIDDLE SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Exterior Benches</b>	Quantity: 2 at front of school. 8 at courtyard. Type: Durable non-wood material.	Quantity: 2 at front of school. 12 at courtyard. 8 at bus loading area. Type: Prefinished metal "ribbon" bench.
<b>Exterior Waste Receptacles</b>	Quantity: One at exterior courtyard, one at each athletic field, one at bus loading area, and one at each main entry. Type: Heavy-duty galvanized can with push door dome top.	Quantity: One at exterior courtyard, one at each athletic field, two at bus loading area, and one at each main entry. Type: Heavy-duty galvanized can with push door dome top at exterior courtyard, bus loading, athletic fields and main entries except prefinished metal "ribbon" container with push door dome top at front entry.
<b>Exterior Bleachers</b>	Quantity: Seating for 40 spectators at main softball and baseball fields. Seating for 150 at football / soccer field. Type: Wood at baseball and softball fields, metal with railings at football / soccer field.	Quantity: Seating for 60 spectators at main softball and baseball fields. Seating for 200 at football / soccer field. Type: Metal with railings.
<b>Flag Pole</b>	Type: 25' painted metal. Location: Front of school and accessible from hard surface.	Type: 40' spun aluminum with internal halyard. Location: Front of school and accessible from hard surface.
<b>Play Area Equipment</b>	Basketball Hoops: 4 heavy-duty metal backboards and hoops with nylon nets. Pickleball: 4 sets of nets and removable posts.	Basketball Hoops: 6 heavy-duty metal backboards and hoops with nylon nets. Pickleball: 6 sets of nets and movable posts.
<b>Play Area Striping</b>	Basketball court: 2 courts adjacent to courtyard. Pickleball court: 2 at basketball courts plus 2 at event parking or future portable classroom area. Four-square: 2 sets close to courtyard.	Basketball court: 3 courts close to courtyard. Pickleball court: 3 at basketball courts plus 3 at event parking or future portable classroom area. Four-square: 4 sets close to courtyard.
<b>Exterior Scoreboards</b>	None.	Football / Soccer / Track: Electronic scoreboard with timing and scoring capability for two teams for football, soccer and track. 7' H x 16' W with field name caption at top of scoreboard. Located at one end of track.
<b>Reader Board</b>	Type: Non-illuminated, 3' high x 6' wide pole mounted reader board with interchangeable letters and permanent school name. Location: At front of school.	Type: Non-illuminated, 4' high x 8' wide reader board mounted on both sides of site sign with interchangeable letters and locking clear plastic cover. Location: Mounted on site sign at front of school and visible from two directions.
<b>Site Sign</b>	Type: Monument sign with school name and address. Location: At front of school.	Type: Concrete or masonry monument sign with school name, address and built-in readerboard. Location: At front of school.
<b>Traffic Control Signs</b>	Type: As needed for traffic and parking control. Location: At HC parking stalls, maintenance parking stalls, delivery vehicle stalls, bus loading area, student drop off / pick up zone, parking lots, service drive, entry roads.	Type: As needed for traffic and parking control. Location: At HC parking stalls, maintenance parking stalls, delivery vehicle stalls, bus loading area, student drop off / pick up zone, parking lots, service drive, entry roads.
<b>Pavement Markings</b>	Type: Painted lines at cross walks, stop bars, traffic arrows, parking stalls, HC parking symbols, fire lanes, and numbers at bus stalls. Location: At bus loading area, drop off / pick up zone, parking lots, service drive, entry roads.	Type: Painted lines at parking stalls, HC parking symbols, and fire lanes. Thermoplastic markings at cross walks, stop bars, traffic arrows and numbers at bus stalls. Location: At bus loading area, drop off / pick up zone, parking lots, service drive, entry roads.

## LANDSCAPING

# MIDDLE SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Shrubs / Groundcover</b>	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department with automated irrigation system. Location: At building perimeter, parking lot islands, and perimeter landscape buffers.	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department with automated irrigation system. Location: At building perimeter, parking lot islands, and perimeter landscape buffers.
<b>Trees</b>	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department. Location: At lawn areas, street frontage, parking lot islands, and perimeter landscape buffers.	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department. Location: At lawn areas, street frontage, parking lot islands, and perimeter landscape buffers.
<b>Wetlands</b>	Type: As required by ordinance with temporary irrigation system. Location: As required by ordinance.	Type: As required by ordinance with temporary irrigation system. Location: As required by ordinance.
<b>Irrigation System</b>	Type: Automated system with separate water meter. Location: At lawns, grass play areas and athletic fields, landscape areas and wetlands.	Type: Automated system controlled by EMS with separate water meter. Location: At lawns, grass play areas and athletic fields, landscape areas and wetlands.
<b>UTILITIES</b>		
<b>Water System</b>	Type: Ductile iron pipe with separate domestic and fire service systems, deduct meter for irrigation system, backflow preventor and FDC on fire system. Size: As required for flow requirements. Location: As required by local water purveyor.	Type: Ductile iron pipe with separate domestic and fire service systems, separate (non-deduct) meter for irrigation system, backflow preventor and FDC on fire system. Supplemental electronic meters for domestic and irrigation systems located in Main Mechanical Room and connected to EMS. Size: As required for flow requirements. Location: As required by local water purveyor with domestic and irrigation meters located close to building.
<b>Sanitary Sewer System</b>	Type: PVC or concrete pipe with positive slope in compliance with Dept. of Ecology "Orange Book". Size: 6" diameter side and main sewer. Location: As required by local sewer purveyor with manhole structures easily accessible for maintenance.	Type: PVC pipe with ductile iron pipe where cover is less than 24". Positive slope in compliance with Dept. of Ecology "Orange Book" and locking manhole covers. Size: 6" diameter side and 8" diameter main sewer. Location: As required by local sewer purveyor with manhole structures easily accessible for maintenance.
<b>Storm Drainage System</b>	Type: Concrete pipe, ductile iron, PVC or corrugated polyethylene pipe. Size: 4" diameter footing and roof drains. 8" diameter site storm drains. Location: As required by local jurisdiction with drainage structures easily accessible for maintenance.	Type: PVC or corrugated polyethylene pipe with ductile iron pipe where cover is less than 24". Locking grates and Type 2 manhole structures where invert is deeper than 60". Clean outs at the base of all downspouts and at ends of roof and footing drain lines. Size: 6" diameter footing and roof drains. 8" diameter site storm drains. Location: As required by local jurisdiction with drainage structures easily accessible for maintenance.
<b>Natural Gas Service</b>	Type: Capacity as required for building gas load provided in inches or pounds. Location: Underground with gas meter adjacent to exterior wall of building.	Type: Capacity in pounds as required for building gas load with a minimum of 2 pounds and supplemental electronic meter located in Main Mechanical Room and connected to EMS. Location: Underground with gas meter adjacent to exterior wall of building.

# MIDDLE SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Fuel Storage Tanks</b>	Underground storage tanks: Steel with corrosion-resistant coating. Locate close to equipment receiving fuel and below an area that is accessible for future excavation. Above ground storage tanks: Steel with corrosion protection and secondary containment area. Locate close to equipment receiving fuel.	Underground storage tanks: Not acceptable. Above ground storage tanks: Steel with corrosion protection and secondary containment area. Locate close to equipment receiving fuel.
<b>Electrical Service</b>	Type: As required for calculated electrical load. Location: Underground.	Type: As required for calculated electrical load plus 15% spares with fully coordinated over current protection. Location: Underground.
<b>Telephone Service</b>	Type: 12 voice grade lines comprised of 10 Centrex lines and 2 POTS lines. Size: 2" conduit. Location: Underground.	Type: 12 voice grade lines comprised of 10 Centrex line and 2 POTS lines. Size: Two 4" conduit. Location: Underground.
<b>Cable Television Service</b>	Type: Comcast Basic Cable service. Size: 2" conduit. Location: Underground.	Type: Comcast Basic Cable service. Size: Two 4" conduit. Location: Underground.
<b>Internet Connection</b>	Type: Two T1 lines with combined 3.088 MB bandwidth. Location: Underground.	Type: Three T1 lines with combined 4.652 MB bandwidth. Location: Underground with spare 4" conduit for future expansion.
<b>Energy Usage - MBTUs per SF Building Area</b>	Annual usage: .058 MBTUs per SF.	Annual usage: .049 MBTUs per SF.
<b>Water Usage - Domestic Water per SF Building Area</b>	Annual usage: Average of existing middle school facilities.	Annual usage: Average of lowest two existing middle school facilities.
<b>Water Usage - Irrigation Water per SF Landscape Area</b>	Annual usage: Average of existing middle school facilities.	Annual usage: Average of lowest two existing middle school facilities.
<b>STRUCTURE</b>		
<b>Foundation</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>Floor Structure</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>Wall Structure - Bearing</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>Wall Structure - Non Bearing</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>Roof Structure</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>BUILDING ENVELOPE</b>		
<b>Floors</b>	Ground level: Wood framing over ventilated crawl space. Upper levels: Wood framing with plywood subfloor.	Ground level: Reinforced concrete slab-on-grade with vapor retarder and capillary break. Upper level: Reinforced concrete over wood or metal decking.
<b>Exterior Wall Surface</b>	Type: Cement board siding, metal siding, concrete or window wall.	Type: Masonry.
<b>Exterior Wall Insulation</b>	Type: R-11.	Type: R-19 or greater if required by code.



# MIDDLE SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Exterior Windows</b>	Quantity: 48 SF of glazing per classroom. Type: Operable sash metal frames with dual glazing. Location: At all classrooms.	Quantity: 72 SF of glazing per classroom. Type: Operable sash prefinished aluminum frames with 1/4" dual glazing, low E coating, U-value less than 40, and integral blinds. Location: At all classrooms and offices.
<b>Exterior Doors</b>	Type: 16-gauge painted hollow metal door with hollow metal frame. Location: As required for ease of circulation and fire exiting. Size: 3' x 6'-8" with a pair of doors with removable mullion at exterior door of mechanical equipment spaces.	Type: 14-gauge hollow painted hollow metal door with hollow metal frame and U-value less than 40. Location: As required for ease of circulation and fire exiting. Size: 3' x 7' except oversized door at Kitchen service entry and a pair of 3' x 7' doors with removable mullion at exterior door of mechanical equipment spaces.
<b>Soffits</b>	Type: Painted wood.	Type: Painted MDO plywood or prefinished metal.
<b>Flashing</b>	Type: Painted metal.	Type: Pre-finished 24-gauge sheet metal.
<b>Trim</b>	Type: Painted wood.	Type: Pre-finished 24-gauge sheet metal.
<b>Gutters and Downspouts</b>	Gutters: Painted metal located at edge of roof. Downspouts: Painted PVC or metal.	Gutters: Pre-finished 22-gauge sheet metal field formed in continuous lengths located at edge of roof. Downspouts: Pre-finished 11-gauge sheet metal with rain diverters at roof valleys and connected to storm drainage system or rain garden.
<b>Roof Membrane</b>	Low-sloped roof: Built-up roofing with mineral cap sheet. Pitched roof: 30-year fiberglass composition shingles.	Low-sloped roof: Single-ply Hypolon membrane. Pitched roof: Pre-finished 24-gauge metal.
<b>Roof Insulation</b>	Type: R-19.	Type: R-38 or greater if required by code, installed at roof level.
<b>Roof Accessories</b>	Type: Painted metal. Location: Minimum 5' separation from roof drains, edges and valleys.	Type: Pre-finished metal with protected electrical receptacle at all mechanical equipment. Location: Minimum 10' separation from roof drains, edges and valleys.
<b>Skylights</b>	Type: Translucent glazing and 300-pound point load capacity.	Type: Translucent, dual-surface, reinforced plastic glazing with pre-finished aluminum frame and 300-pound point load capacity.
<b>Fall Arrest System</b>	Type: Fall protection roof anchors in compliance with UMC, WISHA and OSHA standards. Location: In compliance with WISHA and OSHA standards.	Type: Fall protection roof anchors and railings in compliance with UMC, WISHA and OSHA standards. Location: In compliance with UMC, WISHA and OSHA standards.
<b>Canopies / Covered Walkways</b>	Type: Metal framed with single-ply Hypolon membrane or built-up roof with mineral cap sheet. Location: At bus loading area where building overhang is not present.	Type: Metal framed with pre-finished metal roof. Location: At bus loading areas and courtyard where building overhang is not present.
<b>INTERIORS</b>		
<b>Floors - Classrooms</b>	Carpet: Synthetic pile with polypropylene / vinyl backing in standard classrooms. VCT: 12" x 12" tile in specialty classrooms and at sink areas in standard classrooms. Concrete: Sealed concrete in Industrial Technology Lab.	Carpet: Synthetic pile with polypropylene / vinyl backing in standard classrooms. VCT: 12" x 12" tile in specialty classrooms and at sink areas in standard classrooms. Concrete: Sealed concrete in Industrial Technology Lab.

# MIDDLE SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Floors - Corridors and Stairs</b>	Carpet: Synthetic pile with polypropylene / vinyl backing at corridors except P.E. area. VCT: 12" x 12" tile with abrasive nosing at stair treads and landings. 12" x 12" tile at corridors in P. E. and Gym area. Walk-off mat: Loose-laid mat with synthetic pile at exterior doors.	Carpet: Synthetic pile with polypropylene / vinyl backing at corridors except P.E. area. VCT: 12" x 12" tile with abrasive nosing at stair treads and landings. 12" x 12" tile at corridors in P. E. and Gym area. Walk-off mat: Glue-down mat with synthetic pile and polypropylene / vinyl backing at exterior doors.
<b>Floors - Gymnasiums</b>	Type: Maple hardwood flooring on sleeper system.	Type: Maple hardwood flooring on sleeper system.
<b>Floors - Kitchen</b>	Type: Seamless flooring with abrasive finish.	Type: Unglazed quarry tile with abrasive surface over mortar bed.
<b>Floors - Library</b>	Carpet: Synthetic pile with polypropylene / vinyl backing. Walk-off mat: Loose-laid mat with synthetic pile at exterior door.	Carpet: Synthetic pile with polypropylene / vinyl backing in seating area. Walk-off mat: Glue-down mat with synthetic pile and polypropylene / vinyl backing at exterior doors.
<b>Floors - Restrooms</b>	Seamless flooring: Seamless material with abrasive finish in student, public and staff restrooms. Sheet vinyl: Sheet vinyl with coved base in staff, health and classroom restrooms.	Ceramic tile: Unglazed porcelain tile in student, public and staff restrooms. Sheet vinyl: Sheet vinyl with coved base in health and classroom restrooms.
<b>Floors - Support Spaces</b>	Carpet: Synthetic pile with polypropylene / vinyl backing at office, reception areas and work rooms. VCT: 12" x 12" tile at storage and telecommunications rooms. Concrete: Sealed concrete at custodial, mechanical and electrical rooms. Plywood: Plywood floor deck at catwalks and mechanical attics in wood frame buildings.	Carpet: Synthetic pile with polypropylene / vinyl backing at office, reception areas and work rooms. VCT: 12" x 12" tile at storage and telecommunications rooms. Sheet vinyl: Vinyl sheet flooring at custodial rooms. Concrete: Sealed concrete at mechanical and electrical rooms, and at catwalks and mechanical attics in metal frame buildings. Plywood: Plywood floor deck at catwalks and mechanical attics in wood frame buildings.
<b>Walls - Classrooms</b>	Type: Painted gypsum wallboard.	Type: Painted gypsum wallboard above 36" high protective wainscot.
<b>Walls - Corridors and Stairs</b>	Gypsum wallboard: Painted wallboard at corridors, stairs and entry areas. Ceramic tile: Porcelain ceramic tile at sink alcoves.	Gypsum wallboard: Painted wallboard above wainscot in corridors, stairs, and entry areas. Ceramic tile: Porcelain ceramic tile at sink alcoves. Wainscot: Painted veneer plaster or MDF or MDO plywood, minimum 42" high at corridors, stairs and entry areas where lockers are not present.
<b>Walls - Gymnasiums</b>	Wainscot: 7' high painted MDF or sealed masonry. Above wainscot: Painted gypsum wallboard pr sealed masonry.	Wainscot: 7' high painted MDF or sealed masonry. Above wainscot: Painted gypsum wallboard or sealed masonry.
<b>Walls - Kitchen</b>	Perimeter walls: Gypsum wallboard with epoxy paint. Cooking island wall: FRP panels.	Perimeter walls: FRP panels. Cooking island wall: Stainless steel cladding.
<b>Walls - Library</b>	Type: Painted gypsum wallboard.	Type: Painted gypsum wallboard.
<b>Walls - Restrooms</b>	Gypsum wallboard: Painted wallboard at classroom and staff restrooms, and above wainscot in public and student restrooms. Ceramic tile: 7' high porcelain ceramic tile wainscot in public and student restrooms.	Gypsum wallboard: Painted wallboard above wainscot at classroom, health, public, staff, and student restrooms. Ceramic tile: 7' high porcelain ceramic tile wainscot in student and public restrooms. Plastic laminate: 40" high wainscot in classroom, health and staff restrooms.

# MIDDLE SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Walls - Support Spaces</b>	Gypsum wallboard: Painted wallboard in custodial, electrical, mechanical, office, reception, staff lounge, storage, and work rooms.	Gypsum wallboard: Painted wallboard in custodial, electrical, mechanical, office, reception, storage, and work rooms. Vinyl wall material: Vinyl wall covering at display walls in offices and staff lounge.
<b>Asbestos-Containing Materials</b>	Criteria: Asbestos-containing building materials present in a facility shall be intact, undisturbed and included in an asbestos management plan in compliance with AHERA regulations.	Criteria: Asbestos-containing building materials shall not be present.
<b>Interior Doors</b>	Classrooms: Hollow metal or solid core doors. Support spaces: Hollow metal or solid core doors. Corridors: Hollow metal at cross-corridor doors.	Classroom: 1-3/4" thick solid core doors with wood veneer. Support spaces: 1-3/4" thick solid core doors with wood veneer. Corridors: 16 gauge hollow metal at cross-corridor doors.
<b>Door Hardware</b>	Locksets: Schlage or Corbin with standard classroom function and keying that matches the school district's Schlage or Corbin Master Key system.	Closers and handles: ADA compliant. Door mullions: Removable and secured with key. Hinges: Continuous at high-use doors. Locksets: Schlage with Primus at exterior doors; standard classroom function plus exterior door locksets with inside cylinders keyed to unlock the outside and outside cylinders keyed to unlatch only; and keying that matches the school district's Schlage Great Grand Master Key system.
<b>Automatic Door Opener</b>	None.	Type: ADA compliant with keyed power shut off at door. Location: At main entry doors.
<b>Overhead Doors and Grilles</b>	Interior overhead doors and grilles: Manually operated up to 6' wide. Motorized operation when over 6' wide. Fire-rated overhead doors and grilles shall be activated by local smoke or heat detectors. Exterior overhead doors and grilles: Manually operated.	Interior overhead doors and grilles: Manually operated up to 6' wide. Motorized operation when over 6' wide. Fire-rated overhead doors and grilles shall be activated by local smoke or heat detectors. Exterior overhead doors and grilles: Manually operated up to 10' wide. Motorized operation when over 10' wide.
<b>Interior Windows</b>	Type: Wood or metal frame with glazing in compliance with applicable building codes.	Type: Metal frame with safety glass.
<b>Operable Walls</b>	Stage: Manually operated folding partition with STC 52 sound transmission separating Stage from Gymnasium. Main gym: Motorized divider curtain to divide Gym in half. Auxiliary gym: Motorized divider curtain to divide Gym in half.	Stage: Manually operated folding partition with STC 52 sound transmission separating Stage from Gymnasium. Main gym: Motorized divider curtain to divide Gym in half. Auxiliary gym: Motorized divider curtain to divide Gym in half.
<b>Ceilings - Classrooms</b>	Type: Surface applied acoustical ceiling tile or suspended acoustical ceiling panels. Height: Minimum 9'.	Type: Surface applied acoustical ceiling tile or suspended acoustical ceiling panels. Height: Minimum 9'-6".
<b>Ceilings - Corridors</b>	Type: Surface applied acoustical ceiling tile or suspended acoustical ceiling panels. Height: Minimum 9'.	Type: Surface applied acoustical ceiling tile or 2' x 2' suspended acoustical ceiling panels. Height: Minimum 10'.
<b>Ceilings - Gymnasiums</b>	Type: Painted gypsum board or exposed structure. Height: Minimum 20'.	Type: Exposed structure or surface applied acoustical ceiling tile. Height: Minimum 23'.

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## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Ceilings - Kitchen</b>	Type: Painted gypsum board, surface applied acoustical ceiling tile, or suspended acoustical ceiling panels. Height: Minimum 10'.	Type: 2'x4' suspended acoustical ceiling panels with scrubbable surface and non-combustible rating for ceiling panels within 18" of cooking exhaust hood. Height: Minimum 10'.
<b>Ceilings - Library</b>	Type: Surface applied acoustical ceiling tile or suspended acoustical ceiling panels. Height: Minimum 10'.	Type: Surface applied acoustical ceiling tile or 2' x 2' suspended acoustical ceiling panels. Height: Minimum 10'.
<b>Ceilings - Restrooms</b>	Type: Painted gypsum board. Height: Minimum 8' at classroom, health and staff restrooms, public and student restrooms.	Type: Painted gypsum board. Height: Minimum 8' at classroom, health and staff restrooms, 9' at public and student restrooms.
<b>Ceilings - Support Spaces</b>	Gypsum board: Custodial and general storage rooms, minimum 9'-0" high. Gym storage rooms minimum 9'-6" high. Suspended acoustical ceiling panels: Conference rooms, offices and workrooms, minimum 8'-6" high.	Gypsum board: Custodial and general storage rooms, minimum 9'-0" high. Gym storage rooms minimum 9'-6" high. Suspended acoustical ceiling panels (2'x2'): Conference rooms and offices, minimum 9' high. Suspended acoustical ceiling panels (2'x4'): Workrooms, minimum 9' high.
<b>EQUIPMENT AND SPECIALTIES</b>		
<b>Marker Boards</b>	Quantity: One 16' board at classrooms. One 4' board at conference rooms. Type: Ceramic coated steel. Location: Classrooms and conference rooms.	Quantity: One 16' board and one 8' board at classrooms. One 8' board at conference rooms. Power and data outlets at 16' board in classrooms for future Smartboard connection. Type: Ceramic coated steel.
<b>Tackboards</b>	Quantity: 16' at classrooms, 4' at offices, 8' at lounge, 4' at conference rooms. Type: Cedar, cork or vinyl-covered cork. Location: Classrooms, offices, staff lounge and conference rooms.	Quantity: 16' at lounge, 8' at offices and conference rooms. Type: Vinyl-covered cork at offices, staff lounge and conference rooms. Vinyl wall covering in lieu of tackboards at classrooms. Location: Offices and conference rooms.
<b>Interior Signage</b>	Type: High impact acrylic room signs with room name and number. Cast metal dedication plaque. Location: Room sign at main entry door to all rooms. Dedication plaque at entry lobby.	Type: ADA compliant, high impact acrylic room signs with room name and number. Cast metal dedication plaque. Location: Room sign at main entry door to all rooms. Dedication plaque at entry lobby.
<b>Toilet Partitions</b>	Type: Plastic laminate covered fiber board. Location: Partitions at toilet stalls.	Type: Plastic laminate covered phenolic panels. Location: Partitions at toilet stalls and screens at urinals.
<b>Toilet Accessories</b>	Type: Mirrors, paper towel dispensers, soap dispensers, grab bars, tampon dispensers and sanitary napkin receptacles. Location: Mirrors at restroom hand wash areas. Paper towel and soap dispensers at all sinks. Grab bars at ADA accessible toilet stalls. Tampon dispenser and sanitary napkin receptacle at women's staff and student restrooms.	Type: Mirrors, paper towel dispensers, soap dispensers, grab bars, tampon dispensers and sanitary napkin receptacles. Location: Mirrors at restroom hand wash areas. Paper towel and soap dispensers at all sinks. Grab bars at ADA accessible toilet stalls. Tampon dispenser and sanitary napkin receptacle at women's staff and student restrooms.
<b>Lockers</b>	Corridors: 800 individual double tier metal lockers, each 12" W x 12" D x 30" H, secured with built-in combination lock. Locker rooms: 360 box and 80 half-height metal lockers in Boy's and Girl's Locker rooms secured with padlock. Kitchen and Maintenance Office: 4 individual double tier metal lockers, each 12" W x 12" D x 36" H, secured with built-in combination lock, in each space.	Corridors: 800 individual double tier metal lockers, each 12" W x 15" D x 30" H, secured with built-in combination lock. Locker rooms: 400 box and 100 half-height metal lockers in Boy's and Girl's Locker rooms secured with padlock. Kitchen and Maintenance Office: 6 individual double tier metal lockers, each 12" W x 12" D x 36" H, secured with built-in combination lock, in each space.

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## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Residential Appliances</b>	Type: Residential grade. Ranges: Electric ranges with oven at student stations in Foods. Exhaust hoods: Electric exhaust fan with removable and cleanable filters at student stations in Foods. Microwave ovens: Portable microwaves at student stations in Foods and in Staff Lounge. Refrigerator: Large capacity refrigerator in Foods and stand size refrigerators in Staff Lounge. Freezer: Large capacity freezer in Foods. Ice machines: Undercounter machines in Training and Health.	Type: Residential grade, ADA compliant and ENERGY STAR qualified. Ranges: Electric ranges with oven at student stations in Foods. Exhaust hoods: Electric exhaust fan with removable and cleanable filters at student stations in Foods. Microwave ovens: Portable microwaves at student stations in Foods, Staff Lounge. Refrigerator: Large capacity refrigerator in Foods and stand size refrigerators in Staff Lounge. Freezer: Large capacity freezer in Foods. Ice machines: Undercounter machines in Training and Health. Washer and dryer: High capacity machines in Laundry.
<b>Projection Screens</b>	Classrooms: 70" W x 70" H with manual operation. Library: 70" W x 70" H with manual operation. Stage: 144" W x 144" H with motorized operation.	Classrooms: 70" W x 70" H with manual operation. Library: Two 120" W x 90" W with motorized operation. Stage: 144" W x 144" H with motorized operation. Main Gym: 144" W x 144" H with motorized operation and protective enclosure.
<b>Stage Curtains</b>	Stage curtain: Center fold curtain with valence between Stage and Commons. Stage backdrop curtain: None.	Stage curtain: Center fold curtain with valence between Stage and Commons. Stage backdrop curtain: Curtain on track at perimeter walls of Stage.
<b>Telescoping Bleachers</b>	Type: Motorized with portable scorer's table. Location: Main Gym.	Type: Motorized with portable scorer's table, power shut off within room, and outlets for power, data, scoreboard, 30-second clock and sound system at scorer's table. Location: Main Gym.
<b>Window Covering</b>	Classrooms: Roller shades or coated fabric curtains at exterior windows. Horizontal louver mini-blinds at interior relite windows. Conference rooms and offices: Coated fabric curtains or horizontal louver mini-blinds at exterior windows. Horizontal louver mini-blinds at interior relite windows. Gymnasium: None. Library: Roller shades or coated fabric curtains. Interior windows: Horizontal louver mini-blinds at interior relite windows.	Classrooms: Integral blinds between window glass at exterior windows. Horizontal louver mini-blinds at interior relite windows. Conference rooms and offices: Integral blinds between window glass at exterior windows. Horizontal louver mini-blinds at interior relite windows. Gymnasium: Roller shades. Library: Roller shades or integral blinds between window glass at exterior windows. Interior windows: Horizontal louver mini-blinds at interior relite windows.
<b>Cabinets - General Classrooms</b>	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to a master system. Quantity: 3 LF tall bookshelves, 3 LF tall storage, 3 LF wardrobe.	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to the building master key system. Quantity: 6 LF counter with low cabinets, 6 LF tall bookshelves, 3 LF tall storage, 6 LF upper cabinets, 3 LF wardrobe.
<b>Cabinets - Specialty Classrooms</b>	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to a master system. Quantity: As needed to accommodate the instructional program.	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to the building master key system, and epoxy resin counter tops in Science classrooms and Science Prep rooms. Quantity: As needed to accommodate the instructional program.
<b>Cabinets - Offices</b>	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to a master system. Quantity: As needed to accommodate office use.	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, and locks keyed to the building master key system. Quantity: As needed to accommodate office use.

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## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Cabinets - Storage</b>	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to a master system. Quantity: As needed to accommodate storage needs.	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to the building master key system. Quantity: As needed to accommodate storage needs.
<b>Cabinets - Support Spaces</b>	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to a master system. Quantity: As needed to accommodate support space use.	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to the building master key system. Quantity: As needed to accommodate support space use.
<b>Display Cases</b>	Quantity: 16 LF at front enter foyer. Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to a master display case system.	Quantity: 24 LF at front enter foyer, 8 LF at music area, and 8 LF at Industrial Technology area. Type: Recessed aluminum frame display case with hinged doors, tackboard at back surface, and keyed to a building master key system.
<b>Equipment - Art</b>	Type: Electric kiln with ceiling exhaust system. Location: In dedicated room with fire detection system.	Type: Electric kiln with Environvent ventilation system and ceiling exhaust system. Location: In dedicated room with fire sprinkler system.
<b>Equipment - General Classrooms</b>	Computers: One computer per each FTE staff and one computer for each 4 students in the building with computers not exceeding 5 years in age. Printers: One ink jet printer not exceeding 4 years in age per classroom or one laser printer not exceeding 8 years in age per two classrooms.	Computers: One computer per each FTE staff and one computer for each 4 students in the building with computers not exceeding 5 years in age. Printer: One ink jet printer not exceeding 2 years in age per classroom or one laser printer not exceeding 6 years in age per two classrooms. LCD Projector and Camera: One projector with ceiling mount framework and document camera not exceeding 8 years in age.
<b>Equipment - Business Education / Computer Classrooms</b>	Computers: One staff and 30 student computers, not exceeding 5 years in age per classroom. Printer: Two ink jet printers not exceeding 4 years in age or two laser printer not exceeding 8 years in age per classroom.	Computers: One staff and 30 student computers, not exceeding 4 years in age. Printer: Two ink jet printer not exceeding 2 years in age or two laser printer not exceeding 6 years in age. LCD Projector and Camera: One projector with ceiling mount framework and document camera not exceeding 8 years in age.
<b>Equipment - Food Service</b>	Type: Equipment adequate to accommodate a full service kitchen and includes ventilation hood, separate walk-in cooler and freezer, and cooking, dishwashing and serving equipment.	Type: Equipment adequate to accommodate a full service kitchen and includes ventilation hood, separate walk-in cooler and freezer, and cooking, dishwashing and serving equipment. Gas fired when possible.
<b>Equipment - Gymnasiums</b>	Main gym: 6 motorized basketball backboards. One scoreboard and two 30-second clocks. Wall pads behind basketball backboards. Motorized curtain to divide Gym in half. Power volleyball posts for one court. Auxiliary gym: 2 motorized basketball backboards. Wall pads behind basketball hoops. Motorized curtain to divide Gym in half. Power volleyball posts for one court.	Main gym: 6 motorized basketball backboards, two scoreboards and four 30-second clocks. Wall pads behind basketball backboards. Motorized curtain to divide Gym in half. Power volleyball posts for one court. Auxiliary gym: 6 motorized basketball backboards. One scoreboard and two 30-second clocks. Wall pads behind basketball hoops. Motorized curtain to divide Gym in half. Power volleyball posts for one court.

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## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Equipment - Industrial Technology</b>	<p>Metal working: 1 metal working table, 1 box / pan brake, 1 shear, 1 floor grinder, 1 roller and eye wash in Technology Lab.</p> <p>Wood working: 1 chop saw, 1 router table, 1 table saw, 1 band saw, 1 scroll saw, and 1 drill press with master shut-off switch in Technology Lab. Sawdust collection system at dust generating equipment.</p>	<p>Metal working: 1 metal working table, 1 box / pan brake, 1 shear, 1 floor grinder, 1 roller, 1 spot welder and eye wash in Technology Lab.</p> <p>Wood working: 1 chop saw, 2 router tables, 1 table saw, 2 band saws, 1 scroll saw, 2 drill presses, 1 jointer, 1 planer, 1 panel sander in Technology Lab. 120 / 208 volt equipment with master shut-off switch. Sawdust collection system at dust generating equipment.</p>
<b>Equipment - Library</b>	<p>Computers: 8 student computer stations, 1 staff computer, not exceeding 5 years in age.</p> <p>Printers: One ink jet printer not exceeding 4 years in age or one laser printer not exceeding 10 years in age.</p> <p>Television: One television monitor with DVD / VCR player, not exceeding 10 years in age.</p> <p>Library Management Equipment: Check-out system not exceeding 6 years in age.</p>	<p>Computers: 15 student computer stations, 1 staff computer, not exceeding 4 years in age.</p> <p>Printers: One ink jet printer not exceeding 2 years in age and one laser printer not exceeding 6 years in age.</p> <p>Television: One television monitor with DVD / VCR player, not exceeding 8 years in age.</p> <p>Library Management Equipment: Check-out system not exceeding 4 years in age.</p> <p>LCD Projector and Document Camera: One projector with ceiling mount framework and document camera not exceeding 8 years in age.</p>
<b>Equipment - Offices / Workrooms</b>	<p>Computers: Staff computers not exceeding 5 years in age.</p> <p>Printers: Ink jet printers not exceeding 4 years in age and laser printers not exceeding 10 years in age.</p> <p>Copy Machines: Two 60 copies per minute machines, one 25 copies per minute machine, not exceeding 8 years in age.</p> <p>FAX Machine: Not exceeding 10 years in age.</p>	<p>Computers: Staff computers not exceeding 4 years in age.</p> <p>Printers: Ink jet printers not exceeding 2 years in age and laser printers not exceeding 6 years in age.</p> <p>Copy Machines: Two 60 copies per minute networkable machines, two 25 copies per minute networkable machines, not exceeding 7 years in age.</p> <p>FAX Machine: Not exceeding 6 years in age.</p>
<b>Equipment - Science</b>	<p>Emergency eyewash: In science classrooms.</p>	<p>Emergency eyewash: In science classrooms.</p> <p>Emergency shower: In science prep rooms.</p> <p>Evacuation exhaust fan: In science classrooms with manual control.</p> <p>Fume hood: In one science classroom.</p>
<b>Equipment - Support Spaces</b>	<p>Type: As needed to accommodate the support area activities.</p> <p>Quantity: As needed to accommodate the support area activities.</p>	<p>Type: As needed to accommodate the support area activities.</p> <p>Quantity: As needed to accommodate the support area activities.</p>
<b>Equipment - Training Room</b>	<p>None.</p>	<p>Tables: 2 tables for treatment and taping.</p> <p>Ice Machine: Medium capacity.</p>
<b>Furniture - Classrooms</b>	<p>Student Chairs: Hard plastic not exceeding 30 years in age.</p> <p>Staff Chairs: Upholstered not exceeding 15 years in age.</p> <p>Student Combo-desks: Hard plastic not exceeding 30 years in age.</p> <p>Teacher Desks: Plastic laminate surfaced not exceeding 30 years in age.</p> <p>Tables: Plastic laminate surfaced not exceeding 30 years in age.</p> <p>File Cabinets: Metal not exceeding 40 years in age.</p>	<p>Student Chairs: Hard plastic not exceeding 20 years in age.</p> <p>Staff Chairs: Upholstered not exceeding 10 years in age.</p> <p>Student Combo-desks: Hard plastic not exceeding 20 years in age.</p> <p>Teacher Desks: Plastic laminate surfaced not exceeding 20 years in age.</p> <p>Tables: Plastic laminate surfaced not exceeding 20 years in age.</p> <p>File Cabinets: Metal not exceeding 30 years in age.</p>
<b>Furniture - Library</b>	<p>Student Chairs: Hard plastic not exceeding 30 years in age.</p> <p>Staff Chairs: Upholstered not exceeding 15 years in age.</p> <p>Teacher Desks: Plastic laminate surfaced not exceeding 30 years in age.</p> <p>Tables: Plastic laminate surfaced not exceeding 30 years in age.</p>	<p>Student Chairs: Hard plastic not exceeding 20 years in age.</p> <p>Staff Chairs: Upholstered not exceeding 10 years in age.</p> <p>Teacher Desks: Plastic laminate surfaced not exceeding 20 years in age.</p> <p>Tables: Plastic laminate surfaced not exceeding 20 years in age.</p>

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## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Furniture - Offices / Workrooms</b>	Staff Chairs: Upholstered not exceeding 15 years in age and hard plastic chairs not exceeding 30 years in age. Teacher Desks: Plastic laminate surfaced not exceeding 30 years in age. Tables: Plastic laminate surfaced not exceeding 30 years in age. File Cabinets: Metal not exceeding 40 years in age.	Staff Chairs: Upholstered not exceeding 10 years in age and hard plastic chairs not exceeding 20 years in age. Teacher Desks: Plastic laminate surfaced not exceeding 20 years in age. Tables: Plastic laminate surfaced not exceeding 20 years in age. File Cabinets: Metal not exceeding 30 years in age.
<b>Furniture - Support Spaces</b>	Type: As needed to accommodate the support area activities. Quantity: As needed to accommodate the support area activities.	Type: As needed to accommodate the support area activities. Quantity: As needed to accommodate the support area activities.
<b>Artwork</b>	School provided: Temporary artwork displays subject to approval by principal. Permanent artwork approved by school principal. Washington State art collection: Protected against damage in a reasonable manner and secured in place to protect against unauthorized removal.	School provided: Temporary artwork displays subject to approval by principal and protected as appropriate. Permanent artwork approved by school principal and secured in place to protect against unauthorized removal. Washington State art collection: Protected against damage in a reasonable manner and secured in place to protect against unauthorized removal.
<b>Vending Machines</b>	Type: Refrigerated and non-refrigerated machines with motion sensitive illumination control. Quantity: 5 machines. Location: One at Gym area, 1 at Staff Lounge and 3 near but not in Commons.	Type: Refrigerated and non-refrigerated machines with motion sensitive illumination control. Quantity: 8 machines. Location: 2 at Gym area, 2 at Staff Lounge and 6 near but not in Commons.
<b>MECHANICAL</b>		
<b>Fire Suppression System</b>	Fire sprinkler system: Wet or dry system in compliance with NFPA 13, and local building codes. Fire suppression: Fire suppression system at Kitchen exhaust hood.	Fire sprinkler system: Wet system in compliance with NFPA 13, local building codes and FM Global Data Sheets 2-8 and 3-6. Fire suppression: Wet agent fire suppression system at Kitchen exhaust hood.
<b>Plumbing Insulation</b>	Type: Insulation in compliance with building code at time of construction on domestic hot water lines.	Type: Insulation in compliance with current building code on domestic hot water lines and 1/2" insulation on domestic cold water lines.
<b>Domestic Water System</b>	Piping: Type L copper. Pumps: Bronze fitted pumps. Heating: Gas or electric heaters.	Piping: Type L copper. Pumps: All bronze pumps with isolation valves at both sides of pumps. Heating: Gas heaters.
<b>Domestic Water Quality</b>	Criteria: A maximum level of .015 mg/L (15ppb) of lead and 1.3 mg/L (1300 ppb) of copper in tap water.	Criteria: A maximum level of .015 mg/L (15ppb) of lead and 1.3 mg/L (1300 ppb) of copper in tap water.
<b>Soil and Waste</b>	Type: Cast iron pipe and fittings.	Type: Cast iron pipe and fittings.
<b>Plumbing Fixtures</b>	Water closets: Vitreous china. Urinals: Vitreous china. Lavatories: Vitreous china wall-hung sinks and stainless steel counter-mounted sinks. Drinking fountains: Vitreous china or stainless steel. Trap primers: None.	Water closets: ADA compliant, wall-hung vitreous china with water saving valves . Urinals: ADA compliant, wall-hung vitreous china with water saving valves. Lavatories: ADA compliant, vitreous china wall-hung sinks and stainless steel counter-mounted sinks with self-closing faucets. Drinking fountains: ADA compliant, stainless steel. Trap primers: Electronic trap primers with manual override.
<b>Compressed Air</b>	Black steel or copper.	Black steel or copper.



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## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Natural Gas Piping</b>	Type: Black steel, Schedule 40 pipe with butt-weld fittings.	Type: Black steel, Schedule 40 pipe with butt-weld fittings.
<b>Chemical Waste</b>	Type: Cast iron pipe and fittings.	Type: Acid resistant poly-propylene pipe and fittings with fusion joints and acid neutralization tank. Location: Acid resistant pipe from science room sinks and drains to acid neutralization tank. Tank located at building exterior in non-traffic location but accessible by maintenance vehicles.
<b>HVAC Duct Insulation</b>	Type: In compliance with building code at time of construction.	Type: In compliance with current building code.
<b>HVAC Pipe Insulation</b>	Type: In compliance with building code at time of construction.	Type: In compliance with current building code.
<b>Hydronic Piping</b>	Type: Type L copper or Schedule 40 black steel.	Type: Type L copper at piping below 2" diameter. Schedule 40 black steel at 2" diameter piping and above with welded or rolled grooved Victualic fittings.
<b>Hydronic Pumps</b>	Type: Vertical in-line or base mounted end-suction pumps.	Type: Vertical in-line or base mounted end-suction pumps with redundant pumps for back-up.
<b>Refrigerant Piping</b>	Type: Type L hard drawn copper tube, refrigeration grade.	Type: Type L hard drawn copper tube, refrigeration grade.
<b>HVAC Ductwork</b>	Metal ducts: Galvanized sheet metal. Non-metal ducts: Insulated, reinforced flexible duct with vapor barrier jacket.	Metal ducts: Galvanized sheet metal per SMACNA Standards with welded stainless steel at Kitchen exhaust hoods. Non-metal ducts: Insulated, reinforced flexible duct with vapor barrier jacket allowed at locations approved by school district.
<b>HVAC Fans</b>	Type: Forward curved or backward inclined units with 1" filters, non-asbestos flexible connections, standard motors, and belt guards.	Type: Forward curved or backward inclined units with neoprene flexible connections, high efficiency motors, belt guards, minimum two rows of coils, drain valves, and 2" filters contained in factory-built filter rack.
<b>Heating / Ventilation System - Classrooms</b>	Type: Individual temperature control and minimum 450 CFM outside air supply in each classroom.	Type: Individual temperature control, minimum 450 CFM outside air supply, and off-hour override switch in each classroom
<b>Heating / Ventilation System - Gymnasiums</b>	Type: Individual temperature control and minimum 5% outside air supply.	Type: Individual temperature control, minimum 5% outside air supply, CO2 sensor for ventilation control, and manual bypass timer in Maintenance Office.
<b>Heating / Ventilation System - Library</b>	Type: Individual temperature control and minimum 15% outside air supply.	Type: Individual temperature control, minimum 15% outside air supply, mechanical cooling, and manual bypass timer in Maintenance Office.
<b>Heating / Ventilation System - Offices</b>	Type: Temperature control shared by common areas and minimum 15% outside air supply.	Type: Temperature control shared by common offices, minimum 20% outside air supply, and mechanical cooling in main office areas used during summer months.
<b>Heating / Ventilation System - Workrooms</b>	Type: Individual temperature control and high capacity ventilation system where high volume photocopy machines are used.	Type: Individual temperature control and independent high capacity ventilation system where high volume photocopy machines are used.
<b>Heating / Ventilation System - Support Spaces</b>	Type: Heating and ventilation systems capable of maintaining comfortable temperature range and ventilation.	Type: Heating and ventilation systems capable of maintaining comfortable temperature range and provide ventilation supply in compliance with current codes.

# MIDDLE SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Sawdust Collection</b>	Type: Non-recirculating dust collector equipment, ductwork and clean outs in compliance with building code at time of construction with blast gates and spark detection. Location: Connected to sawdust producing equipment in wood shop areas.	Type: Non-recirculating dust collector equipment, ductwork and clean outs in compliance with current building code with blast gates and spark detection. Location: Connected to sawdust producing equipment in wood shop areas.
<b>Air Terminal Units</b>	Type: Steel or aluminum units.	Type: Steel or aluminum units with bird screens at intakes. Heavy-duty units at Gymnasiums and multipurpose rooms.
<b>Ventilation Hoods</b>	Kiln room: Galvanized sheet metal canopy hood above kiln. Kitchen: Welded stainless steel filter hood above cooking equipment. Welding area: Galvanized sheet metal canopy hood above solder and welding areas.	Kiln room: Down draft hood at each kiln. Kitchen: Welded stainless steel extracting hood with filters above cooking equipment. Welding area: Galvanized sheet metal back hood at solder and welding areas.
<b>Fume Hoods</b>	None.	Type: Built-in unit with sink, gooseneck faucet, gas cock, electrical receptacle, external fan, and acid storage base cabinet.
<b>Boilers</b>	Type: Single gas fired hot water or steam boiler.	Type: Dual hot water, gas-fired, fire-tube, minimum 82% efficient, steel boilers each sized for 66% of load.
<b>Furnaces</b>	Type: Gas fired with 80% efficiency.	Type: Gas fired with minimum 80% efficiency.
<b>Heat Exchangers</b>	Type: Plate-type with 50% efficiency.	Type: Plate-type with 66% efficiency.
<b>Refrigerant Compressors and Condensers</b>	Type: Air cooled units. Location: Single unit per system.	Type: Air cooled units. Location: Single unit serving multiple systems.
<b>Water Chillers</b>	Type: Air cooled with dual compressors.	Type: Dual air cooled units with minimum of 2 compressors each and sound attenuation treatment.
<b>Exhaust Fans</b>	Type: Steel utility or aluminum dome type. Location: Easily accessible for maintenance.	Type: Steel utility or aluminum dome type. Location: Non-kitchen exhaust fans located in catwalk or mechanical attic area, not on roof. Kitchen exhaust fans located platform on roof with adjacent roof hatch plus walking platform where roof slope exceeds 3:12 slope.
<b>Heat Pumps</b>	Type: Air cooled units. Location: One unit per zone.	Type: Air cooled units with automatic compressor lock out. Location: One unit per zone.
<b>Fan Coil Units</b>	Type: Units with steel housing, minimal filters, and no outside air.	Type: Units with steel housing, 1" filters, and damper controlled outside air .
<b>Unit Ventilators</b>	Type: Units with heavy-duty steel housing and capacity based on code required CFM.	Type: Units with heavy-duty steel housing, capacity based upon code required CFM, factory installed access panels and filter racks, and NC-35 sound rating.
<b>Unit Heaters</b>	Type: Propeller type gas or hot water units.	Type: Propeller type gas or hot water units.

# MIDDLE SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Automatic Controls</b>	Type: Direct digital control system with individual zone control and thermostat for each instructional space and office area, Local Operator's Station at building's Maintenance Office, and connected to Central Operator's Station at Support Services Center.	Type: Direct digital control system with BACnet automation system, individual zone control and thermostat for each instructional space and office area, Dynamic Data exchange, Local Operator's Station at building Maintenance Office, and connected to Central Operator's Station at Support Services Center.
<b>ELECTRICAL</b>		
<b>Transformers</b>	Type: Dry type with capacity for calculated load.	Type: Low noise, dry type with capacity for calculated load plus 20%.
<b>Switchgear</b>	Type: Fuse or circuit breaker type with capacity for calculated load.	Type: Fuse or circuit breaker type with capacity for calculated load plus 15% and includes 15% spares.
<b>Panelboards</b>	Type: Circuit breaker type.	Type: Circuit breaker type with 15% spares.
<b>Power Distribution</b>	Type: Copper for #1 wire or less. Copper or aluminum for wire greater than #1.	Type: Copper wire.
<b>Power Conditioning</b>	None.	Type: Transient voltage surge suppressors. Location: At panelboards for protection of lighting, receptacles and computers.
<b>Wiring Devices</b>	Type: 15 or 20 amp.	Type: 20 amp.
<b>Electrical Outlets - General Classrooms</b>	Quantity: Three duplex electrical receptacles for student computers, one at teacher's work station, plus one at each wall per classroom.	Quantity: Six duplex electrical receptacles for student computers, two at teacher's work station, one in floor box at front of classroom, one at ceiling for projector, plus two at each wall per classroom.
<b>Electrical Outlets - Specialty Classrooms</b>	Quantity: One duplex electrical receptacles for each of two student computer stations, one at teacher's work station, plus one at each wall per classroom.	Quantity: One duplex electrical receptacles for each student computer station, two at teacher's work station, one in floor box at front of classroom, one at ceiling for projector, plus two at each wall per classroom.
<b>Electrical Outlets - Library</b>	Quantity: One duplex electrical receptacle for each of two student computer stations, one at check-out station, plus one at each wall.	Quantity: One duplex electrical receptacle for each student computer station, two at check-out station, one in floor box at instructional area, one at ceiling for projector, plus two at each wall.
<b>Electrical Outlets - Offices / Workrooms</b>	Quantity: One duplex electrical receptacle for each staff workstation, one for each copy and fax machine, plus one at each wall.	Quantity: Two duplex electrical receptacles for each staff workstation, one for each copy and fax machine, plus one at each wall.
<b>Electrical Outlets - Support Spaces</b>	Quantity: One duplex electrical receptacle for each electrical equipment item, one at every 80' on center in corridors, plus one at each wall.	Quantity: One duplex electrical receptacles for each electrical equipment item, one at every 50' on center in corridors, plus one at each wall.
<b>Electrical Outlets - Emergency Power</b>	None.	Quantity: Duplex electrical receptacles connected to emergency generator at MC Room, HC Rooms, Main Mechanical Room, Maintenance Office, Principal's Office, Assistant Principal's Office, Main Office area, mechanical catwalks and attic spaces.
<b>Circuit Protection Devices</b>	Type: Circuit breakers with fuses at selected equipment.	Type: Circuit breakers with fuses at selected equipment.

# MIDDLE SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Packaged Generator</b>	Type: Diesel-fired with belly or above ground tank and minimum 48-hour operation capability with capacity to operate emergency lighting, fire alarm system, telephone, intercom, telecommunications equipment, and selected electrical outlets.	Type: Diesel-fired with belly tank and minimum 48-hour operation capability with capacity to operate emergency lighting, stand-by lighting, fire alarm system, telephone, intercom, telecommunications equipment, and selected electrical outlets plus 10% additional capacity.
<b>Battery Equipment</b>	Type: Uninterrupted power supply for intercom, telephone, and energy management systems. Back-up battery for fire alarm system.	Type: Uninterrupted power supply for intercom, telephone, and energy management systems. Back-up battery for fire alarm system.
<b>Lighting - Exterior - Bus Loading</b>	Type: Pole or building mounted fixtures with 5.0 foot-candle level controlled by photocell and EMS. Location: Between building and bus loading area.	Type: Pole or building mounted fixtures with 5.0 foot-candle level controlled by photocell and EMS. Location: Between building and bus loading area.
<b>Lighting - Exterior - Main Entry</b>	Type: Pole or building mounted fixtures with 5.0 foot-candle level controlled by photocell and EMS. Location: At front entrance between building and entry drive.	Type: Pole or building mounted fixtures with 8.0 foot-candle level controlled by photocell and EMS. Location: At front entrance between building and entry drive.
<b>Lighting - Exterior - Parking</b>	Type: Pole mounted fixtures with 0.8 foot-candle level controlled by photocell and EMS. Location: At parking lots.	Type: Pole mounted fixtures with 1.0 foot-candle level controlled by photocell and EMS. Location: At parking lots.
<b>Lighting - Exterior - Pathways</b>	Type: Pole or building mounted fixtures with 1.0 foot-candle level controlled by photocell and EMS. Location: At pathways around building and between building and parking areas.	Type: Pole or building mounted fixtures with 1.5 foot-candle level controlled by photocell and EMS. Location: At pathways around building and between building and parking areas.
<b>Lighting - Exterior - Service / Delivery</b>	Type: Pole or building mounted fixtures with 3.0 foot-candle level controlled by photocell and EMS with manual bypass timer. Location: At area between building and dumpsters.	Type: Pole or building mounted fixtures with 5.0 foot-candle level controlled by photocell and EMS with manual bypass timer. Location: At area between building and dumpsters.
<b>Lighting - Classrooms</b>	Type: Fluorescent fixtures with a minimum of 50 foot-candle level and maximum of 1.3 watts per SF.	Type: T-8 or T-5 fluorescent fixtures with parabolic louvers to control screen glare, minimum 50 foot-candle level and a maximum of 1.1 watts per SF.
<b>Lighting - Corridors</b>	Type: Fluorescent fixtures with a minimum 15 foot-candle level and a maximum of 0.8 watts per SF.	Type: T-8, T-5 and compact fluorescent fixtures with a minimum 15 foot-candle level and a maximum of 0.6 watts per SF.
<b>Lighting - Emergency</b>	Interior Pathways: An average of 1 footcandle level at floor level at all paths of egress with a minimum of 0.3 footcandle level at the center of paths of egress.	Interior Pathways: An average of 1 footcandle level at floor level at all paths of egress with a minimum of 0.3 footcandle level at the center of paths of egress. Standby Lighting: One standby light fixture connected to emergency generator in each classroom, office, restroom and mechanical equipment space.
<b>Lighting - Gymnasiums</b>	Type: Fluorescent or metal halide fixtures with a minimum 25 foot-candle level and a maximum of 1.3 watts per SF.	Type: Metal halide fixtures, pendant and hook mounted with instant restart at emergency fixtures with a minimum 30 foot-candle level and a maximum of 1.2 watts per SF.
<b>Lighting - Kitchen</b>	Type: Fluorescent fixtures with a minimum 50 foot-candle level and a maximum of 1.5 watts per SF.	Type: T-8 or T-5 fluorescent fixtures with a minimum 50 foot-candle level and a maximum of 1.3 watts per SF.
<b>Lighting - Library</b>	Type: Fluorescent fixtures with a minimum 50 foot-candle level and a maximum of 1.3 watts per SF.	Type: T-8 or T-5 fluorescent fixtures with parabolic louvers to control screen glare with a minimum 50 foot-candle level and a maximum of 1.1 watts per SF.

# MIDDLE SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Lighting - Restrooms</b>	Type: Fluorescent fixtures with a minimum 20 foot-candle level and a maximum of 1.1 watts per SF.	Type: T-8, T-5 and compact fluorescent fixtures with a minimum 20 foot-candle level and a maximum of 0.8 watts per SF.
<b>Lighting - Support Spaces</b>	Type: Fluorescent fixtures with a minimum 50 foot-candle level and a maximum of 1.3 watts per SF.	Type: T-8 or T-5 fluorescent fixtures with parabolic louvers to control screen glare with a minimum 50 foot-candle level and a maximum of 1.1 watts per SF.
<b>Lighting - Stage</b>	Not applicable.	Type: Track-mounted lighting at ceiling at front of stage.
<b>Automatic Lighting Control</b>	Exterior lighting: Time clock and photocell control.	Exterior lighting: EMS and photocell control with separate zones. Interior lighting: Occupancy sensors in classrooms and corridors.
<b>Exit Signs</b>	Type: In compliance with building code at time of construction.	Type: In compliance with current building code and connected to emergency generator.
<b>Data Communications Cabling</b>	Backbone: Optical fiber between MC and HC locations. Wiring: Category 3 cable between computer equipment and MC or HC.	Backbone: 6 pair multimode optical fiber between MC and HC locations. Wiring: Category 5e below grade and Category 6 above grade between computer equipment and MC or HC.
<b>Data Communications Equipment</b>	Filter: Granular grade-level appropriate web content filtering. Router: 10 Mb WAN connectivity. Routing: Layer 3 capability in core switch at MC. Switch: 10 /100 / 1000 host capability. Traffic shaping: Site-based capability. WAN connectivity speed: 10 Mb. UPS: For routers, switches, and servers providing a minimum of 5 minutes of uninterrupted power.	Filter: Granular grade-level appropriate web content filtering. Router: 100 Mb WAN connectivity. Routing: Layer 3 capability in core switch at MC. Switch: 10 /100 / 1000 host capability. Traffic shaping: Site-based capability. WAN connectivity speed: 1,000 Mb. UPS: For routers, switches, and servers providing a minimum of 10 minutes of uninterrupted power.
<b>Data Communications Outlets - General Classrooms</b>	Quantity: Six data outlets for student computers plus one at teacher's work station per classroom.	Quantity: Six data outlets for student computers, two at teacher's work station, and one in floor box at front of classroom per classroom.
<b>Data Communications Outlets - Specialty Classrooms</b>	Quantity: One data outlets for each student computer station plus one at teacher's work station per classroom.	Quantity: One data outlet for each student computer station, two at teacher's work station, and one in floor box at front of classroom per classroom.
<b>Data Communications Outlets - Commons</b>	None.	Quantity: Eight data outlets at perimeter walls located to accommodate special events and registration activities.
<b>Data Communications Outlets - Library</b>	Quantity: One data outlet for each student computer station and one at check-out station.	Quantity: One data outlet for each student computer station, two at check-out station, and one in floor box at instructional area.
<b>Data Communications Outlets - Offices / Workrooms</b>	Quantity: One data outlet for each staff workstation and one for each printer.	Quantity: Two data outlets for each staff workstation, one for each remote printer, and one for each networked copy machine.
<b>Data Communications Outlets - Support Spaces</b>	Quantity: One data receptacle for each computer station and one for each printer located within the space.	Quantity: One data receptacle for each computer station and one for each printer located within the space.
<b>Wireless Data Communications</b>	None.	Type: Power and data outlets for secure wireless access and free-roaming capability in Library, Commons, Main Office, Gymnasium, and each classroom wing.

# MIDDLE SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Telephone / Intercom / Clock System</b>	<p>Communication system: Rauland Telecenter integrated communications system for telephones, voice mail, intercom, clock, class change tones and Enhanced 911.</p> <p>Clocks: Master clock with analog secondary clocks.</p> <p>Intercom: Voice controlled amplifiers with two-way loud speaking and handsets in all occupied spaces except call button in Gymnasium.</p> <p>Telephones: Digital PBX central exchange, voice mail system.</p>	<p>Communication system: Rauland Telecenter ISC integrated communications system for telephones, voice mail, intercom, clock, class change tones and Enhanced 911.</p> <p>Clocks: Rauland master clock. Analog secondary clocks in corridors, Gymnasium and commons. Digital secondary clocks in classrooms, office and support spaces.</p> <p>Intercom: Voice controlled amplifiers with two-way loud speaking and handsets in all occupied spaces except call button in Gymnasium.</p> <p>Telephones: Digital PBX central exchange, voice mail system.</p>
<b>Telephone Handsets</b>	<p>Single-line handset: Classrooms, conference rooms, Kitchen, Library, offices (unless otherwise noted), staff lounge, staff workroom.</p> <p>Multi-line handset: Assistant Principals, Attendance and Counseling secretaries, Health, Main office secretary, Main office workroom, Principal.</p> <p>Multi-line handset with station console: Main office manager.</p>	<p>Single-line handset: Classrooms, conference rooms, Kitchen, Library, offices (unless otherwise noted), staff lounge, staff workroom.</p> <p>Multi-line handset: Assistant Principals, Attendance and Counseling secretaries, Counselors, Health, Main office Secretary, Main office workroom, Registrar, Principal.</p> <p>Multi-line handset with station console: Main office manager.</p>
<b>Sound System</b>	<p>Commons: Public address and stereo music playback system with built-in equipment rack, speakers and microphone outlets.</p> <p>Gymnasium: Public address and stereo music playback system with built-in equipment rack, speakers and microphone outlets.</p>	<p>Commons: Digital audio public address and stereo music playback system with built-in equipment rack, speakers, wireless microphone system, microphone outlets, and assistive listening system.</p> <p>Gymnasium: Digital audio public address and stereo music playback system with built-in equipment rack, speakers with protective cage, wireless microphone system, microphone outlets, and assistive listening system.</p>
<b>Television System</b>	<p>Classrooms: One cable TV outlet in each room.</p> <p>Library office: Television head-end equipment and cable TV outlet.</p> <p>Library: One cable TV outlet.</p>	<p>Classrooms: One cable TV outlet in each room.</p> <p>Library office: Television head-end equipment and cable TV outlet.</p> <p>Conference rooms and Group Study: One cable TV outlet in each room.</p> <p>Library: Two cable TV outlets.</p>
<b>Audio - Video System</b>	None.	<p>General Classrooms: One ceiling mounted video projector outlet connected to outlet in floor box at front of each general classroom.</p> <p>Specialty classrooms: One video projector outlet connected to outlet in wall or floor box at front of each specialty classroom.</p> <p>Commons: One video projector outlet connected to outlet at front of Stage.</p> <p>Library: Two ceiling mounted video projector outlets connected to outlet in floor boxes at front of Library instructional areas.</p> <p>Large Conference rooms: One ceiling mounted video projector outlet connected to outlet at wall.</p>
<b>Intrusion Detection</b>	<p>Type: Multi-zone system with NAPCO control panel, keypad activation device, and passive infrared motion detectors.</p> <p>Location: Control panel in office area, keypad at front entry door. Detection devices in administration area, library, science rooms, industrial technology lab, music rooms, computer rooms, and corridors.</p>	<p>Type: Multi-zone system with NAPCO control panel, keypad activation device, and passive infrared motion detectors.</p> <p>Location: Control panel in Maintenance office, keypad at main entry doors. Detection devices in administration area, library, science rooms, industrial technology lab, music rooms, computer rooms, corridors and portable classrooms.</p>

**MIDDLE SCHOOL****STANDARDS****FACILITY COMPONENTS**

<b>Category</b>	<b>Minimum Standards</b>	<b>Recommended Standards</b>
<b>Video Surveillance</b>	None.	Type: Conduit from main office area to corridor cable tray system and to exterior light poles for future surveillance cameras.
<b>Fire Detection and Alarm</b>	Type: Automatic addressable alarm and detection system in compliance with building code at time of construction. Plastic guards with local alarm at pull stations. Location: Detection and alarm devices located in compliance with building code at time of construction and annunciator at front entry.	Type: Automatic addressable alarm and detection system in compliance with current building code. Plastic guards with local alarm at pull stations. Location: Detection and alarm devices located in compliance with current building code, control panel and printer in Maintenance Office, graphic annunciator at front entry, and LCD annunciator with controls at Main Office.

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>SITE AREAS</b>		
<b>Parking and Access - Buses</b>	Quantity: 20 stalls, 12' wide. Type: Asphalt, 20-year life. Location: Bus loading zone separated from visitor, student and parent parking.	Quantity: 24 stalls, 16' wide. Type: 30-year life. Location: Bus loading zone separated from visitor, student and parent parking.
<b>Parking and Access - Service / Delivery</b>	Quantity: 2 delivery vehicle stalls, 12' wide. 1 maintenance vehicle stall, 10' wide. Type: Asphalt, 20-year life. Location: Delivery stalls adjacent to Kitchen. Maintenance stall adjacent to building.	Quantity: 2 delivery stalls each 16' wide. 2 maintenance vehicle stalls, 12' wide. Type: Asphalt, 30-year life. Location: Delivery stalls adjacent to Kitchen. Maintenance stalls adjacent to Mechanical Room.
<b>Parking and Access - Staff</b>	Quantity: 120 stalls, 8'-6" wide. Type: Asphalt, 20-year life. Location: Separate from student parking.	Quantity: 150 stalls, 9' wide. Type: Asphalt, 30-year life. Location: Separate from student parking.
<b>Parking and Access - Students</b>	Quantity: 400 stalls, 8'-6" wide. Type: Asphalt, 20-year life. Location: Separate from visitor and staff parking, and buses.	Quantity: 475 stalls, 9' wide. Type: Asphalt, 30-year life. Location: Separate from visitor and staff parking, and buses.
<b>Parking and Access - Visitors</b>	Quantity: 20 stalls, 8'-6" wide. Type: Asphalt, 20-year life. Location: At front of building and separated from buses and student parking.	Quantity: 25 stalls, 9' wide. Type: Asphalt, 30-year life. Location: At front of building and separated from buses and student parking.
<b>Student Drop Off - Pick Up</b>	Quantity: 20 parallel parking stalls. Type: Asphalt, 20-year life. Location: Adjacent to sidewalk at front of building.	Quantity: 30 parallel parking stalls. Type: Asphalt, 30-year life. Location: Adjacent to sidewalk at front of building.
<b>Street Frontage Sidewalks</b>	Type: 5' wide with ADA compliant curb cuts, asphalt.	Type: 6' wide with ADA compliant curb cuts, concrete.
<b>On-Site Walkways</b>	Type: 5' wide with ADA compliant curb cuts, asphalt.	Type: 6' wide with ADA compliant curb cuts, concrete.
<b>Stairs and Ramps</b>	Type: 5' wide, ADA compliant, concrete.	Type: 6' wide, ADA compliant, concrete with abrasive stair nosings at stairs and detectable warning pattern at ramps.
<b>Exterior Courtyard</b>	Type: Concrete or brick pavers hard surface plus lawn area. Location: Adjacent to Commons. Size: 8,000 SF of hard surface.	Type: Concrete or brick pavers hard surface plus lawn area. Location: Adjacent to Commons. Size: 12,000 SF of hard surface.
<b>Hard Surface Play Areas</b>	None.	Quantity: 2 basketball courts. Type: Asphalt. Location: Close to courtyard.
<b>Lawns</b>	Type: Irrigated grass turf. Location: At front of building, street frontage, and adjacent to landscape areas where suitable.	Type: Irrigated grass turf with concrete mow strip around posts and hydrants and where grass is adjacent to building. Location: At front of building, street frontage, and adjacent to landscape areas where suitable.
<b>Grass Athletic Fields</b>	Quantity: 1 baseball field and 1 softball field with one of the field areas large enough and adequately isolated to safely accommodate discuss and javelin throw. Type: Grass turf with automated irrigation system. Location: Close to Field House, locker rooms, and parking.	Quantity: 2 baseball fields, 2 softball fields, and 1 multi-purpose field large enough and adequately isolated to safely accommodate discuss and javelin throw. Type: Grass turf with subdrain system, sand topsoil mix and automated irrigation system. Location: Close to Field House, locker rooms, and parking.



# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Athletic Surfacing</b>	Football / Soccer field: Artificial turf. Track: Rubberized running surface. Pole vault and high jump: Rubberized runway. Shot put: Two cinder surface throwing areas. Long jump: Rubberized runway, sand pit. Softball infield: Free draining infield sand. Baseball infield: Free draining infield sand.	Football / Soccer field: Artificial turf, infill type. Track: Rubberized running surface. Pole vault and high jump: Rubberized runway. Shot put: Two cinder surface throwing areas. Long jump: Rubberized runway, sand pit. Softball infield (at grass fields): Free draining infield sand with under drain system. Baseball infield (at grass fields): Free draining infield sand with underdrain system. Competition baseball field: Artificial turf, infill type. Competition softball field: Artificial turf, infill type.
<b>Tennis Courts</b>	Quantity: 7 courts. Type: Acrylic latex all-weather surface over asphalt. Exterior lighting at 2 courts.	Quantity: 9 courts. Type: Acrylic latex all-weather surface over asphalt or concrete. Exterior lighting at 3 courts.
<b>Dumpster Area</b>	Type: Designated areas to accommodate two 30 YD garbage dumpsters and two 8 YD recycle dumpsters. Location: Garbage dumpsters adjacent to exterior door at Kitchen. Recycle dumpster located for efficient access from all parts of building. All dumpsters close to exterior doors and accessible for pick-up by refuse trucks.	Type: Designated areas to accommodate two 30 YD garbage dumpsters and two 8 YD recycle dumpsters. Location: Garbage dumpsters adjacent to exterior door at Kitchen. Recycle dumpster located for efficient access from all parts of building. All dumpsters close to exterior doors and accessible for pick-up by refuse trucks. Visually separated from courtyard and exterior windows.
<b>Portable Classroom Infrastructure</b>	None.	Type: Asphalt surface with underground vaults with drains to storm system and conduit for power, telephone, intercom, data, fire alarm, EMS and security systems for 10 portable classrooms. Location: Close to classroom area and building entrance. Not visible from street.
<b>SITE IMPROVEMENTS</b>		
<b>Fences and Gates</b>	Type: Chainlink fencing at perimeter of property, at athletic fields, and adjacent to other property. 12' wide chainlink gates at all fence areas for direct vehicle access. Height: 6' high at athletic fields and perimeter of site except at front of school. 6' high at stormwater detention ponds and wetlands adjacent to play areas. 4' high stormwater detention ponds and wetlands separated from play areas.	Type: Chainlink fencing at perimeter of property, at athletic fields, and adjacent to other property. 16' wide chainlink gates at all fence areas for direct vehicle access. Ornamental metal fencing adjacent to roadways and at stormwater detention ponds and wetlands at front of school with 16' gates for vehicle access. Height: 6' high at athletic fields and perimeter of site except at front of school. 6' high at stormwater detention ponds and wetlands adjacent to play areas. 4' high stormwater detention ponds and wetlands separated from play areas.
<b>Backstop Fencing</b>	Baseball and softball fields: 20' high chainlink with wood timbers behind home plate. Increase height or add overhang if needed for foul ball containment close to parking areas, roads and tennis courts. Discus throw: 10' high chainlink at three sides of discus pad.	Baseball and softball fields: 25' high chainlink with wood timbers behind home plate. Increase height or add overhang if needed for foul ball containment close to parking areas, roads and tennis courts. Discus throw: 10' high chainlink at three sides of discus pad.
<b>Pipe Rail Gates and Railings</b>	Gates: 12' wide made from galvanized steel pipe with padlock hardware and reflective warning tape. Located at driveway access to delivery area, service drive, and staff parking lot. Railings: Made from galvanized steel pipe.	Gates: 16' wide made from galvanized steel pipe with padlock hardware and reflective warning tape. Located at driveway access to delivery area, service drive, staff and student parking lots. Railings: Made from galvanized steel pipe, ADA compliant.
<b>Retaining Walls</b>	Type: Concrete, segmental block or rockery.	Type: Concrete, segmental block or rockery.

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Bicycle Racks</b>	Quantity: Racks for 30 bikes.. Type: Galvanized metal. Location: At courtyard area.	Quantity: Racks for 45 bikes. Type: Galvanized "ribbon" metal. Location: At courtyard area.
<b>Dumpsters</b>	Garbage dumpsters: Two 30 YD dumpsters located at Kitchen delivery area. Recycle dumpsters: Two 8 YD dumpsters located for efficient access from all parts of building. Grease receptacle: One portable grease tank located at Kitchen delivery area.	Garbage dumpsters: Two 30 YD dumpsters located at Kitchen delivery area. Recycle dumpsters: Two 8 YD dumpsters located for efficient access from all parts of building. Grease receptacle: One portable grease tank located at Kitchen delivery area.
<b>Exterior Benches</b>	Quantity: 2 at front of school. 12 at courtyard. Type: Durable non-wood material.	Quantity: 2 at front of school. 16 at courtyard. 8 at bus loading area. Type: Prefinished metal "ribbon" bench.
<b>Exterior Waste Receptacles</b>	Quantity: Two at exterior courtyard, one at each athletic field, two at bus loading area, and one at each main entry. Type: Heavy-duty galvanized can with push door dome top.	Quantity: Two at exterior courtyard, one at each athletic field, two at bus loading area, and one at each main entry. Type: Heavy-duty galvanized can with push door dome top at exterior courtyard, bus loading, athletic fields and main entries except prefinished metal "ribbon" container with push door dome top at front entry.
<b>Exterior Bleachers</b>	Quantity: Seating for 40 spectators at main softball and baseball fields. Seating for 300 at football / soccer field. Type: Wood at baseball and softball fields, metal with railings at football / soccer field.	Quantity: Seating for 60 spectators at main softball and baseball fields. Seating for 400 at football / soccer field. Type: Metal with railings.
<b>Flag Pole</b>	Type: 25' painted metal. Location: Front of school and accessible from hard surface.	Type: 40' spun aluminum with internal halyard. Location: Front of school and accessible from hard surface.
<b>Play Area Equipment</b>	None.	Basketball hoops: 4 heavy-duty metal backboards and hoops with nylon nets.
<b>Play Area Striping</b>	None.	Basketball court: 2 courts close to courtyard.
<b>Exterior Scoreboards</b>	Football / Soccer / Track: Electronic scoreboard with timing and scoring capability for two teams for football, soccer and track. 7' H x 16' W with field name caption at top of scoreboard. Located at one end of track. Baseball Field: Electronic scoreboard with scoring capability for two teams for baseball and softball. 5' H x 8' W with field name caption at top of scoreboard. Located at behind outfield fence at center field. Softball Field: Electronic scoreboard with scoring capability for two teams for baseball and softball. 5' H x 8' W with field name caption at top of scoreboard. Located at behind outfield fence at center field.	Football / Soccer / Track: Electronic scoreboard with timing and scoring capability for two teams for football, soccer and track. 9' H x 18' W with capability for wireless control and field name caption at top of scoreboard. Located at one end of track with concrete pad at base of scoreboard. Baseball Field: Electronic scoreboard with scoring capability for two teams for baseball and softball. 7' H x 16' W with capability for wireless control and field name caption at top of scoreboard. Located at behind outfield fence at center field with concrete pad at base of scoreboard. Softball Field: Electronic scoreboard with scoring capability for two teams for baseball and softball. 7' H x 16' W with capability for wireless control and field name caption at top of scoreboard. Located at behind outfield fence at center field with concrete pad at base of scoreboard.
<b>Reader Board</b>	None.	Type: Electronic message display sign. Location: At street in front of school.
<b>Site Sign</b>	Type: Monument sign with school name and address. Location: At front of school.	Type: Concrete or masonry monument sign with school name and address. Location: At front of school.

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Traffic Control Signs</b>	Type: As needed for traffic and parking control. Location: At HC parking stalls, maintenance parking stalls, delivery vehicle stalls, bus loading area, student drop off / pick up zone, parking lots, service drive, entry roads.	Type: As needed for traffic and parking control. Location: At HC parking stalls, maintenance parking stalls, delivery vehicle stalls, bus loading area, student drop off / pick up zone, parking lots, service drive, entry roads.
<b>Pavement Markings</b>	Type: Painted lines at cross walks, stop bars, traffic arrows, parking stalls, HC parking symbols, fire lanes, and numbers at bus stalls. Location: At bus loading area, drop off / pick up zone, parking lots, service drive, entry roads.	Type: Painted lines at parking stalls, HC parking symbols, and fire lanes. Thermoplastic markings at cross walks, stop bars, traffic arrows and numbers at bus stalls. Location: At bus loading area, drop off / pick up zone, parking lots, service drive, entry roads.
<b>LANDSCAPING</b>		
<b>Shrubs / Groundcover</b>	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department with automated irrigation system. Location: At building perimeter, parking lot islands, and perimeter landscape buffers.	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department with automated irrigation system. Location: At building perimeter, parking lot islands, and perimeter landscape buffers.
<b>Trees</b>	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department. Location: At lawn areas, street frontage, parking lot islands, and perimeter landscape buffers.	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department. Location: At lawn areas, street frontage, parking lot islands, and perimeter landscape buffers.
<b>Wetlands</b>	Type: As required by ordinance with temporary irrigation system. Location: As required by ordinance.	Type: As required by ordinance with temporary irrigation system. Location: As required by ordinance.
<b>Irrigation System</b>	Type: Automated system with separate water meter. Location: At lawns, grass athletic fields, landscape areas and wetlands.	Type: Automated system controlled by EMS with separate water meter. Location: At lawns, grass athletic fields, landscape areas and wetlands.
<b>UTILITIES</b>		
<b>Water System</b>	Type: Ductile iron pipe with separate domestic and fire service systems, deduct meter for irrigation system, backflow preventor and FDC on fire system. Size: As required for flow requirements. Location: As required by local water purveyor.	Type: Ductile iron pipe with separate domestic and fire service systems, separate (non-deduct) meter for irrigation system, backflow preventor and FDC on fire system. Supplemental electronic meters for domestic and irrigation systems located in Main Mechanical Room and connected to EMS. Size: As required for flow requirements. Location: As required by local water purveyor with domestic and irrigation meters located close to building.
<b>Sanitary Sewer System</b>	Type: PVC or concrete pipe with positive slope in compliance with Dept. of Ecology "Orange Book". Size: 6" diameter side and main sewer. Location: As required by local sewer purveyor with manhole structures easily accessible for maintenance.	Type: PVC pipe with ductile iron pipe where cover is less than 24". Positive slope in compliance with Dept. of Ecology "Orange Book" and locking manhole covers. Size: 6" diameter side and 8" diameter main sewer. Location: As required by local sewer purveyor with manhole structures easily accessible for maintenance.

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Storm Drainage System</b>	Type: Concrete pipe, ductile iron, PVC or corrugated polyethylene pipe. Size: 4" diameter footing and roof drains. 8" diameter site storm drains. Location: As required by local jurisdiction with drainage structures easily accessible for maintenance.	Type: PVC or corrugated polyethylene pipe with ductile iron pipe where cover is less than 24". Locking grates and Type 2 manhole structures where invert is deeper than 60". Clean outs at the base of all downspouts and at ends of roof and footing drain lines. Size: 6" diameter footing and roof drains. 8" diameter site storm drains. Location: As required by local jurisdiction with drainage structures easily accessible for maintenance.
<b>Natural Gas Service</b>	Type: Capacity as required for building gas load provided in inches or pounds. Location: Underground with gas meter adjacent to exterior wall of building.	Type: Capacity in pounds as required for building gas load with a minimum of 2 pounds and supplemental electronic meter located in Main Mechanical Room and connected to EMS. Location: Underground with gas meter adjacent to exterior wall of building.
<b>Fuel Storage Tanks</b>	Underground storage tanks: Steel with corrosion-resistant coating. Locate close to equipment receiving fuel and below an area that is accessible for future excavation. Above ground storage tanks: Steel with corrosion protection and secondary containment area. Locate close to equipment receiving fuel.	Underground storage tanks: Not acceptable. Above ground storage tanks: Steel with corrosion protection and secondary containment area. Locate close to equipment receiving fuel.
<b>Electrical Service</b>	Type: As required for calculated electrical load. Location: Underground.	Type: As required for calculated electrical load plus 15% spares with fully coordinated over current protection. Location: Underground.
<b>Telephone Service</b>	Type: 34 voice grade lines comprised of 32 Centrex lines and 2 POTS lines. Size: 2" conduit. Location: Underground.	Type: 34 voice grade lines comprised of 32 Centrex line and 2 POTS lines. Size: Two 4" conduit. Location: Underground.
<b>Cable Television Service</b>	Type: Comcast Basic Cable service. Size: 2" conduit. Location: Underground.	Type: Comcast Basic Cable service. Size: Two 4" conduit. Location: Underground.
<b>Internet Connection</b>	Type: Three T1 lines with combined 4.652 MB bandwidth. Location: Underground.	Type: Optical fiber with a 100 MB bandwidth. Location: Underground with spare 4" conduit for future expansion.
<b>Energy Usage - MBTUs per SF Building Area</b>	Annual usage: .073 MBTUs per SF.	Annual usage: .071 MBTUs per SF.
<b>Water Usage - Domestic Water per SF Building Area</b>	Annual usage: Average of existing high school facilities.	Annual usage: Average of lowest two existing high school facilities.
<b>Water Usage - Irrigation Water per SF Landscape Area</b>	Annual usage: Average of existing high school facilities.	Annual usage: Average of lowest two existing high school facilities.
<b>STRUCTURE</b>		
<b>Foundation</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>Floor Structure</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>Wall Structure - Bearing</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Wall Structure - Non Bearing</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>Roof Structure</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>BUILDING ENVELOPE</b>		
<b>Floors</b>	Ground level: Wood framing over ventilated crawl space. Upper levels: Wood framing with plywood subfloor.	Ground level: Reinforced concrete slab-on-grade with vapor retarder and capillary break. Upper level: Reinforced concrete over wood or metal decking.
<b>Exterior Wall Surface</b>	Type: Cement board siding, metal siding, concrete or window wall.	Type: Masonry.
<b>Exterior Wall Insulation</b>	Type: R-11.	Type: R-19 or greater if required by code.
<b>Exterior Windows</b>	Quantity: 48 SF of glazing per classroom. Type: Operable sash metal frames with dual glazing. Location: At all classrooms.	Quantity: 72 SF of glazing per classroom. Type: Operable sash prefinished aluminum frames with 1/4" dual glazing, low E coating, U-value less than 40, and integral blinds. Location: At all classrooms and offices.
<b>Exterior Doors</b>	Type: 16-gauge painted hollow metal door with hollow metal frame. Location: As required for ease of circulation and fire exiting. Size: 3' x 6'-8" with a pair of doors with removable mullion at exterior door of mechanical equipment spaces.	Type: 14-gauge hollow painted hollow metal door with hollow metal frame and U-value less than 40. Location: As required for ease of circulation and fire exiting. Size: 3' x 7' except oversized door at Kitchen service entry and a pair of 3' x 7' doors with removable mullion at exterior door of mechanical equipment spaces.
<b>Soffits</b>	Type: Painted wood.	Type: Painted MDO plywood or prefinished metal.
<b>Flashing</b>	Type: Painted metal.	Type: Pre-finished 24-gauge sheet metal.
<b>Trim</b>	Type: Painted wood.	Type: Pre-finished 24-gauge sheet metal.
<b>Gutters and Downspouts</b>	Gutters: Painted metal located at edge of roof. Downspouts: Painted PVC or metal.	Gutters: Pre-finished 22-gauge sheet metal field formed in continuous lengths located at edge of roof. Downspouts: Pre-finished 11-gauge sheet metal with rain diverters at roof valleys and connected to storm drainage system or rain garden.
<b>Roof Membrane</b>	Low-sloped roof: Built-up roofing with mineral cap sheet. Pitched roof: 30-year fiberglass composition shingles.	Low-sloped roof: Single-ply Hypolon membrane. Pitched roof: Pre-finished 24-gauge metal.
<b>Roof Insulation</b>	Type: R-19.	Type: R-38 or greater if required by code, installed at roof level.
<b>Roof Accessories</b>	Type: Painted metal. Location: Minimum 5' separation from roof drains, edges and valleys.	Type: Pre-finished metal with protected electrical receptacle at all mechanical equipment. Location: Minimum 10' separation from roof drains, edges and valleys.
<b>Skylights</b>	Type: Translucent glazing and 300-pound point load capacity.	Type: Translucent, dual-surface, reinforced plastic glazing with pre-finished aluminum frame and 300-pound point load capacity.

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Fall Arrest System</b>	Type: Fall protection roof anchors in compliance with UMC, WISHA and OSHA standards. Location: In compliance with WISHA and OSHA standards.	Type: Fall protection roof anchors and railings in compliance with UMC, WISHA and OSHA standards. Location: In compliance with UMC, WISHA and OSHA standards.
<b>Canopies / Covered Walkways</b>	Type: Metal framed with single-ply Hypolon membrane or built-up roof with mineral cap sheet. Location: At bus loading area.	Type: Metal framed with pre-finished metal roof. Location: At bus loading area and courtyard.
<b>INTERIORS</b>		
<b>Floors - Classrooms</b>	Carpet: Synthetic pile with polypropylene / vinyl backing in standard classrooms. VCT: 12" x 12" tile in specialty classrooms. Concrete: Sealed concrete in Construction / Manufacturing.	Carpet: Synthetic pile with polypropylene / vinyl backing in standard classrooms. VCT: 12" x 12" tile in specialty classrooms. Concrete: Sealed concrete in Construction / Manufacturing.
<b>Floors - Corridors and Stairs</b>	VCT: 12" x 12" tile at corridors and stairs. Abrasive nosing at stair treads and landings. Walk-off mat: Loose-laid mat with synthetic pile at exterior doors.	VCT: 12" x 12" tile at corridors and stairs. Abrasive nosing at stair treads and landings. Walk-off mat: Glue-down mat with synthetic pile and polypropylene / vinyl backing at exterior doors.
<b>Floors - Gymnasiums</b>	Type: Maple hardwood flooring on sleeper system.	Type: Maple hardwood flooring on sleeper system.
<b>Floors - Kitchen</b>	Type: Seamless flooring with abrasive finish.	Type: Unglazed quarry tile with abrasive surface over mortar bed.
<b>Floors - Library</b>	Carpet: Synthetic pile with polypropylene / vinyl backing. Walk-off mat: Loose-laid mat with synthetic pile at exterior door.	Carpet: Synthetic pile with polypropylene / vinyl backing in seating area. Walk-off mat: Glue-down mat with synthetic pile and polypropylene / vinyl backing at exterior doors.
<b>Floors - Locker Rooms</b>	Dressing Area: Concrete slab with non-slip surface. Shower Area: Concrete slab with non-slip surface. Coaches' Office: 12" x 12" VCT. Storage Rooms: Sealed concrete.	Dressing Area: Concrete slab with non-slip epoxy resin surface. Shower Area: Unglazed ceramic tile. Coaches' Office: Synthetic pile carpet with polypropylene / vinyl backing. Storage Rooms: 12" x 12" VCT..
<b>Floors - Restrooms</b>	Seamless flooring: Seamless material with abrasive finish in student, public and staff restrooms. Sheet vinyl: Sheet vinyl with coved base in staff, health and classroom restrooms.	Ceramic tile: Unglazed porcelain tile in student, public and staff restrooms. Sheet vinyl: Sheet vinyl with coved base in health and classroom restrooms.
<b>Floors - Support Spaces</b>	Carpet: Synthetic pile with polypropylene / vinyl backing at office, reception areas and work rooms. VCT: 12" x 12" tile at storage and telecommunications rooms. Concrete: Sealed concrete at custodial, mechanical and electrical rooms. Plywood: Plywood floor deck at catwalks and mechanical attics in wood frame buildings.	Carpet: Synthetic pile with polypropylene / vinyl backing at office, reception areas and work rooms. VCT: 12" x 12" tile at storage and telecommunications rooms. Sheet vinyl: Vinyl sheet flooring at custodial rooms. Concrete: Sealed concrete at mechanical and electrical rooms, and at catwalks and mechanical attics in metal frame buildings. Plywood: Plywood floor deck at catwalks and mechanical attics in wood frame buildings.
<b>Walls - Classrooms</b>	Type: Painted gypsum wallboard.	Type: Painted gypsum wallboard above 36" high protective wainscot.
<b>Walls - Corridors and Stairs</b>	Gypsum wallboard: Painted wallboard at corridors, stairs and entry areas.	Gypsum wallboard: Painted wallboard above wainscot in corridors, stairs, and entry areas. Wainscot: Painted veneer plaster or MDF or MDO plywood, minimum 84" high at corridors, stairs and entry areas where lockers are not present.

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Walls - Gymnasiums</b>	Wainscot: 7' high painted MDF or sealed masonry. Above wainscot: Painted gypsum wallboard pr sealed masonry.	Wainscot: 7' high painted MDF or sealed masonry. Above wainscot: Painted gypsum wallboard or sealed masonry.
<b>Walls - Kitchen</b>	Perimeter walls: Gypsum wallboard with epoxy paint. Cooking island wall: FRP panels.	Perimeter walls: FRP panels. Cooking island wall: Stainless steel cladding.
<b>Walls - Library</b>	Type: Painted gypsum wallboard.	Type: Painted gypsum wallboard.
<b>Walls - Restrooms</b>	Gypsum wallboard: Painted wallboard at classroom and staff restrooms, and above wainscot in public and student restrooms. Ceramic tile: 7' high porcelain ceramic tile wainscot in public and student restrooms.	Gypsum wallboard: Painted wallboard above wainscot at classroom, health, public, staff, and student restrooms. Ceramic tile: 7' high porcelain ceramic tile wainscot in student and public restrooms. Plastic laminate: 40" high wainscot in classroom, health and staff restrooms.
<b>Walls - Support Spaces</b>	Gypsum wallboard: Painted wallboard in custodial, electrical, mechanical, office, reception, staff lounge, storage, and work rooms.	Gypsum wallboard: Painted wallboard in custodial, electrical, mechanical, office, reception, storage, and work rooms. Vinyl wall material: Vinyl wall covering at display walls in offices and staff lounge.
<b>Asbestos-Containing Materials</b>	Criteria: Asbestos-containing building materials present in a facility shall be intact, undisturbed and included in an asbestos management plan in compliance with AHERA regulations.	Criteria: Asbestos-containing building materials shall not be present.
<b>Interior Doors</b>	Classrooms: Hollow metal or solid core doors. Support spaces: Hollow metal or solid core doors. Corridors: Hollow metal at cross-corridor doors.	Classroom: 1-3/4" thick solid core doors with wood veneer. Support spaces: 1-3/4" thick solid core doors with wood veneer. Corridors: 16 gauge hollow metal at cross-corridor doors.
<b>Door Hardware</b>	Locksets: Schlage or Corbin with standard classroom function and keying that matches the school district's Schlage or Corbin Master Key system.	Closers and handles: ADA compliant. Door mullions: Removable and secured with key. Hinges: Continuous at high-use doors. Locksets: Schlage with Primus at exterior doors; standard classroom function plus exterior door locksets with inside cylinders keyed to unlock the outside and outside cylinders keyed to unlatch only; and keying that matches the school district's Schlage Great Grand Master Key system.
<b>Automatic Door Opener</b>	None.	Type: ADA compliant with keyed power shut off at door. Location: At main entry doors.
<b>Overhead Doors and Grilles</b>	Interior overhead doors and grilles: Manually operated up to 6' wide. Motorized operation when over 6' wide. Fire-rated overhead doors and grilles shall be activated by local smoke or heat detectors. Exterior overhead doors and grilles: Manually operated.	Interior overhead doors and grilles: Manually operated up to 6' wide. Motorized operation when over 6' wide. Fire-rated overhead doors and grilles shall be activated by local smoke or heat detectors. Exterior overhead doors and grilles: Manually operated up to 10' wide. Motorized operation when over 10' wide.
<b>Interior Windows</b>	Type: Wood or metal frame with glazing in compliance with applicable building codes.	Type: Metal frame with safety glass.

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Operable Walls</b>	Main gym: Motorized divider curtain to divide Gym in half. Auxiliary gym: Motorized divider curtain to divide Gym in half.	Main gym: Motorized divider curtain to divide Gym in half. Auxiliary gym: Motorized divider curtain to divide Gym in half.
<b>Ceilings - Classrooms</b>	Type: Surface applied acoustical ceiling tile or suspended acoustical ceiling panels. Height: Minimum 9'.	Type: Surface applied acoustical ceiling tile or suspended acoustical ceiling panels. Height: Minimum 9'-6".
<b>Ceilings - Corridors</b>	Type: Surface applied acoustical ceiling tile or suspended acoustical ceiling panels. Height: Minimum 9'.	Type: Surface applied acoustical ceiling tile or 2' x 2' suspended acoustical ceiling panels. Height: Minimum 10'.
<b>Ceilings - Gymnasiums</b>	Type: Painted gypsum board or exposed structure. Height: Minimum 20'.	Type: Exposed structure or surface applied acoustical ceiling tile. Height: Minimum 23'.
<b>Ceilings - Kitchen</b>	Type: Painted gypsum board, surface applied acoustical ceiling tile, or suspended acoustical ceiling panels. Height: Minimum 10'.	Type: 2'x4' suspended acoustical ceiling panels with scrubbable surface and non-combustible rating for ceiling panels within 18" of cooking exhaust hood. Height: Minimum 10'.
<b>Ceilings - Library</b>	Type: Surface applied acoustical ceiling tile or suspended acoustical ceiling panels. Height: Minimum 10'.	Type: Surface applied acoustical ceiling tile or 2' x 2' suspended acoustical ceiling panels. Height: Minimum 10'.
<b>Ceilings - Restrooms</b>	Type: Painted gypsum board. Height: Minimum 8' at classroom, health and staff restrooms, at public and student restrooms.	Type: Painted gypsum board. Height: Minimum 8' at classroom, health and staff restrooms, 9' at public and student restrooms.
<b>Ceilings - Support Spaces</b>	Gypsum board: Custodial and general storage rooms, minimum 9'-0" high. Gym storage rooms minimum 9'-6" high. Suspended acoustical ceiling panels: Conference rooms, offices and workrooms, minimum 8' high.	Gypsum board: Custodial and general storage rooms, minimum 9'-0" high. Gym storage rooms minimum 9'-6" high. Suspended acoustical ceiling panels (2'x2'): Conference rooms and offices, minimum 9' high. Suspended acoustical ceiling panels (2'x4'): Workrooms, minimum 9' high.
<b>EQUIPMENT AND SPECIALTIES</b>		
<b>Marker Boards</b>	Quantity: One 16' board at classrooms. One 4' board at conference rooms. Type: Ceramic coated steel. Location: Classrooms and conference rooms.	Quantity: One 16' board and one 8' board at classrooms. One 8' board at conference rooms. Power and data outlets at 16' board in classrooms for future Smartboard connection. Type: Ceramic coated steel.
<b>Tackboards</b>	Quantity: 16' at classrooms, 4' at offices, 8' at lounge, 4' at conference rooms. Type: Cedar, cork or vinyl-covered cork. Location: Classrooms, offices, staff lounge and conference rooms.	Quantity: 16' at lounge, 8' at offices and conference rooms. Type: Vinyl-covered cork at offices, staff lounge and conference rooms. Vinyl wall covering in lieu of tackboards at classrooms. Location: Offices and conference rooms.
<b>Interior Signage</b>	Type: High impact acrylic room signs with room name and number. Cast metal dedication plaque. Location: Room sign at main entry door to all rooms. Dedication plaque at entry lobby.	Type: ADA compliant, high impact acrylic room signs with room name, number and raster Braille. Cast metal dedication plaque. Location: Room sign at main entry door to all rooms. Dedication plaque at entry lobby.
<b>Toilet Partitions</b>	Type: Plastic laminate covered fiber board. Location: Partitions at toilet stalls.	Type: Plastic laminate covered phenolic panels. Location: Partitions at toilet stalls and screens at urinals.



# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Toilet Accessories</b>	Type: Mirrors, paper towel dispensers, soap dispensers, grab bars, tampon dispensers and sanitary napkin receptacles. Location: Mirrors at restroom hand wash areas. Paper towel and soap dispensers at all sinks. Grab bars at ADA accessible toilet stalls. Tampon dispenser and sanitary napkin receptacle at women's staff and student restrooms.	Type: Mirrors, paper towel dispensers, soap dispensers, grab bars, tampon dispensers and sanitary napkin receptacles. Location: Mirrors at restroom hand wash areas. Paper towel and soap dispensers at all sinks. Grab bars at ADA accessible toilet stalls. Tampon dispenser and sanitary napkin receptacle at women's staff and student restrooms.
<b>Lockers</b>	Corridors: 1,500 individual double tier metal lockers, each 12" W x 12" D x 30" H, secured with built-in combination lock. Locker rooms: 650 box and 120 half-height metal lockers in Boy's and Girl's Locker rooms secured with padlock. Kitchen: 4 individual double tier metal lockers, each 12" W x 12" D x 36" H, secured with a padlock plus 16 four-tier metal lockers each 12" W x 12" D x 18" H and secured with a padlock. Maintenance Office: 4 individual double tier metal lockers, each 12" W x 12" D x 36" H, secured with a padlock.	Corridors: 1,800 individual double tier metal lockers, each 12" W x 15" D x 30" H, secured with built-in combination lock. Locker rooms: 700 box and 140 half-height metal lockers in Boy's and Girl's Locker rooms secured with padlock. Kitchen: 6 individual double tier metal lockers, each 12" W x 12" D x 36" H, secured with a padlock plus 20 four-tier metal lockers each 12" W x 12" D x 18" H and secured with a padlock. Maintenance Office: 6 individual double tier metal lockers, each 12" W x 12" D x 36" H, secured with a padlock.
<b>Residential Appliances</b>	Type: Residential grade. Ranges: Electric ranges with oven at student stations in Foods. Exhaust hoods: Electric exhaust fan with removable and cleanable filters at student stations in Foods. Microwave ovens: Portable microwaves at student stations in Foods and in Staff Lounge. Refrigerator: Large capacity refrigerator in Foods and stand size refrigerators in Staff Lounge. Freezer: Large capacity freezer in Foods. Ice machines: Undercounter machines in Training and Health.	Type: Residential grade, ADA compliant and ENERGY STAR qualified. Ranges: Electric ranges with oven at student stations in Foods. Exhaust hoods: Electric exhaust fan with removable and cleanable filters at student stations in Foods. Microwave ovens: Portable microwaves at student stations in Foods, Staff Lounge, and Commons microwave alcove. Refrigerator: Large capacity refrigerator in Foods and stand size refrigerators in Staff Lounge. Freezer: Large capacity freezer in Foods. Ice machines: High capacity machine in Training, under counter machine in Health. Washer and dryer: High capacity machines in Laundry, stacking machines in Foods.
<b>Projection Screens</b>	Classrooms: 70" W x 70" H with manual operation. Library: 70" W x 70" H with manual operation. Theater: 144" W x 144" H with motorized operation.	Classrooms: 70" W x 70" H with manual operation. Library: Two 120" W x 90" W with motorized operation. Commons: 120" W x 120" H with motorized operation. Theater: 144" W x 144" H with motorized operation. Main Gymnasium: 144" W x 144" H with motorized operation and protective enclosure.
<b>Theater Curtains and Rigging</b>	Stage: Stage drapery and manual rigging.	Stage: Stage drapery and winch powered rigging.
<b>Theater Seating</b>	Quantity: 400 seats. Type: Cushioned, upholstery with metal shell.	Quantity: 400 seats. Type: Cushioned, upholstery with metal shell.
<b>Telescoping Bleachers</b>	Main Gym: Motorized with 1,500 seats and portable scorer's table. Auxiliary Gym: None.	Type: ADA compliant, motorized with 1,600 seats, portable scorer's table, power shut off within room, and outlets for power, data, scoreboard, 30-second clock and sound system at scorer's table. Auxiliary Gym: ADA compliant, motorized with 300 seats, portable scorer's table, power shut off within room, and outlets for power, data, scoreboard, 30-second clock, and sound system at scorer's table.

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Window Covering</b>	Classrooms: Roller shades or coated fabric curtains at exterior windows. Horizontal louver mini-blinds at interior relite windows. Conference rooms and offices: Coated fabric curtains or horizontal louver mini-blinds at exterior windows. Horizontal louver mini-blinds at interior relite windows. Gymnasium: None. Library: Roller shades or coated fabric curtains. Interior windows: Horizontal louver mini-blinds at interior relite windows.	Classrooms: Integral blinds between window glass at exterior windows. Horizontal louver mini-blinds at interior relite windows. Conference rooms and offices: Integral blinds between window glass at exterior windows. Horizontal louver mini-blinds at interior relite windows. Gymnasium: Roller shades. Library: Roller shades or integral blinds between window glass at exterior windows. Interior windows: Horizontal louver mini-blinds at interior relite windows.
<b>Cabinets - General Classrooms</b>	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to a master system. Quantity: 3 LF tall bookshelves, 3 LF tall storage, 3 LF wardrobe plus 12 LF of tall bookshelves in language arts classrooms.	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to the building master key system. Quantity: 6 LF tall bookshelves, 3 LF tall storage, 3 LF wardrobe plus 18 LF tall bookshelves in language arts classrooms.
<b>Cabinets - Specialty Classrooms</b>	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to a master system. Quantity: As needed to accommodate the instructional program.	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to the building master key system, and epoxy resin counter tops in Science classrooms and Science Prep rooms. Quantity: As needed to accommodate the instructional program.
<b>Cabinets - Offices</b>	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to a master system. Quantity: As needed to accommodate office use.	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, and locks keyed to the building master key system. Quantity: As needed to accommodate office use.
<b>Cabinets - Storage</b>	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to a master system. Quantity: As needed to accommodate storage needs.	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to the building master key system. Quantity: As needed to accommodate storage needs.
<b>Cabinets - Support Spaces</b>	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to a master system. Quantity: As needed to accommodate support space use.	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to the building master key system. Quantity: As needed to accommodate support space use.
<b>Display Cases</b>	Quantity: 16 LF at front enter foyer, 8 LF at Theater, 36 LF at Gyms, 8 LF at Art area, 8 LF at music area. Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to a master display case system.	Quantity: 16 LF at front enter foyer, 16 LF at Theater, 48 LF at Gyms, 8 LF at Art area, 8 LF at Construction / Manufacturing, 16 LF at music area. Type: Recessed aluminum frame display case with hinged door, tackboard at back surface, and keyed to a building master key system.
<b>Equipment - Art</b>	Type: Two electric kilns with ceiling exhaust system. Location: In dedicated room with fire detection system.	Type: Two electric kilns with Environvent ventilation system and ceiling exhaust system. Location: In dedicated room with fire sprinkler system.
<b>Equipment - Automobile Technology</b>	None.	Type: As needed to accommodate a district-wide automobile technology CTE program at Auburn High School.

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Equipment - General Classrooms</b>	Computers: One computer per each FTE staff and one computer for each 3 students in the building with computers not exceeding 5 years in age. Printers: One ink jet printer not exceeding 4 years in age per classroom or one laser printer not exceeding 8 years in age per two classrooms.	Computers: One computer per each FTE staff and one computer for each 3 students in the building with computers not exceeding 5 years in age. Printer: One ink jet printer not exceeding 2 years in age per classroom or one laser printer not exceeding 6 years in age per two classrooms. LCD Projector and Camera: One projector with ceiling mount framework and document camera not exceeding 8 years in age.
<b>Equipment - Business Education / Computer Classrooms</b>	Computers: One staff and 30 student computers, not exceeding 5 years in age. Printer: Two ink jet printers not exceeding 4 years in age or two laser printer not exceeding 8 years in age or a combination of two printers.	Computers: One staff and 30 student computers, not exceeding 4 years in age. Printer: One ink jet printer not exceeding 2 years in age plus one color laser printer and one black laser printer not exceeding 6 years in age. LCD Projector and Camera: One projector with ceiling mount framework and document camera not exceeding 8 years in age.
<b>Equipment - Construction / Manufacturing</b>	Metal working: 1 metal working table, 1 box / pan brake, 1 shear, 1 floor grinder, 1 roller and eye wash. Wood working: 1 chop saw, 1 router table, 1 table saw, 1 band saw, 1 scroll saw, and 1 drill press with master shut-off switch. Sawdust collection system at dust generating equipment.	Metal working: 1 metal working table, 1 box / pan brake, 1 shear, 1 floor grinder, 1 roller, 1 spot welder and eye wash. Wood working: 1 chop saw, 2 router tables, 1 table saw, 2 band saws, 1 scroll saw, 2 drill presses, 1 jointer, 1 planer, 1 panel sander. 120 / 208 volt equipment with master shut-off switch. Sawdust collection system at dust generating equipment.
<b>Equipment - Food Service</b>	Type: Equipment adequate to accommodate a full service kitchen and includes ventilation hood, separate walk-in cooler and freezer, and cooking, dishwashing and serving equipment.	Type: Equipment adequate to accommodate a full service kitchen and includes ventilation hood, separate walk-in cooler and freezer, and cooking, dishwashing and serving equipment. Gas fired when possible.
<b>Equipment - Gymnasiums</b>	Main gym: 12 motorized basketball backboards. One scoreboard and two 30-second clocks. Wall pads behind basketball backboards. Motorized curtain to divide Gym in half. Power volleyball posts for 3 courts. Auxiliary gym: 4 motorized basketball backboards. Two scoreboards and four 30-second clocks. Wall pads behind basketball hoops. Motorized curtain to divide Gym in half. Power volleyball posts for 2 courts.	Main gym: 12 motorized basketball backboards. Two scoreboards and four 30-second clocks. Wall pads behind basketball backboards. Motorized curtain to divide Gym in half. Power volleyball posts for 3 courts. Auxiliary gym: 8 motorized basketball backboards. Three scoreboards and six 30-second clocks. Wall pads behind basketball hoops. Motorized curtain to divide Gym in half. Power volleyball posts for 3 courts.
<b>Equipment - Library</b>	Computers: 24 student computers, 4 computer search stations, 2 staff computers, not exceeding 5 years in age. Printers: Two ink jet printers not exceeding 4 years in age and one laser printer not exceeding 10 years in age. Television: One television monitor with DVD / VCR player, not exceeding 10 years in age. Copy Machine: One 25 copies per minute machine, not exceeding 8 years in age. Library Management Equipment: Check-out system not exceeding 6 years in age. Library Media Security Equipment: Security system not exceeding 15 years in age.	Computers: 30 student computers, 4 computer search stations, 2 staff computers, not exceeding 4 years in age. Printers: Two ink jet printers not exceeding 2 years in age and two laser printers not exceeding 6 years in age or a combination of two. Television: One television monitor with DVD / VCR player, not exceeding 8 years in age. Copy Machine: One 25 copies per minute networkable machine, not exceeding 7 years in age. Library Management Equipment: Check-out system not exceeding 4 years in age. Library Media Security Equipment: Security system not exceeding 10 years in age. LCD Projector and Camera: One projector with ceiling mount framework and document camera not exceeding 8 years in age.

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Equipment - Offices / Workrooms</b>	Computers: Staff computers not exceeding 5 years in age. Printers: Ink jet printers not exceeding 4 years in age and laser printers not exceeding 10 years in age. Copy Machines: Two 85 copies per minute machines, four 25 copies per minute machine, not exceeding 8 years in age. FAX Machine: Not exceeding 10 years in age.	Computers: Staff computers not exceeding 4 years in age. Printers: Ink jet printers not exceeding 2 years in age and laser printers not exceeding 6 years in age. Copy Machines: Two 85 copies per minute networkable machines, four 25 copies per minute networkable machines, not exceeding 7 years in age. FAX Machine: Not exceeding 6 years in age.
<b>Equipment - Science</b>	Emergency eyewash: In science classrooms. Flammable storage cabinet: In Chemical Storage room. Acid storage cabinet: In Chemical Storage room.	Emergency eyewash: In science classrooms. Emergency shower: In science prep rooms. Evacuation exhaust fan: In science classrooms with manual control. Fume hood: In science classrooms used for Chemistry and in one science prep room adjacent to Chemistry classroom. Dishwasher: In science prep rooms. Flammable storage cabinet: In chemical storage room. Acid storage cabinet: In chemical storage room.
<b>Equipment - Support Spaces</b>	Type: As needed to accommodate the support area activities. Quantity: As needed to accommodate the support area activities.	Type: As needed to accommodate the support area activities. Quantity: As needed to accommodate the support area activities.
<b>Equipment - Training Room</b>	Therapy Equipment: Exercise equipment for injury therapy. Tables: 4 tables for treatment and taping. Whirlpool: 1 whirlpool bath with hot and cold water. Ice Machine: Large capacity.	Therapy Equipment: Exercise equipment for injury therapy. Tables: 8 tables for treatment and taping. Whirlpool: 2 whirlpool baths with hot and cold water. Ice Machine: Large capacity.
<b>Equipment - Weight Room</b>	Drinking Fountain: Standard non-refrigerated unit. Fitness Machines: As needed for PE and athletic programs. Free Weights: As needed for PE and athletic programs.	Drinking Fountain: Standard non-refrigerated unit, ADA accessible. Fitness Machines: As needed for PE and athletic programs. Free Weights: As needed for PE and athletic programs. Sound System: Built-in speakers connected to portable amplifier with tuner and CD player in lockable cabinet.
<b>Furniture - Classrooms</b>	Student Chairs: Hard plastic not exceeding 30 years in age. Staff Chairs: Upholstered not exceeding 15 years in age. Student Combo-desks: Hard plastic not exceeding 30 years in age. Teacher Desks: Plastic laminate surfaced not exceeding 30 years in age. Tables: Plastic laminate surfaced not exceeding 30 years in age.	Student Chairs: Hard plastic not exceeding 20 years in age. Staff Chairs: Upholstered not exceeding 10 years in age. Student Combo-desks: Hard plastic not exceeding 20 years in age. Teacher Desks: Plastic laminate surfaced not exceeding 20 years in age. Tables: Plastic laminate surfaced not exceeding 20 years in age.
<b>Furniture - Library</b>	Student Chairs: Hard plastic not exceeding 30 years in age. Upholstered seating not exceeding 15 years in age. Staff Chairs: Upholstered not exceeding 20 years in age. Teacher Desks: Plastic laminate surfaced not exceeding 30 years in age. Tables: Plastic laminate surfaced not exceeding 30 years in age.	Student Chairs: Hard plastic not exceeding 20 years in age. Upholstered seating not exceeding 10 years in age. Staff Chairs: Upholstered not exceeding 15 years in age. Teacher Desks: Plastic laminate surfaced not exceeding 20 years in age. Tables: Plastic laminate surfaced not exceeding 20 years in age.

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Furniture - Offices / Workrooms</b>	Staff Chairs: Upholstered not exceeding 15 years in age and hard plastic chairs not exceeding 30 years in age. Teacher Desks: Plastic laminate surfaced not exceeding 30 years in age. Tables: Plastic laminate surfaced not exceeding 30 years in age. File Cabinets: Metal not exceeding 40 years in age.	Staff Chairs: Upholstered not exceeding 10 years in age and hard plastic chairs not exceeding 20 years in age. Teacher Desks: Plastic laminate surfaced not exceeding 20 years in age. Tables: Plastic laminate surfaced not exceeding 20 years in age. File Cabinets: Metal not exceeding 30 years in age.
<b>Furniture - Support Spaces</b>	Type: As needed to accommodate the support area activities. Quantity: As needed to accommodate the support area activities.	Type: As needed to accommodate the support area activities. Quantity: As needed to accommodate the support area activities.
<b>Artwork</b>	School provided: Temporary artwork displays subject to approval by principal. Permanent artwork approved by school principal. Washington State art collection: Protected against damage in a reasonable manner and secured in place to protect against unauthorized removal.	School provided: Temporary artwork displays subject to approval by principal and protected as appropriate. Permanent artwork approved by school principal and secured in place to protect against unauthorized removal. Washington State art collection: Protected against damage in a reasonable manner and secured in place to protect against unauthorized removal.
<b>Elevator</b>	Type: Hydraulic with acoustically isolated equipment room. Size: 80" W x 65" D interior cab size.	Type: Hydraulic with acoustically isolated equipment room. Size: 92" W x 65" D interior cab size.
<b>Vending Machines</b>	Type: Refrigerated and non-refrigerated machines with motion sensitive illumination control. Quantity: 10 machines. Location: One at Gym area, 1 at Fieldhouse, 2 at Staff Lounge and 6 near but not in Commons.	Type: Refrigerated and non-refrigerated machines with motion sensitive illumination control. Quantity: 14 machines. Location: 2 at Gym area, 2 at Fieldhouse, 2 at Staff Lounge, and 8 near but not in Commons with doors or gate to close access to machines in Commons.
<b>Wheelchair Lift</b>	Type: ADA compliant with key access controls. Location: Where needed for ADA compliance. Size: 36" W x 48" D platform space.	Type: ADA compliant with controls keyed to the building master key system. Location: Where required for ADA compliance and integrated with building architecture. Size: 36" W x 48" D platform space.
<b>MECHANICAL</b>		
<b>Fire Suppression System</b>	Fire sprinkler system: Wet or dry system in compliance with NFPA 13, and local building codes. Fire suppression: Fire suppression system at Kitchen exhaust hood.	Fire sprinkler system: Wet system in compliance with NFPA 13, local building codes and FM Global Data Sheets 2-8 and 3-6. Fire suppression: Wet agent fire suppression system at Kitchen exhaust hood.
<b>Plumbing Insulation</b>	Type: Insulation in compliance with building code at time of construction on domestic hot water lines.	Type: Insulation in compliance with current building code on domestic hot water lines and 1/2" insulation on domestic cold water lines.
<b>Domestic Water System</b>	Piping: Type L copper. Pumps: Bronze fitted pumps. Heating: Gas or electric heaters.	Piping: Type L copper. Pumps: All bronze pumps with isolation valves at both sides of pumps. Heating: Gas heaters.
<b>Domestic Water Quality</b>	Criteria: A maximum level of .015 mg/L (15ppb) of lead and 1.3 mg/L (1300 ppb) of copper in tap water.	Criteria: A maximum level of .015 mg/L (15ppb) of lead and 1.3 mg/L (1300 ppb) of copper in tap water.
<b>Soil and Waste</b>	Type: Cast iron pipe and fittings.	Type: Cast iron pipe and fittings.

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Plumbing Fixtures</b>	Water closets: Vitreous china. Urinals: Vitreous china. Lavatories: Vitreous china wall-hung sinks and stainless steel counter-mounted sinks. Drinking fountains: Vitreous china or stainless steel. Trap primers: None.	Water closets: ADA compliant, wall-hung vitreous china with water saving valves . Urinals: ADA compliant, wall-hung vitreous china with water saving valves. Lavatories: ADA compliant, vitreous china wall-hung sinks and stainless steel counter-mounted sinks with self-closing faucets. Drinking fountains: ADA compliant, stainless steel. Trap primers: Electronic trap primers with manual override.
<b>Compressed Air</b>	Black steel or copper.	Black steel or copper.
<b>Natural Gas Piping</b>	Type: Black steel, Schedule 40 pipe with butt-weld fittings.	Type: Black steel, Schedule 40 pipe with butt-weld fittings.
<b>Chemical Waste</b>	Type: Cast iron pipe and fittings.	Type: Acid resistant poly-propylene pipe and fittings with fusion joints and acid neutralization tank. Location: Acid resistant pipe from science room sinks and drains to acid neutralization tank. Tank located at building exterior in non-traffic location but accessible by maintenance vehicles.
<b>HVAC Duct Insulation</b>	Type: In compliance with building code at time of construction.	Type: In compliance with current building code.
<b>HVAC Pipe Insulation</b>	Type: In compliance with building code at time of construction.	Type: In compliance with current building code.
<b>Hydronic Piping</b>	Type: Type L copper or Schedule 40 black steel.	Type: Type L copper at piping below 2" diameter. Schedule 40 black steel at 2" diameter piping and above with welded or rolled grooved Victualic fittings.
<b>Hydronic Pumps</b>	Type: Vertical in-line or base mounted end-suction pumps.	Type: Vertical in-line or base mounted end-suction pumps with redundant pumps for back-up.
<b>Refrigerant Piping</b>	Type: Type L hard drawn copper tube, refrigeration grade.	Type: Type L hard drawn copper tube, refrigeration grade.
<b>HVAC Ductwork</b>	Metal ducts: Galvanized sheet metal. Non-metal ducts: Insulated, reinforced flexible duct with vapor barrier jacket.	Metal ducts: Galvanized sheet metal per SMACNA Standards with welded stainless steel at Kitchen exhaust hoods. Non-metal ducts: Insulated, reinforced flexible duct with vapor barrier jacket allowed at locations approved by school district.
<b>HVAC Fans</b>	Type: Forward curved or backward inclined units with 1" filters, non-asbestos flexible connections, standard motors, and belt guards.	Type: Forward curved or backward inclined units with neoprene flexible connections, high efficiency motors, belt guards, minimum two rows of coils, drain valves, and 2" filters contained in factory-built filter rack.
<b>Heating / Ventilation System - Classrooms</b>	Type: Individual temperature control and minimum 450 CFM outside air supply in each classroom.	Type: Individual temperature control, minimum 450 CFM outside air supply, and off-hour override switch in each classroom
<b>Heating / Ventilation System - Gymnasiums</b>	Type: Individual temperature control and minimum 5% outside air supply.	Type: Individual temperature control, minimum 5% outside air supply, CO2 sensor for ventilation control, and manual bypass timer in Maintenance Office.
<b>Heating / Ventilation System - Library</b>	Type: Individual temperature control and minimum 15% outside air supply.	Type: Individual temperature control, minimum 15% outside air supply, mechanical cooling, and manual bypass timer in Maintenance Office.

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Heating / Ventilation System - Offices</b>	Type: Temperature control shared by common areas, and minimum 15% outside air supply.	Type: Temperature control shared by common offices, minimum 20% outside air supply, and mechanical cooling in main office areas used during summer months.
<b>Heating / Ventilation System - Workrooms</b>	Type: Individual temperature control and high capacity ventilation system where high volume photocopy machines are used.	Type: Individual temperature control and independent high capacity ventilation system where high volume photocopy machines are used.
<b>Heating / Ventilation System - Support Spaces</b>	Type: Heating and ventilation systems capable of maintaining comfortable temperature range and ventilation.	Type: Heating and ventilation systems capable of maintaining comfortable temperature range and provide ventilation supply in compliance with current codes.
<b>Sawdust Collection</b>	Type: Non-recirculating dust collector equipment, ductwork and clean outs in compliance with building code at time of construction with blast gates and spark detection. Location: Connected to sawdust producing equipment in wood shop areas.	Type: Non-recirculating dust collector equipment, ductwork and clean outs in compliance with current building code with blast gates and spark detection. Location: Connected to sawdust producing equipment in wood shop areas.
<b>Air Terminal Units</b>	Type: Steel or aluminum units.	Type: Steel or aluminum units with bird screens at intakes. Heavy-duty units at Gymnasiums and multipurpose rooms.
<b>Ventilation Hoods</b>	Kiln room: Galvanized sheet metal canopy hood above kiln. Kitchen: Welded stainless steel filter hood above cooking equipment. Welding area: Galvanized sheet metal canopy hood above solder and welding areas.	Kiln room: Down draft hood at each kiln. Kitchen: Welded stainless steel extracting hood with filters above cooking equipment. Welding area: Galvanized sheet metal back hood at solder and welding areas.
<b>Fume Hoods</b>	Type: Built-in unit with internal fan.	Type: Built-in unit with sink, gooseneck faucet, gas cock, electrical receptacle, external fan, and acid storage base cabinet.
<b>Boilers</b>	Type: Single gas fired hot water or steam boiler.	Type: Dual hot water, gas-fired, fire-tube, minimum 82% efficient, steel boilers each sized for 66% of load.
<b>Furnaces</b>	Type: Gas fired with 80% efficiency.	Type: Gas fired with minimum 80% efficiency.
<b>Heat Exchangers</b>	Type: Plate-type with 50% efficiency.	Type: Plate-type with 66% efficiency.
<b>Refrigerant Compressors and Condensers</b>	Type: Air cooled units. Location: Single unit per system.	Type: Air cooled units. Location: Single unit serving multiple systems.
<b>Water Chillers</b>	Type: Air cooled with dual compressors.	Type: Dual air cooled units with minimum of 2 compressors each and sound attenuation treatment.
<b>Exhaust Fans</b>	Type: Steel utility or aluminum dome type. Location: Easily accessible for maintenance.	Type: Steel utility or aluminum dome type. Location: Non-kitchen exhaust fans located in catwalk or mechanical attic area, not on roof. Kitchen exhaust fans located platform on roof with adjacent roof hatch plus walking platform where roof slope exceeds 3:12 slope.
<b>Heat Pumps</b>	Type: Air cooled units. Location: One unit per zone.	Type: Air cooled units with automatic compressor lock out. Location: One unit per zone.
<b>Fan Coil Units</b>	Type: Units with steel housing, minimal filters, and no outside air.	Type: Units with steel housing, 1" filters, and damper controlled outside air .

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Unit Ventilators</b>	Type: Units with heavy-duty steel housing and capacity based on code required CFM.	Type: Units with heavy-duty steel housing, capacity based upon code required CFM, factory installed access panels and filter racks, and NC-35 sound rating.
<b>Unit Heaters</b>	Type: Propeller type gas or hot water units.	Type: Propeller type gas or hot water units.
<b>Automatic Controls</b>	Type: Direct digital control system with individual zone control and thermostat for each instructional space and office area, Local Operator's Station at building's Maintenance Office, and connected to Central Operator's Station at Support Services Center.	Type: Direct digital control system with BACnet automation system, individual zone control and thermostat for each instructional space and office area, Dynamic Data exchange, Local Operator's Station at building Maintenance Office, and connected to Central Operator's Station at Support Services Center.
<b>ELECTRICAL</b>		
<b>Transformers</b>	Type: Dry type with capacity for calculated load.	Type: Low noise, dry type with capacity for calculated load plus 20%.
<b>Switchgear</b>	Type: Fuse or circuit breaker type with capacity for calculated load.	Type: Fuse or circuit breaker type with capacity for calculated load plus 15% and includes 15% spares.
<b>Panelboards</b>	Type: Circuit breaker type.	Type: Circuit breaker type with 15% spares.
<b>Power Distribution</b>	Type: Copper for #1 wire or less. Copper or aluminum for wire greater than #1.	Type: Copper wire.
<b>Power Conditioning</b>	None.	Type: Transient voltage surge suppressors. Location: At panelboards for protection of lighting, receptacles and computers.
<b>Wiring Devices</b>	Type: 15 or 20 amp.	Type: 20 amp.
<b>Electrical Outlets - General Classrooms</b>	Quantity: Three duplex electrical receptacles for student computers, one at teacher's work station, plus one at each wall per classroom.	Quantity: Six duplex electrical receptacles for student computers, two at teacher's work station, one in floor box at front of classroom, one at ceiling for projector, plus two at each wall per classroom.
<b>Electrical Outlets - Specialty Classrooms</b>	Quantity: One duplex electrical receptacles for each of two student computer stations, one at teacher's work station, plus one at each wall per classroom.	Quantity: One duplex electrical receptacles for each student computer station, two at teacher's work station, one in floor box at front of classroom, one at ceiling for projector, plus two at each wall per classroom.
<b>Electrical Outlets - Library</b>	Quantity: One duplex electrical receptacle for each of two student computer stations, one at check-out station, plus one at each wall.	Quantity: One duplex electrical receptacle for each student computer station, two at check-out station, one in floor box at instructional area, one at ceiling for projector, plus two at each wall.
<b>Electrical Outlets - Offices / Workrooms</b>	Quantity: One duplex electrical receptacle for each staff workstation, one for each copy and fax machine, plus one at each wall.	Quantity: Two duplex electrical receptacles for each staff workstation, one for each copy and fax machine, plus one at each wall.
<b>Electrical Outlets - Support Spaces</b>	Quantity: One duplex electrical receptacle for each electrical equipment item, one at every 80' on center in corridors, plus one at each wall.	Quantity: One duplex electrical receptacles for each electrical equipment item, one at every 50' on center in corridors, plus one at each wall.
<b>Electrical Outlets - Emergency Power</b>	None.	Quantity: Duplex electrical receptacles connected to emergency generator at MC Room, HC Rooms, Main Mechanical Room, Maintenance Office, Principal's Office, Assistant Principal's Office, Main Office area, mechanical catwalks and attic spaces.



# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Circuit Protection Devices</b>	Type: Circuit breakers with fuses at selected equipment.	Type: Circuit breakers with fuses at selected equipment.
<b>Packaged Generator</b>	Type: Diesel-fired with belly or above ground tank and minimum 48-hour operation capability with capacity to operate emergency lighting, fire alarm system, telephone, intercom, telecommunications equipment, and selected electrical outlets.	Type: Diesel-fired with belly tank and minimum 48-hour operation capability with capacity to operate emergency lighting, stand-by lighting, fire alarm system, telephone, intercom, telecommunications equipment, and selected electrical outlets plus 10% additional capacity.
<b>Battery Equipment</b>	Type: Uninterrupted power supply for intercom, telephone, and energy management systems. Back-up battery for fire alarm system.	Type: Uninterrupted power supply for intercom, telephone, and energy management systems. Back-up battery for fire alarm system.
<b>Lighting - Exterior - Baseball / Softball Fields</b>	None.	Type: Pole mounted fixtures with 30.0 foot-candle average controlled by manual switch and timer with EMS override. Location: At artificial turf baseball and softball fields.
<b>Lighting - Exterior - Bus Loading</b>	Type: Pole or building mounted fixtures with 5.0 foot-candle level controlled by photocell and EMS. Location: Between building and bus loading area.	Type: Pole or building mounted fixtures with 5.0 foot-candle level controlled by photocell and EMS. Location: Between building and bus loading area.
<b>Lighting - Exterior - Football / Soccer Fields</b>	Type: Pole mounted fixtures with 30.0 foot-candle average controlled by manual switch and timer with EMS override. Location: At artificial turf football / soccer field.	Type: Pole mounted fixtures with 30.0 foot-candle minimum controlled by manual switch and timer with EMS override. Location: At artificial turf football / soccer field.
<b>Lighting - Exterior - Main Entry</b>	Type: Pole or building mounted fixtures with 5.0 foot-candle level controlled by photocell and EMS. Location: At front entrance between building and entry drive.	Type: Pole or building mounted fixtures with 8.0 foot-candle level controlled by photocell and EMS. Location: At front entrance between building and entry drive.
<b>Lighting - Exterior - Parking</b>	Type: Pole mounted fixtures with 0.8 foot-candle level controlled by photocell and EMS. Location: At parking lots.	Type: Pole mounted fixtures with 1.0 foot-candle level controlled by photocell and EMS. Location: At parking lots.
<b>Lighting - Exterior - Pathways</b>	Type: Pole or building mounted fixtures with 1.0 foot-candle level controlled by photocell and EMS. Location: At pathways around building and between building and parking areas.	Type: Pole or building mounted fixtures with 1.5 foot-candle level controlled by photocell and EMS. Location: At pathways around building and between building and parking areas.
<b>Lighting - Exterior - Service / Delivery</b>	Type: Pole or building mounted fixtures with 3.0 foot-candle level controlled by photocell and EMS with manual bypass timer. Location: At area between building and dumpsters.	Type: Pole or building mounted fixtures with 5.0 foot-candle level controlled by photocell and EMS with manual bypass timer. Location: At area between building and dumpsters.
<b>Lighting - Exterior - Tennis Courts</b>	Type: Pole mounted fixtures with 20.0 foot-candle average controlled by manual switch and timer with EMS and photocell override. Location: On two courts.	Type: Pole mounted fixtures with 30.0 foot-candle average controlled by manual switch and timer with EMS and photocell override. Location: On three courts.
<b>Lighting - Classrooms</b>	Type: Fluorescent fixtures with a minimum of 50 foot-candle level and maximum of 1.3 watts per SF.	Type: T-8 or T-5 fluorescent fixtures with parabolic louvers to control screen glare, minimum 50 foot-candle level and a maximum of 1.1 watts per SF.
<b>Lighting - Corridors</b>	Type: Fluorescent fixtures with a minimum 15 foot-candle level and a maximum of 0.8 watts per SF.	Type: T-8, T-5 and compact fluorescent fixtures with a minimum 15 foot-candle level and a maximum of 0.6 watts per SF.

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Lighting - Emergency</b>	Interior Pathways: An average of 1 foot-candle level at floor level at all paths of egress with a minimum of 0.3 foot-candle level at the center of paths of egress.	Interior Pathways: An average of 1 foot-candle level at floor level at all paths of egress with a minimum of 0.3 foot-candle level at the center of paths of egress. Standby Lighting: One standby light fixture connected to emergency generator in each classroom, office, restroom and mechanical equipment space.
<b>Lighting - Gymnasiums</b>	Type: Fluorescent or metal halide fixtures with a minimum 30 foot-candle level and a maximum of 1.3 watts per SF.	Type: Metal halide fixtures, pendant and hook mounted with instant restart at emergency fixtures with a minimum 30 foot-candle level and a maximum of 1.2 watts per SF.
<b>Lighting - Kitchen</b>	Type: Fluorescent fixtures with a minimum 50 foot-candle level and a maximum of 1.5 watts per SF.	Type: T-8 or T-5 fluorescent fixtures with a minimum 50 foot-candle level and a maximum of 1.3 watts per SF.
<b>Lighting - Library</b>	Type: Fluorescent fixtures with a minimum 50 foot-candle level and a maximum of 1.3 watts per SF.	Type: T-8 or T-5 fluorescent fixtures with parabolic louvers to control screen glare with a minimum 50 foot-candle level and a maximum of 1.1 watts per SF.
<b>Lighting - Restrooms</b>	Type: Fluorescent fixtures with a minimum 20 foot-candle level and a maximum of 1.1 watts per SF.	Type: T-8, T-5 and compact fluorescent fixtures with a minimum 20 foot-candle level and a maximum of 0.8 watts per SF.
<b>Lighting - Support Spaces</b>	Type: Fluorescent fixtures with a minimum 50 foot-candle level and a maximum of 1.3 watts per SF.	Type: T-8 or T-5 fluorescent fixtures with parabolic louvers to control screen glare with a minimum 50 foot-candle level and a maximum of 1.1 watts per SF.
<b>Lighting - Theater</b>	Type: Full stage and house lighting system and controls including auxiliary control equipment, fixtures, wiring devices and switchgear.	Type: Full stage and house lighting system and controls including auxiliary control equipment, fixtures, wiring devices and switchgear.
<b>Automatic Lighting Control</b>	Exterior lighting: Time clock and photocell control.	Exterior lighting: EMS and photocell control with separate zones. Interior lighting: Occupancy sensors in classrooms and corridors.
<b>Exit Signs</b>	Type: In compliance with building code at time of construction.	Type: In compliance with current building code and connected to emergency generator.
<b>Data Communications Cabling</b>	Backbone: Optical fiber between MC and HC locations. Wiring: Category 3 cable between computer equipment and MC or HC.	Backbone: 6 pair multimode optical fiber between MC and HC locations. Wiring: Category 5e below grade and Category 6 above grade between computer equipment and MC or HC.
<b>Data Communications Equipment</b>	Filter: Granular grade-level appropriate web content filtering. Router: 10 Mb WAN connectivity. Routing: Layer 3 capability in core switch at MC. Switch: 10 /100 / 1000 host capability. Traffic shaping: Site-based capability. WAN connectivity speed: 10 Mb. UPS: For routers, switches, and servers providing a minimum of 5 minutes of uninterrupted power.	Filter: Granular grade-level appropriate web content filtering. Router: 100 Mb WAN connectivity. Routing: Layer 3 capability in core switch at MC. Switch: 10 /100 / 1000 host capability. Traffic shaping: Site-based capability. WAN connectivity speed: 1,000 Mb. UPS: For routers, switches, and servers providing a minimum of 10 minutes of uninterrupted power.
<b>Data Communications Outlets - General Classrooms</b>	Quantity: Six data outlets for student computers plus one at teacher's work station per classroom.	Quantity: Six data outlets for student computers, two at teacher's work station, and one in floor box at front of classroom per classroom.
<b>Data Communications Outlets - Specialty Classrooms</b>	Quantity: One data outlets for each student computer station plus one at teacher's work station per classroom.	Quantity: One data outlet for each student computer station, two at teacher's work station, and one in floor box at front of classroom per classroom.

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Data Communications Outlets - Commons</b>	None.	Quantity: Eight data outlets at perimeter walls located to accommodate special events and registration activities.
<b>Data Communications Outlets - Library</b>	Quantity: One data outlet for each student computer station and one at check-out station.	Quantity: One data outlet for each student computer station, two at check-out station, and one in floor box at instructional area.
<b>Data Communications Outlets - Offices / Workrooms</b>	Quantity: One data outlet for each staff workstation and one for each printer.	Quantity: Two data outlets for each staff workstation, one for each remote printer, and one for each networked copy machine.
<b>Data Communications Outlets - Theater</b>	None.	Quantity: One data outlet at front of Stage, one at Control Booth, and one at sound board station is seating area.
<b>Data Communications Outlets - Support Spaces</b>	Quantity: One data receptacle for each computer station and one for each printer located within the space.	Quantity: One data receptacle for each computer station and one for each printer located within the space.
<b>Wireless Data Communications</b>	None.	Type: Power and data outlets for secure wireless access using school district computers in Library, Commons, Main Office, Gymnasium, and each classroom wing.
<b>Telephone / Intercom / Clock System</b>	<p>Communication system: Rauland Telecenter integrated communications system for telephones, voice mail, intercom, clock, class change tones and Enhanced 911.</p> <p>Clocks: Master clock with analog secondary clocks.</p> <p>Intercom: Voice controlled amplifiers with two-way loud speaking and handsets in all occupied spaces except call button in Gymnasium.</p> <p>Telephones: Digital PBX central exchange, voice mail system.</p>	<p>Communication system: Rauland Telecenter ISC integrated communications system for telephones, voice mail, intercom, clock, class change tones and Enhanced 911.</p> <p>Clocks: Rauland master clock. Analog secondary clocks in corridors, Gymnasium and commons. Digital secondary clocks in classrooms, office and support spaces.</p> <p>Intercom: Voice controlled amplifiers with two-way loud speaking and handsets in all occupied spaces except call button in Gymnasium.</p> <p>Telephones: Digital PBX central exchange, voice mail system.</p>
<b>Telephone Handsets</b>	<p>Single-line handset: Classrooms, conference rooms, Kitchen, Library, offices (unless otherwise noted), staff lounge, staff workroom.</p> <p>Multi-line handset: Assistant Principals, Attendance and Counseling aides / secretaries, Health, Main office aides / secretaries, Main office workroom, Registrar, Principal.</p> <p>Multi-line handset with station console: Office manager.</p>	<p>Single-line handset: Classrooms, conference rooms, Kitchen, Library, offices (unless otherwise noted), staff lounge, staff workroom.</p> <p>Multi-line handset: Assistant Principals, Attendance and Counseling aides / secretaries, Counselors, Dean of Students, Health, Main office aides, Main office workroom, Registrar, Principal, Security office.</p> <p>Multi-line handset with station console: Office manager and Main office secretary.</p>
<b>Sound System - Stadium</b>	<p>Type: Outdoor stadium public address system with exterior loudspeakers mounted to light poles, microphone outlet at bleacher area, and wall mounted equipment rack located in custodial room with mixer, amplifier, cassette deck and compact disc player.</p> <p>Location: Loud speakers at synthetic turf football / soccer field.</p>	<p>Type: Outdoor stadium public address system with exterior loudspeakers mounted to light poles, microphone outlet at bleacher area, and wall mounted equipment rack located in custodial room with mixer, amplifier, cassette deck and compact disc player.</p> <p>Location: Loud speakers at synthetic turf football / soccer field.</p>

# COMPREHENSIVE HIGH SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Sound System - Main Building</b>	<p>Commons: Public address and stereo music playback system with built-in equipment rack, speakers and microphone outlets.</p> <p>Gymnasium: Public address and stereo music playback system with built-in equipment rack, speakers and microphone outlets.</p>	<p>Commons: Digital audio public address and stereo music playback system with built-in equipment rack, speakers, wireless microphone system, microphone outlets, and assistive listening system.</p> <p>Gymnasium: Digital audio public address and stereo music playback system with built-in equipment rack, speakers with protective cage, wireless microphone system, microphone outlets, and assistive listening system.</p>
<b>Television System</b>	<p>Classrooms: One cable TV outlet in each room.</p> <p>Library office: Television head-end equipment and cable TV outlet.</p> <p>Library: One cable TV outlet.</p>	<p>Classrooms: One cable TV outlet in each room.</p> <p>Library office: Television head-end equipment and cable TV outlet.</p> <p>Conference rooms and Group Study: One cable TV outlet in each room.</p> <p>Library: Two cable TV outlets.</p>
<b>Audio - Video System</b>	None.	<p>General Classrooms: One ceiling mounted video projector outlet connected to outlet in floor box at front of each general classroom.</p> <p>Specialty classrooms: One video projector outlet connected to outlet in wall or floor box at front of each specialty classroom.</p> <p>Commons: One video projector outlet connected to outlet at wall.</p> <p>Library: Two ceiling mounted video projector outlets connected to outlet in floor boxes at front of Library instructional areas.</p> <p>Theater: One video projector outlet located for projection on screen at stage.</p> <p>Large Conference rooms: One ceiling mounted video projector outlet connected to outlet at wall.</p>
<b>Intrusion Detection</b>	<p>Type: Multi-zone system with NAPCO control panel, keypad activation device, and passive infrared motion detectors.</p> <p>Location: Control panel in office area, keypad at front entry door. Detection devices in administration area, library, science rooms, construction / manufacturing, electronics, drafting, music rooms, computer rooms, and corridors.</p>	<p>Type: Multi-zone system with NAPCO control panel, keypad activation device, and passive infrared motion detectors.</p> <p>Location: Control panel in Maintenance office, keypad at main entry doors. Detection devices in administration area, library, science rooms, construction / manufacturing, electronics, drafting, music rooms, computer rooms, corridors, and portable classrooms.</p>
<b>Video Surveillance</b>	None.	<p>Type: Surveillance camera system for monitoring of school grounds with surveillance system computer in Security office and monitoring stations at Principal, Assistant Principals, Activities Director, Athletic Director, and Dean of Students offices. Excess capacity in cable trays above corridor ceilings and in catwalk areas for future surveillance system cabling within building.</p> <p>Location: Surveillance cameras at site entry / exit driveways, parking lots, bus loading area, front of school, courtyards, and Field House area.</p>
<b>Fire Detection and Alarm</b>	<p>Type: Automatic addressable alarm and detection system in compliance with building code at time of construction. Plastic guards with local alarm at pull stations.</p> <p>Location: Detection and alarm devices located in compliance with building code at time of construction and annunciator at front entry.</p>	<p>Type: Automatic addressable alarm and detection system in compliance with current building code. Plastic guards with local alarm at pull stations.</p> <p>Location: Detection and alarm devices located in compliance with current building code, control panel and printer in Maintenance Office, graphic annunciator at front entry, and LCD annunciator with controls at Main Office.</p>

# WEST AUBURN HIGH SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>SITE AREAS</b>		
<b>Parking and Access - Buses</b>	Quantity: 2 stalls, 12' wide. Type: Asphalt, 20-year life. Location: Bus loading zone close to a building entrance.	Quantity: 3 stalls, 16' wide. Type: Asphalt, 30-year life. Location: Bus loading zone close to a building entrance at a main corridor and separated from visitor and student parking.
<b>Parking and Access - Service / Delivery</b>	Quantity: 1 delivery vehicle stall, 12' wide. 1 maintenance vehicle stall, 10' wide. Type: Asphalt, 20-year life. Location: Delivery stall adjacent to building entrance. Maintenance stall adjacent to building.	Quantity: 1 delivery stall, 14' wide. 1 maintenance vehicle stall, 12' wide. Type: Asphalt, 30-year life. Location: Delivery stall adjacent to building entrance. Maintenance stall close to Mechanical Room.
<b>Parking and Access - Staff</b>	Quantity: 25 stalls, 8'-6" wide. Type: Asphalt, 20-year life. Location: Close to building.	Quantity: 30 stalls, 9' wide. Type: Asphalt, 30-year life. Location: Close to building.
<b>Parking and Access - Students</b>	Quantity: 25 stalls, 8'-6" wide. Type: Asphalt, 20-year life. Location: Separate from visitor parking and buses.	Quantity: 50 stalls, 9' wide. Type: Asphalt, 30-year life. Location: Separate from visitor parking and buses.
<b>Parking and Access - Visitors</b>	Quantity: 2 stalls, 8'-6" wide. Type: Asphalt, 20-year life. Location: At front of building and separated from buses and student parking.	Quantity: 4 stalls, 9' wide. Type: Asphalt, 30-year life. Location: At front of building and separated from buses and student parking.
<b>Student Drop Off - Pick Up</b>	None.	Quantity: 6 parallel parking stalls. Type: Asphalt, 30-year life. Location: Adjacent to sidewalk at front of building.
<b>Street Frontage Sidewalks</b>	Type: 5' wide with ADA compliant curb cuts, asphalt.	Type: 6' wide with ADA compliant curb cuts, concrete.
<b>On-Site Walkways</b>	Type: 5' wide with ADA compliant curb cuts, asphalt.	Type: 6' wide with ADA compliant curb cuts, concrete.
<b>Stairs and Ramps</b>	Type: 5' wide, ADA compliant, concrete.	Type: 6' wide, ADA compliant, concrete with abrasive stair nosings at stairs and detectible warning pattern at ramps.
<b>Exterior Courtyard</b>	Type: Concrete or brick pavers hard surface plus lawn area. Location: Adjacent to building entrance at a main corridor. Size: 2,000 SF of hard surface.	Type: Concrete or brick pavers hard surface plus lawn area. Location: Adjacent to Commons. Size: 3,000 SF of hard surface.
<b>Hard Surface Play Areas</b>	None.	Quantity: 1 basketball court. Type: Asphalt. Location: Close to courtyard.
<b>Lawns</b>	Type: Irrigated grass turf. Location: At front of building, street frontage, and adjacent to landscape areas where suitable.	Type: Irrigated grass turf with concrete mow strip around posts and hydrants and where grass is adjacent to building. Location: At front of building, street frontage, and adjacent to landscape areas where suitable.
<b>Grass Athletic Fields</b>	Quantity: One combination softball field and soccer field. Type: Grass turf with automated irrigation system. Location: Close to locker rooms.	Quantity: One softball field and one soccer field. Type: Grass turf with subdrain system, sand topsoil mix and automated irrigation system. Location: Close to locker rooms and parking.

# WEST AUBURN HIGH SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Dumpster Area</b>	Type: Designated area to accommodate one 8 YD garbage dumpster and one 8 YD recycle dumpster. Location: Close to exterior door with direct access for refuse trucks.	Type: Designated area to accommodate one 8 YD garbage dumpster and one 8 YD recycle dumpster with masonry screen walls on three sides. Location: Centrally located and close to exterior door at a main corridor with direct access for refuse trucks.
<b>Portable Classroom Infrastructure</b>	None.	Type: Asphalt surface with underground vaults with drains to storm system and conduit for power, telephone, intercom, data, fire alarm, EMS and security systems for 2 portable classrooms. Location: Close to classroom area and building entrance. Not readily visible from street.
<b>SITE IMPROVEMENTS</b>		
<b>Fences and Gates</b>	Type: Chainlink fencing at perimeter of property, at athletic field, and adjacent to other property. 12' wide chainlink gates at all fence areas for direct vehicle access. Height: 6' high at athletic field and perimeter of site except at front of school. 6' high at stormwater detention ponds and wetlands adjacent to play areas. 4' high stormwater detention ponds and wetlands separated from play areas.	Type: Chainlink fencing at perimeter of property, at athletic fields, and adjacent to other property. 16' wide chainlink gates at all fence areas for direct vehicle access. Ornamental metal fencing adjacent to roadways and at stormwater detention ponds and wetlands at front of school with 16' gates for vehicle access. Height: 6' high at athletic fields and perimeter of site except at front of school. 6' high at stormwater detention ponds and wetlands adjacent to play areas. 4' high stormwater detention ponds and wetlands separated from play areas.
<b>Backstop Fencing</b>	Softball field: 16' high chainlink with wood timbers behind home plate. Increase height or add overhang if needed for foul ball containment close to parking areas and roads.	Softball field: 20' high chainlink with wood timbers behind home plate. Increase height or add overhang if needed for foul ball containment close to parking areas and roads.
<b>Pipe Rail Gates and Railings</b>	None.	Gates: 12' wide made from galvanized steel pipe with padlock hardware and reflective warning tape. Located at driveway access to staff and student parking lots. Railings: Made from galvanized steel pipe, ADA compliant.
<b>Retaining Walls</b>	Type: Concrete, segmental block or rockery.	Type: Concrete, segmental block or rockery.
<b>Bicycle Racks</b>	Quantity: Racks for 8 bikes. Type: Galvanized metal. Location: At courtyard area or near front entrance.	Quantity: Racks for 12 bikes. Type: Galvanized "ribbon" metal. Location: At courtyard area or front entrance.
<b>Dumpsters</b>	Quantity: One 8 YD garbage dumpster and one 8 YD recycle dumpster. Location: At dumpster area at parking lot.	Quantity: One 8 YD garbage dumpster and one 8 YD recycle dumpster. Location: At dumpster enclosure at service drive.
<b>Exterior Benches</b>	Quantity: 2 at front of school. Type: Durable non-wood material.	Quantity: 2 at front of school. 4 at courtyard. Type: Prefinished metal "ribbon" bench.
<b>Exterior Waste Receptacles</b>	Quantity: One at courtyard, one at athletic field, one at bus loading area, and one at each main entry. Type: Heavy-duty galvanized can with push door dome top.	Quantity: One at courtyard, one at each athletic field, one at bus loading area, and one at each main entry. Type: Heavy-duty galvanized can with push door dome top at exterior courtyard, bus loading, athletic fields and main entries except prefinished metal "ribbon" container with push door dome top at front entry.
<b>Flag Pole</b>	Type: 25' painted metal. Location: Front of school and accessible from hard surface.	Type: 40' spun aluminum with internal halyard. Location: Front of school and accessible from hard surface.

# WEST AUBURN HIGH SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Play Area Equipment</b>	None.	Basketball hoops: 2 heavy-duty metal backboards and hoops with nylon nets.
<b>Play Area Striping</b>	None.	Basketball court: 1 court close to courtyard.
<b>Reader Board</b>	None.	Type: Non-illuminated, 4' high x 8' wide reader board mounted on both sides of site sign with interchangeable letters and locking clear plastic cover. Location: Mounted on site sign at front of school and visible from two directions.
<b>Site Sign</b>	Type: Monument sign with school name and address. Location: At front of school.	Type: Concrete or masonry monument sign with school name and address and built-in reader board. Location: At front of school.
<b>Traffic Control Signs</b>	Type: As needed for traffic and parking control. Location: At HC parking stalls, maintenance parking stalls, delivery vehicle stalls, bus loading area, student drop off / pick up zone, and parking lot.	Type: As needed for traffic and parking control. Location: At HC parking stalls, maintenance parking stalls, delivery vehicle stalls, bus loading area, student drop off / pick up zone, parking lots, and service drive.
<b>Pavement Markings</b>	Type: Painted lines at cross walks, stop bars, traffic arrows, parking stalls, HC parking symbols, and fire lanes. Location: At bus loading area, drop off / pick up zone, parking lots.	Type: Painted lines at parking stalls, HC parking symbols, and fire lanes. Thermoplastic markings at cross walks, stop bars, traffic arrows and numbers at bus stalls. Location: At bus loading area, drop off / pick up zone, parking lots, and service drive.
<b>LANDSCAPING</b>		
<b>Shrubs / Groundcover</b>	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department with automated irrigation system. Location: At building perimeter, parking lot islands, and perimeter landscape buffers.	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department with automated irrigation system. Location: At building perimeter, parking lot islands, and perimeter landscape buffers.
<b>Trees</b>	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department. Location: At lawn areas, street frontage, parking lot islands, and perimeter landscape buffers.	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department. Location: At lawn areas, street frontage, parking lot islands, and perimeter landscape buffers.
<b>Wetlands</b>	Type: As required by ordinance with temporary irrigation system. Location: As required by ordinance.	Type: As required by ordinance with temporary irrigation system. Location: As required by ordinance.
<b>Irrigation System</b>	Type: Automated system with separate water meter. Location: At lawns, grass athletic fields, landscape areas and wetlands.	Type: Automated system controlled by EMS with separate water meter. Location: At lawns, grass athletic fields, landscape areas and wetlands.
<b>UTILITIES</b>		
<b>Water System</b>	Type: Ductile iron pipe with separate domestic and fire service systems, deduct meter for irrigation system, backflow preventor and FDC on fire system. Size: As required for flow requirements. Location: As required by local water purveyor.	Type: Ductile iron pipe with separate domestic and fire service systems, separate (non-deduct) meter for irrigation system, backflow preventor and FDC on fire system. Supplemental electronic meters for domestic and irrigation systems located in Main Mechanical Room and connected to EMS. Size: As required for flow requirements. Location: As required by local water purveyor with domestic and irrigation meters located close to building.

# WEST AUBURN HIGH SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Sanitary Sewer System</b>	Type: PVC or concrete pipe with positive slope in compliance with Dept. of Ecology "Orange Book". Size: 6" diameter side and main sewer. Location: As required by local sewer purveyor with manhole structures easily accessible for maintenance.	Type: PVC pipe with ductile iron pipe where cover is less than 24". Positive slope in compliance with Dept. of Ecology "Orange Book" and locking manhole covers. . Size: 6" diameter side and 8" diameter main sewer. Location: As required by local sewer purveyor with manhole structures easily accessible for maintenance.
<b>Storm Drainage System</b>	Type: Concrete pipe, ductile iron, PVC or corrugated polyethylene pipe. Size: 4" diameter footing and roof drains. 8" diameter site storm drains. Location: As required by local jurisdiction with drainage structures easily accessible for maintenance.	Type: PVC or corrugated polyethylene pipe with ductile iron pipe where cover is less than 24". Locking grates and Type 2 manhole structures where invert is deeper than 60". Clean outs at the base of all downspouts and at ends of roof and footing drain lines. Size: 6" diameter footing and roof drains. 8" diameter site storm drains. Location: As required by local jurisdiction with drainage structures easily accessible for maintenance.
<b>Natural Gas Service</b>	Type: Capacity as required for building gas load provided in inches or pounds. Location: Underground with gas meter adjacent to exterior wall of building.	Type: Capacity in pounds as required for building gas load with a minimum of 2 pounds and supplemental electronic meter located in Main Mechanical Room and connected to EMS. Location: Underground with gas meter adjacent to exterior wall of building.
<b>Fuel Storage Tanks</b>	Underground storage tanks: Not acceptable. Above ground storage tanks: Steel with corrosion protection and secondary containment area. Locate close to equipment receiving fuel.	Underground storage tanks: Not acceptable. Above ground storage tanks: Steel with corrosion protection and secondary containment area. Locate close to equipment receiving fuel.
<b>Electrical Service</b>	Type: As required for calculated electrical load. Location: Underground.	Type: As required for calculated electrical load plus 15% spares with fully coordinated over current protection. Location: Underground.
<b>Telephone Service</b>	Type: 8 voice grade lines comprised of 6 Centrex lines and 2 POTS lines. Size: 2" conduit. Location: Underground.	Type: 8 voice grade lines comprised of 6 Centrex line and 2 POTS lines. Size: Two 4" conduit. Location: Underground.
<b>Cable Television Service</b>	Type: Comcast Basic Cable service. Size: 2" conduit. Location: Underground.	Type: Comcast Basic Cable service. Size: Two 4" conduit. Location: Underground.
<b>Internet Connection</b>	Type: One T1 lines with a 1.544 MB bandwidth. Location: Underground.	Type: One T1 lines with a 1.544 MB bandwidth. Location: Underground with spare 4" conduit for future expansion.
<b>Energy Usage - MBTUs per SF Building Area</b>	Annual usage: .052 MBTUs per SF.	Annual usage: .044 MBTUs per SF.
<b>Water Usage - Domestic Water per SF Building Area</b>	Annual usage: Average of existing elementary school facilities.	Annual usage: Average of lowest two existing elementary school facilities.
<b>Water Usage - Irrigation Water per SF Landscape Area</b>	Annual usage: Average of existing elementary school facilities.	Annual usage: Average of lowest two existing elementary school facilities.
<b>STRUCTURE</b>		
<b>Foundation</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.



# WEST AUBURN HIGH SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Floor Structure</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>Wall Structure - Bearing</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>Wall Structure - Non Bearing</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>Roof Structure</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>BUILDING ENVELOPE</b>		
<b>Floors</b>	Ground level: Wood framing over ventilated crawl space. Upper levels: Wood framing with plywood subfloor.	Ground level: Reinforced concrete slab-on-grade with vapor retarder and capillary break. Upper level: Reinforced concrete over wood or metal decking.
<b>Exterior Wall Surface</b>	Type: Cement board siding, metal siding, precast concrete or window wall.	Type: Masonry.
<b>Exterior Wall Insulation</b>	Type: R-11.	Type: R-19 or greater if required by code.
<b>Exterior Windows</b>	Quantity: 48 SF of glazing per classroom. Type: Operable sash metal frames with dual glazing. Location: At all classrooms.	Quantity: 72 SF of glazing per classroom. Type: Operable sash prefinished aluminum frames with 1/4" dual glazing, low E coating, U-value less than 40, and integral blinds. Location: At all classrooms and offices.
<b>Exterior Doors</b>	Type: 16-gauge painted hollow metal door with hollow metal frame. Location: As required for ease of circulation and fire exiting. Size: 3' x 7' and a pair of 3' x 7' doors with removable mullion at exterior door of mechanical equipment spaces.	Type: 14-gauge hollow painted hollow metal door with hollow metal frame and U-value less than 40. Location: As required for ease of circulation and fire exiting. Size: 3' x 7' and a pair of 3' x 7' doors with removable mullion at exterior door of mechanical equipment spaces.
<b>Soffits</b>	Type: Painted wood.	Type: Painted MDO plywood or prefinished metal.
<b>Flashing</b>	Type: Painted metal.	Type: Pre-finished 24-gauge sheet metal.
<b>Trim</b>	Type: Painted wood.	Type: Pre-finished 24-gauge sheet metal.
<b>Gutters and Downspouts</b>	Gutters: Painted metal located at edge of roof. Downspouts: Painted PVC or metal.	Gutters: Pre-finished 22-gauge sheet metal field formed in continuous lengths located at edge of roof. Downspouts: Pre-finished 11-gauge sheet metal with rain diverters at roof valleys and connected to storm drainage system or rain garden.
<b>Roof Membrane</b>	Low-sloped roof: Built-up roofing with mineral cap sheet. Pitched roof: 30-year fiberglass composition shingles.	Low-sloped roof: Single-ply Hypolon membrane. Pitched roof: Pre-finished 24-gauge metal.
<b>Roof Insulation</b>	Type: R-19.	Type: R-38 or greater if required by code, installed at roof level.
<b>Roof Accessories</b>	Type: Painted metal. Location: Minimum 5' separation from roof drains, edges and valleys.	Type: Pre-finished metal with protected electrical receptacle at all mechanical equipment. Location: Minimum 10' separation from roof drains, edges and valleys.

# WEST AUBURN HIGH SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Skylights</b>	Type: Translucent glazing and 300-pound point load capacity.	Type: Translucent, dual-surface, reinforced plastic glazing with pre-finished aluminum frame and 300-pound point load capacity.
<b>Fall Arrest System</b>	Type: Fall protection roof anchors in compliance with UMC, WISHA and OSHA standards. Location: In compliance with WISHA and OSHA standards.	Type: Fall protection roof anchors and railings in compliance with UMC, WISHA and OSHA standards. Location: In compliance with UMC, WISHA and OSHA standards.
<b>Canopies / Covered Walkways</b>	Type: Metal framed with single-ply Hypolon membrane or built-up roof with mineral cap sheet. Location: At bus loading area.	Type: Metal framed with pre-finished metal roof. Location: At bus loading area and courtyard.
<b>INTERIORS</b>		
<b>Floors - Classrooms</b>	Carpet: Synthetic pile with polypropylene / vinyl backing in standard classrooms. VCT: 12" x 12" tile in specialty classrooms. Concrete: Sealed concrete in Industrial Technology.	Carpet: Synthetic pile with polypropylene / vinyl backing in standard classrooms. VCT: 12" x 12" tile in specialty classrooms. Concrete: Sealed concrete in Industrial Technology.
<b>Floors - Corridors and Stairs</b>	Carpet: Synthetic pile with polypropylene / vinyl backing at corridors. VCT: 12" x 12" tile with abrasive nosing at stair treads. Walk-off mat: Loose-laid mat with synthetic pile at exterior doors.	Carpet: Synthetic pile with polypropylene / vinyl backing at corridors. VCT: 12" x 12" tile with abrasive nosing at stair treads. Walk-off mat: Glue-down mat with synthetic pile and polypropylene / vinyl backing at exterior doors.
<b>Floors - Gymnasium</b>	Type: Seamless rubber flooring.	Type: Maple hardwood flooring on sleeper system.
<b>Floors - Library</b>	Carpet: Synthetic pile with polypropylene / vinyl backing. Walk-off mat: Loose-laid mat with synthetic pile at exterior door.	Carpet: Synthetic pile with polypropylene / vinyl backing in seating area. Walk-off mat: Glue-down mat with synthetic pile and polypropylene / vinyl backing at exterior doors.
<b>Floors - Restrooms</b>	Ceramic tile: Unglazed porcelain tile in student restrooms. Sheet vinyl: Sheet vinyl with coved base in health and staff restrooms.	Ceramic tile: Unglazed porcelain tile in student and staff restrooms. Sheet vinyl: Sheet vinyl with coved base in health restroom.
<b>Floors - Support Spaces</b>	Carpet: Synthetic pile with polypropylene / vinyl backing at office, reception areas and work rooms. VCT: 12" x 12" tile at kitchenette, storage and telecommunications rooms. Concrete: Sealed concrete at custodial, mechanical and electrical rooms. Plywood: Plywood floor deck at catwalks and mechanical attics in wood frame buildings.	Carpet: Synthetic pile with polypropylene / vinyl backing at office, reception areas and work rooms. VCT: 12" x 12" tile at storage and telecommunications rooms. Sheet vinyl: Vinyl sheet flooring at kitchenette and custodial rooms. Concrete: Sealed concrete at mechanical and electrical rooms, and at catwalks and mechanical attics in metal frame buildings. Plywood: Plywood floor deck at catwalks and mechanical attics in wood frame buildings.
<b>Walls - Classrooms</b>	Type: Painted gypsum wallboard.	Type: Painted gypsum wallboard.
<b>Walls - Corridors and Stairs</b>	Gypsum wallboard: Painted wallboard at corridors, stairs and entry areas.	Gypsum wallboard: Painted wallboard above wainscot in corridors, stairs, and entry areas. Wainscot: Painted veneer plaster or MDF or MDO plywood below chair rail at corridors, stairs and entry areas.
<b>Walls - Gymnasium</b>	Wainscot: 7' high painted MDF or sealed masonry. Above wainscot: Painted gypsum wallboard or sealed masonry.	Wainscot: 7' high painted MDF or sealed masonry. Above wainscot: Painted gypsum wallboard or sealed masonry.

# WEST AUBURN HIGH SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Walls - Library</b>	Type: Painted gypsum wallboard.	Type: Vinyl wall covering.
<b>Walls - Restrooms</b>	Gypsum wallboard: Painted wallboard at classroom and staff restrooms, and above wainscot in public and student restrooms. Ceramic tile: 7' high porcelain ceramic tile wainscot in public and student restrooms.	Gypsum wallboard: Painted wallboard above wainscot at classroom, health, public, staff, and student restrooms. Ceramic tile: 7' high porcelain ceramic tile wainscot in student and public restrooms. Plastic laminate: 40" high wainscot in classroom, health and staff restrooms.
<b>Walls - Support Spaces</b>	Gypsum wallboard: Painted wallboard in custodial, electrical, kitchenette, mechanical, office, reception, staff lounge, storage, and work rooms.	Gypsum wallboard: Painted wallboard in custodial, electrical, kitchenette, mechanical, office, reception, storage, and work rooms. Vinyl wall material: Vinyl wall covering at display walls in offices and staff lounge.
<b>Asbestos-Containing Materials</b>	Criteria: Asbestos-containing building materials present in a facility shall be intact, undisturbed and included in an asbestos management plan in compliance with AHERA regulations.	Criteria: Asbestos-containing building materials shall not be present.
<b>Interior Doors</b>	Classrooms: Hollow metal or solid core doors. Support spaces: Hollow metal or solid core doors. Corridors: Hollow metal at cross-corridor doors.	Classroom: 1-3/4" thick solid core doors with wood veneer. Support spaces: 1-3/4" thick solid core doors with wood veneer. Corridors: 16 gauge hollow metal at cross-corridor doors.
<b>Door Hardware</b>	Locksets: Schlage or Corbin with standard classroom function and keying that matches the school district's Schlage or Corbin Master Key system.	Closures and handles: ADA compliant. Door mullions: Removable and secured with key. Hinges: Continuous at high-use doors. Locksets: Schlage with Primus at exterior doors; standard classroom function plus exterior door locksets with inside cylinders keyed to unlock the outside and outside cylinders keyed to unlatch only; and keying that matches the school district's Schlage Great Grand Master Key system.
<b>Automatic Door Opener</b>	None.	Type: ADA compliant with keyed power shut off at door. Location: At main entry door.
<b>Overhead Doors and Grilles</b>	Interior overhead doors and grilles: Manually operated up to 6' wide. Motorized operation when over 6' wide. Fire-rated overhead doors and grilles shall be activated by local smoke or heat detectors. Exterior overhead doors and grilles: Manually operated.	Interior overhead doors and grilles: Manually operated up to 6' wide. Motorized operation when over 6' wide. Fire-rated overhead doors and grilles shall be activated by local smoke or heat detectors. Exterior overhead doors and grilles: Manually operated up to 10' wide. Motorized operation when over 10' wide.
<b>Interior Windows</b>	Type: Wood or metal frame with glazing in compliance with applicable building codes.	Type: Metal frame with safety glass.
<b>Ceilings - Classrooms</b>	Type: Suspended acoustical ceiling panels. Height: Minimum 9'.	Type: Suspended acoustical ceiling panels. Height: Minimum 9'-6".
<b>Ceilings - Corridors</b>	Type: Suspended acoustical ceiling panels. Height: Minimum 9'.	Type: 2' x 2' suspended acoustical ceiling panels. Height: Minimum 10'.
<b>Ceilings - Gymnasium</b>	Type: Painted gypsum board or exposed structure. Height: Minimum 20'.	Type: Surface applied acoustical ceiling tile. Height: Minimum 23'.
<b>Ceilings - Library</b>	Type: Suspended acoustical ceiling panels. Height: Minimum 10'.	Type: 2' x 2' suspended acoustical ceiling panels. Height: Minimum 10'.

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## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Ceilings - Restrooms</b>	Type: Painted gypsum board. Height: Minimum 8' at classroom, health and staff restrooms, and student restrooms.	Type: Painted gypsum board. Height: Minimum 8' at classroom, health and staff restrooms, 9'-6" at student restrooms.
<b>Ceilings - Support Spaces</b>	Gypsum board: Custodial, kitchenette and general storage rooms, minimum 9'-0" high. Gym storage rooms, minimum 9'-6" high. Suspended acoustical ceiling panels: Conference rooms, offices and workrooms, minimum 8'-6" high.	Gypsum board: Custodial and general storage rooms, minimum 9'-0" high. Gym storage rooms, minimum 9'-6" high. Suspended acoustical ceiling panels (2'x2'): Conference rooms and offices, minimum 9' high. Suspended acoustical ceiling panels (2'x4'): Workrooms, minimum 9' high.
<b>EQUIPMENT AND SPECIALTIES</b>		
<b>Marker Boards</b>	Quantity: One 16' board at classrooms. One 4' board at conference rooms. Type: Ceramic coated steel. Location: Classrooms and conference rooms.	Quantity: One 16' board and one 8' board at classrooms. One 8' board at conference rooms. Power and data outlets at 16' board in classrooms for future Smartboard connection. Type: Ceramic coated steel.
<b>Tackboards</b>	Quantity: 16' at classrooms, 4' at offices, 8' at lounge, 4' at conference rooms. Type: Cedar, cork or vinyl-covered cork. Location: Classrooms, offices, staff lounge and conference rooms.	Quantity: 16' at lounge, 8' at offices and conference rooms. Type: Vinyl-covered cork at offices, staff lounge and conference rooms. Vinyl wall covering in lieu of tackboards at classrooms. Location: Offices and conference rooms.
<b>Interior Signage</b>	Type: High impact acrylic room signs with room name and number. Cast metal dedication plaque. Location: Room sign at main entry door to all rooms. Dedication plaque at entry lobby.	Type: ADA compliant, high impact acrylic room signs with room name and number. Cast metal dedication plaque. Location: Room sign at main entry door to all rooms. Dedication plaque at entry lobby.
<b>Toilet Partitions</b>	Type: Plastic laminate covered fiber board. Location: Partitions at toilet stalls.	Type: Plastic laminate covered phenolic panels. Location: Partitions at toilet stalls and screens at urinals.
<b>Toilet Accessories</b>	Type: Mirrors, paper towel dispensers, soap dispensers, grab bars, tampon dispensers and sanitary napkin receptacles. Location: Mirrors at restroom hand wash areas. Paper towel and soap dispensers at all sinks. Grab bars at ADA accessible toilet stalls. Tampon dispenser and sanitary napkin receptacle at women's staff and student restrooms.	Type: Mirrors, paper towel dispensers, soap dispensers, grab bars, tampon dispensers and sanitary napkin receptacles. Location: Mirrors at restroom hand wash areas. Paper towel and soap dispensers at all sinks. Grab bars at ADA accessible toilet stalls. Tampon dispenser and sanitary napkin receptacle at women's staff and student restrooms.
<b>Lockers</b>	Locker rooms: 50 box metal lockers in Boy's and Girl's Locker rooms secured with padlock. Maintenance Office: 4 double tier metal lockers, each 12" W x 12" D x 36" H, secured with a padlock.	Locker rooms: 50 box and 10 half-height metal lockers in Boy's and Girl's Locker rooms, secured with a padlock. Maintenance Office: 4 double tier metal lockers, each 12" W x 12" D x 36" H, secured with a padlock.

# WEST AUBURN HIGH SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Residential Appliances</b>	Type: Residential grade. Ranges: Electric ranges with oven at student stations in Family and Consumer Science classroom. Exhaust hoods: Electric exhaust fan with removable and cleanable filters at student stations in Family and Consumer Science. Microwave ovens: Portable microwaves at student stations in Family and Consumer Science, and in Staff Lounge. Refrigerator: Large capacity free-standing refrigerator in Kitchenette and Family and Consumer Science. Standard size refrigerator in Staff Lounge. Freezer: Large capacity free-standing freezer in Kitchenette. Milk cooler: In Kitchenette.	Type: Residential grade, ADA compliant and ENERGY STAR qualified. Ranges: Electric ranges with oven at student stations in Family and Consumer Science classroom. Exhaust hoods: Electric exhaust fan with removable and cleanable filters at student stations in Family and Consumer Science. Microwave ovens: Portable microwaves at student stations in Family and Consumer Science, and in Staff Lounge. Refrigerator: Large capacity free-standing refrigerator in Kitchenette and Family and Consumer Science. Standard size refrigerator in Staff Lounge. Freezer: Large capacity free-standing freezer in Kitchenette. Milk cooler: In Kitchenette.
<b>Projection Screens</b>	Classrooms: 70" W x 70" H with manual operation.	Classrooms: 70" W x 70" H with manual operation. Commons: 120" W x 120" H with motorized operation. Main Gymnasium: 144" W x 144" H with motorized operation and protective enclosure.
<b>Telescoping Bleachers</b>	Gym: Motorized with 300 seats and portable scorer's table.	Type: ADA compliant, motorized with 400 seats, portable scorer's table, power shut off within room, and outlets for power, data, scoreboard, 30-second clock and sound system at scorer's table.
<b>Window Covering</b>	Classrooms: Roller shades or coated fabric curtains at exterior windows. Horizontal louver mini-blinds at interior relite windows. Conference rooms and offices: Coated fabric curtains or horizontal louver mini-blinds at exterior windows. Horizontal louver mini-blinds at interior relite windows. Gymnasium: None. Library: Roller shades or coated fabric curtains. Interior windows: Horizontal louver mini-blinds at interior relite windows.	Classrooms: Integral blinds between window glass at exterior windows. Horizontal louver mini-blinds at interior relite windows. Conference rooms and offices: Integral blinds between window glass at exterior windows. Horizontal louver mini-blinds at interior relite windows. Gymnasium: Roller shades. Library: Roller shades or integral blinds between window glass at exterior windows. Interior windows: Horizontal louver mini-blinds at interior relite windows.
<b>Cabinets - General Classrooms</b>	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to a master system. Quantity: 3 LF tall storage, 3 LF wardrobe.	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to the building master key system. Quantity: 6 LF tall bookshelves, 3 LF tall storage, 3 LF wardrobe.
<b>Cabinets - Specialty Classrooms</b>	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to a master system. Quantity: As needed to accommodate the instructional program.	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to the building master key system, and epoxy resin counter tops in Science classrooms and Science Prep rooms. Quantity: As needed to accommodate the instructional program.
<b>Cabinets - Offices</b>	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to a master system. Quantity: As needed to accommodate office use.	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, and locks keyed to the building master key system. Quantity: As needed to accommodate office use.
<b>Cabinets - Storage</b>	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to a master system. Quantity: As needed to accommodate storage needs.	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to the building master key system. Quantity: As needed to accommodate storage needs.

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## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Cabinets - Support Spaces</b>	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to a master system. Quantity: As needed to accommodate support space use.	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to the building master key system. Quantity: As needed to accommodate support space use.
<b>Display Cases</b>	Quantity: 12 LF at front enter foyer. Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to a master system for display cases.	Quantity: 24 LF at front enter foyer. Type: Recessed aluminum frame display case with hinged door, tackboard at back surface, keyed to the building master key system.
<b>Equipment - General Classrooms</b>	Computers: One computer per each FTE staff and one computer for each 4 students in the building with computers not exceeding 5 years in age. Printers: One ink jet printer not exceeding 4 years in age per classroom or one laser printer not exceeding 8 years in age per two classrooms.	Computers: One computer per each FTE staff and one computer for each 4 students in the building with computers not exceeding 5 years in age. Printer: One ink jet printer not exceeding 2 years in age per classroom or one laser printer not exceeding 6 years in age per two classrooms. LCD Projector and Camera: One projector with ceiling mount framework and document camera not exceeding 8 years in age.
<b>Equipment - Business Education / Computer Classrooms</b>	Computers: One staff and 24 student computers, not exceeding 5 years in age. Printer: Two ink jet printers not exceeding 4 years in age or two laser printer not exceeding 8 years in age or a combination of two printers.	Computers: One staff and 30 student computers, not exceeding 4 years in age. Printer: One ink jet printer not exceeding 2 years in age plus one color laser printer and one black laser printer not exceeding 6 years in age. LCD Projector and Camera: One projector with ceiling mount framework and document camera not exceeding 8 years in age.
<b>Equipment - Gymnasium</b>	Basketball backboards: 2 ceiling suspended, motorized backboards at main court. 4 side swing manually operated backboards at side walls. Scoreboard and shot clocks: 3' H x 6' W electronic scoreboard. Two 30-second shot clocks.	Basketball backboards: 2 ceiling suspended, motorized backboards at main court. 4 side swing manually operated adjustable height backboards at side walls. Volleyball standards: Power volleyball posts at center court. Scoreboard and shot clocks: 4'H x 8'W electronic scoreboard with control cable built-in. Two 30-second shot clocks.
<b>Equipment - Industrial Technology</b>	Wood working: Radial arm saw, lath, drill press, disc sander, planer, table saw, band saw, scroll saw, eye wash, and drill press with master shut-off switch in Technology Lab. Sawdust collection system at dust generating equipment.	Metal working: 1 metal working table, 1 box / pan brake, 1 shear, 1 roller, 1 spot welder in Technology Lab. Wood working: Radial arm saw, lath, drill press, disc sander, planer, table saw, band saw, scroll saw, eye wash, and drill press with master shut-off switch in Technology Lab. 120 / 208 volt equipment with master shut-off switch. Sawdust collection system at dust generating equipment.
<b>Equipment - Library</b>	Computers: 3 student computers, 1 staff computer, not exceeding 5 years in age. Printers: One ink jet printer not exceeding 4 years in age or one laser printer not exceeding 10 years in age. Television: One television monitor with DVD / VCR player, not exceeding 10 years in age. Copy Machine: One 25 copies per minute machine, not exceeding 8 years in age. Library Management Equipment: Check-out system not exceeding 6 years in age.	Computers: 6 student computers, 1 staff computer, not exceeding 4 years in age. Printers: One ink jet printer not exceeding 2 years in age or one laser printer not exceeding 6 years in age. Television: One television monitor with DVD / VCR player, not exceeding 8 years in age. Copy Machine: One 25 copies per minute networkable machine, not exceeding 7 years in age. Library Management Equipment: Check-out system not exceeding 4 years in age.

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## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Equipment - Offices / Workrooms</b>	Computers: Staff computers not exceeding 5 years in age. Printers: Ink jet printers not exceeding 4 years in age and laser printers not exceeding 10 years in age. Copy Machines: Two 60 copies per minute machines not exceeding 8 years in age. FAX Machine: Not exceeding 10 years in age.	Computers: Staff computers not exceeding 4 years in age. Printers: Ink jet printers not exceeding 2 years in age and laser printers not exceeding 6 years in age. Copy Machines: Two 60 copies per minute networkable machines and one 25 copy per minute networkable machine not exceeding 7 years in age. FAX Machine: Not exceeding 6 years in age.
<b>Equipment - Science</b>	Emergency eyewash: In science classroom. Flammable storage cabinet: In science prep room. Acid storage cabinet: In science prep room.	Emergency eyewash: In science classroom. Emergency shower: In science prep room. Evacuation exhaust fan: In science classroom with manual control. Flammable storage cabinet: In science prep room. Acid storage cabinet: In science prep room.
<b>Equipment - Support Spaces</b>	Type: As needed to accommodate the support area activities. Quantity: As needed to accommodate the support area activities.	Type: As needed to accommodate the support area activities. Quantity: As needed to accommodate the support area activities.
<b>Furniture - Classrooms</b>	Student Chairs: Hard plastic not exceeding 30 years in age. Staff Chairs: Upholstered not exceeding 15 years in age. Student Combo-desks: Hard plastic not exceeding 30 years in age. Teacher Desks: Plastic laminate surfaced not exceeding 30 years in age. Tables: Plastic laminate surfaced not exceeding 30 years in age.	Student Chairs: Hard plastic not exceeding 20 years in age. Staff Chairs: Upholstered not exceeding 10 years in age. Student Combo-desks: Hard plastic not exceeding 20 years in age. Teacher Desks: Plastic laminate surfaced not exceeding 20 years in age. Tables: Plastic laminate surfaced not exceeding 20 years in age.
<b>Furniture - Library</b>	Student Chairs: Hard plastic not exceeding 30 years in age. Upholstered seating not exceeding 15 years in age. Staff Chairs: Upholstered not exceeding 20 years in age. Teacher Desks: Plastic laminate surfaced not exceeding 30 years in age. Tables: Plastic laminate surfaced not exceeding 30 years in age.	Student Chairs: Hard plastic not exceeding 20 years in age. Upholstered seating not exceeding 10 years in age. Staff Chairs: Upholstered not exceeding 15 years in age. Teacher Desks: Plastic laminate surfaced not exceeding 20 years in age. Tables: Plastic laminate surfaced not exceeding 20 years in age.
<b>Furniture - Offices / Workrooms</b>	Staff Chairs: Upholstered not exceeding 15 years in age and hard plastic chairs not exceeding 30 years in age. Teacher Desks: Plastic laminate surfaced not exceeding 30 years in age. Tables: Plastic laminate surfaced not exceeding 30 years in age. File Cabinets: Metal not exceeding 50 years in age.	Staff Chairs: Upholstered not exceeding 10 years in age and hard plastic chairs not exceeding 20 years in age. Teacher Desks: Plastic laminate surfaced not exceeding 20 years in age. Tables: Plastic laminate surfaced not exceeding 20 years in age. File Cabinets: Metal not exceeding 30 years in age.
<b>Furniture - Support Spaces</b>	Type: As needed to accommodate the support area activities. Quantity: As needed to accommodate the support area activities.	Type: As needed to accommodate the support area activities. Quantity: As needed to accommodate the support area activities.
<b>Artwork</b>	School provided: Temporary artwork displays subject to approval by principal. Permanent artwork approved by school principal. Washington State art collection: Protected against damage in a reasonable manner and secured in place to protect against unauthorized removal.	School provided: Temporary artwork displays subject to approval by principal and protected as appropriate. Permanent artwork approved by school principal and secured in place to protect against unauthorized removal. Washington State art collection: Protected against damage in a reasonable manner and secured in place to protect against unauthorized removal.

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## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Vending Machines</b>	Type: Refrigerated and non-refrigerated machines with motion sensitive illumination control. Quantity: 2 machines. Location: 2 near Commons.	Type: Refrigerated and non-refrigerated machines with motion sensitive illumination control. Quantity: 3 machines. Location: One at Staff Lounge and 2 near Commons.
<b>MECHANICAL</b>		
<b>Fire Suppression System</b>	Fire sprinkler system: Wet or dry system in compliance with NFPA 13, and local building codes.	Fire sprinkler system: Wet system in compliance with NFPA 13, local building codes and FM Global Data Sheets 2-8 and 3-6.
<b>Plumbing Insulation</b>	Type: Insulation in compliance with building code at time of construction on domestic hot water lines.	Type: Insulation in compliance with current building code on domestic hot water lines and 1/2" insulation on domestic cold water lines.
<b>Domestic Water System</b>	Piping: Type L copper. Pumps: Bronze fitted pumps. Heating: Gas or electric heaters.	Piping: Type L copper. Pumps: All bronze pumps with isolation valves at both sides of pumps. Heating: Gas heaters.
<b>Domestic Water Quality</b>	Criteria: A maximum level of .015 mg/L (15ppb) of lead and 1.3 mg/L (1300 ppb) of copper in tap water.	Criteria: A maximum level of .015 mg/L (15ppb) of lead and 1.3 mg/L (1300 ppb) of copper in tap water.
<b>Soil and Waste</b>	Type: Cast iron pipe and fittings.	Type: Cast iron pipe and fittings.
<b>Plumbing Fixtures</b>	Water closets: Vitreous china. Urinals: Vitreous china. Lavatories: Vitreous china wall-hung sinks and stainless steel counter-mounted sinks. Drinking fountains: Vitreous china or stainless steel. Trap primers: None.	Water closets: ADA compliant, wall-hung vitreous china with water saving valves . Urinals: ADA compliant, wall-hung vitreous china with water saving valves. Lavatories: ADA compliant, vitreous china wall-hung sinks and stainless steel counter-mounted sinks with self-closing faucets. Drinking fountains: ADA compliant, stainless steel. Trap primers: Electronic trap primers with manual override.
<b>Compressed Air</b>	Black steel or copper.	Black steel or copper.
<b>Natural Gas Piping</b>	Type: Black steel, Schedule 40 pipe with butt-weld fittings.	Type: Black steel, Schedule 40 pipe with butt-weld fittings.
<b>Chemical Waste</b>	Type: Cast iron pipe and fittings.	Type: Acid resistant poly-propylene pipe and fittings with fusion joints and acid neutralization tank. Location: Acid resistant pipe from science room sinks and drains to acid neutralization tank. Tank located at building exterior in non-traffic location but accessible by maintenance vehicles.
<b>HVAC Duct Insulation</b>	Type: In compliance with building code at time of construction.	Type: In compliance with current building code.
<b>HVAC Pipe Insulation</b>	Type: In compliance with building code at time of construction.	Type: In compliance with current building code.
<b>Hydronic Piping</b>	Type: Type L copper or Schedule 40 black steel.	Type: Type L copper at piping below 2" diameter. Schedule 40 black steel at 2" diameter piping and above with welded or rolled grooved Victualic fittings.
<b>Hydronic Pumps</b>	Type: Vertical in-line or base mounted end-suction pumps.	Type: Vertical in-line or base mounted end-suction pumps with redundant pumps for back-up.
<b>Refrigerant Piping</b>	Type: Type L hard drawn copper tube, refrigeration grade.	Type: Type L hard drawn copper tube, refrigeration grade.



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## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>HVAC Ductwork</b>	Metal ducts: Galvanized sheet metal. Non-metal ducts: Insulated, reinforced flexible duct with vapor barrier jacket.	Metal ducts: Galvanized sheet metal per SMACNA Standards with welded stainless steel at Kitchen exhaust hoods. Non-metal ducts: Insulated, reinforced flexible duct with vapor barrier jacket allowed at locations approved by school district.
<b>HVAC Fans</b>	Type: Forward curved or backward inclined units with 1" filters, non-asbestos flexible connections, standard motors, and belt guards.	Type: Forward curved or backward inclined units with neoprene flexible connections, high efficiency motors, belt guards, minimum two rows of coils, drain valves, and 2" filters contained in factory-built filter rack.
<b>Heating / Ventilation System - Classrooms</b>	Type: Individual temperature control and minimum 450 CFM outside air supply in each classroom.	Type: Individual temperature control, minimum 450 CFM outside air supply, and off-hour override switch in each classroom
<b>Heating / Ventilation System - Gymnasium</b>	Type: Individual temperature control and minimum 5% outside air supply.	Type: Individual temperature control, minimum 5% outside air supply, CO2 sensor for ventilation control, and manual bypass timer in Maintenance Office.
<b>Heating / Ventilation System - Library</b>	Type: Individual temperature control and minimum 15% outside air supply.	Type: Individual temperature control, minimum 15% outside air supply, mechanical cooling, and manual bypass timer in Maintenance Office.
<b>Heating / Ventilation System - Offices</b>	Type: Temperature control shared by common areas, and minimum 15% outside air supply.	Type: Temperature control shared by common offices, minimum 20% outside air supply, and mechanical cooling in main office areas used during summer months.
<b>Heating / Ventilation System - Workrooms</b>	Type: Individual temperature control and high capacity ventilation system where high volume photocopy machines are used.	Type: Individual temperature control and independent high capacity ventilation system where high volume photocopy machines are used.
<b>Heating / Ventilation System - Support Spaces</b>	Type: Heating and ventilation systems capable of maintaining comfortable temperature range and ventilation.	Type: Heating and ventilation systems capable of maintaining comfortable temperature range and provide ventilation supply in compliance with current codes.
<b>Sawdust Collection</b>	Type: Non-recirculating dust collector equipment, ductwork and clean outs in compliance with building code at time of construction with blast gates and spark detection. Location: Connected to sawdust producing equipment in wood shop areas.	Type: Non-recirculating dust collector equipment, ductwork and clean outs in compliance with current building code with blast gates and spark detection. Location: Connected to sawdust producing equipment in wood shop areas.
<b>Air Terminal Units</b>	Type: Steel or aluminum units.	Type: Steel or aluminum units with bird screens at intakes. Heavy-duty units at Gymnasiums and multipurpose rooms.
<b>Ventilation Hoods</b>	None.	Kiln room: Down draft hood at kiln. Welding area: Galvanized sheet metal back hood at solder and welding areas.
<b>Boilers</b>	Type: Single gas fired hot water or steam boiler.	Type: Dual hot water, gas-fired, fire-tube, minimum 82% efficient, steel boilers each sized for 66% of load.
<b>Furnaces</b>	Type: Gas fired with 80% efficiency.	Type: Gas fired with minimum 80% efficiency.
<b>Heat Exchangers</b>	Type: Plate-type with 50% efficiency.	Type: Plate-type with 66% efficiency.
<b>Refrigerant Compressors and Condensers</b>	Type: Air cooled units. Location: Single unit per system.	Type: Air cooled units. Location: Single unit serving multiple systems.

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## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Water Chillers</b>	Type: Air cooled with dual compressors.	Type: Dual air cooled units with minimum of 2 compressors each and sound attenuation treatment.
<b>Exhaust Fans</b>	Type: Steel utility or aluminum dome type. Location: Easily accessible for maintenance.	Type: Steel utility or aluminum dome type. Location: Non-kitchen exhaust fans located in catwalk or mechanical attic area, not on roof. Kitchen exhaust fans located platform on roof with adjacent roof hatch plus walking platform where roof slope exceeds 3:12 slope.
<b>Heat Pumps</b>	Type: Air cooled units. Location: One unit per zone.	Type: Air cooled units with automatic compressor lock out. Location: One unit per zone.
<b>Fan Coil Units</b>	Type: Units with steel housing, minimal filters, and no outside air.	Type: Units with steel housing, 1" filters, and damper controlled outside air .
<b>Unit Ventilators</b>	Type: Units with heavy-duty steel housing and capacity based on code required CFM.	Type: Units with heavy-duty steel housing, capacity based upon code required CFM, factory installed access panels and filter racks, and NC-35 sound rating.
<b>Unit Heaters</b>	Type: Propeller type gas or hot water units.	Type: Propeller type gas or hot water units.
<b>Automatic Controls</b>	Type: Direct digital control system with individual zone control and thermostat for each instructional space and office area, Local Operator's Station at building's Maintenance Office, and connected to Central Operator's Station at Support Services Center.	Type: Direct digital control system with BACnet automation system, individual zone control and thermostat for each instructional space and office area, Dynamic Data exchange, Local Operator's Station at building Maintenance Office, and connected to Central Operator's Station at Support Services Center.
<b>ELECTRICAL</b>		
<b>Transformers</b>	Type: Dry type with capacity for calculated load.	Type: Low noise, dry type with capacity for calculated load plus 20%.
<b>Switchgear</b>	Type: Fuse or circuit breaker type with capacity for calculated load.	Type: Fuse or circuit breaker type with capacity for calculated load plus 15% and includes 15% spares.
<b>Panelboards</b>	Type: Circuit breaker type.	Type: Circuit breaker type with 15% spares.
<b>Power Distribution</b>	Type: Copper for #1 wire or less. Copper or aluminum for wire greater than #1.	Type: Copper wire.
<b>Power Conditioning</b>	None.	Type: Transient voltage surge suppressors. Location: At panelboards for protection of lighting, receptacles and computers.
<b>Wiring Devices</b>	Type: 15 or 20 amp.	Type: 20 amp.
<b>Electrical Outlets - General Classrooms</b>	Quantity: Six duplex electrical receptacles for student computers, one at teacher's work station, plus one at each wall per classroom.	Quantity: Six duplex electrical receptacles for student computers, two at teacher's work station, one in floor box at front of classroom, one at ceiling for projector, plus two at each wall per classroom.
<b>Electrical Outlets - Specialty Classrooms</b>	Quantity: One duplex electrical receptacles for each student computer station, one at teacher's work station, plus one at each wall per classroom.	Quantity: One duplex electrical receptacles for each student computer station, two at teacher's work station, one in floor box at front of classroom, one at ceiling for projector, plus two at each wall per classroom.

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## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Electrical Outlets - Library</b>	Quantity: One duplex electrical receptacle for each student computer station, one at check-out station, plus one at each wall.	Quantity: One duplex electrical receptacle for each student computer station, two at check-out station, one in floor box at instructional area, one at ceiling for projector, plus two at each wall.
<b>Electrical Outlets - Offices / Workrooms</b>	Quantity: One duplex electrical receptacle for each staff workstation, one for each copy and fax machine, plus one at each wall.	Quantity: Two duplex electrical receptacles for each staff workstation, one for each copy and fax machine, plus one at each wall.
<b>Electrical Outlets - Support Spaces</b>	Quantity: One duplex electrical receptacle for each electrical equipment item, one at every 80' on center in corridors, plus one at each wall.	Quantity: One duplex electrical receptacles for each electrical equipment item, one at every 50' on center in corridors, plus one at each wall.
<b>Electrical Outlets - Emergency Power</b>	None.	Quantity: Duplex electrical receptacles connected to emergency generator at MC Room, HC Rooms, Main Mechanical Room, Maintenance Office, Principal's Office, Main Office area, mechanical catwalks and attic spaces.
<b>Circuit Protection Devices</b>	Type: Circuit breakers with fuses at selected equipment.	Type: Circuit breakers with fuses at selected equipment.
<b>Packaged Generator</b>	Type: Diesel-fired with belly or above ground tank and minimum 48-hour operation capability with capacity to operate emergency lighting, fire alarm system, telephone, intercom, telecommunications equipment, and selected electrical outlets.	Type: Diesel-fired with belly tank and minimum 48-hour operation capability with capacity to operate emergency lighting, stand-by lighting, fire alarm system, telephone, intercom, telecommunications equipment, and selected electrical outlets plus 10% additional capacity.
<b>Battery Equipment</b>	Type: Uninterrupted power supply for intercom, telephone, and energy management systems. Back-up battery for fire alarm system.	Type: Uninterrupted power supply for intercom, telephone, and energy management systems. Back-up battery for fire alarm system.
<b>Lighting - Exterior - Bus Loading</b>	Type: Pole or building mounted fixtures with 5.0 foot-candle level controlled by photocell and EMS. Location: Between building and bus loading area.	Type: Pole or building mounted fixtures with 5.0 foot-candle level controlled by photocell and EMS. Location: Between building and bus loading area.
<b>Lighting - Exterior - Main Entry</b>	Type: Pole or building mounted fixtures with 5.0 foot-candle level controlled by photocell and EMS. Location: At front entrance between building and entry drive.	Type: Pole or building mounted fixtures with 8.0 foot-candle level controlled by photocell and EMS. Location: At front entrance between building and entry drive.
<b>Lighting - Exterior - Parking</b>	Type: Pole mounted fixtures with 0.8 foot-candle level controlled by photocell and EMS. Location: At parking lots.	Type: Pole mounted fixtures with 1.0 foot-candle level controlled by photocell and EMS. Location: At parking lots.
<b>Lighting - Exterior - Pathways</b>	Type: Pole or building mounted fixtures with 1.0 foot-candle level controlled by photocell and EMS. Location: At pathways around building and between building and parking areas.	Type: Pole or building mounted fixtures with 1.5 foot-candle level controlled by photocell and EMS. Location: At pathways around building and between building and parking areas.
<b>Lighting - Exterior - Service / Delivery</b>	Type: Pole or building mounted fixtures with 3.0 foot-candle level controlled by photocell and EMS with manual bypass timer. Location: At area between building and dumpsters.	Type: Pole or building mounted fixtures with 5.0 foot-candle level controlled by photocell and EMS with manual bypass timer. Location: At area between building and dumpsters.
<b>Lighting - Classrooms</b>	Type: Fluorescent fixtures with a minimum of 50 foot-candle level and maximum of 1.3 watts per SF.	Type: T-8 or T-5 fluorescent fixtures with parabolic louvers to control screen glare, minimum 50 foot-candle level and a maximum of 1.1 watts per SF.
<b>Lighting - Corridors</b>	Type: Fluorescent fixtures with a minimum 15 foot-candle level and a maximum of 0.8 watts per SF.	Type: T-8, T-5 and compact fluorescent fixtures with a minimum 15 foot-candle level and a maximum of 0.6 watts per SF.

# WEST AUBURN HIGH SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Lighting - Emergency</b>	Interior Pathways: An average of 1 foot-candle level at floor level at all paths of egress with a minimum of 0.3 foot-candle level at the center of paths of egress.	Interior Pathways: An average of 1 foot-candle level at floor level at all paths of egress with a minimum of 0.3 foot-candle level at the center of paths of egress. Standby Lighting: One standby light fixture connected to emergency generator in each classroom, office, restroom and mechanical equipment space.
<b>Lighting - Gymnasium</b>	Type: Fluorescent or metal halide fixtures with a minimum 30 foot-candle level and a maximum of 1.3 watts per SF.	Type: Metal halide fixtures, pendant and hook mounted with instant restart at emergency fixtures with a minimum 30 foot-candle level and a maximum of 1.2 watts per SF.
<b>Lighting - Library</b>	Type: Fluorescent fixtures with a minimum 50 foot-candle level and a maximum of 1.3 watts per SF.	Type: T-8 or T-5 fluorescent fixtures with parabolic louvers to control screen glare with a minimum 50 foot-candle level and a maximum of 1.1 watts per SF.
<b>Lighting - Restrooms</b>	Type: Fluorescent fixtures with a minimum 20 foot-candle level and a maximum of 1.1 watts per SF.	Type: T-8, T-5 and compact fluorescent fixtures with a minimum 20 foot-candle level and a maximum of 0.8 watts per SF.
<b>Lighting - Support Spaces</b>	Type: Fluorescent fixtures with a minimum 50 foot-candle level and a maximum of 1.3 watts per SF.	Type: T-8 or T-5 fluorescent fixtures with parabolic louvers to control screen glare with a minimum 50 foot-candle level and a maximum of 1.1 watts per SF.
<b>Automatic Lighting Control</b>	Exterior lighting: Time clock and photocell control.	Exterior lighting: EMS and photocell control with separate zones. Interior lighting: Occupancy sensors in classrooms and corridors.
<b>Exit Signs</b>	Type: In compliance with building code at time of construction.	Type: In compliance with current building code and connected to emergency generator.
<b>Data Communications Cabling</b>	Backbone: Optical fiber between MC and HC locations. Wiring: Category 3 cable between computer equipment and MC or HC.	Backbone: 6 pair multimode optical fiber between MC and HC locations. Wiring: Category 5e below grade and Category 6 above grade between computer equipment and MC or HC.
<b>Data Communications Equipment</b>	Filter: Granular grade-level appropriate web content filtering. Router: 10 Mb WAN connectivity. Routing: Layer 3 capability in core switch at MC. Switch: 10 /100 / 1000 host capability. Traffic shaping: Site-based capability. WAN connectivity speed: 10 Mb. UPS: For routers, switches, and servers providing a minimum of 5 minutes of uninterrupted power.	Filter: Granular grade-level appropriate web content filtering. Router: 100 Mb WAN connectivity. Routing: Layer 3 capability in core switch at MC. Switch: 10 /100 / 1000 host capability. Traffic shaping: Site-based capability. WAN connectivity speed: 1,000 Mb. UPS: For routers, switches, and servers providing a minimum of 10 minutes of uninterrupted power.
<b>Data Communications Outlets - General Classrooms</b>	Quantity: Six data outlets for student computers plus one at teacher's work station per classroom.	Quantity: Six data outlets for student computers, two at teacher's work station, and one in floor box at front of classroom per classroom.
<b>Data Communications Outlets - Specialty Classrooms</b>	Quantity: One data outlets for each student computer station plus one at teacher's work station per classroom.	Quantity: One data outlet for each student computer station, two at teacher's work station, and one in floor box at front of classroom per classroom.
<b>Data Communications Outlets - Commons</b>	None.	Quantity: Four data outlets at perimeter walls located to accommodate special events and registration activities.
<b>Data Communications Outlets - Library</b>	Quantity: One data outlet for each student computer station and one at check-out station.	Quantity: One data outlet for each student computer station, two at check-out station, and one in floor box at instructional area.

# WEST AUBURN HIGH SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Data Communications Outlets - Offices / Workrooms</b>	Quantity: One data outlet for each staff workstation and one for each printer.	Quantity: Two data outlets for each staff workstation, one for each remote printer, and one for each networked copy machine.
<b>Data Communications Outlets - Support Spaces</b>	Quantity: One data receptacle for each computer station and one for each printer located within the space.	Quantity: One data receptacle for each computer station and one for each printer located within the space.
<b>Wireless Data Communications</b>	None.	Type: Power and data outlets for secure wireless access and free-roaming capability in Library, Commons, Main Office, Gymnasium, and each classroom wing.
<b>Telephone / Intercom / Clock System</b>	Communication system: Rauland Telecenter integrated communications system for telephones, voice mail, intercom, clock, class change tones and Enhanced 911. Clocks: Master clock with analog secondary clocks. Intercom: Voice controlled amplifiers with two-way loud speaking and handsets in all occupied spaces except call button in Gymnasium. Telephones: Digital PBX central exchange, voice mail system.	Communication system: Rauland Telecenter ISC integrated communications system for telephones, voice mail, intercom, clock, class change tones and Enhanced 911. Clocks: Rauland master clock. Analog secondary clocks in corridors, Gymnasium and commons. Digital secondary clocks in classrooms, office and support spaces. Intercom: Voice controlled amplifiers with two-way loud speaking and handsets in all occupied spaces except call button in Gymnasium. Telephones: Digital PBX central exchange, voice mail system.
<b>Telephone Handsets</b>	Single-line handset: Classrooms, conference rooms, Health, Kitchenette, Library, offices (unless otherwise noted), staff lounge, staff workroom. Multi-line handset: Main office aides / secretaries, Registrar, Principal. Multi-line handset with station console: Office manager.	Single-line handset: Classrooms, conference rooms, Health, Kitchenette, Library, offices (unless otherwise noted), staff lounge, staff workroom. Multi-line handset: Main office aides, Main office workroom, Registrar, Principal. Multi-line handset with station console: Office manager.
<b>Sound System</b>	Gymnasium: Public address and stereo music playback system with built-in equipment rack, speakers and microphone outlets.	Commons: Digital audio public address and stereo music playback system with built-in equipment rack, speakers, wireless microphone system, microphone outlets, and assistive listening system. Gymnasium: Digital audio public address and stereo music playback system with built-in equipment rack, speakers with protective cage, wireless microphone system, microphone outlets, and assistive listening system.
<b>Television System</b>	Classrooms: One cable TV outlet in each room. Library office: Television head-end equipment and cable TV outlet. Library: One cable TV outlet.	Classrooms: One cable TV outlet in each room. Library office: Television head-end equipment and cable TV outlet. Conference rooms and Group Study: One cable TV outlet in each room. Library: One cable TV outlet.
<b>Audio - Video System</b>	None.	Classrooms: One ceiling mounted video projector outlet connected to outlet in floor box at front of each general classroom. Commons: One video projector outlet connected to outlet at wall. Library: One ceiling mounted video projector outlets connected to outlet in floor boxes at front of Library instructional areas.

# WEST AUBURN HIGH SCHOOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Intrusion Detection</b>	<p>Type: Multi-zone system with NAPCO control panel, keypad activation device, and passive infrared motion detectors.</p> <p>Location: Control panel in office area, keypad at front entry door, and detection devices in Main office, Business Education and Computer classrooms, Library, and corridors.</p>	<p>Type: Multi-zone system with NAPCO control panel, keypad activation device, and passive infrared motion detectors.</p> <p>Location: Control panel in Maintenance office, keypad at main entry doors, and detection devices in Main office, Business Education and Computer classrooms, Library, corridors and portable classrooms.</p>
<b>Video Surveillance</b>	<p>None.</p>	<p>Type: Surveillance camera system for monitoring of school grounds with surveillance system computer in Principal's office and monitoring station at Counselor's office. Excess capacity in cable trays above corridor ceilings and in catwalk areas for future surveillance system cabling within building.</p> <p>Location: Surveillance cameras at site entry / exit driveways, parking lots, bus loading area, front of school, and courtyard.</p>
<b>Fire Detection and Alarm</b>	<p>Type: Automatic addressable alarm and detection system in compliance with building code at time of construction. Plastic guards with local alarm at pull stations.</p> <p>Location: Detection and alarm devices located in compliance with building code at time of construction and annunciator at front entry.</p>	<p>Type: Automatic addressable alarm and detection system in compliance with current building code. Plastic guards with local alarm at pull stations.</p> <p>Location: Detection and alarm devices located in compliance with current building code, control panel and printer in Maintenance Office, graphic annunciator at front entry, and LCD annunciator with controls at Main Office.</p>

# ADMINISTRATION BUILDING

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>SITE AREAS</b>		
<b>Parking and Access - Service / Delivery</b>	Quantity: 1 delivery vehicle stall, 12' wide. 1 maintenance vehicle stall, 10' wide. Type: Asphalt, 20-year life. Location: Delivery stall adjacent to loading dock. Maintenance stall adjacent to building.	Quantity: 1 delivery stalls 16' wide. 2 maintenance vehicle stalls, 12' wide. Type: 30-year life. Location: Delivery stalls adjacent loading dock. Maintenance stalls adjacent to building.
<b>Parking and Access - Staff</b>	Quantity: 60 stalls, 9' wide. Type: 20-year life. Location: Adjacent to building.	Quantity: 72 stalls, 9' wide. Type: 30-year life. Location: Adjacent to building.
<b>Parking and Access - Visitors</b>	Quantity: 20 stalls, 9' wide. Type: Asphalt, 20-year life. Location: At front of building.	Quantity: 40 stalls, 9' wide. Type: 30-year life. Location: At front of building.
<b>Street Frontage Sidewalks</b>	Type: 5' wide with ADA compliant curb cuts, asphalt.	Type: 6' wide with ADA compliant curb cuts, concrete.
<b>On-Site Walkways</b>	Type: 5' wide with ADA compliant curb cuts, asphalt.	Type: 6' wide with ADA compliant curb cuts, concrete.
<b>Stairs and Ramps</b>	Type: 5' wide, ADA compliant, concrete.	Type: 6' wide, ADA compliant, concrete with abrasive stair nosings at stairs and detectible warning pattern at ramps.
<b>Lawns</b>	Type: Irrigated grass turf. Location: At front of building, street frontage, and adjacent to landscape areas where suitable.	Type: Irrigated grass turf with concrete mow strip around posts and hydrants and where grass is adjacent to building. Location: At front of building, street frontage, and adjacent to landscape areas where suitable.
<b>Dumpster Area</b>	Type: Designated area to accommodate one 8 YD garbage dumpster and one 8 YD recycle dumpster. Location: Adjacent to loading dock with direct access for refuse trucks. Close to exterior door.	Type: Designated area to accommodate one 8 YD garbage dumpster and one 8 YD recycle dumpster with masonry screen walls on three sides. Location: Adjacent to loading dock with direct access for refuse trucks. Close to exterior door at a main corridor.
<b>SITE IMPROVEMENTS</b>		
<b>Fences and Gates</b>	Type: Chainlink fencing at perimeter of property where adjacent to other property. 12' wide chainlink gates at all fence areas for direct vehicle access. Height: 6' high.	Type: Chainlink fencing at perimeter of property where adjacent to other property. 16' wide chainlink gates at all fence areas for direct vehicle access. Height: 6' high.
<b>Pipe Rail Gates and Railings</b>	Gates: 12' wide made from galvanized steel pipe with padlock hardware and reflective warning tape. Located at driveway access to staff parking lots that are not available for public use after work hours. Railings: Made from galvanized steel pipe.	Gates: 16' wide made from galvanized steel pipe with padlock hardware and reflective warning tape. Located at driveway to staff parking lots that are not available for public use after work hours. Railings: Made from galvanized steel pipe, ADA compliant.
<b>Retaining Walls</b>	Type: Concrete, segmental block or rockery.	Type: Concrete, segmental block or rockery.
<b>Bicycle Racks</b>	None.	Quantity: Two racks, each with capacity for 6 bicycles. Type: Galvanized "ribbon" metal. Location: One rack at front of building and one rack at under building overhang area.
<b>Dumpsters</b>	Quantity: One 8 YD garbage dumpster and one 8 YD recycle dumpster. Location: At dumpster area at loading dock area.	Quantity: One 8 YD garbage dumpster and one 8 YD recycle dumpster. Location: At dumpster enclosure at loading dock area.

# ADMINISTRATION BUILDING

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Exterior Benches</b>	Quantity: 1 at front of building. Type: Durable non-wood material.	Quantity: 2 at front of building. Type: Prefinished metal "ribbon" bench.
<b>Exterior Waste Receptacles</b>	Quantity: Two at visitor parking area and one at each main entry. Type: Heavy-duty galvanized can with push door dome top.	Quantity: Three at visitor parking area and one at each main entry. Type: Heavy-duty galvanized can with push door dome top at visitor parking area and metal "ribbon" container with push door dome top at front entry.
<b>Flag Pole</b>	Type: 25' painted metal. Location: Front of building and accessible from hard surface.	Type: 25' spun aluminum. Location: Front of building and accessible from hard surface.
<b>Site Sign</b>	Type: Monument sign with building name and address. Location: At front of building.	Type: Concrete, masonry or stone monument sign with building name and address. Location: At front of building.
<b>Traffic Control Signs</b>	Type: As needed for traffic and parking control. Location: At HC parking stalls, maintenance parking stalls, delivery vehicle stalls and parking lots.	Type: As needed for traffic and parking control. Location: At HC parking stalls, maintenance parking stalls, delivery vehicle stalls and parking lots.
<b>Pavement Markings</b>	Type: Painted lines for cross walks, stop bars, traffic arrows, parking stalls, HC parking symbols, and fire lanes. Location: At parking lots and entry driveways.	Type: Painted lines for parking stalls, HC parking symbols, and fire lanes. Thermoplastic markings for cross walks, stop bars and traffic arrows. Location: At parking lots and entry driveways.
<b>LANDSCAPING</b>		
<b>Shrubs / Groundcover</b>	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department with automated irrigation system. Location: At building perimeter, parking lot islands, and perimeter landscape buffers.	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department with automated irrigation system. Location: At building perimeter, parking lot islands, and perimeter landscape buffers.
<b>Trees</b>	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department. Location: At lawn areas, street frontage, parking lot islands, and perimeter landscape buffers.	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department. Location: At lawn areas, street frontage, parking lot islands, and perimeter landscape buffers.
<b>Irrigation System</b>	Type: Automated system with separate water meter. Location: At lawns and landscape areas.	Type: Automated system controlled by EMS with separate water meter. Location: At lawns and landscape areas.
<b>UTILITIES</b>		
<b>Water System</b>	Type: Ductile iron pipe with separate domestic and fire service systems, deduct meter for irrigation system, backflow preventer and FDC on fire system. Size: As required for flow requirements. Location: As required by local water purveyor.	Type: Ductile iron pipe with separate domestic and fire service systems, separate (non-deduct) meter for irrigation system, backflow preventer and FDC on fire system. Supplemental electronic meters for domestic and irrigation systems located in Main Mechanical Room and connected to EMS. Size: As required for flow requirements. Location: As required by local water purveyor with domestic and irrigation meters located close to building.
<b>Sanitary Sewer System</b>	Type: PVC or concrete pipe with positive slope in compliance with Dept. of Ecology "Orange Book". Size: 6" diameter side and main sewer. Location: As required by local sewer purveyor with manhole structures easily accessible for maintenance.	Type: PVC pipe with ductile iron pipe where cover is less than 24". Positive slope in compliance with Dept. of Ecology "Orange Book" and locking manhole covers. Size: 6" diameter side and 8" diameter main sewer. Location: As required by local sewer purveyor with manhole structures easily accessible for maintenance.



# ADMINISTRATION BUILDING

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Storm Drainage System</b>	Type: Concrete pipe, ductile iron, PVC or corrugated polyethylene pipe. Size: 4" diameter footing and roof drains. 8" diameter site storm drains. Location: As required by local jurisdiction with drainage structures easily accessible for maintenance.	Type: PVC or corrugated polyethylene pipe with ductile iron pipe where cover is less than 24". Locking grates and Type 2 manhole structures where invert is deeper than 60". Clean outs at the base of all downspouts and at ends of roof and footing drain lines. Size: 6" diameter footing and roof drains. 8" diameter site storm drains. Location: As required by local jurisdiction with drainage structures easily accessible for maintenance.
<b>Natural Gas Service</b>	Type: Capacity as required for building gas load provided in inches or pounds. Location: Underground with gas meter adjacent to exterior wall of building.	Type: Capacity in pounds as required for building gas load with a minimum of 2 pounds and supplemental electronic meter located in Main Mechanical Room and connected to EMS. Location: Underground with gas meter adjacent to exterior wall of building.
<b>Fuel Storage Tanks</b>	Underground storage tanks: Steel with corrosion-resistant coating. Locate close to equipment receiving fuel and below an area that is accessible for future excavation. Above ground storage tanks: Steel with corrosion protection and secondary containment area. Locate close to equipment receiving fuel.	Underground storage tanks: Not acceptable. Above ground storage tanks: Steel with corrosion protection and secondary containment area. Locate close to equipment receiving fuel.
<b>Electrical Service</b>	Type: As required for calculated electrical load. Location: Underground.	Type: As required for calculated electrical load plus 15% spares with fully coordinated over current protection. Location: Underground.
<b>Telephone Service</b>	Type: 55 voice grade Centrex lines. Size: 2" conduit. Location: Underground.	Type: 55 voice grade Centrex lines. Size: Two 4" conduit. Location: Underground.
<b>Cable Television Service</b>	Type: Comcast Basic Cable service. Size: 2" conduit. Location: Underground.	Type: Comcast Basic Cable service. Size: Two 4" conduit. Location: Underground.
<b>Internet Connection</b>	Type: Optical fiber with 30 MB bandwidth. Location: Underground.	Type: Optical fiber with a 1000 MB bandwidth. Location: Underground with spare 4" conduit for future expansion.
<b>Energy Usage - MBTUs per SF Building Area</b>	Annual usage: .0756 MBTUs per SF.	Annual usage: .06048 MBTUs per SF.
<b>Water Usage - Domestic Water per SF Building Area</b>	Annual usage: Average of last three years.	Annual usage: 80% of the average of the last three years.
<b>Water Usage - Irrigation Water per SF Landscape Area</b>	Annual usage: Average of last three years.	Annual usage: 80% of the average of the last three years.
<b>STRUCTURE</b>		
<b>Foundation</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>Floor Structure</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>Wall Structure - Bearing</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.

# ADMINISTRATION BUILDING

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Wall Structure - Non Bearing</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>Roof Structure</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>BUILDING ENVELOPE</b>		
<b>Floors</b>	Ground level: Wood framing over ventilated crawl space. Upper levels: Wood framing with plywood subfloor.	Ground level: Reinforced concrete slab-on-grade with vapor retarder and capillary break. Upper level: Reinforced concrete over wood or metal decking.
<b>Exterior Wall Surface</b>	Type: Cement board siding, metal siding, concrete or window wall.	Type: Masonry.
<b>Exterior Wall Insulation</b>	Type: R-11.	Type: R-19 or greater if required by code.
<b>Exterior Windows</b>	Quantity: 20 SF of glazing at each office, 20 SF of glazing at small conference rooms, 40 SF of glazing at large conference rooms, and 80 SF of glazing at large public meeting room. Type: Fixed or operable sash metal frames with dual glazing. Location: At all offices, conference rooms, and public meeting room.	Quantity: 24 SF of glazing at each office, 24 SF of glazing at small conference rooms, 48 SF of glazing at large conference rooms, and 96 SF of glazing at large public meeting room. Type: Operable sash prefinished aluminum frames with 1/4" dual glazing, low E coating, and U-value less than 40. Location: At all offices, conference rooms, and public meeting room.
<b>Exterior Doors</b>	Type: Solid core wood or 16-gauge painted hollow metal doors. Location: As required for ease of circulation and fire exiting. Size: Minimum 3' x 6'-8".	Type: 14-gauge hollow painted hollow metal door with hollow metal frame and U-value less than 40. Location: As required for ease of circulation and fire exiting. Size: 3' x 7' except oversized door at loading dock and a pair of 3' x 7' doors with removable mullion at exterior door of mechanical equipment spaces.
<b>Soffits</b>	Type: Painted wood.	Type: Painted MDO plywood or prefinished metal.
<b>Flashing</b>	Type: Painted metal.	Type: Pre-finished 24-gauge sheet metal.
<b>Trim</b>	Type: Painted wood.	Type: Pre-finished 24-gauge sheet metal.
<b>Gutters and Downspouts</b>	Gutters: Painted metal located at edge of roof. Downspouts: Painted PVC or metal.	Gutters: Pre-finished 22-gauge sheet metal field formed in continuous lengths located at edge of roof. Downspouts: Pre-finished 11-gauge sheet metal with rain diverters at roof valleys and connected to storm drainage system or rain garden.
<b>Roof Membrane</b>	Low-sloped roof: Built-up roofing with mineral cap sheet. Pitched roof: 30-year fiberglass composition shingles.	Low-sloped roof: Single-ply Hypolon membrane. Pitched roof: Pre-finished 24-gauge metal.
<b>Roof Insulation</b>	Type: R-19.	Type: R-38 or greater if required by code, installed at roof level.
<b>Roof Accessories</b>	Type: Painted metal. Location: Minimum 5' separation from roof drains, edges and valleys.	Type: Pre-finished metal with protected electrical receptacle at all mechanical equipment. Location: Minimum 10' separation from roof drains, edges and valleys.

# ADMINISTRATION BUILDING

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Skylights</b>	Type: Translucent glazing and 300-pound point load capacity.	Type: Translucent, dual-surface, reinforced plastic glazing with pre-finished aluminum frame and 300-pound point load capacity.
<b>Fall Arrest System</b>	Type: Fall protection roof anchors in compliance with UMC, WISHA and OSHA standards. Location: In compliance with WISHA and OSHA standards.	Type: Fall protection roof anchors and railings in compliance with UMC, WISHA and OSHA standards. Location: In compliance with UMC, WISHA and OSHA standards.
<b>INTERIORS</b>		
<b>Floors - Corridors and Stairs</b>	Type: VCT or synthetic pile carpet with synthetic backing. Loose laid walk off mats with synthetic pile. Location: VCT or carpet at corridors and stairs. Walk off mats at exterior doors.	Type: Synthetic pile carpet with polypropylene / vinyl backing. Glue-down walk off mats with synthetic pile and polypropylene / vinyl backing. Location: Carpet at corridors and stairs. Walk off mats at exterior doors.
<b>Floors - Fire Protected Storage</b>	Type: Sealed concrete.	Type: Sealed concrete.
<b>Floors - Offices</b>	Carpet: Synthetic pile with synthetic backing.	Carpet: Synthetic pile with polypropylene / vinyl backing.
<b>Floors - Restrooms</b>	Seamless flooring: Seamless material.	Ceramic tile: Unglazed porcelain tile.
<b>Floors - Support Spaces</b>	Carpet: Synthetic pile with synthetic backing at reception areas, conference rooms, public meeting room and staff lounge. VCT: 12" x 12" tile at storage and work rooms. Concrete: Sealed concrete at custodial, telecommunications, mechanical and electrical rooms. Plywood: Plywood floor deck at catwalks and mechanical attics in wood frame buildings.	Carpet: Synthetic pile with polypropylene / vinyl backing at reception areas, conference rooms, public meeting room, staff lounge and work rooms. VCT: 12" x 12" tile at storage and telecommunications rooms. Sheet vinyl: Vinyl sheet flooring at custodial rooms. Concrete: Sealed concrete at mechanical and electrical rooms, and at catwalks and mechanical attics in metal frame buildings. Plywood: Plywood floor deck at catwalks and mechanical attics in wood frame buildings.
<b>Walls - Corridors and Stairs</b>	Gypsum wallboard: Painted wallboard at corridors, stairs and entry areas.	Gypsum wallboard: Painted wallboard above wainscot in corridors, stairs, and entry areas. Wainscot: Painted veneer plaster, plastic laminate or MDF plywood at corridors, stairs and entry areas.
<b>Walls - Fire Protected Storage</b>	Type: Concrete or concrete block.	Type: Concrete or concrete block.
<b>Walls - Offices</b>	Type: Painted gypsum wallboard.	Type: Painted gypsum wallboard.
<b>Walls - Restrooms</b>	Gypsum wallboard: Painted wallboard above wainscot. Wainscot: Plastic laminate or ceramic tile behind lavatories and toilet fixtures.	Gypsum wallboard: Painted wallboard above wainscot. Wainscot: Plastic laminate or ceramic tile at all walls.
<b>Walls - Support Spaces</b>	Gypsum wallboard: Painted wallboard.	Gypsum wallboard: Painted wallboard in except in public meeting room. Vinyl wall material: Vinyl wall covering in public meeting room.
<b>Asbestos-Containing Materials</b>	Criteria: Asbestos-containing building materials present in a facility shall be intact, undisturbed and included in an asbestos management plan in compliance with AHERA regulations.	Criteria: Asbestos-containing building materials shall not be present.

# ADMINISTRATION BUILDING

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Interior Doors</b>	Type: Solid core wood doors.	Type: Solid core wood doors.
<b>Door Hardware</b>	Locksets: Schlage or Corbin with keying that matches the school district's Schlage or Corbin Master Key system.	Closers and handles: ADA compliant. Door mullions: Removable and secured with key. Locksets: Schlage with Primus at exterior doors and keying that matches the school district's Schlage Great Grand Master Key system.
<b>Automatic Door Opener</b>	Type: ADA compliant with keyed power shut off at door. Location: At door to elevator foyer.	Type: ADA compliant with keyed power shut off at door. Location: At main entry doors.
<b>Overhead Doors and Grilles</b>	Interior overhead doors and grilles: Manually operated up to 6' wide. Motorized operation when over 6' wide. Fire-rated overhead doors and grilles shall be activated by local smoke or heat detectors. Exterior overhead doors and grilles: Manually operated.	Interior overhead doors and grilles: Manually operated up to 6' wide. Motorized operation when over 6' wide. Fire-rated overhead doors and grilles shall be activated by local smoke or heat detectors. Exterior overhead doors and grilles: Manually operated up to 10' wide. Motorized operation when over 10' wide.
<b>Interior Windows</b>	Type: Wood or metal frame with glazing in compliance with applicable building codes.	Type: Wood or metal frame with glazing in compliance with applicable building codes.
<b>Operable Walls</b>	Type: Folding panel partition with minimum STC 52. Location: At public meeting room.	Type: Folding panel partition with minimum STC 52. Location: At public meeting room and large conference rooms.
<b>Ceilings - Corridors and Stairs</b>	Type: Surface applied acoustical ceiling tile or suspended acoustical ceiling panels. Height: Minimum 9'.	Type: Surface applied acoustical ceiling tile or 2' x 2' suspended acoustical ceiling panels. Height: Minimum 10'.
<b>Ceilings - Fire Protected Storage</b>	Type: Concrete or metal deck with concrete topping slab.	Type: Concrete or metal deck with concrete topping slab.
<b>Ceilings - Offices</b>	Type: Surface applied acoustical ceiling tile or suspended acoustical ceiling panels. Height: Minimum 8'-6".	Type: Surface applied acoustical ceiling tile or suspended acoustical ceiling panels. Height: Minimum 9'.
<b>Ceilings - Restrooms</b>	Type: Surface applied or suspended acoustical ceiling tile. Height: Minimum 8' -6".	Type: Painted gypsum board. Height: Minimum 9'.
<b>Ceilings - Support Spaces</b>	Gypsum board: Custodial and mechanical rooms, minimum 8'-6" high. Acoustical ceiling: Surface applied or suspended acoustical ceiling tile in conference rooms, staff lounge, storage and workrooms, minimum 8'-6" high except minimum 9' high at public meeting room.	Gypsum board: Custodial and mechanical rooms, minimum 9' high. Acoustical ceiling: Surface applied or suspended acoustical ceiling tile in conference rooms, public meeting, staff lounge, storage and workrooms, minimum 9' high except minimum 10' high at public meeting room.
<b>EQUIPMENT AND SPECIALTIES</b>		
<b>Marker Boards</b>	Quantity: One 4' board at small conference rooms. One 8' board at large conference rooms and public meeting room. Type: Ceramic coated steel.	Quantity: One 4' board at small conference rooms. One 8' board at large conference rooms and public meeting room. Power and data outlets at 8' board in public meeting room for future Smartboard connection. Type: Ceramic coated steel.
<b>Tackboards</b>	Quantity: 4' at offices and workrooms, 8' at staff lounge, 4' at small conference rooms, and 8' at large conference rooms. Type: Cedar, cork or vinyl-covered cork.	Quantity: 8' at offices and workrooms, 8' at staff lounge, 4' at small conference rooms, and 8' at large conference rooms. Type: Cork or vinyl-covered cork.

# ADMINISTRATION BUILDING

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Exterior Signage</b>	Type: Pre-finished metal lettering at front of building identifying building name and street number.	Type: Pre-finished metal lettering at front of building identifying building name and address.
<b>Interior Signage</b>	Type: High impact acrylic room signs with room name and number. Location: Room sign at main entry door to all rooms.	Type: ADA compliant high impact acrylic room signs with room name and number. Cast metal dedication plaque. Location: Room sign at main entry door to all rooms. Dedication plaque at entry lobby.
<b>Toilet Partitions</b>	Type: Plastic laminate covered fiber board. Location: Partitions at toilet stalls.	Type: Plastic laminate covered phenolic panels. Location: Partitions at toilet stalls and screens at urinals.
<b>Toilet Accessories</b>	Type: Mirrors, paper towel dispensers, soap dispensers, grab bars, tampon dispensers and sanitary napkin receptacles. Location: Mirrors at restroom hand wash areas. Paper towel and soap dispensers at all sinks. Grab bars at ADA accessible toilet stalls. Tampon dispenser and sanitary napkin receptacle at women's restrooms.	Type: ADA compliant mirrors, paper towel dispensers, soap dispensers, grab bars, tampon dispensers and sanitary napkin receptacles. Location: Mirrors at restroom hand wash areas. Paper towel and soap dispensers at all sinks. Grab bars at ADA accessible toilet stalls. Tampon dispenser and sanitary napkin receptacle at women's restrooms.
<b>Residential Appliances</b>	Type: Residential grade. Ranges: Electric range with oven in staff lounge. Exhaust hoods: Electric exhaust fan with removable and cleanable filters above range in staff lounge. Microwave ovens: Portable microwave in staff lounge. Refrigerator: One large capacity refrigerator with freezer compartments in staff lounge.	Type: Residential grade, ADA compliant and ENERGY STAR qualified. Ranges: Electric range with oven at staff lounge. Exhaust hoods: Electric exhaust fan with removable and cleanable filters above range in staff lounge. Microwave ovens: Portable microwave in staff lounge and kitchenettes. Refrigerator: Two large capacity refrigerators with freezer compartment in staff lounge.
<b>Projection Screens</b>	Large conference rooms: 60" W x 60" H with manual operation. Public meeting room: 70" W x 70" H with manual operation.	Large conference rooms: 60" W x 60" H with manual operation. Public meeting room: 84" W x 84" H with motorized operation.
<b>Window Covering</b>	Type: Vertical or horizontal louver blinds at exterior windows. Horizontal louver mini-blinds at interior relite windows at offices.	Type: Horizontal louver blinds at exterior windows. Horizontal louver mini-blinds at interior relite windows at offices.
<b>Cabinets - Offices</b>	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to a master system. Quantity: As needed to accommodate office use.	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, and locks keyed to the building master key system. Quantity: As needed to accommodate office use.
<b>Cabinets - Support Spaces</b>	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to a master system. Quantity: As needed to accommodate support space use.	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to the building master key system. Quantity: As needed to accommodate support space use.
<b>Display Cases</b>	None.	Type: 12' deep, lockable display case with tackboard at back surface. Quantity: 8 LF at front enter foyer.
<b>Equipment - Large Conference Rooms</b>	Audio Visual Cart: Cart with computer and LCD Projector for each large conference room.	Audio Visual Cart: Cart with computer, LCD Projector and document camera for each large conference room.
<b>Equipment - Offices</b>	Computers: One computer, not exceeding 5 years in age, for each staff member. Printers: One laser printer, not exceeding 8 years in age, for each staff member.	Computers: One computer, not exceeding 4 years in age, for each staff member. Printers: One laser printer, not exceeding 6 years in age, for each staff member.

# ADMINISTRATION BUILDING

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Equipment - Public Meeting Room:</b>	LCD Projector and Document Camera: One projector with ceiling mount framework and document camera not exceeding 8 years in age per classroom.	LCD Projector and Document Camera: One projector with ceiling mount framework and document camera not exceeding 6 years in age per classroom.
<b>Equipment - Workrooms</b>	Copy Machines: One networked and one non-networked, 72 copies per minute machine, not exceeding 7 years in age. Two 25 copies per minute machines plus one color copy machine not exceeding 7 years in age. FAX Machine: Two machines, not exceeding 10 years in age.	Copy Machines: Two networked, 72 copies per minute machines, not exceeding 5 years in age. Two 25 copies per minute machines plus one color copy machine, not exceeding 5 years in age. FAX Machine: Two machines, not exceeding 6 years in age.
<b>Furniture - Conference Rooms</b>	Chairs: Hard plastic stacking chairs not exceeding 30 years in age at conference tables. Upholstered, adjustable chairs with wheels at computer tables. Conference tables: Plastic laminate surfaced tables not exceeding 30 years in age. Computer tables: Ten 30" x 48" computer tables in large conference room used as computer lab.	Chairs: Hard plastic stacking chairs not exceeding 25 years in age at conference tables. Upholstered, adjustable chairs with wheels at computer tables. Conference tables: Plastic laminate surfaced tables not exceeding 25 years in age. Computer tables: Twelve 30" x 48" computer tables in large conference room used as computer lab.
<b>Furniture - Offices</b>	Staff Chairs: Upholstered not exceeding 20 years in age. Staff Desks: Plastic laminate surfaced not exceeding 30 years in age. Tables: Plastic laminate surfaced not exceeding 30 years in age. File Cabinets: Metal not exceeding 40 years in age.	Staff Chairs: Upholstered not exceeding 15 years in age. Staff Desks: Plastic laminate surfaced not exceeding 20 years in age. Tables: Plastic laminate surfaced not exceeding 25 years in age. File Cabinets: Metal not exceeding 30 years in age.
<b>Furniture - Public Meeting Room</b>	Chairs: 11 upholstered, adjustable, chairs with wheels, not exceeding 25 years in age. 80 hard plastic stacking chairs not exceeding 30 years in age. Tables: Fixed plastic laminate or wood table with data outlets for 11 individuals. 6 movable plastic laminate surfaced 30" x 60" tables not exceeding 30 years in age.	Chairs: 12 upholstered, adjustable, chairs with wheels, not exceeding 20 years in age. 100 hard plastic stacking chairs not exceeding 25 years in age. Tables: Fixed plastic laminate or wood table with data outlets for 11 individuals. 8 movable plastic laminate surfaced 30" x 60" tables not exceeding 30 years in age.
<b>Furniture - Reception Areas</b>	Chairs: Four upholstered chairs at each reception area within building, two upholstered chairs at each waiting area within building, two moveable upholstered chairs at each work counter area. Work counter: 5' work counter at main reception area.	Chairs: Four upholstered chairs at each reception area within building, two upholstered chairs at each waiting area within building, two moveable upholstered chairs at each work counter area. Work counter: 6' work counter at main reception area and 5' work counter at other reception areas within building.
<b>Furniture - Staff Lounge</b>	Chairs: 12 hard plastic stacking chairs not exceeding 25 years in age. Two upholstered lounge chairs and one upholstered sofa not exceeding 25 years in age. Tables: Two plastic laminate surfaced 36" x 72" tables not exceeding 30 years in age.	Chairs: 16 upholstered hard plastic stacking chairs not exceeding 20 years in age. Two upholstered lounge chairs and two upholstered sofas not exceeding 20 years in age. Tables: Three plastic laminate surfaced 36" x 72" tables not exceeding 25 years in age.
<b>Furniture - Workrooms</b>	Tables: Plastic laminate surfaced not exceeding 30 years in age. File Cabinets: Metal not exceeding 40 years in age.	Tables: Plastic laminate surfaced not exceeding 25 years in age. File Cabinets: Metal not exceeding 30 years in age.
<b>Artwork and Photographs</b>	Public meeting room: Temporary student and staff artwork displays. Photographs of school board members. Corridors and entry foyer: Permanent artwork subject to approval of superintendent. Photographs of students and staff who have achieved state, regional or national recognition.	Public meeting room: Temporary student and staff artwork displays. Photographs of school board members. Corridors and entry foyer: Permanent artwork subject to approval of superintendent and mechanically attached to walls. Photographs of students and staff who have achieved state, regional or national recognition.

# ADMINISTRATION BUILDING

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Elevator</b>	Type: Hydraulic with acoustically isolated equipment room. Size: 80" W x 50" D interior cab size.	Type: Hydraulic with acoustically isolated equipment room. Size: 92" W x 65" D interior cab size.
<b>Vending Machines</b>	Type: Refrigerated and non-refrigerated machines with motion sensitive illumination control. Quantity: 2 machines. Location: At corridor area near staff lounge.	Type: Refrigerated and non-refrigerated machines with motion sensitive illumination control. Quantity: 3 machines. Location: At corridor area near staff lounge.
<b>MECHANICAL</b>		
<b>Fire Suppression System</b>	Fire sprinkler system: Wet or dry system in compliance with NFPA 13, and local building codes. Fire suppression: Chemical fire suppression system at computer equipment room.	Fire sprinkler system: Wet system in compliance with NFPA 13, local building codes and FM Global Data Sheets 2-8 and 3-6. Fire suppression: Chemical fire suppression system at computer equipment room.
<b>Plumbing Insulation</b>	Type: Insulation in compliance with building code at time of construction on domestic hot water lines.	Type: Insulation in compliance with current building code on domestic hot water lines and 1/2" insulation on domestic cold water lines.
<b>Domestic Water System</b>	Piping: Type L copper. Pumps: Bronze fitted pumps. Heating: Gas or electric heaters.	Piping: Type L copper. Pumps: All bronze pumps with isolation valves at both sides of pumps. Heating: Gas heaters.
<b>Domestic Water Quality</b>	Criteria: A maximum level of .015 mg/L (15ppb) of lead and 1.3 mg/L (1300 ppb) of copper in tap water.	Criteria: A maximum level of .015 mg/L (15ppb) of lead and 1.3 mg/L (1300 ppb) of copper in tap water.
<b>Soil and Waste</b>	Type: Cast iron pipe and fittings.	Type: Cast iron pipe and fittings.
<b>Plumbing Fixtures</b>	Water closets: Vitreous china. Urinals: Vitreous china. Lavatories: Vitreous china wall-hung sinks and stainless steel counter-mounted sinks. Drinking fountains: Vitreous china or stainless steel. Trap primers: None.	Water closets: ADA compliant, wall-hung vitreous china with water saving valves . Urinals: ADA compliant, wall-hung vitreous china with water saving valves. Lavatories: ADA compliant, vitreous china wall-hung sinks and stainless steel counter-mounted sinks with self-closing faucets. Drinking fountains: ADA compliant, stainless steel. Trap primers: Electronic trap primers with manual override.
<b>Natural Gas Piping</b>	Type: Black steel, Schedule 40 pipe with butt-weld fittings.	Type: Black steel, Schedule 40 pipe with butt-weld fittings.
<b>HVAC Duct Insulation</b>	Type: In compliance with building code at time of construction.	Type: In compliance with current building code.
<b>HVAC Pipe Insulation</b>	Type: In compliance with building code at time of construction.	Type: In compliance with current building code.
<b>Hydronic Piping</b>	Type: Type L copper or Schedule 40 black steel.	Type: Type L copper at piping below 2" diameter. Schedule 40 black steel at 2" diameter piping and above with welded or rolled grooved Victaulic fittings.
<b>Hydronic Pumps</b>	Type: Vertical in-line or base mounted end-suction pumps.	Type: Vertical in-line or base mounted end-suction pumps with redundant pumps for back-up.
<b>Refrigerant Piping</b>	Type: Type L hard drawn copper tube, refrigeration grade.	Type: Type L hard drawn copper tube, refrigeration grade.

# ADMINISTRATION BUILDING

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>HVAC Ductwork</b>	Metal ducts: Galvanized sheet metal. Non-metal ducts: Insulated, reinforced flexible duct with vapor barrier jacket.	Metal ducts: Galvanized sheet metal per SMACNA Standards with welded stainless steel at Kitchen exhaust hoods. Non-metal ducts: Insulated, reinforced flexible duct with vapor barrier jacket allowed at locations approved by school district.
<b>HVAC Fans</b>	Type: Forward curved or backward inclined units with 1" filters, non-asbestos flexible connections, standard motors, and belt guards.	Type: Forward curved or backward inclined units with neoprene flexible connections, high efficiency motors, belt guards, minimum two rows of coils, drain valves, and 2" filters contained in factory-built filter rack.
<b>HVAC - Conference Rooms</b>	Type: Temperature control shared by common areas, minimum 15% outside air supply, and mechanical cooling.	Type: Temperature control shared by common offices, minimum 20% outside air supply, and mechanical cooling.
<b>HVAC - Public Meeting Room</b>	Type: Individual temperature control, minimum 15% outside air supply, and mechanical cooling.	Type: Individual temperature control, minimum 20% outside air supply, and mechanical cooling.
<b>HVAC - Offices</b>	Type: Temperature control shared by common areas, minimum 15% outside air supply, and mechanical cooling.	Type: Temperature control shared by common offices, minimum 20% outside air supply, and mechanical cooling.
<b>HVAC - Workrooms</b>	Type: Individual temperature control and high capacity ventilation system where high volume photocopy machines are used.	Type: Individual temperature control and independent high capacity ventilation system where high volume photocopy machines are used.
<b>HVAC - Support Spaces</b>	Type: Heating and ventilation systems capable of maintaining comfortable temperature range and ventilation.	Type: Heating and ventilation systems capable of maintaining comfortable temperature range and provide ventilation supply in compliance with current codes.
<b>Air Terminal Units</b>	Type: Steel or aluminum units.	Type: Steel or aluminum units with bird screens at intakes.
<b>Boilers</b>	Type: Single gas fired hot water or steam boiler.	Type: Dual hot water, gas-fired, fire-tube, minimum 82% efficient, steel boilers each sized for 66% of load.
<b>Furnaces</b>	Type: Gas fired with 80% efficiency.	Type: Gas fired with minimum 80% efficiency.
<b>Heat Exchangers</b>	Type: Plate-type with 50% efficiency.	Type: Plate-type with 66% efficiency.
<b>Water Chillers</b>	Type: Air cooled with dual compressors.	Type: Dual air cooled units with minimum of 2 compressors each and sound attenuation treatment.
<b>Exhaust Fans</b>	Type: Steel utility or aluminum dome type. Location: Easily accessible for maintenance.	Type: Steel utility or aluminum dome type. Location: Non-kitchen exhaust fans located in catwalk or mechanical attic area, not on roof.
<b>Heat Pumps</b>	Type: Air cooled units. Location: One unit per zone.	Type: Air cooled units with automatic compressor lock out. Location: One unit per zone.
<b>Fan Coil Units</b>	Type: Units with steel housing, minimal filters, and no outside air.	Type: Units with steel housing, 1" filters, and damper controlled outside air .
<b>Unit Ventilators</b>	Type: Units with heavy-duty steel housing and capacity based on code required CFM.	Type: Units with heavy-duty steel housing, capacity based upon code required CFM, factory installed access panels and filter racks, and NC-35 sound rating.



# ADMINISTRATION BUILDING

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Unit Heaters</b>	Type: Propeller type gas or hot water units.	Type: Propeller type gas or hot water units.
<b>Automatic Controls</b>	Type: Direct digital control system with individual zone control and thermostat for each instructional space and office area, Local Operator's Station at building's Maintenance Office, and connected to Central Operator's Station at Support Services Center.	Type: Direct digital control system with BACnet automation system, individual zone control and thermostat for each instructional space and office area, Dynamic Data exchange, Local Operator's Station at building Maintenance Office, and connected to Central Operator's Station at Support Services Center.
<b>ELECTRICAL</b>		
<b>Transformers</b>	Type: Dry type with capacity for calculated load.	Type: Low noise, dry type with capacity for calculated load plus 20%.
<b>Switchgear</b>	Type: Fuse or circuit breaker type with capacity for calculated load.	Type: Fuse or circuit breaker type with capacity for calculated load plus 15% and includes 15% spares.
<b>Panel boards</b>	Type: Circuit breaker type.	Type: Circuit breaker type with 15% spares.
<b>Power Distribution</b>	Type: Copper for #1 wire or less. Copper or aluminum for wire greater than #1.	Type: Copper wire.
<b>Power Conditioning</b>	None.	Type: Transient voltage surge suppressors. Location: At panel boards for protection of lighting, receptacles and computers.
<b>Wiring Devices</b>	Type: 15 or 20 amp.	Type: 20 amp.
<b>Electrical Outlets - Offices</b>	Quantity: One duplex electrical receptacle for each staff workstation, one for each copy and fax machine, plus one at each wall.	Quantity: Two duplex electrical receptacles for each staff workstation, one for each copy and fax machine, plus one at each wall.
<b>Electrical Outlets - Public Meeting Rooms</b>	Quantity: One duplex electrical receptacle at each computer station at table used by board members. One duplex receptacle at ceiling mounted LCD projector. One duplex receptacle at 12' on center at walls.	Quantity: One duplex electrical receptacle at each computer station at table used by board members. One duplex receptacle at ceiling mounted LCD projector. One duplex receptacle at 8' on center at walls.
<b>Electrical Outlets - Support Spaces</b>	Quantity: One duplex electrical receptacle for each electrical equipment item, one at every 80' on center in corridors, plus one at 15' on center at each wall.	Quantity: One duplex electrical receptacles for each electrical equipment item, one at every 50' on center in corridors, plus one at 12' on center at each wall.
<b>Electrical Outlets - Workrooms</b>	Quantity: One duplex electrical receptacle for each copy machine, fax machine, and postage meter, plus one at 8' on center at work counters and one at each wall.	Quantity: One duplex electrical receptacle for each copy machine, fax machine, and postage meter, plus one at 6' on center at work counters and one at each wall.
<b>Electrical Outlets - Emergency Power</b>	Quantity: All duplex electrical receptacles connected to emergency generator.	Quantity: All duplex electrical receptacles connected to emergency generator.
<b>Circuit Protection Devices</b>	Type: Circuit breakers with fuses at selected equipment.	Type: Circuit breakers with fuses at selected equipment.
<b>Packaged Generator</b>	Type: Diesel-fired with belly or above ground tank and minimum 48-hour operation capability with capacity to operate emergency lighting, fire alarm system, telephone, intercom, telecommunications equipment, and selected electrical outlets.	Type: Diesel-fired with belly tank and minimum 48-hour operation capability with capacity to operate emergency lighting, stand-by lighting, fire alarm system, telephone, intercom, telecommunications equipment, and selected electrical outlets plus 10% additional capacity.

# ADMINISTRATION BUILDING

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Battery Equipment</b>	Type: Uninterrupted power supply for telephone, and energy management systems. Back-up battery for fire alarm system.	Type: Uninterrupted power supply for telephone, and energy management systems. Back-up battery for fire alarm system.
<b>Lighting - Exterior - Main Entry</b>	Type: Pole or building mounted fixtures with 5.0 foot-candle level controlled by photocell and EMS. Location: At front entrance between building and entry drive.	Type: Pole or building mounted fixtures with 8.0 foot-candle level controlled by photocell and EMS. Location: At front entrance between building and entry drive.
<b>Lighting - Exterior - Parking</b>	Type: Pole mounted fixtures with 0.8 foot-candle level controlled by photocell and EMS. Location: At parking lots.	Type: Pole mounted fixtures with 1.0 foot-candle level controlled by photocell and EMS. Location: At parking lots.
<b>Lighting - Exterior - Pathways</b>	Type: Pole or building mounted fixtures with 1.0 foot-candle level controlled by photocell and EMS. Location: At pathways around building and between building and parking areas.	Type: Pole or building mounted fixtures with 1.5 foot-candle level controlled by photocell and EMS. Location: At pathways around building and between building and parking areas.
<b>Lighting - Exterior - Service / Delivery</b>	Type: Pole or building mounted fixtures with 3.0 foot-candle level controlled by photocell and EMS with manual bypass timer. Location: At area between building and dumpsters.	Type: Pole or building mounted fixtures with 5.0 foot-candle level controlled by photocell and EMS with manual bypass timer. Location: At area between building and dumpsters.
<b>Lighting - Corridors</b>	Type: Fluorescent fixtures with a minimum 15 foot-candle level and a maximum of 0.8 watts per SF.	Type: T-8, T-5 and compact fluorescent fixtures with a minimum 15 foot-candle level and a maximum of 0.6 watts per SF.
<b>Lighting - Emergency</b>	Interior Pathways: An average of 1 foot-candle level at floor level at all paths of egress with a minimum of 0.3 foot-candle level at the center of paths of egress. Standby Lighting: One standby light fixture connected to emergency generator in each office, restroom and mechanical equipment space.	Interior Pathways: An average of 1 foot-candle level at floor level at all paths of egress with a minimum of 0.3 foot-candle level at the center of paths of egress. Standby Lighting: One standby light fixture connected to emergency generator in each office, restroom and mechanical equipment space.
<b>Lighting - Offices</b>	Type: Fluorescent fixtures with a minimum 50 foot-candle level and a maximum of 1.3 watts per SF.	Type: T-8 or T-5 fluorescent fixtures with parabolic louvers to control screen glare with a minimum 50 foot-candle level and a maximum of 1.1 watts per SF.
<b>Lighting - Restrooms</b>	Type: Fluorescent fixtures with a minimum 20 foot-candle level and a maximum of 1.1 watts per SF.	Type: T-8, T-5 and compact fluorescent fixtures with a minimum 20 foot-candle level and a maximum of 0.8 watts per SF.
<b>Lighting - Support Spaces</b>	Type: Fluorescent fixtures with a minimum 50 foot-candle level and a maximum of 1.3 watts per SF.	Type: T-8 or T-5 fluorescent fixtures with parabolic louvers to control screen glare with a minimum 50 foot-candle level and a maximum of 1.1 watts per SF.
<b>Automatic Lighting Control</b>	Exterior lighting: Time clock and photocell control.	Exterior lighting: EMS and photocell control with separate zones. Interior lighting: Occupancy sensors corridors.
<b>Exit Signs</b>	Type: In compliance with building code at time of construction.	Type: In compliance with current building code and connected to emergency generator.
<b>Data Communications Cabling</b>	Backbone: Optical fiber between MC and HC locations. Wiring: Category 3 cable between computer equipment and MC or HC.	Backbone: 6 pair multimode optical fiber between MC and HC locations. Wiring: Category 5e below grade and Category 6 above grade between computer equipment and MC or HC.

# ADMINISTRATION BUILDING

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Data Communications Equipment</b>	Filter: Granular site-based web content filtering. Router: 10 Mb WAN connectivity. Routing: Layer 3 capability in core switch at MC. Switch: 10 /100 / 1000 host capability. Traffic shaping: Site-based capability. WAN connectivity speed: 100 Mb. UPS: For routers, switches, and servers providing a minimum of 5 minutes of uninterrupted power.	Filter: Granular site-based web content filtering. Router: 100 Mb WAN connectivity. Routing: Layer 3 capability in core switch at MC. Switch: 10 /100 / 1000 host capability. Traffic shaping: Site-based capability. WAN connectivity speed: 1,000 Mb. UPS: For routers, switches, and servers providing a minimum of 10 minutes of uninterrupted power.
<b>Data Communications Outlets - Conference Rooms</b>	Quantity: Two data outlets in each small conference room. Four data outlets in each large conference room. 12 data outlets in large conference room used as a computer lab.	Quantity: Two data outlets in each small conference room. Four data outlets in each large conference room. 16 data outlets in large conference room used as a computer lab.
<b>Data Communications Outlets - Offices</b>	Quantity: One data outlet for each staff workstation and one for each printer.	Quantity: Two data outlets for each staff workstation and one for each printer.
<b>Data Communications Outlets - Public Meeting Room</b>	Quantity: 11 data outlets at table for board members. Two data outlets at projector screen.	Quantity: 12 data outlets at table for board members. Two data outlets at projector screen. 12 data outlets at perimeter of room.
<b>Data Communications Outlets - Support Spaces</b>	Quantity: One data receptacle for each computer station and one for each printer located within the space.	Quantity: One data receptacle for each computer station and one for each printer located within the space.
<b>Data Communications Outlets - Workrooms</b>	Quantity: One data outlet for networked copy machine.	Quantity: Two data outlets for networked copy machines plus two data outlets at perimeter wall.
<b>Wireless Data Communications</b>	None.	Type: Power and data outlets for secure wireless access and free-roaming capability in public meeting room, large conference rooms, and each floor of building.
<b>Telephone System</b>	Telephones: Digital PBX central exchange, voice mail system.	Telephones: Digital PBX central exchange, voice mail system.
<b>Sound System</b>	Public meeting room: Public address with built-in equipment rack, speakers, wireless microphone system and 11 microphone outlets at table for board members.	Commons: Digital audio public address system with built-in equipment rack, speakers, wireless microphone system, 12 microphone outlets at table for board members, and assistive listening system.
<b>Television System</b>	Public meeting room: One cable TV outlet.	Public meeting room: One cable TV outlet. Large conference rooms: One cable TV outlet in each room.
<b>Audio - Video System</b>	Public Meeting Room: One ceiling mounted video projector outlet.	Public Meeting Room: One ceiling mounted video projector outlet. Conference Room: One ceiling mounted video projector outlet.
<b>Intrusion Detection</b>	None.	Type: Multi-zone system with NAPCO control panel, keypad activation device, and passive infrared motion detectors. Location: Control panel in Maintenance office, keypad at main entry door. Detection devices in large office areas, large conference rooms used as computer lab, and corridors.
<b>Fire Detection and Alarm</b>	Type: Automatic detection system in compliance with building code at time of construction. Plastic guards with local alarm at pull stations. Location: Detection and alarm devices located in compliance with building code at time of construction and annunciator at front entry.	Type: Automatic addressable alarm and detection system in compliance with current building code. Plastic guards with local alarm at pull stations. Location: Detection and alarm devices located in compliance with current building code, control panel and printer in Maintenance Office, and graphic annunciator at front entry.

# ADMINISTRATIVE ANNEX

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>SITE AREAS</b>		
<b>Parking and Access - Service / Delivery</b>	Quantity: 1 delivery vehicle stall, 12' wide. Type: Asphalt, 20-year life. Location: Delivery stall adjacent to building.	Quantity: 1 delivery stall 12' wide. 1 maintenance vehicle stall, 10' wide. Type: 30-year life. Location: Delivery and maintenance stalls adjacent to building.
<b>Parking and Access - Staff</b>	Quantity: 12 stalls, 9' wide. Type: Asphalt, 20-year life. Location: Adjacent to or across street from building.	Quantity: 24 stalls, 9' wide. Type: Asphalt, 30-year life. Location: Adjacent to building.
<b>Parking and Access - Visitors</b>	Quantity: 4 stalls, 9' wide, ADA compliant. Type: Asphalt, 20-year life. Location: Adjacent to building.	Quantity: 6 stalls, 9' wide, ADA compliant. Type: 30-year life. Location: Adjacent to building.
<b>Street Frontage Sidewalks</b>	Type: 5' wide with ADA compliant curb cuts, asphalt.	Type: 6' wide with ADA compliant curb cuts, concrete.
<b>On-Site Walkways</b>	Type: 5' wide with ADA compliant curb cuts, asphalt.	Type: 6' wide with ADA compliant curb cuts, concrete.
<b>Stairs and Ramps</b>	Type: 4' wide, ADA compliant, concrete.	Type: 5' wide, ADA compliant, concrete with abrasive stair nosings at stairs and detectible warning pattern at ramps.
<b>Lawns</b>	Type: Irrigated grass turf. Location: At front of building, street frontage, and adjacent to landscape areas where suitable.	Type: Irrigated grass turf with concrete mow strip around posts and hydrants and where grass is adjacent to building. Location: At front of building, street frontage, and adjacent to landscape areas where suitable.
<b>Dumpster Area</b>	Type: Designated area to accommodate one 4 YD garbage dumpster and one 4 YD recycle dumpster. Location: Close to exterior door with direct access for refuse trucks.	Type: Designated area to accommodate one 4 YD garbage dumpster and one 4 YD recycle dumpster with screen walls on three sides. Location: Close to exterior door with direct access for refuse trucks.
<b>SITE IMPROVEMENTS</b>		
<b>Fences and Gates</b>	Type: Chainlink fencing at perimeter of property where adjacent to other property. 12' wide chainlink gates at all fence areas for direct vehicle access. Height: 6' high.	Type: Chainlink fencing at perimeter of property where adjacent to other property. 16' wide chainlink gates at all fence areas for direct vehicle access. Height: 6' high.
<b>Pipe Rail Gates and Railings</b>	Gates: 12' wide made from galvanized steel pipe with padlock hardware and reflective warning tape. Located at driveway access to staff parking lots that are not available for public use after work hours. Railings: Made from galvanized steel pipe.	Gates: 16' wide made from galvanized steel pipe with padlock hardware and reflective warning tape. Located at driveway to staff parking lots that are not available for public use after work hours. Railings: Made from galvanized steel pipe, ADA compliant.
<b>Retaining Walls</b>	Type: Concrete, segmental block or rockery.	Type: Concrete, segmental block or rockery.
<b>Bicycle Racks</b>	None.	Quantity: One rack with capacity for 6 bicycles. Type: Galvanized "ribbon" metal. Location: Adjacent to building.
<b>Dumpsters</b>	Quantity: One 4 YD garbage dumpster and one residential recycle container. Location: At dumpster area close to building.	Quantity: One 4 YD garbage dumpster and one 2 YD recycle dumpster. Location: At dumpster area close to building.
<b>Exterior Benches</b>	None.	Quantity: 1 at front of building. Type: Durable non-wood bench.

# ADMINISTRATIVE ANNEX

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Exterior Waste Receptacles</b>	None.	Quantity: One at main entry. Type: Painted metal container with push door dome top.
<b>Flag Pole</b>	Type: 20' painted metal. Location: Front of building and accessible from hard surface.	Type: 20' spun aluminum. Location: Front of building and accessible from hard surface.
<b>Traffic Control Signs</b>	Type: As needed for traffic and parking control. Location: At HC parking stalls, maintenance parking stalls, delivery vehicle stalls and parking lots.	Type: As needed for traffic and parking control. Location: At HC parking stalls, maintenance parking stalls, delivery vehicle stalls and parking lots.
<b>Pavement Markings</b>	Type: Painted lines for cross walks, stop bars, traffic arrows, parking stalls, HC parking symbols, and fire lanes. Location: At parking lots and entry driveways.	Type: Painted lines for parking stalls, HC parking symbols, and fire lanes. Thermoplastic markings for cross walks, stop bars and traffic arrows. Location: At parking lots and entry driveways.
<b>LANDSCAPING</b>		
<b>Shrubs / Groundcover</b>	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department with automated irrigation system. Location: At building perimeter, parking lot islands, and perimeter landscape buffers.	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department with automated irrigation system. Location: At building perimeter, parking lot islands, and perimeter landscape buffers.
<b>Trees</b>	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department. Location: At lawn areas, street frontage, parking lot islands, and perimeter landscape buffers.	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department. Location: At lawn areas, street frontage, parking lot islands, and perimeter landscape buffers.
<b>Irrigation System</b>	Type: Automated system with separate water meter. Location: At lawns and landscape areas.	Type: Automated system controlled by EMS with separate water meter. Location: At lawns and landscape areas.
<b>UTILITIES</b>		
<b>Water System</b>	Type: Ductile iron pipe with separate domestic and fire service systems, deduct meter for irrigation system, backflow preventer and FDC on fire system. Size: As required for flow requirements. Location: As required by local water purveyor.	Type: Ductile iron pipe with separate domestic and fire service systems, separate (non-deduct) meter for irrigation system, backflow preventer and FDC on fire system. Supplemental electronic meters for domestic and irrigation systems located in Main Mechanical Room and connected to EMS. Size: As required for flow requirements. Location: As required by local water purveyor with domestic and irrigation meters located close to building.
<b>Sanitary Sewer System</b>	Type: PVC or concrete pipe with positive slope in compliance with Dept. of Ecology "Orange Book". Size: 6" diameter side and main sewer. Location: As required by local sewer purveyor with manhole structures easily accessible for maintenance.	Type: PVC pipe with ductile iron pipe where cover is less than 24". Positive slope in compliance with Dept. of Ecology "Orange Book" and locking manhole covers. Size: 6" diameter side and 8" diameter main sewer. Location: As required by local sewer purveyor with manhole structures easily accessible for maintenance.

# ADMINISTRATIVE ANNEX

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Storm Drainage System</b>	Type: Concrete pipe, ductile iron, PVC or corrugated polyethylene pipe. Size: 4" diameter footing and roof drains. 8" diameter site storm drains. Location: As required by local jurisdiction with drainage structures easily accessible for maintenance.	Type: PVC or corrugated polyethylene pipe with ductile iron pipe where cover is less than 24". Locking grates and Type 2 manhole structures where invert is deeper than 60". Clean outs at the base of all downspouts and at ends of roof and footing drain lines. Size: 6" diameter footing and roof drains. 8" diameter site storm drains. Location: As required by local jurisdiction with drainage structures easily accessible for maintenance.
<b>Natural Gas Service</b>	Type: Capacity as required for building gas load provided in inches or pounds. Location: Underground with gas meter adjacent to exterior wall of building.	Type: Capacity in pounds as required for building gas load with a minimum of 2 pounds and supplemental electronic meter located in Main Mechanical Room and connected to EMS. Location: Underground with gas meter adjacent to exterior wall of building.
<b>Fuel Storage Tanks</b>	Underground storage tanks: Steel with corrosion-resistant coating. Locate close to equipment receiving fuel and below an area that is accessible for future excavation. Above ground storage tanks: Steel with corrosion protection and secondary containment area. Locate close to equipment receiving fuel.	Underground storage tanks: Not acceptable. Above ground storage tanks: Steel with corrosion protection and secondary containment area. Locate close to equipment receiving fuel.
<b>Electrical Service</b>	Type: As required for calculated electrical load. Location: Underground.	Type: As required for calculated electrical load plus 15% spares with fully coordinated over current protection. Location: Underground.
<b>Telephone Service</b>	Type: 6 voice grade Centrex lines. Size: 2" conduit. Location: Underground.	Type: 6 voice grade Centrex lines. Size: Two 4" conduit. Location: Underground.
<b>Internet Connection</b>	Type: One T1 line with 1.54 MB bandwidth. Location: Underground.	Type: Optical fiber with a 100 MB bandwidth. Location: Underground with spare 4" conduit for future expansion.
<b>Energy Usage - MBTUs per SF Building Area</b>	Annual usage: .0230 MBTUs per SF.	Annual usage: .0184 MBTUs per SF.
<b>Water Usage - Domestic Water per SF Building Area</b>	Annual usage: Average of last three years.	Annual usage: 80% of the average of the last three years.
<b>Water Usage - Irrigation Water per SF Landscape Area</b>	Annual usage: Average of last three years.	Annual usage: 80% of the average of the last three years.
<b>STRUCTURE</b>		
<b>Foundation</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>Floor Structure</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>Wall Structure - Bearing Walls</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>Wall Structure - Non Bearing Walls</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>Roof Structure</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.

# ADMINISTRATIVE ANNEX

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>BUILDING ENVELOPE</b>		
<b>Floors</b>	Ground level: Reinforced concrete slab-on-grade with vapor retarder and capillary break. Upper levels: Wood framing with plywood subfloor.	Ground level: Reinforced concrete slab-on-grade with vapor retarder and capillary break. Upper level: Reinforced concrete over wood or metal decking.
<b>Exterior Wall Surface</b>	Type: Cement board siding, metal siding, concrete or window wall.	Type: Masonry.
<b>Exterior Wall Insulation</b>	Type: R-11.	Type: R-19 or greater if required by code.
<b>Exterior Windows</b>	Quantity: 20 SF of glazing at each office, 20 SF of glazing at small conference rooms, and 40 SF of glazing at large conference rooms. Type: Fixed or operable sash metal frames with dual glazing. Location: At all offices and conference rooms.	Quantity: 24 SF of glazing at each office, 24 SF of glazing at small conference rooms, and 48 SF of glazing at large conference rooms. Type: Operable sash prefinished aluminum frames with 1/4" dual glazing, low E coating, and U-value less than 40. Location: At all offices and conference rooms.
<b>Exterior Doors</b>	Type: Solid core wood or 16-gauge painted hollow metal doors. Location: As required for ease of circulation and fire exiting. Size: 3' x 6'-8" except 3'-6" x 6'-8" door at loading dock and a pair of 3' x 6'-8" doors with removable mullion at exterior door of mechanical equipment spaces.	Type: 14-gauge hollow painted hollow metal door with hollow metal frame and U-value less than 40. Location: As required for ease of circulation and fire exiting. Size: 3' x 7' except oversized door at loading dock and a pair of 3' x 7' doors with removable mullion at exterior door of mechanical equipment spaces.
<b>Soffits</b>	Type: Painted wood.	Type: Painted MDO plywood or prefinished metal.
<b>Flashing</b>	Type: Painted metal.	Type: Pre-finished 24-gauge sheet metal.
<b>Trim</b>	Type: Painted wood.	Type: Pre-finished 24-gauge sheet metal.
<b>Gutters and Downspouts</b>	Gutters: Painted metal located at edge of roof. Downspouts: Painted PVC or metal.	Gutters: Pre-finished 22-gauge sheet metal field formed in continuous lengths located at edge of roof. Downspouts: Pre-finished 11-gauge sheet metal with rain diverters at roof valleys and connected to storm drainage system or rain garden.
<b>Roof Membrane</b>	Low-sloped roof: Built-up roofing with mineral cap sheet. Pitched roof: 30-year fiberglass composition shingles.	Low-sloped roof: Single-ply Hypolon membrane. Pitched roof: Pre-finished 24-gauge metal.
<b>Roof Insulation</b>	Type: R-19.	Type: R-38 or greater if required by code, installed at roof level.
<b>Roof Accessories</b>	Type: Painted metal. Location: Minimum 5' separation from roof drains, edges and valleys.	Type: Pre-finished metal with protected electrical receptacle at all mechanical equipment. Location: Minimum 10' separation from roof drains, edges and valleys.
<b>Skylights</b>	Type: Translucent glazing and 300-pound point load capacity.	Type: Translucent, dual-surface, reinforced plastic glazing with pre-finished aluminum frame and 300-pound point load capacity.
<b>Fall Arrest System</b>	Type: Fall protection roof anchors in compliance with UMC, WISHA and OSHA standards. Location: In compliance with WISHA and OSHA standards.	Type: Fall protection roof anchors and railings in compliance with UMC, WISHA and OSHA standards. Location: In compliance with UMC, WISHA and OSHA standards.

# ADMINISTRATIVE ANNEX

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>INTERIORS</b>		
<b>Floors - Corridors and Stairs</b>	Type: VCT or synthetic pile carpet with synthetic backing. Loose laid walk off mats with synthetic pile. Location: VCT or carpet at corridors and stairs. Walk off mats at exterior doors.	Type: Synthetic pile carpet with polypropylene / vinyl backing. Glue-down walk off mats with synthetic pile and polypropylene / vinyl backing. Location: Carpet at corridors and stairs. Walk off mats at exterior doors.
<b>Floors - Offices</b>	Carpet: Synthetic pile with synthetic backing.	Carpet: Synthetic pile with polypropylene / vinyl backing.
<b>Floors - Restrooms</b>	Type: Sheet vinyl or seamless resin flooring.	Type: Sheet vinyl or unglazed ceramic tile.
<b>Floors - Support Spaces</b>	Carpet: Synthetic pile with synthetic backing at reception areas, conference rooms, and staff lounge. VCT: 12" x 12" tile at storage and work rooms. Concrete: Sealed concrete at custodial, telecommunications, mechanical and electrical rooms. Plywood: Plywood floor deck at catwalks and mechanical attics in wood frame buildings.	Carpet: Synthetic pile with polypropylene / vinyl backing at reception areas, conference rooms, staff lounge and work rooms. VCT: 12" x 12" tile at storage and telecommunications rooms. Sheet vinyl: Vinyl sheet flooring at custodial rooms. Concrete: Sealed concrete at mechanical and electrical rooms, and at catwalks and mechanical attics in metal frame buildings. Plywood: Plywood floor deck at catwalks and mechanical attics in wood frame buildings.
<b>Walls - Corridors and Stairs</b>	Gypsum wallboard: Painted wallboard at corridors, stairs and entry areas.	Gypsum wallboard: Painted wallboard above wainscot in corridors, stairs, and entry areas. Wainscot: Painted veneer plaster, plastic laminate or MDF plywood at corridors, stairs and entry areas.
<b>Walls - Offices</b>	Type: Painted gypsum wallboard.	Type: Painted gypsum wallboard.
<b>Walls - Restrooms</b>	Gypsum wallboard: Painted wallboard above wainscot. Wainscot: Plastic laminate or ceramic tile behind lavatories and toilet fixtures.	Gypsum wallboard: Painted wallboard above wainscot. Wainscot: Plastic laminate or ceramic tile at all walls.
<b>Walls - Support Spaces</b>	Gypsum wallboard: Painted wallboard.	Gypsum wallboard: Painted wallboard. Wainscot: MDO or MDF wainscot in storage rooms 4' high.
<b>Asbestos-Containing Materials</b>	Criteria: Asbestos-containing building materials present in a facility shall be intact, undisturbed and included in an asbestos management plan in compliance with AHERA regulations.	Criteria: Asbestos-containing building materials shall not be present.
<b>Interior Doors</b>	Type: Solid core wood doors.	Type: Solid core wood doors.
<b>Door Hardware</b>	Locksets: Schlage or Corbin with keying that matches the school district's Schlage or Corbin Master Key system.	Closers and handles: ADA compliant. Door mullions: Removable and secured with key. Locksets: Schlage with Primus at exterior doors and keying that matches the school district's Schlage Great Grand Master Key system.
<b>Automatic Door Opener</b>	Type: ADA compliant with keyed power shut off at door. Location: At main entry door.	Type: ADA compliant with keyed power shut off at door. Location: At main entry door.



# ADMINISTRATIVE ANNEX

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Overhead Doors and Grilles</b>	Interior overhead doors and grilles: Manually operated up to 6' wide. Motorized operation when over 6' wide. Fire-rated overhead doors and grilles shall be activated by local smoke or heat detectors. Exterior overhead doors and grilles: Manually operated.	Interior overhead doors and grilles: Manually operated up to 6' wide. Motorized operation when over 6' wide. Fire-rated overhead doors and grilles shall be activated by local smoke or heat detectors. Exterior overhead doors and grilles: Manually operated up to 10' wide. Motorized operation when over 10' wide.
<b>Interior Windows</b>	Type: Wood or metal frame with glazing in compliance with applicable building codes.	Type: Wood or metal frame with glazing in compliance with applicable building codes.
<b>Operable Walls</b>	None.	Type: Folding panel partition with minimum STC 52. Location: At large conference rooms.
<b>Ceilings - Corridors and Stairs</b>	Type: Surface applied acoustical ceiling tile or suspended acoustical ceiling panels. Height: Minimum 9'.	Type: Surface applied acoustical ceiling tile or 2' x 2' suspended acoustical ceiling panels. Height: Minimum 10'.
<b>Ceilings - Offices</b>	Type: Surface applied acoustical ceiling tile or suspended acoustical ceiling panels. Height: Minimum 8'.	Type: Surface applied acoustical ceiling tile or suspended acoustical ceiling panels. Height: Minimum 9'.
<b>Ceilings - Restrooms</b>	Type: Surface applied or suspended acoustical ceiling tile. Height: Minimum 8'.	Type: Painted gypsum board. Height: Minimum 9'.
<b>Ceilings - Support Spaces</b>	Gypsum board: Custodial and mechanical rooms, minimum 8'-6" high. Acoustical ceiling: Surface applied or suspended acoustical ceiling tile in conference rooms, staff lounge, storage and workrooms, minimum 8' high.	Gypsum board: Custodial and mechanical rooms, minimum 9' high. Acoustical ceiling: Surface applied or suspended acoustical ceiling tile in conference rooms, public meeting, staff lounge, storage and workrooms, minimum 9' high.
<b>EQUIPMENT AND SPECIALTIES</b>		
<b>Marker Boards</b>	Quantity: One 4' board at small conference rooms. One 8' board at large conference rooms. Type: Ceramic coated steel.	Quantity: One 4' board at small conference rooms. One 8' board at large conference rooms. Type: Ceramic coated steel.
<b>Tackboards</b>	Quantity: 4' at offices and workrooms, 8' at staff lounge, 4' at small conference rooms, and 8' at large conference rooms. Type: Cedar, cork or vinyl-covered cork.	Quantity: 8' at offices and workrooms, 8' at staff lounge, 4' at small conference rooms, and 8' at large conference rooms. Type: Cork or vinyl-covered cork.
<b>Exterior Signage</b>	Type: Pre-finished lettering at front of building identifying building name and street number.	Type: Pre-finished metal lettering at front of building identifying building name and address.
<b>Interior Signage</b>	Type: High impact acrylic room signs with room name and number. Location: Room sign at main entry door to all rooms.	Type: ADA compliant high impact acrylic room signs with room name and number. Cast metal dedication plaque. Location: Room sign at main entry door to all rooms. Dedication plaque at entry lobby.
<b>Toilet Partitions</b>	Type: Plastic laminate covered fiber board. Location: Partitions at toilet stalls.	Type: Plastic laminate covered phenolic panels. Location: Partitions at toilet stalls and screens at urinals.
<b>Toilet Accessories</b>	Type: Mirrors, paper towel dispensers, soap dispensers, grab bars, tampon dispensers and sanitary napkin receptacles. Location: Mirrors at restroom hand wash areas. Paper towel and soap dispensers at all sinks. Grab bars at ADA accessible toilet stalls. Tampon dispenser and sanitary napkin receptacle at women's restrooms.	Type: ADA compliant mirrors, paper towel dispensers, soap dispensers, grab bars, tampon dispensers and sanitary napkin receptacles. Location: Mirrors at restroom hand wash areas. Paper towel and soap dispensers at all sinks. Grab bars at ADA accessible toilet stalls. Tampon dispenser and sanitary napkin receptacle at women's restrooms.

# ADMINISTRATIVE ANNEX

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Residential Appliances</b>	Type: Residential grade. Microwave oven: Portable microwave in staff lounge. Refrigerator: One large capacity refrigerator with freezer compartments in staff lounge.	Type: Residential grade, ADA compliant and ENERGY STAR qualified. Ranges: Electric range with oven at staff lounge. Exhaust hoods: Electric exhaust fan with removable and cleanable filters above range in staff lounge. Microwave ovens: Portable microwave in staff lounge. Refrigerator: One large capacity refrigerator with freezer compartment in staff lounge.
<b>Projection Screens</b>	Large conference rooms: 60" W x 60" H with manual operation.	Large conference rooms: 72" W x 72" H with manual operation.
<b>Window Covering</b>	Type: Horizontal louver blinds or roller shades at exterior windows. Horizontal louver mini-blinds at interior relite windows at offices.	Type: Horizontal louver blinds at exterior windows. Horizontal louver mini-blinds at interior relite windows at offices.
<b>Cabinets - Offices</b>	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to a master system. Quantity: As needed to accommodate office use.	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, and locks keyed to the building master key system. Quantity: As needed to accommodate office use.
<b>Cabinets - Support Spaces</b>	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to a master system. Quantity: As needed to accommodate support space use.	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to the building master key system. Quantity: As needed to accommodate support space use.
<b>Equipment - Large Conference Rooms</b>	Audio Visual Cart: Cart with computer and LCD Projector for each large conference room.	Audio Visual Cart: Cart with computer, LCD Projector and document camera for each large conference room.
<b>Equipment - Offices</b>	Computers: One computer, not exceeding 5 years in age, for each staff member. Printers: One laser printer, not exceeding 8 years in age, for each staff member.	Computers: One computer, not exceeding 4 years in age, for each staff member. Printers: One laser printer, not exceeding 6 years in age, for each staff member.
<b>Equipment - Workrooms</b>	Copy Machines: One 72 copies per minute machine, not exceeding 7 years in age. FAX Machine: One machine, not exceeding 10 years in age.	Copy Machines: One networked, 72 copies per minute machine, not exceeding 7 years in age. FAX Machine: One machine, not exceeding 10 years in age.
<b>Furniture - Conference Rooms</b>	Chairs: Hard plastic stacking chairs not exceeding 30 years in age at conference tables. Conference tables: Plastic laminate surfaced tables not exceeding 30 years in age.	Chairs: Hard plastic stacking chairs not exceeding 25 years in age at conference tables. Conference tables: Plastic laminate surfaced tables not exceeding 25 years in age.
<b>Furniture - Offices</b>	Staff Chairs: Upholstered not exceeding 20 years in age. Staff Desks: Plastic laminate surfaced not exceeding 30 years in age. Tables: Plastic laminate surfaced not exceeding 30 years in age. File Cabinets: Metal not exceeding 40 years in age.	Staff Chairs: Upholstered not exceeding 15 years in age. Staff Desks: Plastic laminate surfaced not exceeding 20 years in age. Tables: Plastic laminate surfaced not exceeding 25 years in age. File Cabinets: Metal not exceeding 30 years in age.
<b>Furniture - Reception Areas</b>	Chairs: Five upholstered chairs and two moveable upholstered chairs at work counter .	Chairs: Six upholstered chairs and two moveable upholstered chairs at work counter . Work counter: 4' work counter.
<b>Furniture - Staff Lounge</b>	Chairs: 6 hard plastic stacking chairs not exceeding 25 years in age. Two upholstered lounge chairs not exceeding 25 years in age. Tables: One plastic laminate surfaced 36" x 72" table not exceeding 30 years in age.	Chairs: 12 upholstered hard plastic stacking chairs not exceeding 20 years in age. Two upholstered lounge chairs not exceeding 20 years in age. Tables: Two plastic laminate surfaced 36" x 72" tables not exceeding 25 years in age.

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## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Furniture - Workrooms</b>	Tables: Plastic laminate surfaced not exceeding 30 years in age. File Cabinets: Metal not exceeding 40 years in age.	Tables: Plastic laminate surfaced not exceeding 25 years in age. File Cabinets: Metal not exceeding 30 years in age.
<b>Artwork and Photographs</b>	Corridors and entry foyer: Permanent artwork and photographs subject to approval of building administrator.	Corridors and entry foyer: Permanent artwork and photographs subject to approval of building administrator.
<b>Elevator</b>	Type: Hydraulic with acoustically isolated equipment room. Size: 68" W x 50" D interior cab size.	Type: Hydraulic with acoustically isolated equipment room. Size: 80" W x 50" D interior cab size.
<b>Vending Machines</b>	Type: Refrigerated or non-refrigerated machines with motion sensitive illumination control. Quantity: 1 machines. Location: At corridor area near or within staff lounge.	Type: Refrigerated and non-refrigerated machines with motion sensitive illumination control. Quantity: 2 machines. Location: At corridor area near or within staff lounge.
<b>MECHANICAL</b>		
<b>Fire Suppression System</b>	Fire sprinkler system: Wet or dry system in compliance with NFPA 13, and local building codes. Fire suppression: Chemical fire suppression system at computer equipment room.	Fire sprinkler system: Wet system in compliance with NFPA 13, local building codes and FM Global Data Sheets 2-8 and 3-6. Fire suppression: Chemical fire suppression system at computer equipment room.
<b>Plumbing Insulation</b>	Type: Insulation in compliance with building code at time of construction on domestic hot water lines.	Type: Insulation in compliance with current building code on domestic hot water lines and 1/2" insulation on domestic cold water lines.
<b>Domestic Water System</b>	Piping: Type L copper. Pumps: Bronze fitted pumps. Heating: Gas or electric heaters.	Piping: Type L copper. Pumps: All bronze pumps with isolation valves at both sides of pumps. Heating: Gas heaters.
<b>Domestic Water Quality</b>	Criteria: A maximum level of .015 mg/L (15ppb) of lead and 1.3 mg/L (1300 ppb) of copper in tap water.	Criteria: A maximum level of .015 mg/L (15ppb) of lead and 1.3 mg/L (1300 ppb) of copper in tap water.
<b>Soil and Waste</b>	Type: Cast iron pipe and fittings.	Type: Cast iron pipe and fittings.
<b>Plumbing Fixtures</b>	Water closets: Vitreous china. Urinals: Vitreous china. Lavatories: Vitreous china wall-hung sinks and stainless steel counter-mounted sinks. Drinking fountains: Vitreous china or stainless steel. Trap primers: None.	Water closets: ADA compliant, wall-hung vitreous china with water saving valves . Urinals: ADA compliant, wall-hung vitreous china with water saving valves. Lavatories: ADA compliant, vitreous china wall-hung sinks and stainless steel counter-mounted sinks with self-closing faucets. Drinking fountains: ADA compliant, stainless steel. Trap primers: Electronic trap primers with manual override.
<b>Natural Gas Piping</b>	Type: Black steel, Schedule 40 pipe with butt-weld fittings.	Type: Black steel, Schedule 40 pipe with butt-weld fittings.
<b>HVAC Duct Insulation</b>	Type: In compliance with building code at time of construction.	Type: In compliance with current building code.
<b>HVAC Pipe Insulation</b>	Type: In compliance with building code at time of construction.	Type: In compliance with current building code.
<b>Hydronic Piping</b>	Type: Type L copper or Schedule 40 black steel.	Type: Type L copper at piping below 2" diameter. Schedule 40 black steel at 2" diameter piping and above with welded or rolled grooved Victaulic fittings.
<b>Hydronic Pumps</b>	Type: Vertical in-line or base mounted end-suction pumps.	Type: Vertical in-line or base mounted end-suction pumps with redundant pumps for back-up.

# ADMINISTRATIVE ANNEX

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Refrigerant Piping</b>	Type: Type L hard drawn copper tube, refrigeration grade.	Type: Type L hard drawn copper tube, refrigeration grade.
<b>HVAC Ductwork</b>	Metal ducts: Galvanized sheet metal. Non-metal ducts: Insulated, reinforced flexible duct with vapor barrier jacket.	Metal ducts: Galvanized sheet metal per SMACNA Standards with welded stainless steel at Kitchen exhaust hoods. Non-metal ducts: Insulated, reinforced flexible duct with vapor barrier jacket allowed at locations approved by school district.
<b>HVAC Fans</b>	Type: Forward curved or backward inclined units with 1" filters, non-asbestos flexible connections, standard motors, and belt guards.	Type: Forward curved or backward inclined units with neoprene flexible connections, high efficiency motors, belt guards, minimum two rows of coils, drain valves, and 2" filters contained in factory-built filter rack.
<b>HVAC - Conference Rooms</b>	Type: Temperature control shared by common areas, minimum 15% outside air supply, and mechanical cooling.	Type: Temperature control shared by common offices, minimum 20% outside air supply, and mechanical cooling.
<b>HVAC - Offices</b>	Type: Temperature control shared by common areas, minimum 15% outside air supply, and mechanical cooling.	Type: Temperature control shared by common offices, minimum 20% outside air supply, and mechanical cooling.
<b>HVAC - Workroom</b>	Type: Individual temperature control and high capacity ventilation system where high volume photocopy machines are used.	Type: Individual temperature control and independent high capacity ventilation system where high volume photocopy machines are used.
<b>HVAC - Support Spaces</b>	Type: Heating and ventilation systems capable of maintaining comfortable temperature range and ventilation.	Type: Heating and ventilation systems capable of maintaining comfortable temperature range and providing ventilation supply in compliance with current codes.
<b>Air Terminal Units</b>	Type: Steel or aluminum units.	Type: Steel or aluminum units with bird screens at intakes.
<b>Boilers</b>	Type: Single gas fired hot water or steam boiler.	Type: Dual hot water, gas-fired, fire-tube, minimum 82% efficient, steel boilers each sized for 66% of load.
<b>Furnaces</b>	Type: Gas fired with 80% efficiency.	Type: Gas fired with minimum 80% efficiency.
<b>Heat Exchangers</b>	Type: Plate-type with 50% efficiency.	Type: Plate-type with 66% efficiency.
<b>Water Chillers</b>	Type: Air cooled with dual compressors.	Type: Dual air cooled units with minimum of 2 compressors each and sound attenuation treatment.
<b>Exhaust Fans</b>	Type: Steel utility or aluminum dome type. Location: Easily accessible for maintenance.	Type: Steel utility or aluminum dome type. Location: Non-kitchen exhaust fans located in catwalk or mechanical attic area, not on roof.
<b>Heat Pumps</b>	Type: Air cooled units. Location: One unit per zone.	Type: Air cooled units with automatic compressor lock out. Location: One unit per zone.
<b>Fan Coil Units</b>	Type: Units with steel housing, minimal filters, and no outside air.	Type: Units with steel housing, 1" filters, and damper controlled outside air .
<b>Unit Ventilators</b>	Type: Units with heavy-duty steel housing and capacity based on code required CFM.	Type: Units with heavy-duty steel housing, capacity based upon code required CFM, factory installed access panels and filter racks, and NC-35 sound rating.

# ADMINISTRATIVE ANNEX

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Unit Heaters</b>	Type: Propeller type gas or hot water units.	Type: Propeller type gas or hot water units.
<b>Automatic Controls</b>	Type: Direct digital control system with individual zone control and thermostat for each instructional space and office area, Local Operator's Station at building's Maintenance Office, and connected to Central Operator's Station at Support Services Center.	Type: Direct digital control system with BACnet automation system, individual zone control and thermostat for each instructional space and office area, Dynamic Data exchange, Local Operator's Station at building Maintenance Office, and connected to Central Operator's Station at Support Services Center.
<b>ELECTRICAL</b>		
<b>Transformers</b>	Type: Dry type with capacity for calculated load.	Type: Low noise, dry type with capacity for calculated load plus 20%.
<b>Switchgear</b>	Type: Fuse or circuit breaker type with capacity for calculated load.	Type: Fuse or circuit breaker type with capacity for calculated load plus 15% and includes 15% spares.
<b>Panel boards</b>	Type: Circuit breaker type.	Type: Circuit breaker type with 15% spares.
<b>Power Distribution</b>	Type: Copper for #1 wire or less. Copper or aluminum for wire greater than #1.	Type: Copper wire.
<b>Power Conditioning</b>	None.	Type: Transient voltage surge suppressors. Location: At panel boards for protection of lighting, receptacles and computers.
<b>Wiring Devices</b>	Type: 15 or 20 amp.	Type: 20 amp.
<b>Electrical Outlets - Offices</b>	Quantity: One duplex electrical receptacle for each staff workstation, one for each copy and fax machine, plus one at each wall.	Quantity: Two duplex electrical receptacles for each staff workstation, one for each copy and fax machine, plus one at each wall.
<b>Electrical Outlets - Support Spaces</b>	Quantity: One duplex electrical receptacle for each electrical equipment item, one at every 80' on center in corridors, plus one at 15' on center at each wall.	Quantity: One duplex electrical receptacles for each electrical equipment item, one at every 50' on center in corridors, plus one at 12' on center at each wall.
<b>Electrical Outlets - Workrooms</b>	Quantity: One duplex electrical receptacle for each copy machine, fax machine, and postage meter, plus one at 8' on center at work counters and one at each wall.	Quantity: One duplex electrical receptacle for each copy machine, fax machine, and postage meter, plus one at 6' on center at work counters and one at each wall.
<b>Electrical Outlets - Emergency Power</b>	None.	Quantity: Duplex electrical receptacles connected to emergency generator at MC and HC Rooms, Main Mechanical Room, and main office area, and building administrator's office.
<b>Circuit Protection Devices</b>	Type: Circuit breakers with fuses at selected equipment.	Type: Circuit breakers with fuses at selected equipment.
<b>Packaged Generator</b>	None.	Type: Diesel-fired with belly tank and minimum 48-hour operation capability with capacity to operate emergency lighting, stand-by lighting, fire alarm system, telecommunications equipment, and selected electrical outlets plus 10% additional capacity.
<b>Battery Equipment</b>	Type: Uninterrupted power supply for telephone, and energy management systems. Back-up battery for fire alarm system.	Type: Uninterrupted power supply for telephone, and energy management systems. Back-up battery for fire alarm system.

# ADMINISTRATIVE ANNEX

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Lighting - Exterior - Main Entry</b>	Type: Pole or building mounted fixtures with 5.0 foot-candle level controlled by photocell and EMS. Location: At front entrance between building and entry drive.	Type: Pole or building mounted fixtures with 8.0 foot-candle level controlled by photocell and EMS. Location: At front entrance between building and entry drive.
<b>Lighting - Exterior - Parking</b>	Type: Pole mounted fixtures with 0.8 foot-candle level controlled by photocell and EMS. Location: At parking lots.	Type: Pole mounted fixtures with 1.0 foot-candle level controlled by photocell and EMS. Location: At parking lots.
<b>Lighting - Exterior - Pathways</b>	Type: Pole or building mounted fixtures with 1.0 foot-candle level controlled by photocell and EMS. Location: At pathways around building and between building and parking areas.	Type: Pole or building mounted fixtures with 1.5 foot-candle level controlled by photocell and EMS. Location: At pathways around building and between building and parking areas.
<b>Lighting - Exterior - Service / Delivery</b>	Type: Pole or building mounted fixtures with 3.0 foot-candle level controlled by photocell and EMS with manual bypass timer. Location: At area between building and dumpsters.	Type: Pole or building mounted fixtures with 5.0 foot-candle level controlled by photocell and EMS with manual bypass timer. Location: At area between building and dumpsters.
<b>Lighting - Corridors</b>	Type: Fluorescent fixtures with a minimum 15 foot-candle level and a maximum of 0.8 watts per SF.	Type: T-8, T-5 and compact fluorescent fixtures with a minimum 15 foot-candle level and a maximum of 0.6 watts per SF.
<b>Lighting - Emergency</b>	Interior Pathways: An average of 1 foot-candle level at floor level at all paths of egress with a minimum of 0.3 foot-candle level at the center of paths of egress. Standby Lighting: One standby light fixture connected to emergency generator in each office, restroom and mechanical equipment space.	Interior Pathways: An average of 1 foot-candle level at floor level at all paths of egress with a minimum of 0.3 foot-candle level at the center of paths of egress. Standby Lighting: One standby light fixture connected to emergency generator in each office, restroom and mechanical equipment space.
<b>Lighting - Offices</b>	Type: Fluorescent fixtures with a minimum 50 foot-candle level and a maximum of 1.3 watts per SF.	Type: T-8 or T-5 fluorescent fixtures with parabolic louvers to control screen glare with a minimum 50 foot-candle level and a maximum of 1.1 watts per SF.
<b>Lighting - Restrooms</b>	Type: Fluorescent fixtures with a minimum 20 foot-candle level and a maximum of 1.1 watts per SF.	Type: T-8, T-5 and compact fluorescent fixtures with a minimum 20 foot-candle level and a maximum of 0.8 watts per SF.
<b>Lighting - Support Spaces</b>	Type: Fluorescent fixtures with a minimum 50 foot-candle level and a maximum of 1.3 watts per SF.	Type: T-8 or T-5 fluorescent fixtures with parabolic louvers to control screen glare with a minimum 50 foot-candle level and a maximum of 1.1 watts per SF.
<b>Automatic Lighting Control</b>	Exterior lighting: Time clock and photocell control.	Exterior lighting: EMS and photocell control with separate zones. Interior lighting: Occupancy sensors corridors.
<b>Exit Signs</b>	Type: In compliance with building code at time of construction.	Type: In compliance with current building code and connected to emergency generator.
<b>Data Communications Cabling</b>	Backbone: Optical fiber between MC and HC locations. Wiring: Category 3 cable between computer equipment and MC or HC.	Backbone: 6 pair multimode optical fiber between MC and HC locations. Wiring: Category 5e below grade and Category 6 above grade between computer equipment and MC or HC.
<b>Data Communications Equipment</b>	Filter: Granular site-based web content filtering. Router: 10 Mb WAN connectivity. Routing: Layer 3 capability in core switch at MC. Switch: 10 /100 / 1000 host capability. Traffic shaping: Site-based capability. WAN connectivity speed: 10 Mb. UPS: For routers, switches, and servers providing a minimum of 5 minutes of uninterrupted power.	Filter: Granular site-based web content filtering. Router: 100 Mb WAN connectivity. Routing: Layer 3 capability in core switch at MC. Switch: 10 /100 / 1000 host capability. Traffic shaping: Site-based capability. WAN connectivity speed: 1,000 Mb. UPS: For routers, switches, and servers providing a minimum of 10 minutes of uninterrupted power.

# ADMINISTRATIVE ANNEX

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Data Communications Outlets - Conference Rooms</b>	Quantity: Two data outlets in each small conference room. Four data outlets in each large conference room.	Quantity: Two data outlets in each small conference room. Four data outlets in each large conference room.
<b>Data Communications Outlets - Offices</b>	Quantity: One data outlet for each staff workstation and one for each printer.	Quantity: Two data outlets for each staff workstation and one for each printer.
<b>Data Communications Outlets - Support Spaces</b>	Quantity: One data receptacle for each computer station and one for each printer located within the space.	Quantity: One data receptacle for each computer station and one for each printer located within the space.
<b>Data Communications Outlets - Workrooms</b>	Quantity: One data outlet for networked copy machine.	Quantity: Two data outlets for networked copy machines plus two additional outlets at a perimeter wall.
<b>Wireless Data Communications</b>	None.	Type: Power and data outlets for secure wireless access and free-roaming capability at each floor of building.
<b>Telephone System</b>	Telephones: Digital PBX central exchange, voice mail system.	Telephones: Digital PBX central exchange, voice mail system.
<b>Television System</b>	None.	Large conference rooms: One cable TV outlet in each room.
<b>Intrusion Detection</b>	None.	Type: Multi-zone system with NAPCO control panel, keypad activation device, and passive infrared motion detectors. Location: Control panel in Maintenance office, keypad at main entry door. Detection devices in large office areas and corridors.
<b>Fire Detection and Alarm</b>	Type: Automatic detection system in compliance with building code at time of construction. Plastic guards with local alarm at pull stations. Location: Detection and alarm devices located in compliance with building code at time of construction and annunciator at front entry.	Type: Automatic addressable alarm and detection system in compliance with current building code. Plastic guards with local alarm at pull stations. Location: Detection and alarm devices located in compliance with current building code, control panel and printer in Maintenance Office, and graphic annunciator at front entry.

# AUBURN MEMORIAL STADIUM

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>SITE AREAS</b>		
<b>Parking and Access - Service / Delivery</b>	Quantity: Service and delivery access without designated parking stalls. Type: Asphalt, 20-year life. Location: Service and delivery access at Home and Visitor sides of stadium with delivery access to all buildings.	Quantity: Service and delivery access without designated parking stalls. Type: Asphalt, 30-year life. Location: Service and delivery access at Home and Visitor sides of stadium with delivery access to all buildings.
<b>Parking and Access - Staff</b>	Quantity: 1 stall, 9' wide. Type: Asphalt, 20-year life. Location: At AHS parking lot.	Quantity: 1 stall, 9' wide. Type: Asphalt, 30-year life. Location: At stadium parking lot.
<b>Parking and Access - Spectators</b>	Quantity: 1335 stalls, 9' wide. Type: Asphalt, 20-year life. Location: Off-street and on-street parking stalls within the general vicinity of the stadium.	Quantity: 1335 stalls, 9' wide. Type: Asphalt, 30-year life. Location: Off-street parking stalls within the general vicinity of the stadium.
<b>Street Frontage Sidewalks</b>	Type: 6' wide with ADA compliant curb cuts, asphalt.	Type: 8' wide with ADA compliant curb cuts, concrete.
<b>On-Site Walkways</b>	Type: 6' wide with ADA compliant curb cuts, asphalt.	Type: 8' wide with ADA compliant curb cuts, concrete.
<b>Stairs and Ramps</b>	Type: 4' wide, ADA compliant, concrete.	Type: 6' wide, ADA compliant, concrete with abrasive stair nosings at stairs and detectible warning pattern at ramps.
<b>Lawns</b>	Type: Irrigated grass turf. Location: Adjacent to landscape areas where suitable.	Type: Irrigated grass turf with concrete mow strip around posts and hydrants and where grass is adjacent to building. Location: Adjacent to landscape areas where suitable.
<b>Grass Athletic Fields</b>	Quantity: 1 soccer / football field with one of the field large enough and adequately isolated to safely accommodate discuss and javelin throw. Type: Grass turf with automated irrigation system. Location: Convenient access from locker rooms.	Quantity: 1 soccer / football field with one of the field large enough and adequately isolated to safely accommodate discuss and javelin throw. Type: Grass turf with subdrain system, sand topsoil mix and automated irrigation system. Location: Convenient access from locker rooms.
<b>Athletic Surfacing</b>	Football / Soccer field: Artificial turf. Track: Rubberized running surface. Pole vault and high jump: Rubberized runway. Shot put: Two cinder surface throwing areas. Long jump: Rubberized runway, sand pit.	Football / Soccer field: Artificial turf, infill type. Track: Rubberized running surface. Pole vault and high jump: Rubberized runway. Shot put: Two cinder surface throwing areas. Long jump: Rubberized runway, sand pit.
<b>Dumpster Area</b>	Type: Designated areas to accommodate one 6 YD garbage dumpster.. Location: At Home side of stadium with efficient access from Home grandstand and accessible for pick-up by refuse trucks.	Type: Designated areas to accommodate one 6 YD garbage dumpsters and one 4 YD recycle dumpsters. Location: At Home side of stadium with efficient access from Home grandstand and accessible for pick-up by refuse trucks. Visually screened on three sides.
<b>SITE IMPROVEMENTS</b>		
<b>Fences and Gates</b>	Type: Chainlink fencing at perimeter of property, at perimeter of grass athletic field, and at perimeter of track. 12' wide chainlink gates at all fence areas for direct vehicle access. Jogger's gate with access to track and keyed to school district master key system. Height: 6' high at perimeter of property and grass athletic field. 3' high at fence between track and spectator area.	Type: Chainlink fencing at perimeter of property, at perimeter of grass athletic field, and at perimeter of track. 16' wide chainlink gates at all fence areas for direct vehicle access. Jogger's gate with access to track and keyed to school district master key system. Height: 6' high at perimeter of property and grass athletic field. 3'-6" high at fence between track and spectator area.



# AUBURN MEMORIAL STADIUM

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Pipe Rail Gates and Railings</b>	Gates: 12' wide made from galvanized steel pipe with padlock hardware and reflective warning tape. Located at driveway access to Home and Visitor side stadium area. Railings: Made from galvanized steel pipe.	Gates: 16' wide made from galvanized steel pipe with padlock hardware and reflective warning tape. Located at driveway access to Home and Visitor side stadium area. Railings: Made from galvanized steel pipe, ADA compliant.
<b>Retaining Walls</b>	Type: Concrete, segmental block or rockery.	Type: Concrete, segmental block or rockery.
<b>Bicycle Racks</b>	None.	Quantity: Racks for 12 bikes. Type: Galvanized metal. Location: At entry area to stadium.
<b>Dumpsters</b>	Garbage dumpsters: One 6 YD dumpsters located at Home side of stadium. Recycle dumpsters: None.	Garbage dumpsters: One 6 YD dumpsters located at Home side of stadium. Recycle dumpsters: One 4 YD dumpster located at Home side of stadium.
<b>Exterior Benches</b>	None.	Quantity: Two 6' benches at entry to Home side of stadium. Type: Durable non-wood material.
<b>Exterior Waste Receptacles</b>	Quantity: Two each at entries to Home and Visitor sides of stadium. 6 at Home spectator area and 4 at Visitor spectator area. Type: Heavy-duty galvanized can with push door dome top.	Quantity: Two each at entries to Home and Visitor sides of stadium. 8 at Home spectator area and 6 at Visitor spectator area. Type: Heavy-duty galvanized can with push door dome top.
<b>Grandstand Bleachers</b>	Quantity: Seating for 2400 spectators at Home grandstand and 1000 at Visitor grandstand. Type: Aluminum planks attached to concrete stadium structure.	Quantity: Seating for 2800 spectators at Home grandstand and 1150 at Visitor grandstand. Type: Aluminum planks attached to concrete stadium structure.
<b>Flag Pole</b>	Type: 25' painted metal. Location: At front of stadium.	Type: 40' spun aluminum with internal halyard. Location: At front of stadium and accessible from hard surface.
<b>Scoreboard</b>	Type: Electronic scoreboard with timing and scoring capability for two teams for football, soccer and track. 7' H x 16' W with field name caption at top of scoreboard. Location: At one end of track.	Type: Electronic scoreboard with timing and scoring capability for two teams for football, soccer and track. 9' H x 18' W with wireless control capability, field name caption at top of scoreboard and concrete pad at base of scoreboard. Location: At one end of track.
<b>Reader Board</b>	Type: Electronic message display sign with control center at stadium. Location: At street in front of stadium.	Type: Electronic message display sign with control center at Auburn High School Activities office. Location: At street in front of stadium.
<b>Traffic Control Signs</b>	Type: As needed for traffic and parking control. Location: At HC parking stalls, parking lots and entry driveways.	Type: As needed for traffic and parking control. Location: At HC parking stalls, parking lots and entry driveways.
<b>Pavement Markings</b>	Type: Painted lines at cross walks, stop bars, traffic arrows, parking stalls, HC parking symbol and fire lanes. Location: At parking lots and entry driveways.	Type: Painted lines at parking stalls, HC parking symbols, and fire lanes. Thermoplastic markings at cross walks, stop bars and traffic arrows.. Location: At parking lots and entry driveways.
<b>LANDSCAPING</b>		
<b>Shrubs / Groundcover</b>	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department with automated irrigation system. Location: At building perimeter, parking lot islands, and perimeter landscape buffers.	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department with automated irrigation system. Location: At building perimeter, parking lot islands, and perimeter landscape buffers.

# AUBURN MEMORIAL STADIUM

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Trees</b>	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department. Location: At lawn areas, street frontage, parking lot islands, and perimeter landscape buffers.	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department. Location: At lawn areas, street frontage, parking lot islands, and perimeter landscape buffers.
<b>Wetlands</b>	Type: As required by ordinance with temporary irrigation system. Location: As required by ordinance.	Type: As required by ordinance with temporary irrigation system. Location: As required by ordinance.
<b>Irrigation System</b>	Type: Automated system with separate water meter. Location: At lawns, grass athletic fields, landscape areas and wetlands.	Type: Automated system controlled by EMS with separate water meter. Location: At lawns, grass athletic fields, landscape areas and wetlands.
<b>UTILITIES</b>		
<b>Water System</b>	Type: Ductile iron pipe with separate domestic and fire service systems, deduct meter for irrigation system, backflow preventer and FDC on fire system. Size: As required for flow requirements. Location: As required by local water purveyor.	Type: Ductile iron pipe with separate domestic and fire service systems, separate (non-deduct) meter for irrigation system, backflow preventer and FDC on fire system. Supplemental electronic meters for domestic and irrigation systems located in Main Mechanical Room and connected to EMS. Size: As required for flow requirements. Location: As required by local water purveyor with domestic and irrigation meters located close to building.
<b>Sanitary Sewer System</b>	Type: PVC or concrete pipe with positive slope in compliance with Dept. of Ecology "Orange Book". Size: 6" diameter side and main sewer. Location: As required by local sewer purveyor with manhole structures easily accessible for maintenance.	Type: PVC pipe with ductile iron pipe where cover is less than 24". Positive slope in compliance with Dept. of Ecology "Orange Book" and locking manhole covers. Size: 6" diameter side and 8" diameter main sewer. Location: As required by local sewer purveyor with manhole structures easily accessible for maintenance.
<b>Storm Drainage System</b>	Type: Concrete pipe, ductile iron, PVC or corrugated polyethylene pipe. Size: 4" diameter footing and roof drains. 8" diameter site storm drains. Location: As required by local jurisdiction with drainage structures easily accessible for maintenance.	Type: PVC or corrugated polyethylene pipe with ductile iron pipe where cover is less than 24". Locking grates and Type 2 manhole structures where invert is deeper than 60". Clean outs at the base of all downspouts and at ends of roof and footing drain lines. Size: 6" diameter footing and roof drains. 8" diameter site storm drains. Location: As required by local jurisdiction with drainage structures easily accessible for maintenance.
<b>Natural Gas Service</b>	Type: Capacity as required for building gas load provided in inches or pounds. Location: Underground with gas meter adjacent to exterior wall of building.	Type: Capacity in pounds as required for building gas load with a minimum of 2 pounds and supplemental electronic meter located in Main Mechanical Room and connected to EMS. Location: Underground with gas meter adjacent to exterior wall of building.
<b>Electrical Service</b>	Type: As required for calculated electrical load. Location: Underground.	Type: As required for calculated electrical load plus 15% spares with fully coordinated over current protection. Location: Underground.
<b>Telephone Service</b>	Type: 5 voice grade Centrex lines. Size: 2" conduit. Location: Underground.	Type: 5 voice grade Centrex lines. Size: Two 4" conduit. Location: Underground.
<b>Internet Connection</b>	None.	Type: One T1 line with a 1.544 MB bandwidth. Location: Underground.

# AUBURN MEMORIAL STADIUM

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Energy Usage - MBTUs per SF Building Area</b>	Annual usage: .0940 MBTUs per SF.	Annual usage: .0752 MBTUs per SF.
<b>Water Usage - Domestic Water per SF Building Area</b>	Annual usage: Average of last three years.	Annual usage: 80% of the average of the last three years.
<b>Water Usage - Irrigation Water per SF Landscape Area</b>	Annual usage: Average of last three years.	Annual usage: 80% of the average of the last three years.
<b>STRUCTURE</b>		
<b>Foundation</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>Floor Structure</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>Wall Structure - Bearing</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>Wall Structure - Non Bearing</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>Roof Structure</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>BUILDING ENVELOPE</b>		
<b>Floors</b>	Ground level: Reinforced concrete slab-on-grade with vapor retarder and capillary break. Upper level: Reinforced concrete over wood or metal decking.	Ground level: Reinforced concrete slab-on-grade with vapor retarder and capillary break. Upper level: Reinforced concrete metal decking.
<b>Exterior Wall Surface</b>	Type: Cement board siding, metal siding, or window wall.	Type: Masonry or concrete.
<b>Exterior Wall Insulation</b>	Type: R-11.	Type: R-19 or greater if required by code.
<b>Exterior Windows</b>	Type: Operable sash metal frames with dual glazing. Location: Where needed for viewing of field and stadium surroundings.	Type: Operable sash prefinished aluminum frames with 1/4" dual glazing, low E coating, and U-value less than 40. Location: Where needed for viewing of field and stadium surroundings.
<b>Exterior Doors</b>	Type: 16-gauge painted hollow metal door with hollow metal frame. Location: As required for ease of circulation and fire exiting. Size: 3' x 6'-8" with a pair of doors with removable mullion at exterior door of mechanical equipment spaces.	Type: 14-gauge hollow painted hollow metal door with hollow metal frame and U-value less than 40. Location: As required for ease of circulation and fire exiting. Size: 3' x 7' except oversized door at Kitchen service entry and a pair of 3' x 7' doors with removable mullion at exterior door of mechanical equipment spaces.
<b>Soffits</b>	Type: Painted wood.	Type: Painted MDO plywood, prefinished metal, or sealed or painted concrete.
<b>Flashing</b>	Type: Painted metal.	Type: Pre-finished 24-gauge sheet metal.
<b>Trim</b>	Type: Painted wood.	Type: Pre-finished 24-gauge sheet metal.

# AUBURN MEMORIAL STADIUM

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Gutters and Downspouts</b>	Gutters: Painted metal located at edge of roof. Downspouts: Painted PVC or metal.	Gutters: Pre-finished 22-gauge sheet metal field formed in continuous lengths located at edge of roof. Downspouts: Pre-finished 11-gauge sheet metal with rain diverters at roof valleys and connected to storm drainage system or rain garden.
<b>Roof Membrane</b>	Low-sloped roof: Built-up roofing with mineral cap sheet. Pitched roof: 30-year fiberglass composition shingles.	Low-sloped roof: Single-ply Hypolon membrane. Pitched roof: Pre-finished 24-gauge metal.
<b>Roof Insulation</b>	Type: R-19.	Type: R-38 or greater if required by code, installed at roof level.
<b>Roof Accessories</b>	Type: Painted metal. Location: Minimum 5' separation from roof drains, edges and valleys.	Type: Pre-finished metal with protected electrical receptacle at all mechanical equipment. Location: Minimum 10' separation from roof drains, edges and valleys.
<b>Fall Arrest System</b>	Type: Fall protection roof anchors in compliance with UMC, WISHA and OSHA standards. Location: In compliance with WISHA and OSHA standards.	Type: Fall protection roof anchors and railings in compliance with UMC, WISHA and OSHA standards. Location: In compliance with UMC, WISHA and OSHA standards.
<b>Canopies / Covered Walkways</b>	Type: Metal framed with single-ply Hypolon membrane or built-up roof with mineral cap sheet. Location: At bus loading area.	Type: Metal framed with pre-finished metal roof. Location: At bus loading area and courtyard.
<b>INTERIORS</b>		
<b>Floors - Concession Stands</b>	Type: Sealed concrete.	Type: 12" x 12" VCT.
<b>Floors - Locker Rooms</b>	Dressing Area: Concrete slab with non-slip surface. Shower Area: Concrete slab with non-slip surface. Coaches' Office: 12" x 12" VCT. Storage Rooms: Sealed concrete.	Dressing Area: Concrete slab with non-slip epoxy resin surface. Shower Area: Unglazed ceramic tile. Coaches' Office: Synthetic pile carpet with polypropylene / vinyl backing. Locker Room Storage: 12" x 12" VCT..
<b>Floors - Press Box</b>	Type: 12" x 12" VCT.	Type: Synthetic pile carpet with polypropylene / vinyl backing.
<b>Floors - Restrooms</b>	Type: Sealed concrete.	Type: Seamless flooring with non-slip finish.
<b>Floors - Storage</b>	Type: Sealed concrete.	Type: Sealed concrete.
<b>Floors - Support Spaces</b>	Concrete: Sealed concrete at custodial, mechanical and electrical rooms. Plywood: Plywood floor deck at catwalks and mechanical attics in wood frame buildings.	Concrete: Sealed concrete at custodial, mechanical and electrical rooms, and at catwalks and mechanical attics in metal frame, concrete and masonry buildings.
<b>Walls - Concession Stands</b>	Type: Painted gypsum wallboard.	Type: Painted concrete or masonry.
<b>Walls - Locker Rooms</b>	Type: Painted concrete or masonry.	Type: Painted concrete or masonry.
<b>Walls - Press Box</b>	Type: Painted gypsum wallboard.	Type: Painted gypsum wallboard.
<b>Walls - Restrooms</b>	Type: Painted concrete or masonry.	Type: Painted concrete or masonry.

# AUBURN MEMORIAL STADIUM

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Walls - Storage</b>	Type: Painted gypsum wall board at concession stands, custodial, press box, ticket booth, and uniform storage areas. Concrete or masonry at other storage areas.	Type: Painted gypsum wall board with 4' high wainscot at concession stands, custodial, press box, ticket booth, and uniform storage areas. Concrete or masonry at other storage areas.
<b>Walls - Support Spaces</b>	Type: Painted gypsum wallboard. Location: At custodial, mechanical, electrical, catwalks, and mechanical attics.	Type: Painted concrete or masonry. Location: At custodial, mechanical, electrical, catwalks, and mechanical attics.
<b>Asbestos-Containing Materials</b>	Criteria: Asbestos-containing building materials present in a facility shall be intact, undisturbed and included in an asbestos management plan in compliance with AHERA regulations.	Criteria: Asbestos-containing building materials shall not be present.
<b>Interior Doors</b>	Solid core wood: Wood veneer at press box and concession stands. Hollow metal: At locker rooms, restrooms, storage rooms and support spaces.	Solid core wood: 1 - 3/4" thick with wood veneer at press box and concession stands. Hollow metal: 14 gauge at locker rooms, restrooms, storage rooms and support spaces.
<b>Door Hardware</b>	Locksets: Schlage or Corbin with standard classroom function and keying that matches the school district's Schlage or Corbin Master Key system.	Closers and handles: ADA compliant. Door mullions: Removable and secured with key. Hinges: Continuous at high-use doors. Locksets: Schlage with Primus at exterior doors; standard classroom function plus exterior door locksets with inside cylinders keyed to unlock the outside and outside cylinders keyed to unlatch only; and keying that matches the school district's Schlage Great Grand Master Key system.
<b>Overhead Doors and Grilles</b>	Interior overhead doors and grilles: Manually operated up to 6' wide. Motorized operation when over 6' wide. Fire-rated overhead doors and grilles shall be activated by local smoke or heat detectors. Exterior sectional overhead doors: Steel section doors with manual operation. Exterior coiling overhead doors: Steel interlocking slat door with insulated slats and chain hoist operation. Located where overhead door is required but has limited overhead clearance and will not accommodate an overhead sectional door.	Interior overhead doors and grilles: Manually operated up to 6' wide. Motorized operation when over 6' wide. Fire-rated overhead doors and grilles shall be activated by local smoke or heat detectors. Exterior sectional overhead doors: Steel section doors with manual operation at doors less than 10' wide and motorized operation at doors 10' or wider. Exterior coiling overhead doors: Steel interlocking slat door with insulated slats and chain hoist operation. Located where overhead door is required but has limited overhead clearance and will not accommodate an overhead sectional door.
<b>Interior Windows</b>	Type: Wood or metal frame with glazing in compliance with applicable building codes.	Type: Metal frame with safety glass.
<b>Ceilings - Concession Stands</b>	Type: Surface applied acoustical ceiling tile or suspended acoustical ceiling panels. Height: Minimum 9'.	Type: Painted gypsum wallboard. Height: Minimum 9'.
<b>Ceilings - Locker Rooms</b>	Type: Painted gypsum wallboard. Height: Minimum 9'.	Type: Painted gypsum wallboard. Height: Minimum 10'.
<b>Ceilings - Press Box</b>	Type: Surface applied acoustical ceiling tile or suspended acoustical ceiling panels. Height: Minimum 9'.	Type: Painted gypsum wallboard. Height: Minimum 9'.
<b>Ceilings - Restrooms</b>	Type: Painted gypsum wallboard. Height: Minimum 9'.	Type: Painted gypsum wallboard. Height: Minimum 10'.
<b>Ceilings - Storage</b>	Type: Painted gypsum wallboard. Height: Minimum 9'.	Type: Painted gypsum wallboard. Height: Minimum 10'.
<b>Ceilings - Support Spaces</b>	Type: Painted gypsum wallboard or exposed structure. Height: Minimum 9'.	Type: Painted gypsum wallboard or exposed structure. Height: Minimum 10'.

# AUBURN MEMORIAL STADIUM

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>EQUIPMENT AND SPECIALTIES</b>		
<b>Marker Boards</b>	Quantity: One 8' board in locker rooms. Type: Ceramic coated steel.	Quantity: Two 8' boards in locker rooms. One 4' board in coaches' offices. Type: Ceramic coated steel.
<b>Tackboards</b>	Quantity: 8' at lockers rooms, 4' at concession stands and coaches' offices. Type: Cedar, cork or vinyl-covered cork.	Quantity: 16' at lockers rooms and 8' at concession stands and coaches' offices. Type: Cedar, cork or vinyl-covered cork.
<b>Interior Signage</b>	Type: High impact acrylic room signs with room name and number. Location: Room sign at main entry door to all rooms.	Type: ADA compliant, high impact acrylic room signs with room name, number and raster Braille. Cast metal dedication plaque. Location: Room sign at main entry door to all rooms. Dedication plaque within stadium at Home side of field.
<b>Toilet Partitions</b>	Type: Metal or plastic laminate covered fiber board. Location: Partitions at toilet stalls.	Type: Plastic laminate covered phenolic panels. Location: Partitions at toilet stalls and screens at urinals.
<b>Toilet Accessories</b>	Type: Mirrors, paper towel dispensers, soap dispensers, and grab bars. Location: Mirrors at restroom hand wash areas. Paper towel and soap dispensers at all sinks. Grab bars at ADA accessible toilet stalls.	Type: ADA compliant mirrors, paper towel dispensers, soap dispensers, and grab bars. Location: Mirrors at restroom hand wash areas. Paper towel and soap dispensers at all sinks. Grab bars at ADA accessible toilet stalls.
<b>Lockers</b>	Type: 12" W x 12" D x 60" H, metal lockers with padlock hasp. Location: 6 at official's locker room, 2 at Custodian's office.	Type: 12" W x 12" D x 60" H, metal lockers with padlock hasp. Location: 8 at official's locker room, 3 at Custodian's office.
<b>Residential Appliances</b>	Washer and Dryer: At Home storage building.	Washer and Dryer: At Home storage building, Residential grade, ADA compliant and ENERGY STAR qualified.
<b>Window Covering</b>	None.	Exterior Windows: None. Interior windows: Horizontal louver mini-blinds at interior relite windows at coaches' offices.
<b>Cabinets - Concession Stands</b>	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, padlock hasps at selected cabinets. Quantity: As needed to accommodate the sale and storage of concessions.	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to the building master key system. Quantity: As needed to accommodate the sale and storage of concessions.
<b>Cabinets - Support Spaces</b>	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to a master system. Quantity: As needed to accommodate office, storage and support space use.	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to the building master key system. Quantity: As needed to accommodate office, storage and support space use.
<b>Equipment - Coach's Offices</b>	None.	Computers: One staff computer not exceeding 5 years in age. Printers: One ink jet printer not exceeding 4 years in age.

# AUBURN MEMORIAL STADIUM

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Equipment - Concession Stands</b>	Type: Residential grade unless otherwise noted. Ranges: Electric range with oven. Exhaust hoods: Electric exhaust fan with removable and cleanable filters. Beverage Cooler with Glass Doors: Two at Home Concession, one at Visitor Concession, commercial grade. Refrigerator / Freezer: Standard size refrigerator with freezer compartment. Food Warming Cart: 60" high cart a Home concession stand and 30" high at Visitor concession, commercial grade. Hot Beverage Machine: Two at Home concession one a Visitor concession, commercial grade. Popcorn Machine: Commercial grade. Three Compartment Sink: At Home and Visitor concession stands. Cash Register: Commercial grade.	Type: Residential grade, ADA compliant and ENERGY STAR qualified unless otherwise noted. Ranges: Electric range with oven. Exhaust hoods: Electric exhaust fan with removable and cleanable filters. Beverage Cooler with Glass Doors: Two at Home Concession, one at Visitor Concession, commercial grade. Refrigerator / Freezer: Standard size refrigerator with freezer compartment. Food Warming Cart: 60" high cart a Home concession stand and 30" high at Visitor concession, commercial grade. Hot Beverage Machine: Two at Home concession, one at Visitor concession, commercial grade. Popcorn Machine: Commercial grade. Three Compartment Sink: At Home and Visitor concession stands. Cash Register: Commercial grade.
<b>Equipment - Custodial Office</b>	Computers: Reader board control computer and monitor.	Computer: EMS computer and monitor. Printer: EMS printer.
<b>Equipment - Field Maintenance</b>	Cart: Electric golf cart with wall charger. Field Vacuum: "Billy Goat" vacuum, gas powered.	Cart: Electric or gas powered "Gator" cart. Field Vacuum: "Billy Goat" vacuum, gas powered. Pressure Washer: Electric or gas powered.
<b>Equipment - Football Storage</b>	Air Compressor: 120 V / 3 A compressor for inflating balls. Audio Visual: Television monitors and VCR machine.	Air Compressor: 120 V / 3 A compressor for inflating balls. Audio Visual: Two television monitors and 2 VCR machines.
<b>Equipment - Ticket Booths</b>	Cash Register: Electric register. Two at Home side and one at Visitor side.	Cash Register: Electric register. Two at Home side and one at Visitor side.
<b>Furniture - Offices / Press Box</b>	Desk Chairs: Upholstered not exceeding 15 years in age. Table Chairs: Hard plastic not exceeding 30 years in age. Staff Desks: Plastic laminate surfaced not exceeding 30 years in age. Tables: Plastic laminate surfaced not exceeding 30 years in age. File Cabinets: Metal not exceeding 40 years in age.	Staff Chairs: Upholstered not exceeding 10 years in age. Table Chairs: Hard plastic chairs not exceeding 20 years in age. Teacher Desks: Plastic laminate surfaced not exceeding 20 years in age. Tables: Plastic laminate surfaced not exceeding 20 years in age. File Cabinets: Metal not exceeding 30 years in age.
<b>Vending Machines</b>	Type: Refrigerated beverage machine with motion sensitive illumination control. Quantity: 1 Location: Near locker rooms.	Type: Refrigerated beverage machine with motion sensitive illumination control. Quantity: 2 Location: Near locker rooms.
<b>MECHANICAL</b>		
<b>Fire Suppression System</b>	Fire sprinkler system: Wet or dry system in compliance with NFPA 13, and local building codes. Fire suppression: Fire suppression system at commercial Kitchen exhaust hood.	Fire sprinkler system: Wet system in compliance with NFPA 13, local building codes and FM Global Data Sheets 2-8 and 3-6. Fire suppression: Wet agent fire suppression system at commercial Kitchen exhaust hood.
<b>Plumbing Insulation</b>	Type: Insulation in compliance with building code at time of construction on domestic hot water lines.	Type: Insulation in compliance with current building code on domestic hot water lines and 1/2" insulation on domestic cold water lines.

# AUBURN MEMORIAL STADIUM

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Domestic Water System</b>	Piping: Type L copper. Pumps: Bronze fitted pumps. Heating: Gas or electric heaters.	Piping: Type L copper. Pumps: All bronze pumps with isolation valves at both sides of pumps. Heating: Gas heaters.
<b>Domestic Water Quality</b>	Criteria: A maximum level of .015 mg/L (15ppb) of lead and 1.3 mg/L (1300 ppb) of copper in tap water.	Criteria: A maximum level of .015 mg/L (15ppb) of lead and 1.3 mg/L (1300 ppb) of copper in tap water.
<b>Soil and Waste</b>	Type: Cast iron pipe and fittings.	Type: Cast iron pipe and fittings.
<b>Plumbing Fixtures</b>	Water closets: Vitreous china. Urinals: Vitreous china. Lavatories: Vitreous china wall-hung sinks and stainless steel counter-mounted sinks. Drinking fountains: Vitreous china or stainless steel. Trap primers: None.	Water closets: ADA compliant, wall-hung vitreous china with water saving valves . Urinals: ADA compliant, wall-hung vitreous china with water saving valves. Lavatories: ADA compliant, vitreous china wall-hung sinks and stainless steel counter-mounted sinks with self-closing faucets. Drinking fountains: ADA compliant, stainless steel. Trap primers: Electronic trap primers with manual override.
<b>Natural Gas Piping</b>	Type: Black steel, Schedule 40 pipe with butt-weld fittings.	Type: Black steel, Schedule 40 pipe with butt-weld fittings.
<b>HVAC Duct Insulation</b>	Type: In compliance with building code at time of construction.	Type: In compliance with current building code.
<b>HVAC Pipe Insulation</b>	Type: In compliance with building code at time of construction.	Type: In compliance with current building code.
<b>Hydronic Piping</b>	Type: Type L copper or Schedule 40 black steel.	Type: Type L copper at piping below 2" diameter. Schedule 40 black steel at 2" diameter piping and above with welded or rolled grooved Victaulic fittings.
<b>Hydronic Pumps</b>	Type: Vertical in-line or base mounted end-suction pumps.	Type: Vertical in-line or base mounted end-suction pumps with redundant pumps for back-up.
<b>Refrigerant Piping</b>	Type: Type L hard drawn copper tube, refrigeration grade.	Type: Type L hard drawn copper tube, refrigeration grade.
<b>HVAC Ductwork</b>	Metal ducts: Galvanized sheet metal. Non-metal ducts: Insulated, reinforced flexible duct with vapor barrier jacket.	Metal ducts: Galvanized sheet metal per SMACNA Standards with welded stainless steel at commercial Kitchen exhaust hoods. Non-metal ducts: Insulated, reinforced flexible duct with vapor barrier jacket allowed at locations approved by school district.
<b>HVAC Fans</b>	Type: Forward curved or backward inclined units with 1" filters, non-asbestos flexible connections, standard motors, and belt guards.	Type: Forward curved or backward inclined units with neoprene flexible connections, high efficiency motors, belt guards, minimum two rows of coils, drain valves, and 2" filters contained in factory-built filter rack.
<b>Heating / Ventilation System - Concession Stands</b>	Type: Independent temperature control with override switch in custodial office or concession stand.	Type: Independent temperature control with override switch in custodial office or concession stand, and connection of system to EMS.
<b>Heating / Ventilation System - Drying Rooms</b>	Type: High capacity system with independent temperature control and override switch in drying room.	Type: High capacity system with independent temperature control, override switch in drying room, and connection of system to EMS.
<b>Heating / Ventilation System - Locker Rooms</b>	Type: Independent temperature control with override switch in custodial office.	Type: Independent temperature control with override switch in custodial office and connection of system to EMS.



# AUBURN MEMORIAL STADIUM

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Heating / Ventilation System - Support Spaces</b>	Type: Heating and ventilation systems capable of maintaining comfortable temperature range and ventilation.	Type: Heating and ventilation systems capable of maintaining comfortable temperature range and provide ventilation supply in compliance with current codes.
<b>Air Terminal Units</b>	Type: Steel or aluminum units.	Type: Steel or aluminum units with bird screens at intakes. Heavy-duty units at Gymnasiums and multipurpose rooms.
<b>Boilers</b>	Type: Single gas fired hot water or steam boiler.	Type: Dual hot water, gas-fired, fire-tube, minimum 82% efficient, steel boilers each sized for 66% of load.
<b>Furnaces</b>	Type: Gas fired with 80% efficiency.	Type: Gas fired with minimum 80% efficiency.
<b>Heat Exchangers</b>	Type: Plate-type with 50% efficiency.	Type: Plate-type with 66% efficiency.
<b>Refrigerant Compressors and Condensers</b>	Type: Air cooled units. Location: Single unit per system.	Type: Air cooled units. Location: Single unit serving multiple systems.
<b>Water Chillers</b>	Type: Air cooled with dual compressors.	Type: Dual air cooled units with minimum of 2 compressors each and sound attenuation treatment.
<b>Exhaust Fans</b>	Type: Steel utility or aluminum dome type. Location: Easily accessible for maintenance.	Type: Steel utility or aluminum dome type. Location: Non-kitchen exhaust fans located in catwalk or mechanical attic area, not on roof. Commercial kitchen exhaust fans located platform on roof with adjacent roof hatch plus walking platform where roof slope exceeds 3:12 slope.
<b>Heat Pumps</b>	Type: Air cooled units. Location: One unit per zone.	Type: Air cooled units with automatic compressor lock out. Location: One unit per zone.
<b>Fan Coil Units</b>	Type: Units with steel housing, minimal filters, and no outside air.	Type: Units with steel housing, 1" filters, and damper controlled outside air .
<b>Unit Ventilators</b>	Type: Units with heavy-duty steel housing and capacity based on code required CFM.	Type: Units with heavy-duty steel housing, capacity based upon code required CFM, factory installed access panels and filter racks, and NC-35 sound rating.
<b>Unit Heaters</b>	Type: Propeller type gas or hot water units.	Type: Propeller type gas or hot water units.
<b>Automatic Controls</b>	Type: Direct digital control system with individual zone control and thermostat for each instructional space and office area, Local Operator's Station at custodial office, and connected to Central Operator's Station at Support Services Center.	Type: Direct digital control system with BACnet automation system, individual zone control and thermostat for each instructional space and office area, Dynamic Data exchange, Local Operator's Station at custodial office, and connected to Central Operator's Station at Support Services Center.
<b>ELECTRICAL</b>		
<b>Transformers</b>	Type: Dry type with capacity for calculated load.	Type: Low noise, dry type with capacity for calculated load plus 20%.
<b>Switchgear</b>	Type: Fuse or circuit breaker type with capacity for calculated load.	Type: Fuse or circuit breaker type with capacity for calculated load plus 15% and includes 15% spares.
<b>Panelboards</b>	Type: Circuit breaker type.	Type: Circuit breaker type with 15% spares.

# AUBURN MEMORIAL STADIUM

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Power Distribution</b>	Type: Copper for #1 wire or less. Copper or aluminum for wire greater than #1.	Type: Copper wire.
<b>Power Conditioning</b>	None.	Type: Transient voltage surge suppressors. Location: At panelboards for protection of lighting, receptacles and computers.
<b>Wiring Devices</b>	Type: 15 or 20 amp.	Type: 20 amp.
<b>Electrical Outlets - Exterior</b>	Type: GFI with watertight cover. Location: 2 at Home grandstand, 2 at Visitor grandstand, 1 at a light pole on Home and Visitor sides of field.	Type: GFI with watertight cover. Location: 2 at Home grandstand, 2 at Visitor grandstand, 1 at a light pole at each corner of field, 1 at scoreboard.
<b>Electrical Outlets - Interior</b>	Quantity: One duplex electrical receptacle for each electrical equipment item plus one at one of the perimeter walls in each room.	Quantity: One duplex electrical receptacle for each electrical equipment item plus one at each wall.
<b>Electrical Outlets - Emergency Power</b>	None.	Quantity: Duplex electrical receptacles connected to emergency generator at custodial office, main mechanical room, public address system, and at 2 exterior locations each at Home and Visitor grandstands.
<b>Circuit Protection Devices</b>	Type: Circuit breakers with fuses at selected equipment.	Type: Circuit breakers with fuses at selected equipment.
<b>Packaged Generator</b>	Type: Diesel-fired with belly or above ground tank and minimum 48-hour operation capability with capacity to operate emergency lighting, fire alarm system, telephone, intercom, telecommunications equipment, and selected electrical outlets.	Type: Diesel-fired with belly tank and minimum 48-hour operation capability with capacity to operate emergency lighting, stand-by lighting, fire alarm system, telephone, intercom, telecommunications equipment, and selected electrical outlets plus 10% additional capacity.
<b>Battery Equipment</b>	Type: Uninterrupted power supply for intercom, telephone, and energy management systems. Back-up battery for fire alarm system.	Type: Uninterrupted power supply for intercom, telephone, and energy management systems. Back-up battery for fire alarm system.
<b>Lighting - Exterior - Football / Soccer Field</b>	Type: Pole mounted fixtures with 30.0 foot-candle average controlled by manual switch and timer with EMS override. Location: At artificial turf football / soccer field.	Type: Pole mounted fixtures with 30.0 foot-candle minimum controlled by manual switch and timer with EMS override. Location: At artificial turf football / soccer field.
<b>Lighting - Exterior - Main Entry</b>	Type: Pole or building mounted fixtures with 5.0 foot-candle level controlled by photocell and EMS. Location: At front entrance between building and entry drive.	Type: Pole or building mounted fixtures with 8.0 foot-candle level controlled by photocell and EMS. Location: At front entrance between building and entry drive.
<b>Lighting - Exterior - Parking</b>	Type: Pole mounted fixtures with 0.8 foot-candle level controlled by photocell and EMS. Location: At parking lots.	Type: Pole mounted fixtures with 1.0 foot-candle level controlled by photocell and EMS. Location: At parking lots.
<b>Lighting - Exterior - Pathways</b>	Type: Pole or building mounted fixtures with 1.0 foot-candle level controlled by photocell and EMS. Location: At pathways around building and between building and parking areas.	Type: Pole or building mounted fixtures with 1.5 foot-candle level controlled by photocell and EMS. Location: At pathways around building and between building and parking areas.
<b>Lighting - Concession Stands</b>	Type: Fluorescent fixtures with a minimum of 50 foot-candle level and maximum of 1.3 watts per SF.	Type: T-8 or T-5 fluorescent fixtures with parabolic louvers to control screen glare, minimum 50 foot-candle level and a maximum of 1.1 watts per SF.
<b>Lighting - Locker Rooms</b>	Type: Fluorescent fixtures with a minimum of 50 foot-candle level and maximum of 1.3 watts per SF.	Type: T-8 or T-5 fluorescent fixtures with parabolic louvers to control screen glare, minimum 50 foot-candle level and a maximum of 1.1 watts per SF.

# AUBURN MEMORIAL STADIUM

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Lighting - Emergency</b>	Interior Pathways: An average of 1 foot-candle level at floor level at all paths of egress with a minimum of 0.3 foot-candle level at the center of paths of egress.	Interior Pathways: An average of 1 foot-candle level at floor level at all paths of egress with a minimum of 0.3 foot-candle level at the center of paths of egress. Standby Lighting: One standby light fixture connected to emergency generator in press box and at each concession stand, locker room, restroom and mechanical equipment space.
<b>Lighting - Restrooms</b>	Type: Fluorescent fixtures with a minimum 20 foot-candle level and a maximum of 1.1 watts per SF.	Type: T-8, T-5 and compact fluorescent fixtures with a minimum 20 foot-candle level and a maximum of 0.8 watts per SF.
<b>Lighting - Support Spaces</b>	Type: Fluorescent fixtures with a minimum 50 foot-candle level and a maximum of 1.3 watts per SF.	Type: T-8 or T-5 fluorescent fixtures with parabolic louvers to control screen glare with a minimum 50 foot-candle level and a maximum of 1.1 watts per SF.
<b>Automatic Lighting Control</b>	Exterior lighting: Time clock and photocell control.	Exterior lighting: EMS and photocell control with separate zones. Interior lighting: Occupancy sensors in corridors.
<b>Exit Signs</b>	Type: In compliance with building code at time of construction.	Type: In compliance with current building code and connected to emergency generator.
<b>Data Communications Cabling</b>	None.	Backbone: 6 pair multimode optical fiber between MC and HC locations. Wiring: Category 5e below grade and Category 6 above grade between computer equipment and MC or HC.
<b>Data Communications Equipment</b>	None.	Filter: Granular site-based web content filtering. Router: 10 Mb WAN connectivity. Routing: Layer 3 capability in core switch at MC. Switch: 10 /100 / 1000 host capability. Traffic shaping: Site-based capability. WAN connectivity speed: 10 Mb. UPS: For routers, switches, and servers providing a minimum of 5 minutes of uninterrupted power.
<b>Data Communications Outlets</b>	None.	Quantity: One each at custodial office, locker rooms offices, concession stands, and press box.
<b>Telephone System</b>	Type: Digital PBX central exchange telephone system.	Type: Digital PBX central exchange telephone system with voice mail, loud speaking communications, and dial-up zone paging.
<b>Sound System</b>	Type: Outdoor stadium public address system with exterior loudspeakers mounted to light poles and wall mounted equipment rack located in press box with mixer, amplifier and cassette deck. Location: Loud speakers at synthetic turf football / soccer field.	Type: Outdoor stadium public address system with exterior loudspeakers mounted to light poles and wall mounted equipment rack located in press box with mixer, amplifier, cassette deck and compact disc player. Location: Loudspeakers at synthetic turf football / soccer field.
<b>Intrusion Detection</b>	None.	Type: Multi-zone system with NAPCO control panel. Location: Keypad activation device and passive infrared motion detectors at athletic equipment storage room.
<b>Video Surveillance</b>	None.	Type: Surveillance camera system for monitoring of stadium with surveillance system computer in Auburn High School Activity office. Location: Surveillance cameras at parking lots, field area, and grandstand area.

# AUBURN MEMORIAL STADIUM

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Fire Detection and Alarm</b>	Type: Automatic addressable alarm and detection system in compliance with building code at time of construction. Plastic guards with local alarm at pull stations. Location: Detection and alarm devices located in compliance with building code at time of construction and annunciator at front entry to stadium.	Type: Automatic addressable alarm and detection system in compliance with current building code. Plastic guards with local alarm at pull stations. Location: Detection and alarm devices located in compliance with current building code, control panel and printer in Custodial office, and graphic annunciator at front entry to stadium.

# AUBURN POOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>SITE AREAS</b>		
<b>Parking and Access - Service / Delivery</b>	Quantity: 1 service / delivery vehicle stall, 10' wide. Type: Asphalt, 20-year life. Location: Adjacent to exterior door at filter room.	Quantity: 1 service / delivery vehicle stall, 12' wide. Type: Asphalt, 30-year life. Location: Adjacent to exterior door at filter room.
<b>Parking and Access - Staff and Visitors</b>	Quantity: 211 stalls, 9' wide. Type: Asphalt, 20-year life. Location: 21 stalls at dedicated parking lot plus 190 off-street and on-street parking stalls within the general vicinity of the pool building.	Quantity: 211 stalls, 9' wide. Type: Asphalt, 30-year life. Location: 21 stalls at dedicated parking lot plus 190 off-street parking stalls within the general vicinity of the pool building.
<b>Street Frontage Sidewalks</b>	Type: 5' wide with ADA compliant curb cuts, asphalt.	Type: 6' wide with ADA compliant curb cuts, concrete.
<b>On-Site Walkways</b>	Type: 5' wide with ADA compliant curb cuts, asphalt.	Type: 6' wide with ADA compliant curb cuts, concrete.
<b>Stairs and Ramps</b>	Type: 5' wide, ADA compliant, concrete.	Type: 6' wide, ADA compliant, concrete with abrasive stair nosings at stairs and detectible warning pattern at ramps.
<b>Lawns</b>	Type: Irrigated grass turf. Location: At front of building, street frontage, and adjacent to landscape areas where suitable.	Type: Irrigated grass turf with concrete mow strip around posts and hydrants and where grass is adjacent to building. Location: At front of building, street frontage, and adjacent to landscape areas where suitable.
<b>Dumpster Area</b>	None.	Type: Designated areas to accommodate on 2 YD garbage dumpster and one 2 YD recycle dumpsters. Location: All dumpsters close to exterior doors and accessible for pick-up by refuse trucks. Visually separated from adjacent property.
<b>SITE IMPROVEMENTS</b>		
<b>Fences and Gates</b>	Type: Chainlink fencing at perimeter of property where adjacent to other property. 12' wide chainlink gates at all fence areas for direct vehicle access. Height: 6' high.	Type: Chainlink fencing at perimeter of property where adjacent to other property. 16' wide chainlink gates at all fence areas for direct vehicle access. Height: 6' high.
<b>Retaining Walls</b>	Type: Concrete, segmental block or rockery.	Type: Concrete, segmental block or rockery.
<b>Bicycle Racks</b>	Quantity: Racks for 8 bikes. Type: Galvanized metal. Location: At building entry.	Quantity: Racks for 12 bikes. Type: Galvanized metal. Location: At building entry.
<b>Dumpsters</b>	None.	Garbage dumpsters: One 2 YD dumpster. Recycle dumpsters: One 2 YD dumpster.
<b>Exterior Benches</b>	Quantity: 1 at front of building. Type: Durable non-wood material.	Quantity: 2 at front of building. Type: Prefinished metal "ribbon" bench.
<b>Exterior Waste Receptacles</b>	Quantity: One at each building entry. Type: Heavy-duty galvanized can with push door dome top.	Quantity: One at each building entry. Type: Heavy-duty galvanized can with push door dome top at entry from parking lot. Prefinished metal "ribbon" container with push door dome top at entry at front of building.
<b>Traffic Control Signs</b>	Type: As needed for traffic and parking control. Location: At HC parking stalls, service / delivery vehicle stall, parking lot, and entry driveway.	Type: As needed for traffic and parking control. Location: At HC parking stalls, service / delivery vehicle stall, parking lot, and entry driveway.

# AUBURN POOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Pavement Markings</b>	Type: Painted lines at cross walks, stop bars, traffic arrows, parking stalls, HC parking symbols, and fire lanes. Location: At HC parking stalls, service / delivery vehicle stall, parking lot, and entry driveway.	Type: Painted lines at parking stalls, HC parking symbols, and fire lanes. Thermoplastic markings at cross walks, stop bars, and traffic arrows. Location: At HC parking stalls, service / delivery vehicle stall, parking lot, and entry driveway.
<b>LANDSCAPING</b>		
<b>Shrubs / Groundcover</b>	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department with automated irrigation system. Location: At building perimeter, parking lot islands, and perimeter landscape buffers.	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department with automated irrigation system. Location: At building perimeter, parking lot islands, and perimeter landscape buffers.
<b>Trees</b>	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department. Location: At lawn areas, street frontage, parking lot islands, and perimeter landscape buffers.	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department. Location: At lawn areas, street frontage, parking lot islands, and perimeter landscape buffers.
<b>Irrigation System</b>	Type: Automated system with separate water meter. Location: At lawns, grass athletic fields, landscape areas and wetlands.	Type: Automated system controlled by EMS with separate water meter. Location: At lawns, grass athletic fields, landscape areas and wetlands.
<b>UTILITIES</b>		
<b>Water System</b>	Type: Ductile iron pipe with separate domestic and fire service systems, deduct meter for irrigation system, backflow preventer and FDC on fire system. Size: As required for flow requirements. Location: As required by local water purveyor.	Type: Ductile iron pipe with separate domestic and fire service systems, separate (non-deduct) meter for irrigation system, backflow preventer and FDC on fire system. Supplemental electronic meters for domestic and irrigation systems located in Main Mechanical Room and connected to EMS. Size: As required for flow requirements. Location: As required by local water purveyor with domestic and irrigation meters located close to building.
<b>Sanitary Sewer System</b>	Type: PVC or concrete pipe with positive slope in compliance with Dept. of Ecology "Orange Book". Size: 6" diameter side and main sewer. Location: As required by local sewer purveyor with manhole structures easily accessible for maintenance.	Type: PVC pipe with ductile iron pipe where cover is less than 24". Positive slope in compliance with Dept. of Ecology "Orange Book" and locking manhole covers. Size: 6" diameter side and 8" diameter main sewer. Location: As required by local sewer purveyor with manhole structures easily accessible for maintenance.
<b>Storm Drainage System</b>	Type: Concrete pipe, ductile iron, PVC or corrugated polyethylene pipe. Size: 4" diameter footing and roof drains. 8" diameter site storm drains. Location: As required by local jurisdiction with drainage structures easily accessible for maintenance.	Type: PVC or corrugated polyethylene pipe with ductile iron pipe where cover is less than 24". Locking grates and Type 2 manhole structures where invert is deeper than 60". Clean outs at the base of all downspouts and at ends of roof and footing drain lines. Size: 6" diameter footing and roof drains. 8" diameter site storm drains. Location: As required by local jurisdiction with drainage structures easily accessible for maintenance.
<b>Natural Gas Service</b>	Type: Capacity as required for building gas load provided in inches or pounds. Location: Underground with gas meter adjacent to exterior wall of building.	Type: Capacity in pounds as required for building gas load with a minimum of 2 pounds and supplemental electronic meter located in Main Mechanical Room and connected to EMS. Location: Underground with gas meter adjacent to exterior wall of building.

# AUBURN POOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Fuel Storage Tanks</b>	Underground storage tanks: Steel with corrosion-resistant coating. Locate close to equipment receiving fuel and below an area that is accessible for future excavation.	Underground storage tanks: Not acceptable.
<b>Electrical Service</b>	Type: As required for calculated electrical load. Location: Underground.	Type: As required for calculated electrical load plus 15% spares with fully coordinated over current protection. Location: Underground.
<b>Telephone Service</b>	Type: 3 voice grade Centrex lines. Size: 2" conduit. Location: Underground.	Type: 3 voice grade Centrex lines. Size: Two 4" conduit. Location: Underground.
<b>Internet Connection</b>	Type: One T1 line with combined 1.54 MB bandwidth. Location: Underground.	Type: Optical fiber with a 100 MB bandwidth. Location: Underground with spare 4" conduit for future expansion.
<b>Energy Usage - MBTUs per SF Building Area</b>	Annual usage: .410 MBTUs per SF.	Annual usage: .328 MBTUs per SF.
<b>Water Usage - Domestic Water per SF Building Area</b>	Annual usage: Average of last three years.	Annual usage: 80% of the average of the last three years.
<b>Water Usage - Irrigation Water per SF Landscape Area</b>	Annual usage: Average of last three years.	Annual usage: 80% of the average of the last three years.
<b>STRUCTURE</b>		
<b>Foundation</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>Floor Structure</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>Wall Structure - Bearing</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>Wall Structure - Non Bearing</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>Roof Structure</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>BUILDING ENVELOPE</b>		
<b>Floors</b>	Ground level: Reinforced concrete slab-on-grade with vapor retarder and capillary break. Upper level: Wood framing.	Ground level: Reinforced concrete slab-on-grade with vapor retarder and capillary break. Upper level: Reinforced concrete on metal decking.
<b>Exterior Wall Surface</b>	Type: Cement board siding, metal siding, concrete or window wall.	Type: Masonry or concrete.
<b>Exterior Wall Insulation</b>	Type: R-11.	Type: R-19 or greater if required by code.
<b>Exterior Windows</b>	Type: Dual glazing. Location: At front entry and where needed for daylight at pool area.	Type: Prefinished aluminum frames with 1/4" dual glazing, low E coating, and U-value less than 40. Location: At front entry and where needed for daylight at pool area.

# AUBURN POOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Exterior Doors</b>	Type: 16-gauge painted hollow metal door with hollow metal frame. Location: As required for ease of circulation and fire exiting. Size: 3' x 6'-8" with a pair of doors with removable mullion at exterior door of mechanical equipment spaces.	Type: 14-gauge hollow painted hollow metal door with hollow metal frame and U-value less than 40. Location: As required for ease of circulation and fire exiting. Size: 3' x 7' except a pair of 3' x 7' doors with removable mullion at exterior door of mechanical equipment spaces.
<b>Soffits</b>	Type: Painted wood.	Type: Painted MDO plywood or prefinished metal.
<b>Flashing</b>	Type: Painted metal.	Type: Pre-finished 24-gauge sheet metal.
<b>Trim</b>	Type: Painted wood.	Type: Pre-finished 24-gauge sheet metal.
<b>Gutters and Downspouts</b>	Gutters: Painted metal located at edge of roof. Downspouts: Painted PVC or metal.	Gutters: Pre-finished 22-gauge sheet metal field formed in continuous lengths located at edge of roof. Downspouts: Pre-finished 11-gauge sheet metal with rain diverters at roof valleys and connected to storm drainage system or rain garden.
<b>Roof Membrane</b>	Low-sloped roof: Built-up roofing with mineral cap sheet. Pitched roof: 30-year fiberglass composition shingles.	Low-sloped roof: Single-ply Hypolon membrane. Pitched roof: Pre-finished 24-gauge metal.
<b>Roof Insulation</b>	Type: R-19.	Type: R-38 or greater if required by code, installed at roof level.
<b>Roof Accessories</b>	Type: Painted metal. Location: Minimum 5' separation from roof drains, edges and valleys.	Type: Pre-finished metal with protected electrical receptacle at all mechanical equipment. Location: Minimum 10' separation from roof drains, edges and valleys.
<b>Skylights</b>	Type: Translucent glazing and 300-pound point load capacity.	Type: Translucent, dual-surface, reinforced plastic glazing with pre-finished aluminum frame and 300-pound point load capacity.
<b>Fall Arrest System</b>	Type: Fall protection roof anchors in compliance with UMC, WISHA and OSHA standards. Location: In compliance with WISHA and OSHA standards.	Type: Fall protection roof anchors and railings in compliance with UMC, WISHA and OSHA standards. Location: In compliance with UMC, WISHA and OSHA standards.
<b>Canopies / Covered Walkways</b>	Type: Metal framed with single-ply Hypolon membrane or built-up roof with mineral cap sheet. Location: At main entries.	Type: Metal framed with pre-finished metal roof. Location: At main entries.
<b>INTERIORS</b>		
<b>Floors - Locker Rooms</b>	Dressing Area: Concrete slab with slip-resistant surface. Shower Area: Concrete slab with slip-resistant surface.	Dressing Area: Concrete slab with slip-resistant epoxy resin surface. Shower Area: Unglazed ceramic tile.
<b>Floors - Offices</b>	Type: Sealed concrete.	Type: 12" x 12" VCT.
<b>Floors - Pool Area</b>	Type: Concrete slab with slip-resistant surface.	Type: Concrete slab with slip-resistant surface.
<b>Floors - Restrooms</b>	Type: Concrete slab with slip-resistant surface.	Type: Unglazed ceramic tile.



# AUBURN POOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Floors - Support Spaces</b>	Sealed Concrete: At filter room, mechanical and electrical rooms, storage rooms and entry areas. Wood Decking: At attic areas.	Sealed Concrete: At filter room, mechanical and electrical rooms, storage rooms and attic areas. VCT: At entry areas.
<b>Walls - Locker Rooms</b>	Type: Painted or sealed masonry or concrete.	Type: Painted or sealed masonry or concrete.
<b>Walls - Pool Area</b>	Type: Painted or sealed masonry or concrete.	Type: Painted or sealed masonry or concrete.
<b>Walls - Restrooms</b>	Type: Gypsum wallboard with 4' high wainscot of plastic laminate or ceramic tile.	Type: Painted or sealed masonry or concrete.
<b>Walls - Support Spaces</b>	Gypsum wallboard: Painted wallboard in custodial, electrical, mechanical, offices, first aid, entry areas, storage, and work rooms. Concrete or Masonry: Sealed or painted concrete or masonry at filter room.	Gypsum wallboard: Painted wallboard in electrical, mechanical, offices, first aid, and entry areas. Wainscot: Painted wallboard with 4' high wainscot in custodial, storage, and work rooms. Concrete or Masonry: Sealed or painted concrete or masonry at filter room.
<b>Asbestos-Containing Materials</b>	Criteria: Asbestos-containing building materials present in a facility shall be intact, undisturbed and included in an asbestos management plan in compliance with AHERA regulations.	Criteria: Asbestos-containing building materials shall not be present.
<b>Interior Doors</b>	Solid Core or Hollow Metal: At offices, first aid, locker and work rooms. Hollow Metal: At storage, mechanical, electrical, and filter rooms.	Type: 16 gauge hollow metal.
<b>Door Hardware</b>	Locksets: Schlage or Corbin with standard classroom function and keying that matches the school district's Schlage or Corbin Master Key system.	Closers and handles: ADA compliant. Door mullions: Removable and secured with key. Hinges: Continuous at high-use doors. Locksets: Schlage with Primus at exterior doors; standard classroom function plus exterior door locksets with inside cylinders keyed to unlock the outside and outside cylinders keyed to unlatch only; and keying that matches the school district's Schlage Great Grand Master Key system.
<b>Spectator Seating</b>	Type: Wood bench planks attached to concrete risers in spectator seating area. Quantity: 300 LF with capacity for 200 spectators.	Type: Aluminum bench planks attached to concrete risers in spectator seating area. Quantity: 300 LF with capacity for 200 spectators.
<b>Automatic Door Opener</b>	None.	Type: ADA compliant with keyed power shut off at door. Location: At front entry door.
<b>Overhead Doors and Grilles</b>	Interior overhead doors and grilles: Manually operated up to 6' wide. Motorized operation when over 6' wide. Fire-rated overhead doors and grilles shall be activated by local smoke or heat detectors. Exterior overhead doors and grilles: Manually operated.	Interior overhead doors and grilles: Manually operated up to 6' wide. Motorized operation when over 6' wide. Fire-rated overhead doors and grilles shall be activated by local smoke or heat detectors. Exterior overhead doors and grilles: Manually operated up to 10' wide. Motorized operation when over 10' wide.
<b>Interior Windows</b>	Type: Wood or metal frame with glazing in compliance with applicable building codes.	Type: Metal frame with safety glass.
<b>Ceilings - Locker Rooms</b>	Type: Painted gypsum wallboard or exposed structure. Height: Minimum 10'.	Type: Painted gypsum wallboard or exposed structure. Height: Minimum 12'.

# AUBURN POOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Ceilings - Pool Area</b>	Type: Acoustical ceiling panels or exposed structure. Height: Minimum 20'.	Type: Water-resistant acoustical ceiling panels or exposed structure. Height: Minimum 24'.
<b>Ceilings - Restrooms</b>	Type: Painted gypsum wallboard. Height: Minimum 8'.	Type: Painted gypsum wallboard. Height: Minimum 9'.
<b>Ceilings - Support Spaces</b>	Acoustical Ceiling: Suspended or glue-on acoustical ceiling in offices, first aid, entry areas and work rooms, minimum 8' high. Gypsum wallboard: Painted wallboard in custodial, electrical, mechanical, filter and storage rooms, minimum 8' high.	Wood: Painted or stained or sealed wood in offices, first aid, entry areas and work rooms, minimum 9' high. Gypsum wallboard: Painted wallboard in custodial, electrical, mechanical, filter and storage rooms, minimum 9' high.
<b>Pool Shell</b>	Type: Concrete with plaster finish and ceramic tile lane lines, wall targets and gutter edge.	Type: Concrete with slip-resistant aggregate finish and ceramic tile lane lines, wall targets and gutter edge.
<b>EQUIPMENT AND SPECIALTIES</b>		
<b>Marker Boards</b>	Quantity: One 4' board at main office area. Type: Ceramic coated steel.	Quantity: One 8' board at main office area and one 8' board at pool deck. Type: Ceramic coated steel.
<b>Tackboards</b>	Quantity: 4' at offices, 4' at each entry area, and 8' at pool deck. Type: Cedar, cork or vinyl-covered cork.	Quantity: 4' at offices, 8' at each entry area, and 8' at pool deck. Type: Cedar, cork or vinyl-covered cork.
<b>Interior Signage</b>	Type: High impact acrylic room signs with room name and number. Location: Room sign at main entry door to all rooms.	Type: ADA compliant high impact acrylic room signs with room name and number. Location: Room sign at main entry door to all rooms.
<b>Toilet Partitions</b>	Type: Metal. Location: Partitions at toilet stalls.	Type: Plastic laminate covered phenolic panels. Location: Partitions at toilet stalls and screens at urinals.
<b>Toilet Accessories</b>	Type: Mirrors, paper towel dispensers, soap dispensers, grab bars, tampon dispensers, wall hooks and sanitary napkin receptacles. Location: Mirrors at restroom hand wash areas. Paper towel and soap dispensers at all sinks. Grab bars at ADA accessible toilet stalls. Wall hooks in locker rooms. Tampon dispenser and sanitary napkin receptacle at women's restrooms.	Type: ADA compliant mirrors, paper towel dispensers, soap dispensers, grab bars, tampon dispensers, wall hooks, and sanitary napkin receptacles. Location: Mirrors at restroom hand wash areas. Paper towel and soap dispensers at all sinks. Grab bars at ADA accessible toilet stalls. Wall hooks in locker rooms. Tampon dispenser and sanitary napkin receptacle at women's restrooms.
<b>Lockers</b>	Men's Locker Room: Metal lockers with vented and positive latching doors. 36 box lockers each 12" W x 12" D x 12" H and 12 lockers each 12" W x 12" D x 30" H. Women's Locker Room: Metal lockers with vented and positive latching doors. 36 box lockers each 12" W x 12" D x 12" H and 12 lockers each 12" W x 12" D x 30" H. Staff Locker Rooms: None.	Men's Locker Room: Metal lockers with vented and positive latching doors with coin operated key system. 36 box lockers each 12" W x 12" D x 12" H and 24 lockers each 12" W x 12" D x 30" H. Women's Locker Room: Metal lockers with vented and positive latching doors with coin operated key system. 36 box lockers each 12" W x 12" D x 12" H and 24 lockers each 12" W x 12" D x 30" H. Men's Staff Locker Rooms: Metal lockers with vented and positive latching door with padlock hasp. 8 lockers each 12" W x 12" D x 30" H. Women's Staff Locker Rooms: Metal lockers with vented and positive latching door with padlock hasp. 8 lockers each 12" W x 12" D x 30" H.
<b>Residential Appliances</b>	Type: Residential grade. Refrigerator / Freezer: In first aid room. Washer and Dryer: Two washing machines and two dryers in work room.	Type: Residential grade, ADA compliant and ENERGY STAR qualified. Refrigerator / Freezer: In first aid room. Washer and Dryer: Two high capacity washing machines and two dryers in work room.

# AUBURN POOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Window Covering</b>	None.	Exterior Windows: None. Interior windows: Horizontal louver mini-blinds at interior relite windows at offices.
<b>Cabinets</b>	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to a master system. Quantity: As needed to accommodate reception area, office, workroom, first aid, and storage room use.	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to the building master key system. Quantity: As needed to accommodate reception area, office, workroom, first aid, and storage room use.
<b>Display Cases</b>	None.	Type: Recessed aluminum frame display case with hinged door, tackboard at back surface, and keyed to a building master key system. Quantity: 8 LF at front entry lobby.
<b>Equipment - Offices</b>	Computers: Not exceeding 5 years in age. Printers: Ink jet printers not exceeding 4 years in age and laser printers not exceeding 10 years in age. Copy Machines: Ink jet copy machine exceeding 6 years in age. FAX Machine: Not exceeding 10 years in age. Cash Register: Electronic, not exceeding 10 years in age. Credit Card Machine: Electronic, not exceeding 8 years in age.	Computers: Not exceeding 4 years in age. Printers: Ink jet printers not exceeding 2 years in age and laser printers not exceeding 6 years in age. Copy Machines: Ink jet copy machine not exceeding 4 years in age. FAX Machine: Not exceeding 6 years in age.. Cash Register: Electronic, not exceeding 8 years in age. Credit Card Machine: Electronic, not exceeding 6 years in age.
<b>Equipment - Pool Area</b>	Type: One portable water basketball hoop, 1 manual handicap chair lift, 1 portable pool stairs, 2 pace clocks, 5 rope-type lane lines, 5 competition lane lines with reel, 1 pool vacuum, 2 water polo goals.	Type: Two portable water basketball hoop, 1 electric handicap chair lift, 1 portable pool stairs, 2 pace clocks, 5 rope-type lane lines, 5 competition lane lines with reel, 1 pool vacuum, 2 water polo goals.
<b>Pool Bulkhead</b>	Type: Movable fiberglass bulkhead spanning width of pool with built-in floatation and manually operated rollers mounted on gutter edge.	Type: Movable fiberglass bulkhead spanning width of pool with built-in floatation and mechanically operated roller system mounted on gutter edge.
<b>Pool Diving Board</b>	Type: 1 meter, 16' long, competition-grade tapered aluminum spring board with movable fulcrum and platform with stainless steel side rails. Quantity: 1	Type: 1 meter, 16' long, competition-grade tapered aluminum spring board with movable fulcrum and platform with stainless steel side rails. Quantity: 2
<b>Pool Timing System</b>	None.	Type: Automated starting and timing system with timing console; race management computer, printer and software; starting horn and public address system, 6 touch pads, and 6 line LED scoreboard with lane, pace and time displays.
<b>Furniture</b>	Desk Chairs: Upholstered not exceeding 15 years in age. Table Chairs: Hard plastic not exceeding 30 years in age. Spectator Chairs: Folding, stacking plastic not exceeding 30 years in age. Staff Desks: Plastic laminate surfaced not exceeding 30 years in age. Tables: Plastic laminate surfaced not exceeding 30 years in age. File Cabinets: Metal not exceeding 40 years in age.	Staff Chairs: Upholstered not exceeding 10 years in age. Table Chairs: Hard plastic chairs not exceeding 20 years in age. Spectator Chairs: Folding, stacking plastic not exceeding 20 years in age. Teacher Desks: Plastic laminate surfaced not exceeding 20 years in age. Tables: Plastic laminate surfaced not exceeding 20 years in age. File Cabinets: Metal not exceeding 30 years in age.
<b>Vending Machines</b>	Type: Refrigerated beverage machine with motion sensitive illumination control. Quantity: 1 machines. Location: At front entry lobby.	Type: Refrigerated and non-refrigerated machines with motion sensitive illumination control. Quantity: 2 machines. Location: At front entry lobby.

## MECHANICAL

# AUBURN POOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Fire Suppression System</b>	Fire sprinkler system: Wet or dry system in compliance with NFPA 13, and local building codes.	Fire sprinkler system: Wet system in compliance with NFPA 13, local building codes and FM Global Data Sheets 2-8 and 3-6.
<b>Plumbing Insulation</b>	Type: Insulation in compliance with building code at time of construction on domestic hot water lines.	Type: Insulation in compliance with current building code on domestic hot water lines and 1/2" insulation on domestic cold water lines.
<b>Domestic Water System</b>	Piping: Type L copper. Pumps: Bronze fitted pumps. Heating: Gas or electric heaters.	Piping: Type L copper. Pumps: All bronze pumps with isolation valves at both sides of pumps. Heating: Gas heaters.
<b>Domestic Water Quality</b>	Criteria: A maximum level of .015 mg/L (15ppb) of lead and 1.3 mg/L (1300 ppb) of copper in tap water.	Criteria: A maximum level of .015 mg/L (15ppb) of lead and 1.3 mg/L (1300 ppb) of copper in tap water.
<b>Soil and Waste</b>	Type: Cast iron pipe and fittings.	Type: Cast iron pipe and fittings.
<b>Plumbing Fixtures</b>	Water closets: Vitreous china. Urinals: Vitreous china. Lavatories: Vitreous china wall-hung sinks and stainless steel counter-mounted sinks. Drinking fountains: Vitreous china or stainless steel. Trap primers: None.	Water closets: ADA compliant, wall-hung vitreous china with water saving valves . Urinals: ADA compliant, wall-hung vitreous china with water saving valves. Lavatories: ADA compliant, vitreous china wall-hung sinks and stainless steel counter-mounted sinks with self-closing faucets. Drinking fountains: ADA compliant, stainless steel. Trap primers: Electronic trap primers with manual override.
<b>Natural Gas Piping</b>	Type: Black steel, Schedule 40 pipe with butt-weld fittings.	Type: Black steel, Schedule 40 pipe with butt-weld fittings.
<b>Pool System Mechanical Equipment</b>	Type: Filtration pump, filter system, water heating system, chemical control system, chemical storage and feeder system, and flow meter. Location: Filter and mechanical rooms.	Type: Filtration pump, filter system, water heating system, chemical control system, chemical storage and feeder system, and flow meter. Location: Filter and mechanical rooms.
<b>HVAC Duct Insulation</b>	Type: In compliance with building code at time of construction.	Type: In compliance with current building code.
<b>HVAC Pipe Insulation</b>	Type: In compliance with building code at time of construction.	Type: In compliance with current building code.
<b>Hydronic Piping</b>	Type: Type L copper or Schedule 40 black steel.	Type: Type L copper at piping below 2" diameter. Schedule 40 black steel at 2" diameter piping and above with welded or rolled grooved Victaulic fittings.
<b>Hydronic Pumps</b>	Type: Vertical in-line or base mounted end-suction pumps.	Type: Vertical in-line or base mounted end-suction pumps with redundant pumps for back-up.
<b>Refrigerant Piping</b>	Type: Type L hard drawn copper tube, refrigeration grade.	Type: Type L hard drawn copper tube, refrigeration grade.
<b>HVAC Ductwork</b>	Metal ducts: Galvanized sheet metal. Non-metal ducts: Insulated, reinforced flexible duct with vapor barrier jacket.	Metal ducts: Galvanized sheet metal per SMACNA Standards. Non-metal ducts: Insulated, reinforced flexible duct with vapor barrier jacket allowed at locations approved by school district.
<b>HVAC Fans</b>	Type: Forward curved or backward inclined units with 1" filters, non-asbestos flexible connections, standard motors, and belt guards.	Type: Forward curved or backward inclined units with neoprene flexible connections, high efficiency motors, belt guards, minimum two rows of coils, drain valves, and 2" filters contained in factory-built filter rack.

# AUBURN POOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Heating / Ventilation System - Pool Area</b>	Type: Heating and ventilation systems capable of maintaining comfortable temperature range and ventilation.	Type: Heating and ventilation systems capable of maintaining comfortable temperature range and provide ventilation supply in compliance with current codes.
<b>Heating / Ventilation System - Support Spaces</b>	Type: Heating and ventilation systems capable of maintaining comfortable temperature range and ventilation.	Type: Heating and ventilation systems capable of maintaining comfortable temperature range and provide ventilation supply in compliance with current codes.
<b>Air Terminal Units</b>	Type: Steel or aluminum units.	Type: Steel or aluminum units with bird screens at intakes. Heavy-duty units at Gymnasiums and multipurpose rooms.
<b>Boilers</b>	Type: Single gas fired hot water or steam boiler.	Type: Dual hot water, gas-fired, fire-tube, minimum 82% efficient, steel boilers each sized for 66% of load.
<b>Furnaces</b>	Type: Gas fired with 80% efficiency.	Type: Gas fired with minimum 80% efficiency.
<b>Heat Exchangers</b>	Type: Plate-type with 50% efficiency.	Type: Plate-type with 66% efficiency.
<b>Refrigerant Compressors and Condensers</b>	Type: Air cooled units. Location: Single unit per system.	Type: Air cooled units. Location: Single unit serving multiple systems.
<b>Water Chillers</b>	Type: Air cooled with dual compressors.	Type: Dual air cooled units with minimum of 2 compressors each and sound attenuation treatment.
<b>Exhaust Fans</b>	Type: Steel utility or aluminum dome type. Location: Easily accessible for maintenance.	Type: Steel utility or aluminum dome type. Location: In catwalk or mechanical attic area, not on roof.
<b>Heat Pumps</b>	Type: Air cooled units. Location: One unit per zone.	Type: Air cooled units with automatic compressor lock out. Location: One unit per zone.
<b>Fan Coil Units</b>	Type: Units with steel housing, minimal filters, and no outside air.	Type: Units with steel housing, 1" filters, and damper controlled outside air .
<b>Unit Ventilators</b>	Type: Units with heavy-duty steel housing and capacity based on code required CFM.	Type: Units with heavy-duty steel housing, capacity based upon code required CFM, factory installed access panels and filter racks, and NC-35 sound rating.
<b>Unit Heaters</b>	Type: Propeller type gas or hot water units.	Type: Propeller type gas or hot water units.
<b>Automatic Controls</b>	Type: Direct digital control system with individual zone control and thermostat for each instructional space and office area, Local Operator's Station at building's Maintenance Office, and connected to Central Operator's Station at Support Services Center.	Type: Direct digital control system with BACnet automation system, individual zone control and thermostat for each instructional space and office area, Dynamic Data exchange, Local Operator's Station at building Maintenance Office, and connected to Central Operator's Station at Support Services Center.
<b>ELECTRICAL</b>		
<b>Transformers</b>	Type: Dry type with capacity for calculated load.	Type: Low noise, dry type with capacity for calculated load plus 20%.
<b>Switchgear</b>	Type: Fuse or circuit breaker type with capacity for calculated load.	Type: Fuse or circuit breaker type with capacity for calculated load plus 15% and includes 15% spares.

# AUBURN POOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Panelboards</b>	Type: Circuit breaker type.	Type: Circuit breaker type with 15% spares.
<b>Power Distribution</b>	Type: Copper for #1 wire or less. Copper or aluminum for wire greater than #1.	Type: Copper wire.
<b>Power Conditioning</b>	None.	Type: Transient voltage surge suppressors. Location: At panelboards for protection of lighting, receptacles and computers.
<b>Wiring Devices</b>	Type: 15 or 20 amp.	Type: 20 amp.
<b>Electrical Outlets - Interior</b>	Quantity: One duplex electrical receptacle for each electrical equipment item plus one at one of the perimeter walls in each room.	Quantity: One duplex electrical receptacle for each electrical equipment item plus one at each wall.
<b>Electrical Outlets - Emergency Power</b>	None.	Quantity: Duplex electrical receptacles connected to emergency generator at main office area, filter room and mechanical room.
<b>Circuit Protection Devices</b>	Type: Circuit breakers with fuses at selected equipment.	Type: Circuit breakers with fuses at selected equipment.
<b>Packaged Generator</b>	None.	Type: Diesel-fired with belly tank and minimum 48-hour operation capability with capacity to operate emergency lighting, stand-by lighting, fire alarm system, telephone, intercom, telecommunications equipment, and selected electrical outlets plus 10% additional capacity.
<b>Battery Equipment</b>	Type: Uninterrupted power supply for intercom, telephone, and energy management systems. Back-up battery for fire alarm system.	Type: Uninterrupted power supply for intercom, telephone, and energy management systems. Back-up battery for fire alarm system.
<b>Lighting - Exterior - Main Entry</b>	Type: Pole or building mounted fixtures with 5.0 foot-candle level controlled by photocell and EMS. Location: At front entrance between building and entry drive.	Type: Pole or building mounted fixtures with 8.0 foot-candle level controlled by photocell and EMS. Location: At front entrance between building and entry drive.
<b>Lighting - Exterior - Parking</b>	Type: Pole mounted fixtures with 0.8 foot-candle level controlled by photocell and EMS. Location: At parking lots.	Type: Pole mounted fixtures with 1.0 foot-candle level controlled by photocell and EMS. Location: At parking lots.
<b>Lighting - Locker Rooms</b>	Type: Fluorescent fixtures with a minimum of 50 foot-candle level and maximum of 1.3 watts per SF.	Type: T-8 or T-5 fluorescent fixtures with parabolic louvers to control screen glare, minimum 50 foot-candle level and a maximum of 1.1 watts per SF.
<b>Lighting - Pool Area</b>	Type: Fluorescent or metal halide fixtures with a minimum 30 foot-candle level and a maximum of 1.3 watts per SF.	Type: Metal halide fixtures, pendant and hook mounted with instant restart at emergency fixtures with a minimum 30 foot-candle level and a maximum of 1.2 watts per SF.
<b>Lighting - Restrooms</b>	Type: Fluorescent fixtures with a minimum 20 foot-candle level and a maximum of 1.1 watts per SF.	Type: T-8, T-5 and compact fluorescent fixtures with a minimum 20 foot-candle level and a maximum of 0.8 watts per SF.
<b>Lighting - Support Spaces</b>	Type: Fluorescent fixtures with a minimum 50 foot-candle level and a maximum of 1.3 watts per SF.	Type: T-8 or T-5 fluorescent fixtures with parabolic louvers to control screen glare with a minimum 50 foot-candle level and a maximum of 1.1 watts per SF.
<b>Automatic Lighting Control</b>	Exterior lighting: Time clock and photocell control.	Exterior lighting: EMS and photocell control with separate zones. Interior lighting: Occupancy sensors in entry areas.

# AUBURN POOL

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Exit Signs</b>	Type: In compliance with building code at time of construction.	Type: In compliance with current building code and connected to emergency generator.
<b>Data Communications Cabling</b>	None.	Backbone: 6 pair multimode optical fiber between MC and HC locations. Wiring: Category 5e below grade and Category 6 above grade between computer equipment and MC or HC.
<b>Data Communications Equipment</b>	Filter: Granular site-based web content filtering. Router: 10 Mb WAN connectivity. Routing: Layer 3 capability in core switch at MC. Switch: 10 /100 / 1000 host capability. Traffic shaping: Site-based capability. WAN connectivity speed: 10 Mb. UPS: For routers, switches, and servers providing a minimum of 5 minutes of uninterrupted power.	Filter: Granular site-based web content filtering. Router: 100 Mb WAN connectivity. Routing: Layer 3 capability in core switch at MC. Switch: 10 /100 / 1000 host capability. Traffic shaping: Site-based capability. WAN connectivity speed: 1,000 Mb. UPS: For routers, switches, and servers providing a minimum of 10 minutes of uninterrupted power.
<b>Data Communications Outlets - Offices</b>	Quantity: One data outlet at reception area office and at staff office.	Quantity: Two data outlets each at reception area office, staff office and pool deck scoring table area.
<b>Telephone / Sound System</b>	Type: Digital PBX central exchange telephone system with voice mail, and loud speaking communications	Type: Digital PBX central exchange telephone system with voice mail, loud speaking communications, and dial-up zone paging.
<b>Intrusion Detection</b>	Type: Multi-zone system with NAPCO control panel, keypad activation device, and passive infrared motion detectors. Location: Control panel in office area, keypad at front entry door. Detection devices in front entry and pool area.	Type: Multi-zone system with NAPCO control panel, keypad activation device, and passive infrared motion detectors. Location: Control panel in office area, keypad at front entry door. Detection devices at entry areas, filter room, and pool area.
<b>Fire Detection and Alarm</b>	Type: Automatic addressable alarm and detection system in compliance with building code at time of construction. Plastic guards with local alarm at pull stations. Location: Detection and alarm devices located in compliance with building code at time of construction and annunciator at front entry.	Type: Automatic addressable alarm and detection system in compliance with current building code. Plastic guards with local alarm at pull stations. Location: Detection and alarm devices located in compliance with current building code, control panel and printer in Maintenance Office, graphic annunciator at front entry, and LCD annunciator with controls at Main Office.

# SUPPORT SERVICES CENTER

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>SITE AREAS</b>		
<b>Parking and Access - Delivery Vehicles</b>	Quantity: 3 loading dock delivery vehicle stalls, 1 at-grade deliver stall, 12' wide. Type: Concrete. Location: 3 delivery stalls adjacent to loading dock. One stall adjacent to Warehouse office delivery door.	Quantity: 4 loading dock delivery vehicle stalls, 1 at-grade deliver stall, 14' wide. Type: Concrete. Location: 4 delivery stalls adjacent to loading dock. One stall adjacent to Warehouse office delivery door.
<b>Parking and Access - Maintenance Vehicles</b>	Quantity: 35 stalls, 9' wide. Type: Asphalt, 20-year life. Location: Separate from delivery area, visitor and staff parking, and exterior storage area.	Quantity: 42 stalls, 10' wide. Type: Asphalt, 30-year life. Location: Separate from delivery area, visitor and staff parking, and exterior storage area.
<b>Parking and Access - Staff</b>	Quantity: 54 stalls, 9' wide. Type: Asphalt, 20-year life. Location: Separate from delivery area and exterior storage area.	Quantity: 60 stalls, 9' wide. Type: Asphalt, 30-year life. Location: Separate from delivery area, visitor parking, maintenance vehicle parking and exterior storage area.
<b>Parking and Access - Visitors</b>	Quantity: 5 stalls, 9' wide. Type: Asphalt, 20-year life. Location: At front of building.	Quantity: 30 stalls, 9' wide. Type: Asphalt, 30-year life. Location: At front of building and separated from delivery area, staff and maintenance vehicle parking, and exterior storage area.
<b>Parking and Access - Warehouse Vehicles</b>	Quantity: 5 stalls, 12' wide with electrical outlet for engine block heater at each stall. Type: Asphalt, 20-year life. Location: Separate from maintenance vehicle, visitor and staff parking, and exterior storage area.	Quantity: 6 stalls, 14' wide with electrical outlet for engine block heater at each stall. Type: Asphalt, 30-year life. Location: Separate from maintenance vehicle, visitor and staff parking, and exterior storage area.
<b>Street Frontage Sidewalks</b>	Type: 5' wide with ADA compliant curb cuts, asphalt.	Type: 6' wide with ADA compliant curb cuts, concrete.
<b>On-Site Walkways</b>	Type: 5' wide with ADA compliant curb cuts, asphalt.	Type: 6' wide with ADA compliant curb cuts, concrete.
<b>Stairs and Ramps</b>	Type: 5' wide, ADA compliant, concrete.	Type: 6' wide, ADA compliant, concrete with abrasive stair nosings at stairs and detectible warning pattern at ramps.
<b>Lawns</b>	Type: Irrigated grass turf. Location: At front of building and adjacent to landscape areas where suitable.	Type: Irrigated grass turf with concrete mow strip around posts and hydrants and where grass is adjacent to building. Location: At front of building and adjacent to landscape areas where suitable.
<b>Dumpster Area</b>	Type: Designated area to accommodate one 20 YD garbage dumpster and 3 recycle dumpsters that are 8 YD, 20 YD and 20 YD. Location: Located for efficient access from building and accessible for pick-up by refuse trucks.	Type: Designated area to accommodate one 20 YD garbage dumpster and 3 recycle dumpsters that are 8 YD, 20 YD and 30 YD. Location: Located for efficient access from building and accessible for pick-up by refuse trucks. Visually screened from view on 3 sides
<b>Covered Storage Area</b>	Quantity: 4,000 SF. Location: Separated from main building with access on three sides.	Quantity: 5,000 SF. Location: Separated from main building with access on three sides.



# SUPPORT SERVICES CENTER

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Exterior Storage Area</b>	Quantity: Five exterior storage compartments, each 100 SF in size. Type: Landscape material storage compartments separated on 3 sides by concrete block walls with drainage to catch basins. Location: Accessible for material delivery and pick up by large vehicles.	Quantity: Seven exterior storage compartments, each 160 SF in size. Type: Landscape material storage compartments separated on 3 sides by concrete block walls with drainage to catch basins. Location: Accessible for material delivery and pick up by large vehicles. Screened from view from off-site.
<b>SITE IMPROVEMENTS</b>		
<b>Fences and Gates</b>	Type: Chainlink fencing at perimeter of property. 24' wide chainlink vehicle gate at main entry. Height: 6'	Type: Chainlink fencing at perimeter of property. 30' wide mechanized chainlink vehicle gate with card reader at main entry. Height: 6'
<b>Pipe Rail Gates and Railings</b>	Gates: 12' wide made from galvanized steel pipe with padlock hardware and reflective warning tape. Railings: Made from galvanized steel pipe.	Gates: 16' wide made from galvanized steel pipe with padlock hardware and reflective warning tape. Railings: Made from galvanized steel pipe, ADA compliant.
<b>Retaining Walls</b>	Type: Concrete, segmental block or rockery.	Type: Concrete, segmental block or rockery.
<b>Bicycle Racks</b>	None.	Quantity: Racks for 6 bikes. Type: Galvanized "ribbon" metal. Location: At covered exterior area.
<b>Dumpsters</b>	Garbage dumpsters: One 20 YD dumpster located for efficient access from building. Recycle dumpsters: One 8 YD co-mingle, one 20 YD metal, and one 20 YD yard waste dumpster located for efficient access from building.	Garbage dumpsters: One 20 YD dumpster located for efficient access from building. Recycle dumpsters: One 8 YD co-mingle, one 20 YD metal, and one 30 YD yard waste dumpster located for efficient access from building.
<b>Exterior Benches</b>	None.	Quantity: 1 at front entry of building. Type: Durable non-wood material.
<b>Exterior Waste Receptacles</b>	None.	Quantity: One at front entry of building. Type: Heavy-duty galvanized can with push door dome top.
<b>Flag Pole</b>	Type: 25' painted metal. Location: Front of building and accessible from hard surface.	Type: 30' spun aluminum with internal halyard. Location: Front of building and accessible from hard surface.
<b>Site Sign</b>	None.	Type: Concrete or masonry monument sign with building name and address. Location: At front entry to site.
<b>Traffic Control Signs</b>	Type: As needed for traffic and parking control. Location: At HC parking stalls, maintenance and warehouse parking stalls, delivery vehicle stalls, parking lots, service drive, entry road.	Type: As needed for traffic and parking control. Location: At HC parking stalls, maintenance and warehouse parking stalls, delivery vehicle stalls, parking lots, service drive, entry road.
<b>Pavement Markings</b>	Type: Painted lines at cross walks, stop bars, traffic arrows, parking stalls, HC parking symbols, and fire lanes. Location: Parking lots, delivery area, and entry roads.	Type: Painted lines at parking stalls, HC parking symbols, and fire lanes. Thermoplastic markings at cross walks, stop bars, and traffic arrows. Location: Parking lots, delivery area, and entry roads.
<b>LANDSCAPING</b>		

# SUPPORT SERVICES CENTER

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Shrubs / Groundcover</b>	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department with automated irrigation system. Location: At building perimeter, parking lot islands, and perimeter landscape buffers.	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department with automated irrigation system. Location: At building perimeter, parking lot islands, and perimeter landscape buffers.
<b>Trees</b>	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department. Location: At lawn areas, street frontage, parking lot islands, and perimeter landscape buffers.	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department. Location: At lawn areas, street frontage, parking lot islands, and perimeter landscape buffers.
<b>Irrigation System</b>	Type: Automated system with separate water meter. Location: At lawns and landscape areas.	Type: Automated system controlled by EMS with separate water meter. Location: At lawns and landscape areas.
<b>UTILITIES</b>		
<b>Water System</b>	Type: Ductile iron pipe with separate domestic and fire service systems, deduct meter for irrigation system, backflow preventer and FDC on fire system. Size: As required for flow requirements. Location: As required by local water purveyor.	Type: Ductile iron pipe with separate domestic and fire service systems, separate (non-deduct) meter for irrigation system, backflow preventer and FDC on fire system. Supplemental electronic meters for domestic and irrigation systems located in Main Mechanical Room and connected to EMS. Size: As required for flow requirements. Location: As required by local water purveyor with domestic and irrigation meters located close to building.
<b>Sanitary Sewer System</b>	Type: PVC or concrete pipe with positive slope in compliance with Dept. of Ecology "Orange Book". Size: 6" diameter side and main sewer. Location: As required by local sewer purveyor with manhole structures easily accessible for maintenance.	Type: PVC pipe with ductile iron pipe where cover is less than 24". Positive slope in compliance with Dept. of Ecology "Orange Book" and locking manhole covers. Size: 6" diameter side and 8" diameter main sewer. Location: As required by local sewer purveyor with manhole structures easily accessible for maintenance.
<b>Storm Drainage System</b>	Type: Concrete pipe, ductile iron, PVC or corrugated polyethylene pipe. Size: 4" diameter footing and roof drains. 8" diameter site storm drains. Location: As required by local jurisdiction with drainage structures easily accessible for maintenance.	Type: PVC or corrugated polyethylene pipe with ductile iron pipe where cover is less than 24". Locking grates and Type 2 manhole structures where invert is deeper than 60". Clean outs at the base of all downspouts and at ends of roof and footing drain lines. Size: 6" diameter footing and roof drains. 8" diameter site storm drains. Location: As required by local jurisdiction with drainage structures easily accessible for maintenance.
<b>Natural Gas Service</b>	Type: Capacity as required for building gas load provided in inches or pounds. Location: Underground with gas meter adjacent to exterior wall of building.	Type: Capacity in pounds as required for building gas load with a minimum of 2 pounds and supplemental electronic meter located in Main Mechanical Room and connected to EMS. Location: Underground with gas meter adjacent to exterior wall of building.
<b>Fuel Storage Tanks</b>	Underground storage tanks: Steel with corrosion-resistant coating. Locate close to equipment receiving fuel and below an area that is accessible for future excavation. Above ground storage tanks: Steel with corrosion protection and secondary containment area. Locate close to equipment receiving fuel.	Underground storage tanks: Not acceptable. Above ground storage tanks: Steel with corrosion protection and secondary containment area. Locate close to equipment receiving fuel.

# SUPPORT SERVICES CENTER

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Electrical Service</b>	Type: As required for calculated electrical load. Location: Underground.	Type: As required for calculated electrical load plus 15% spares with fully coordinated over current protection. Location: Underground.
<b>Telephone Service</b>	Type: 15 voice grade Centrex lines. Size: 2" conduit. Location: Underground.	Type: 17 voice grade Centrex lines. Size: Two 4" conduit. Location: Underground.
<b>Internet Connection</b>	Type: One T1 lines with 1.54 MB bandwidth. Location: Underground.	Type: Optical fiber with a 100 MB bandwidth. Location: Underground with spare 4" conduit for future expansion.
<b>Energy Usage - MBTUs per SF Building Area</b>	Annual usage: .042 MBTUs per SF.	Annual usage: .034 MBTUs per SF.
<b>Water Usage - Domestic Water per SF Building Area</b>	Annual usage: Average of last three years.	Annual usage: 80% of the average of the last three years.
<b>Water Usage - Irrigation Water per SF Landscape Area</b>	Annual usage: Average of last three years.	Annual usage: 80% of the average of the last three years.
<b>STRUCTURE</b>		
<b>Foundation</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>Floor Structure</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>Wall Structure - Bearing</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>Wall Structure - Non Bearing</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>Roof Structure</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>BUILDING ENVELOPE</b>		
<b>Floors</b>	Ground level: Reinforced concrete slab-on-grade with vapor retarder and capillary break. Upper level: Reinforced concrete over wood or metal decking.	Ground level: Reinforced concrete slab-on-grade with vapor retarder and capillary break. Upper level: Reinforced concrete metal decking.
<b>Exterior Wall Surface</b>	Type: Cement board siding, metal siding, or window wall.	Type: Masonry or concrete.
<b>Exterior Wall Insulation</b>	Type: R-11.	Type: R-19 or greater if required by code.
<b>Exterior Windows</b>	Quantity: 20 SF of glazing at each office, 20 SF of glazing at small conference rooms, and 40 SF of glazing at large conference rooms. Type: Fixed or operable sash metal frames with dual glazing. Location: At all offices and conference rooms.	Quantity: 24 SF of glazing at each office, 24 SF of glazing at small conference rooms, and 48 SF of glazing at large conference rooms. Type: Operable sash prefinished aluminum frames with 1/4" dual glazing, low E coating, and U-value less than 40. Location: At all offices and conference rooms.

# SUPPORT SERVICES CENTER

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Exterior Doors</b>	<p>Pedestrian doors: Solid core wood or 16-gauge painted hollow metal doors. Located as required for ease of circulation and fire exiting. 3' x 6'-8" except a pair of 3' x 6'-8" doors with removable mullion at exterior door of mechanical equipment spaces.</p> <p>Sectional overhead doors: Steel section doors with manual operation at doors less than 10' wide and mechanical operation at doors 10' or wider. Located at vehicle delivery and wide clearance doors.</p> <p>Coiling overhead doors: Steel interlocking slat door with insulated slats and chain hoist operation. Located at vehicle delivery and wide clearance doors where overhead door is required but has limited overhead clearance and will not accommodate an overhead sectional door.</p>	<p>Pedestrian doors: Solid core wood or 14-gauge painted hollow metal doors with hollow metal frame and U-value less than 40. Located as required for ease of circulation and fire exiting. 3' x 7' except a pair of 3' x 7' doors with removable mullion at exterior door of mechanical equipment spaces.</p> <p>Sectional overhead doors: Steel section doors with mechanical operation. Located at vehicle delivery and wide clearance doors.</p> <p>Coiling overhead doors: Steel interlocking slat door with insulated slats and chain hoist operation. Located at vehicle delivery and wide clearance doors where overhead door is required but has limited overhead clearance and will not accommodate an overhead sectional door.</p>
<b>Soffits</b>	Type: Painted wood.	Type: Painted MDO plywood or prefinished metal.
<b>Flashing</b>	Type: Painted metal.	Type: Pre-finished 24-gauge sheet metal.
<b>Trim</b>	Type: Painted wood.	Type: Pre-finished 24-gauge sheet metal.
<b>Gutters and Downspouts</b>	<p>Gutters: Painted metal located at edge of roof.</p> <p>Downspouts: Painted PVC or metal.</p>	<p>Gutters: Pre-finished 22-gauge sheet metal field formed in continuous lengths located at edge of roof.</p> <p>Downspouts: Pre-finished 11-gauge sheet metal with rain diverters at roof valleys and connected to storm drainage system or rain garden.</p>
<b>Roof Membrane</b>	<p>Low-sloped roof: Built-up roofing with mineral cap sheet.</p> <p>Pitched roof: 30-year fiberglass composition shingles.</p>	<p>Low-sloped roof: Single-ply Hypolon membrane.</p> <p>Pitched roof: Pre-finished 24-gauge metal.</p>
<b>Roof Insulation</b>	Type: R-19.	Type: R-38 or greater if required by code, installed at roof level.
<b>Roof Accessories</b>	<p>Type: Painted metal.</p> <p>Location: Minimum 5' separation from roof drains, edges and valleys.</p>	<p>Type: Pre-finished metal with protected electrical receptacle at all mechanical equipment.</p> <p>Location: Minimum 10' separation from roof drains, edges and valleys.</p>
<b>Skylights</b>	Type: Translucent glazing and 300-pound point load capacity.	Type: Translucent, dual-surface, reinforced plastic glazing with pre-finished aluminum frame and 300-pound point load capacity.
<b>Fall Arrest System</b>	<p>Type: Fall protection roof anchors in compliance with UMC, WISHA and OSHA standards.</p> <p>Location: In compliance with WISHA and OSHA standards.</p>	<p>Type: Fall protection roof anchors and railings in compliance with UMC, WISHA and OSHA standards.</p> <p>Location: In compliance with UMC, WISHA and OSHA standards.</p>
<b>Canopies / Covered Walkways</b>	<p>Type: Metal framed with single-ply Hypolon membrane or built-up roof with mineral cap sheet.</p> <p>Location: At front entry, delivery and maintenance vehicle loading areas.</p>	<p>Type: Metal framed with pre-finished metal roof.</p> <p>Location: At front entry, delivery and maintenance vehicle loading areas.</p>
<b>INTERIORS</b>		
<b>Floors - Corridors and Stairs</b>	<p>VCT: 12" x 12" tile.</p> <p>Walk-off mat: Loose-laid mat with synthetic pile at exterior doors.</p>	<p>VCT: 12" x 12" tile.</p> <p>Walk-off mat: Glue-down mat with synthetic pile and polypropylene / vinyl backing at exterior doors.</p>

# SUPPORT SERVICES CENTER

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Floors - Offices</b>	Carpet: Synthetic pile with synthetic backing.	Carpet: Synthetic pile with polypropylene / vinyl backing.
<b>Floors - Restrooms</b>	Seamless flooring: Resin flooring or sheet vinyl.	Ceramic tile: Unglazed porcelain tile.
<b>Floors - Support Spaces</b>	Carpet: Synthetic pile with synthetic backing at reception areas, conference rooms, and staff lounge. VCT: 12" x 12" tile at print shop and staff work room. Seamless flooring: In locker rooms. Concrete: Sealed concrete at laundry, custodial, telecommunications, storage, mechanical and electrical rooms. Plywood: Plywood floor deck at catwalks and mechanical attics.	Carpet: Synthetic pile with polypropylene / vinyl backing at reception areas, conference rooms, and staff lounge. VCT: 12" x 12" tile at print shop, storage and telecommunications rooms. Sheet vinyl: Vinyl sheet flooring at custodial rooms. Ceramic tile: Unglazed porcelain tile in locker rooms. Concrete: Sealed concrete at laundry, storage rooms, mechanical and electrical rooms, and at catwalks and mechanical attics in metal frame buildings. Plywood: Plywood floor deck at catwalks and mechanical attics in wood frame buildings.
<b>Floors - Warehouse</b>	Type: Sealed concrete.	Type: Sealed concrete.
<b>Floors - Workshops</b>	Type: Sealed concrete.	Type: Sealed concrete.
<b>Walls - Offices</b>	Type: Painted gypsum wallboard.	Type: Painted gypsum wallboard.
<b>Walls - Restrooms</b>	Gypsum wallboard: Painted wallboard above wainscot. Wainscot: Plastic laminate or ceramic tile behind lavatories and toilet fixtures.	Gypsum wallboard: Painted wallboard above wainscot. Wainscot: Plastic laminate or ceramic tile at all walls.
<b>Walls - Support Spaces</b>	Gypsum wallboard: Painted wallboard. Wainscot: MDO or MDF wainscot in storage rooms 4' high.	Gypsum wallboard: Painted wallboard. Wainscot: MDO or MDF wainscot in storage rooms 7' high.
<b>Walls - Warehouse</b>	Gypsum wallboard: Painted wallboard above wainscot. Wainscot: MDO or MDF wainscot 7' high.	Concrete or masonry: Painted.
<b>Walls - Workshops</b>	Gypsum wallboard: Painted wallboard above wainscot. Wainscot: MDO or MDF wainscot 7' high.	Concrete or masonry: Painted.
<b>Asbestos-Containing Materials</b>	Criteria: Asbestos-containing building materials present in a facility shall be intact, undisturbed and included in an asbestos management plan in compliance with AHERA regulations.	Criteria: Asbestos-containing building materials shall not be present.
<b>Interior Doors</b>	Solid core wood: At offices, staff lounge, and conference rooms. Hollow metal: At workshops, warehouse, storage rooms, corridors and laundry.	Solid core wood: 1 - 3/4" thick with wood veneer at offices, staff lounge, and conference rooms. Hollow metal: 16 gauge at workshops, warehouse, storage rooms, corridors and laundry.
<b>Door Hardware</b>	Locksets: Schlage or Corbin with keying that matches the school district's Schlage or Corbin Master Key system.	Closers and handles: ADA compliant. Door mullions: Removable and secured with key. Locksets: Schlage with Primus at exterior doors and keying that matches the school district's Schlage Great Grand Master Key system.

# SUPPORT SERVICES CENTER

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Automatic Door Opener</b>	None.	Type: ADA compliant with keyed power shut off at door. Location: At main entry door.
<b>Overhead Doors and Grilles</b>	Interior overhead doors and grilles: Manually operated up to 6' wide. Motorized operation when over 6' wide. Fire-rated overhead doors and grilles shall be activated by local smoke or heat detectors.	Interior overhead doors and grilles: Manually operated up to 6' wide. Motorized operation when over 6' wide. Fire-rated overhead doors and grilles shall be activated by local smoke or heat detectors.
<b>Interior Windows</b>	Type: Wood or metal frame with glazing in compliance with applicable building codes.	Type: Metal frame with safety glass.
<b>Ceilings - Corridors</b>	Type: Surface applied acoustical ceiling tile or suspended acoustical ceiling panels. Height: Minimum 9'.	Type: Surface applied acoustical ceiling tile or 2' x 2' suspended acoustical ceiling panels. Height: Minimum 9'.
<b>Ceilings - Offices</b>	Type: Surface applied acoustical ceiling tile or suspended acoustical ceiling panels. Height: Minimum 9'.	Type: Surface applied acoustical ceiling tile or suspended acoustical ceiling panels. Height: Minimum 9'.
<b>Ceilings - Support Spaces</b>	Gypsum board: Custodial and mechanical rooms, minimum 9' high. Acoustical ceiling: Surface applied or suspended acoustical ceiling tile in conference rooms, restrooms, staff lounge, storage and work rooms, minimum 9' high.	Gypsum board: Restrooms, custodial and mechanical rooms, minimum 9' high. Acoustical ceiling: Surface applied or suspended acoustical ceiling tile in conference rooms, staff lounge, storage and workrooms, minimum 9' high.
<b>Ceilings - Warehouse</b>	Type: Exposed structure. Height: Minimum 22'.	Type: Exposed structure. Height: Minimum 24'.
<b>Ceilings - Workshops</b>	Type: Exposed structure. Height: Minimum 20'.	Type: Exposed structure. Height: Minimum 22'.
<b>EQUIPMENT AND SPECIALTIES</b>		
<b>Marker Boards</b>	Quantity: One 4' board at small conference rooms. One 8' board at large conference rooms. Type: Ceramic coated steel.	Quantity: One 4' board at small conference rooms. One 8' board at large conference rooms. Type: Ceramic coated steel.
<b>Tackboards</b>	Quantity: 4' at offices and workrooms, 8' at staff lounge, 4' at small conference rooms, and 8' at large conference rooms. Type: Cedar, cork or vinyl-covered cork.	Quantity: 8' at offices and workrooms, 8' at staff lounge, 4' at small conference rooms, and 8' at large conference rooms. Type: Cork or vinyl-covered cork.
<b>Exterior Signage</b>	Type: Pre-finished metal lettering at front of building identifying building name and street number.	Type: Pre-finished metal lettering at front of building identifying building name and address.
<b>Interior Signage</b>	Type: High impact acrylic room signs with room name and number. Location: Room sign at main entry door to all rooms.	Type: High impact acrylic room signs with room name, number and raster Braille. Cast metal dedication plaque. Location: Room sign at main entry door to all rooms. Dedication plaque at entry lobby.
<b>Toilet Partitions</b>	Type: Plastic laminate covered fiber board. Location: Partitions at toilet stalls.	Type: Plastic laminate covered phenolic panels. Location: Partitions at toilet stalls and screens at urinals.
<b>Toilet Accessories</b>	Type: Mirrors, paper towel dispensers, soap dispensers, grab bars, tampon dispensers and sanitary napkin receptacles. Location: Mirrors at restroom hand wash areas. Paper towel and soap dispensers at all sinks. Grab bars at ADA accessible toilet stalls. Tampon dispenser and sanitary napkin receptacle at women's restrooms.	Type: ADA compliant mirrors, paper towel dispensers, soap dispensers, grab bars, tampon dispensers and sanitary napkin receptacles. Location: Mirrors at restroom hand wash areas. Paper towel and soap dispensers at all sinks. Grab bars at ADA accessible toilet stalls. Tampon dispenser and sanitary napkin receptacle at women's restrooms.

# SUPPORT SERVICES CENTER

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Lockers</b>	Type: 30 individual double tier metal lockers, each 12" W x 12" D x 30" H, with padlock hasp. Location: Staff locker area.	Type: 30 lockers, each 12" W x 12" D x 60" H, with padlock hasp. Location: Dispersed throughout work shops and print shop.
<b>Residential Appliances</b>	Type: Residential grade. Ranges: Electric range with oven in staff lounge. Exhaust hoods: Electric exhaust fan with removable and cleanable filters above range in staff lounge. Microwave ovens: Portable microwave in staff lounge. Refrigerator: One large capacity refrigerator with freezer compartments in staff lounge.	Type: Residential grade, ADA compliant and ENERGY STAR qualified. Ranges: Electric range with oven at staff lounge. Exhaust hoods: Electric exhaust fan with removable and cleanable filters above range in staff lounge. Microwave ovens: Portable microwave in staff lounge. Refrigerator: Two large capacity refrigerators with freezer compartment in staff lounge.
<b>Projection Screens</b>	Large conference rooms: 60" W x 60" H with manual operation.	Large conference rooms: 72" W x 72" H with manual operation.
<b>Window Covering</b>	Type: Horizontal louver blinds or roller shades at exterior windows. Horizontal louver mini-blinds at interior relite windows at offices.	Type: Horizontal louver blinds at exterior windows. Horizontal louver mini-blinds at interior relite windows at offices.
<b>Cabinets - Offices</b>	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to a master system. Quantity: As needed to accommodate office use.	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, and locks keyed to the building master key system. Quantity: As needed to accommodate office use.
<b>Cabinets - Support Spaces</b>	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to a master system. Quantity: As needed to accommodate support space use.	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to the building master key system. Quantity: As needed to accommodate support space use.
<b>Equipment - Large Conference Rooms</b>	Audio Visual Cart: Cart with computer and LCD Projector for each large conference room.	Audio Visual Cart: Cart with computer, LCD Projector and document camera for each large conference room.
<b>Equipment - Laundry</b>	Type: 2 commercial grade washing machines, 2 commercial grade dryers, 2 residential-grade washing machines.	Type: 2 commercial grade washing machines, 2 commercial grade dryers, 2 residential-grade ENERGY STAR qualified washing machines.
<b>Equipment - Offices</b>	Computers: One computer, not exceeding 5 years in age, for each staff member. Printers: One laser printer, not exceeding 8 years in age, for each staff member.	Computers: One computer, not exceeding 4 years in age, for each staff member. Printers: One laser printer, not exceeding 6 years in age, for each staff member.
<b>Equipment - Print Shop</b>	Copy Machines: Two 105 copies per minute machine production quality machine with binder and hole punch features, not exceeding 7 years in age.	Copy Machines: Two 105 copies per minute machine production quality machine with binder and hole punch features, not exceeding 5 years in age.
<b>Equipment - Warehouse</b>	Type: 1 forklift, 1 telescoping pallet jack, 3 motorized pallet jacks.	Type: 1 forklift, 1 telescoping pallet jack, 5 motorized pallet jacks.
<b>Equipment - Staff Workrooms</b>	Copy Machines: One 25 copies per minute machine, non-networked, not exceeding 7 years in age. FAX Machine: One machine, not exceeding 10 years in age.	Copy Machines: One networked, 25 copies per minute machine, not exceeding 5 years in age. FAX Machine: One networked machine, not exceeding 6 years in age.
<b>Equipment - Workshops</b>	Type: Wood working, metal working, glazing, electrical and painting equipment as needed to accommodate school district maintenance activities. Locations: Carpentry, Common, Electrical, Grounds, Mechanical, and Paint / Glazing workshops.	Type: Wood working, metal working, glazing, electrical and painting equipment as needed to accommodate school district maintenance activities. Locations: Carpentry, Common, Electrical, Grounds, Mechanical, and Paint / Glazing workshops.

# SUPPORT SERVICES CENTER

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Furniture - Conference Rooms</b>	Chairs: Hard plastic stacking chairs not exceeding 30 years in age at conference tables. Conference tables: Plastic laminate surfaced tables not exceeding 30 years in age.	Chairs: Hard plastic stacking chairs not exceeding 25 years in age at conference tables. Conference tables: Plastic laminate surfaced tables not exceeding 25 years in age.
<b>Furniture - Offices</b>	Staff Chairs: Upholstered not exceeding 20 years in age. Staff Desks: Plastic laminate surfaced not exceeding 30 years in age. Tables: Plastic laminate surfaced not exceeding 30 years in age. File Cabinets: Metal not exceeding 40 years in age.	Staff Chairs: Upholstered not exceeding 15 years in age. Staff Desks: Plastic laminate surfaced not exceeding 20 years in age. Tables: Plastic laminate surfaced not exceeding 25 years in age. File Cabinets: Metal not exceeding 30 years in age.
<b>Furniture - Reception Area</b>	Chairs: Four upholstered chairs.	Chairs: Four upholstered chairs and two moveable upholstered chairs at work counter . Work counter: 4' work counter.
<b>Furniture - Staff Lounge</b>	Chairs: 20 hard plastic stacking chairs not exceeding 25 years in age. Tables: 3 plastic laminate surfaced tables not exceeding 30 years in age.	Chairs: 30 hard plastic stacking chairs not exceeding 20 years in age. Tables: 4 plastic laminate surfaced 48" diameter tables not exceeding 20 years in age.
<b>Furniture - Workrooms</b>	Tables: Plastic laminate surfaced not exceeding 30 years in age.	Tables: Plastic laminate surfaced not exceeding 25 years in age.
<b>Vending Machines</b>	Type: Refrigerated or non-refrigerated machines with motion sensitive illumination control. Quantity: 1 machines. Location: At corridor near staff lounge.	Type: Refrigerated and non-refrigerated machines with motion sensitive illumination control. Quantity: 2 machines. Location: At corridor near staff lounge.
<b>Warehouse Shelving</b>	Type: Steel pallet rack system with 3000-pound per pallet capacity, each 9'W x 4' D x 5'-6" H, stacked 3 high. Quantity: 400 racks.	Type: Steel pallet rack system with 3000-pound per pallet capacity, each 9'W x 4' D x 5'-6" H, stacked 3 high. Quantity: 450 racks.
<b>Wheelchair Lift</b>	Type: ADA compliant with key access controls. Location: Where needed for ADA compliance. Size: 36" W x 48" D platform space.	Type: ADA compliant with controls keyed to the building master key system. Location: Where required for ADA compliance and integrated with building architecture. Size: 36" W x 48" D platform space.
<b>MECHANICAL</b>		
<b>Fire Suppression System</b>	Fire sprinkler system: Wet or dry system in compliance with NFPA 13, and local building codes	Fire sprinkler system: Wet system in compliance with NFPA 13, local building codes and FM Global Data Sheets 2-8 and 3-6.
<b>Plumbing Insulation</b>	Type: Insulation in compliance with building code at time of construction on domestic hot water lines.	Type: Insulation in compliance with current building code on domestic hot water lines and 1/2" insulation on domestic cold water lines.
<b>Domestic Water System</b>	Piping: Type L copper. Pumps: Bronze fitted pumps. Heating: Gas or electric heaters.	Piping: Type L copper. Pumps: All bronze pumps with isolation valves at both sides of pumps. Heating: Gas heaters.
<b>Domestic Water Quality</b>	Criteria: A maximum level of .015 mg/L (15ppb) of lead and 1.3 mg/L (1300 ppb) of copper in tap water.	Criteria: A maximum level of .015 mg/L (15ppb) of lead and 1.3 mg/L (1300 ppb) of copper in tap water.
<b>Soil and Waste</b>	Type: Cast iron pipe and fittings.	Type: Cast iron pipe and fittings.



# SUPPORT SERVICES CENTER

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Plumbing Fixtures</b>	Water closets: Vitreous china. Urinals: Vitreous china. Lavatories: Vitreous china wall-hung sinks and stainless steel counter-mounted sinks. Drinking fountains: Vitreous china or stainless steel. Trap primers: None.	Water closets: ADA compliant, wall-hung vitreous china with water saving valves . Urinals: ADA compliant, wall-hung vitreous china with water saving valves. Lavatories: ADA compliant, vitreous china wall-hung sinks and stainless steel counter-mounted sinks with self-closing faucets. Drinking fountains: ADA compliant, stainless steel. Trap primers: Electronic trap primers with manual override.
<b>Compressed Air</b>	Black steel or copper.	Black steel or copper.
<b>Natural Gas Piping</b>	Type: Black steel, Schedule 40 pipe with butt-weld fittings.	Type: Black steel, Schedule 40 pipe with butt-weld fittings.
<b>Chemical Waste</b>	Type: Cast iron pipe and fittings.	Type: Acid resistant poly-propylene pipe and fittings with fusion joints and acid neutralization tank. Location: Acid resistant pipe from science room sinks and drains to acid neutralization tank. Tank located at building exterior in non-traffic location but accessible by maintenance vehicles.
<b>HVAC Duct Insulation</b>	Type: In compliance with building code at time of construction.	Type: In compliance with current building code.
<b>HVAC Pipe Insulation</b>	Type: In compliance with building code at time of construction.	Type: In compliance with current building code.
<b>Hydronic Piping</b>	Type: Type L copper or Schedule 40 black steel.	Type: Type L copper at piping below 2" diameter. Schedule 40 black steel at 2" diameter piping and above with welded or rolled grooved Victaulic fittings.
<b>Hydronic Pumps</b>	Type: Vertical in-line or base mounted end-suction pumps.	Type: Vertical in-line or base mounted end-suction pumps with redundant pumps for back-up.
<b>Refrigerant Piping</b>	Type: Type L hard drawn copper tube, refrigeration grade.	Type: Type L hard drawn copper tube, refrigeration grade.
<b>HVAC Ductwork</b>	Metal ducts: Galvanized sheet metal. Non-metal ducts: Insulated, reinforced flexible duct with vapor barrier jacket.	Metal ducts: Galvanized sheet metal per SMACNA Standards with welded stainless steel at Kitchen exhaust hoods. Non-metal ducts: Insulated, reinforced flexible duct with vapor barrier jacket allowed at locations approved by school district.
<b>HVAC Fans</b>	Type: Forward curved or backward inclined units with 1" filters, non-asbestos flexible connections, standard motors, and belt guards.	Type: Forward curved or backward inclined units with neoprene flexible connections, high efficiency motors, belt guards, minimum two rows of coils, drain valves, and 2" filters contained in factory-built filter rack.
<b>HVAC - Conference Rooms</b>	Type: Temperature control shared by common areas, minimum 15% outside air supply, and mechanical cooling.	Type: Temperature control shared by common offices, minimum 20% outside air supply, and mechanical cooling.
<b>HVAC - Offices</b>	Type: Temperature control shared by common areas, minimum 15% outside air supply, and mechanical cooling.	Type: Temperature control shared by common offices, minimum 20% outside air supply, and mechanical cooling.
<b>HVAC - Workroom</b>	Type: Individual temperature control and high capacity ventilation system where high volume photocopy machines are used.	Type: Individual temperature control and independent high capacity ventilation system where high volume photocopy machines are used.

# SUPPORT SERVICES CENTER

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>HVAC - Support Spaces</b>	Type: Heating and ventilation systems capable of maintaining comfortable temperature range and ventilation.	Type: Heating and ventilation systems capable of maintaining comfortable temperature range and providing ventilation supply in compliance with current codes.
<b>Sawdust Collection</b>	Type: Non-recirculating dust collector equipment, ductwork and clean outs in compliance with building code at time of construction with blast gates and spark detection. Location: Connected to sawdust producing equipment in Carpenter workshop.	Type: Non-recirculating dust collector equipment, ductwork and clean outs in compliance with current building code with blast gates and spark detection. Location: Connected to sawdust producing equipment in carpenter workshop.
<b>Air Terminal Units</b>	Type: Steel or aluminum units.	Type: Steel or aluminum units with bird screens at intakes.
<b>Ventilation Hoods</b>	Type: Galvanized sheet metal canopy hood. Location: Above welding area in Welding room.	Type: Galvanized sheet metal canopy hood. Location: Above welding area in Welding room.
<b>Boilers</b>	Type: Single gas fired hot water or steam boiler.	Type: Dual hot water, gas-fired, fire-tube, minimum 82% efficient, steel boilers each sized for 66% of load.
<b>Furnaces</b>	Type: Gas fired with 80% efficiency.	Type: Gas fired with minimum 80% efficiency.
<b>Heat Exchangers</b>	Type: Plate-type with 50% efficiency.	Type: Plate-type with 66% efficiency.
<b>Refrigerant Compressors and Condensers</b>	Type: Air cooled units. Location: Single unit per system.	Type: Air cooled units. Location: Single unit serving multiple systems.
<b>Water Chillers</b>	Type: Air cooled with dual compressors.	Type: Dual air cooled units with minimum of 2 compressors each and sound attenuation treatment.
<b>Exhaust Fans</b>	Type: Steel utility or aluminum dome type. Location: Easily accessible for maintenance.	Type: Steel utility or aluminum dome type. Location: Non-kitchen exhaust fans located in catwalk or mechanical attic area, not on roof.
<b>Heat Pumps</b>	Type: Air cooled units. Location: One unit per zone.	Type: Air cooled units with automatic compressor lock out. Location: One unit per zone.
<b>Fan Coil Units</b>	Type: Units with steel housing, minimal filters, and no outside air.	Type: Units with steel housing, 1" filters, and damper controlled outside air .
<b>Unit Ventilators</b>	Type: Units with heavy-duty steel housing and capacity based on code required CFM.	Type: Units with heavy-duty steel housing, capacity based upon code required CFM, factory installed access panels and filter racks, and NC-35 sound rating.
<b>Unit Heaters</b>	Type: Propeller type gas or hot water units.	Type: Propeller type gas or hot water units.
<b>Automatic Controls</b>	Type: Direct digital control system with individual zone control and thermostat for each instructional space and office area, Local Operator's Station at Building Management Office, and connected to Central Operator's Station at Support Services Center.	Type: Direct digital control system with BACnet automation system, individual zone control and thermostat for each instructional space and office area, Dynamic Data exchange, Local Operator's Station at Building Management Office, and connected to Central Operator's Station at Support Services Center.
<b>ELECTRICAL</b>		
<b>Transformers</b>	Type: Dry type with capacity for calculated load.	Type: Low noise, dry type with capacity for calculated load plus 20%.

# SUPPORT SERVICES CENTER

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Switchgear</b>	Type: Fuse or circuit breaker type with capacity for calculated load.	Type: Fuse or circuit breaker type with capacity for calculated load plus 15% and includes 15% spares.
<b>Panelboards</b>	Type: Circuit breaker type.	Type: Circuit breaker type with 15% spares.
<b>Power Distribution</b>	Type: Copper for #1 wire or less. Copper or aluminum for wire greater than #1.	Type: Copper wire.
<b>Power Conditioning</b>	None.	Type: Transient voltage surge suppressors. Location: At panelboards for protection of lighting, receptacles and computers.
<b>Wiring Devices</b>	Type: 15 or 20 amp.	Type: 20 amp.
<b>Electrical Outlets - Offices</b>	Quantity: One duplex electrical receptacle for each staff workstation, one for each copy and fax machine, plus one at each wall.	Quantity: Two duplex electrical receptacles for each staff workstation, one for each copy and fax machine, plus one at each wall.
<b>Electrical Outlets - Support Spaces</b>	Quantity: One duplex electrical receptacle for each electrical equipment item, one at every 80' on center in corridors, plus one at 15' on center at each wall.	Quantity: One duplex electrical receptacles for each electrical equipment item, one at every 50' on center in corridors, plus one at 12' on center at each wall.
<b>Electrical Outlets - Workroom</b>	Quantity: One duplex electrical receptacle for each copy machine, fax machine, and postage meter, plus one at 8' on center at work counters and one at each wall.	Quantity: One duplex electrical receptacle for each copy machine, fax machine, and postage meter, plus one at 6' on center at work counters and one at each wall.
<b>Electrical Outlets - Emergency Power</b>	Quantity: Duplex electrical receptacles connected to emergency generator at MC Room, Main Mechanical Room, main office area, and supervisors' and directors' offices.	Quantity: All duplex electrical receptacles connected to emergency generator.
<b>Circuit Protection Devices</b>	Type: Circuit breakers with fuses at selected equipment.	Type: Circuit breakers with fuses at selected equipment.
<b>Packaged Generator</b>	Type: Diesel-fired with belly or above ground tank and minimum 48-hour operation capability with capacity to operate emergency lighting, fire alarm system, telephone, intercom, telecommunications equipment, and selected electrical outlets.	Type: Diesel-fired with belly tank and minimum 48-hour operation capability with capacity to operate emergency lighting, stand-by lighting, fire alarm system, telephone, intercom, telecommunications equipment, and selected electrical outlets plus 10% additional capacity.
<b>Battery Equipment</b>	Type: Uninterrupted power supply for intercom, telephone, and energy management systems. Back-up battery for fire alarm system.	Type: Uninterrupted power supply for intercom, telephone, and energy management systems. Back-up battery for fire alarm system.
<b>Lighting - Exterior - Delivery Area</b>	Type: Pole or building mounted fixtures with 3.0 foot-candle level controlled by photocell and EMS with manual bypass timer. Location: At area between building and dumpsters.	Type: Pole or building mounted fixtures with 5.0 foot-candle level controlled by photocell and EMS with manual bypass timer. Location: At area between building and dumpsters.
<b>Lighting - Exterior - Main Entry</b>	Type: Pole or building mounted fixtures with 5.0 foot-candle level controlled by photocell and EMS. Location: At front entrance between building and entry drive.	Type: Pole or building mounted fixtures with 8.0 foot-candle level controlled by photocell and EMS. Location: At front entrance between building and entry drive.
<b>Lighting - Exterior - Parking</b>	Type: Pole mounted fixtures with 0.8 foot-candle level controlled by photocell and EMS. Location: At parking lots.	Type: Pole mounted fixtures with 1.0 foot-candle level controlled by photocell and EMS. Location: At parking lots.

# SUPPORT SERVICES CENTER

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Lighting - Exterior - Pathways</b>	Type: Pole or building mounted fixtures with 1.0 foot-candle level controlled by photocell and EMS. Location: At pathways around building and between building and parking areas.	Type: Pole or building mounted fixtures with 1.5 foot-candle level controlled by photocell and EMS. Location: At pathways around building and between building and parking areas.
<b>Lighting - Exterior - Storage Shed</b>	Type: Pole or building mounted fixtures with 1.0 foot-candle level controlled by photocell and EMS. Location: At pathways around building and between building and parking areas.	Type: Pole or building mounted fixtures with 1.5 foot-candle level controlled by photocell and EMS. Location: At pathways around building and between building and parking areas.
<b>Lighting - Corridors</b>	Type: Fluorescent fixtures with a minimum 15 foot-candle level and a maximum of 0.8 watts per SF.	Type: T-8, T-5 and compact fluorescent fixtures with a minimum 15 foot-candle level and a maximum of 0.6 watts per SF.
<b>Lighting - Emergency</b>	Interior Pathways: An average of 1 foot-candle level at floor level at all paths of egress with a minimum of 0.3 foot-candle level at the center of paths of egress. Standby Lighting: One standby light fixture connected to emergency generator in each office, restroom and mechanical equipment space.	Interior Pathways: An average of 1 foot-candle level at floor level at all paths of egress with a minimum of 0.3 foot-candle level at the center of paths of egress. Standby Lighting: One standby light fixture connected to emergency generator in each office, restroom and mechanical equipment space.
<b>Lighting - Offices</b>	Type: Fluorescent fixtures with a minimum 50 foot-candle level and a maximum of 1.3 watts per SF.	Type: T-8 or T-5 fluorescent fixtures with parabolic louvers to control screen glare with a minimum 50 foot-candle level and a maximum of 1.1 watts per SF.
<b>Lighting - Restrooms</b>	Type: Fluorescent fixtures with a minimum 20 foot-candle level and a maximum of 1.1 watts per SF.	Type: T-8, T-5 and compact fluorescent fixtures with a minimum 20 foot-candle level and a maximum of 0.8 watts per SF.
<b>Lighting - Support Spaces</b>	Type: Fluorescent fixtures with a minimum 50 foot-candle level and a maximum of 1.3 watts per SF.	Type: T-8 or T-5 fluorescent fixtures with parabolic louvers to control screen glare with a minimum 50 foot-candle level and a maximum of 1.1 watts per SF.
<b>Automatic Lighting Control</b>	Exterior lighting: Time clock and photocell control.	Exterior lighting: EMS and photocell control with separate zones. Interior lighting: Occupancy sensors in corridors.
<b>Exit Signs</b>	Type: In compliance with building code at time of construction.	Type: In compliance with current building code and connected to emergency generator.
<b>Data Communications Cabling</b>	Backbone: Optical fiber between MC and HC locations. Wiring: Category 3 cable between computer equipment and MC or HC.	Backbone: 6 pair multimode optical fiber between MC and HC locations. Wiring: Category 5e below grade and Category 6 above grade between computer equipment and MC or HC.
<b>Data Communications Equipment</b>	Filter: Granular site-based web content filtering. Router: 10 Mb WAN connectivity. Routing: Layer 3 capability in core switch at MC. Switch: 10 /100 / 1000 host capability. Traffic shaping: Site-based capability. WAN connectivity speed: 10 Mb. UPS: For routers, switches, and servers providing a minimum of 5 minutes of uninterrupted power.	Filter: Granular site-based web content filtering. Router: 100 Mb WAN connectivity. Routing: Layer 3 capability in core switch at MC. Switch: 10 /100 / 1000 host capability. Traffic shaping: Site-based capability. WAN connectivity speed: 1,000 Mb. UPS: For routers, switches, and servers providing a minimum of 10 minutes of uninterrupted power.
<b>Data Communications Outlets - Conference Rooms</b>	Quantity: Two data outlets in each small conference room. Four data outlets in each large conference room.	Quantity: Two data outlets in each small conference room. Four data outlets in each large conference room.
<b>Data Communications Outlets - Offices</b>	Quantity: One data outlet for each staff workstation and one for each printer.	Quantity: Two data outlets for each staff workstation and one for each printer.
<b>Data Communications Outlets - Support Spaces</b>	Quantity: One data receptacle for each computer station and one for each printer located within the space.	Quantity: One data receptacle for each computer station and one for each printer located within the space.

# SUPPORT SERVICES CENTER

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Data Communications Outlets - Workroom</b>	Quantity: One data outlet for networked fax / scanner machine.	Quantity: One data outlet for fax /scanner machine and one for networked copy machine plus two data outlets at perimeter wall.
<b>Wireless Data Communications</b>	None.	Type: Power and data outlets for secure wireless access and free-roaming capability for coverage within building.
<b>Telephone / Sound System</b>	Type: Digital PBX central exchange telephone system with voice mail, loudspeaking communications, and dial-up zone paging.	Type: Digital PBX central exchange telephone system with voice mail, loudspeaking communications, and dial-up zone paging.
<b>Intrusion Detection</b>	Type: Multi-zone system with NAPCO control panel, keypad activation device, and passive infrared motion detectors. Location: Control panel in office area, keypad at front entry door. Detection devices in main office area, warehouse and corridors.	Type: Multi-zone system with NAPCO control panel, keypad activation device, and passive infrared motion detectors. Location: Control panel in office area, keypad at front entry door. Detection devices in main office area, warehouse, work shops, and corridors.
<b>Video Surveillance</b>	None.	Type: Surveillance camera system for surveillance of entry / exit driveway, parking lots, exterior storage shed, and building exterior.
<b>Fire Detection and Alarm</b>	Type: Automatic addressable alarm and detection system in compliance with building code at time of construction. Location: Detection and alarm devices located in compliance with building code at time of construction and annunciator at front entry.	Type: Automatic addressable alarm and detection system in compliance with current building code. Location: Detection and alarm devices located in compliance with current building code, control panel and printer in Maintenance Office, graphic annunciator at front entry.

# TRANSPORTATION CENTER

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>SITE AREAS</b>		
<b>Parking and Access - Buses</b>	Quantity: 135 stalls, 12' wide. Type: Asphalt, 20-year life. Location: Within secured area separated from visitor and staff parking. Convenient access to fuel island, bus wash and maintenance bays.	Quantity: 145 stalls, 12' wide. Type: Asphalt, 30-year life. Location: Within secured area separated from visitor and staff parking. Convenient access to fuel island, bus wash and maintenance bays.
<b>Parking and Access - Staff</b>	Quantity: 125 stalls, 9' wide. Type: Asphalt, 20-year life. Location: Separate from bus and visitor parking.	Quantity: 140 stalls, 9' wide. Type: Asphalt, 30-year life. Location: Separate from bus and visitor parking.
<b>Parking and Access - Visitors</b>	Quantity: 4 stalls, 9' wide. Type: Asphalt, 20-year life. Location: At front of building and separated from buses and staff parking.	Quantity: 6 stalls, 9' wide. Type: Asphalt, 30-year life. Location: At front of building and separated from buses and staff parking.
<b>Parking and Access - Work Vehicle</b>	Quantity: 12 stalls, 9' wide. Type: Asphalt, 20-year life. Location: Within secured area separated from visitor and staff parking.	Quantity: 18 stalls, 9' wide. Type: Asphalt, 30-year life. Location: Within secured area separated from visitor and staff parking.
<b>Street Frontage Sidewalks</b>	Type: 5' wide with ADA compliant curb cuts, asphalt.	Type: 6' wide with ADA compliant curb cuts, concrete.
<b>On-Site Walkways</b>	Type: 5' wide with ADA compliant curb cuts, asphalt.	Type: 6' wide with ADA compliant curb cuts, concrete.
<b>Stairs and Ramps</b>	Type: 5' wide, ADA compliant, concrete.	Type: 6' wide, ADA compliant, concrete with abrasive stair nosings at stairs and detectable warning pattern at ramps.
<b>Lawns</b>	Type: Irrigated grass turf. Location: At front of building, street frontage, and adjacent to landscape areas where suitable.	Type: Irrigated grass turf with concrete mow strip around posts and hydrants and where grass is adjacent to building. Location: At front of building, street frontage, and adjacent to landscape areas where suitable.
<b>Bus Wash</b>	Type: Covered wash area with automatic and manual washing equipment. Location: Within secured area with convenient drive-through access for buses.	Type: Covered wash area with automatic and manual washing equipment. Location: Within secured area with convenient drive-through access for buses.
<b>Dumpster Area</b>	Type: Designated area to accommodate one 8 YD garbage dumpster and 3 recycle dumpsters that are 2 YD, 6 YD and 8 YD. Location: Located for efficient access from building and accessible for pick-up by refuse trucks.	Type: Designated area to accommodate one 8 YD garbage dumpster and 3 recycle dumpsters that are 2 YD, 6 YD and 8 YD. Location: Located for efficient access from building and accessible for pick-up by refuse trucks. Visually screened from view on 3 sides
<b>SITE IMPROVEMENTS</b>		
<b>Fences and Gates</b>	Type: Chainlink fencing at perimeter of property. 14' wide chainlink vehicle gate at entry to bus and work vehicle parking area. Height: 6'	Type: Chainlink fencing at perimeter of property. 20' wide mechanized pipe rail or chainlink vehicle gate with card reader at entry to bus and work vehicle parking area. Height: 6'
<b>Pipe Rail Gates and Railings</b>	Gates: 12' wide made from galvanized steel pipe with padlock hardware and reflective warning tape. Railings: Made from galvanized steel pipe.	Gates: 16' wide made from galvanized steel pipe with padlock hardware and reflective warning tape. Railings: Made from galvanized steel pipe, ADA compliant.
<b>Retaining Walls</b>	Type: Concrete, segmental block or rockery.	Type: Concrete, segmental block or rockery.

# TRANSPORTATION CENTER

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Bicycle Racks</b>	None.	Quantity: Racks for 10 bikes. Type: Galvanized "ribbon" metal. Location: At covered exterior area.
<b>Dumpsters</b>	Garbage dumpsters: One 8 YD dumpster located for efficient access from building. Recycle dumpsters: One 6 YD co-mingle, one 8 YD metal, and one 2 YD yard waste dumpster located for efficient access from building.	Garbage dumpsters: One 8 YD dumpster located for efficient access from building. Recycle dumpsters: One 6 YD co-mingle, one 8 YD metal, and one 2 YD yard waste dumpster located for efficient access from building.
<b>Exterior Benches</b>	None.	Quantity: 2 at front entry. Type: Prefinished metal "ribbon" bench.
<b>Exterior Waste Receptacles</b>	Quantity: One at each employee and visitor entry to building. Type: Heavy-duty galvanized can with push door dome top.	Quantity: One at each employee and visitor entry to building. Type: Heavy-duty galvanized can with push door dome top except prefinished metal "ribbon" container with push door dome top at front entry.
<b>Flag Pole</b>	Type: 25' painted metal. Location: Front of building and accessible from hard surface.	Type: 30' spun aluminum with internal halyard. Location: Front of building and accessible from hard surface.
<b>Site Sign</b>	None.	Type: Concrete or masonry monument sign with building name and address. Location: At front entry to site.
<b>Traffic Control Signs</b>	Type: As needed for traffic and parking control. Location: At HC parking stalls, visitor and staff parking stalls, parking lots, and entry driveways.	Type: As needed for traffic and parking control. Location: At HC parking stalls, visitor and staff parking stalls, parking lots, and entry driveways.
<b>Pavement Markings</b>	Type: Painted lines at cross walks, stop bars, traffic arrows, parking stalls, HC parking symbols, and fire lanes. Location: Parking lots and entry driveways.	Type: Painted lines at parking stalls, HC parking symbols, and fire lanes. Thermoplastic markings at cross walks, stop bars, and traffic arrows. Location: Parking lots and entry driveways.
<b>Fuel Island</b>	Type: Covered area with 2 gas and 6 diesel pumps, 3 drive-through vehicle lanes, and fuel keypad system. Location: Within secured area, close to entry to bus parking lot, with convenient drive-through access for buses and work vehicles.	Type: Covered area with 2 gas and 6 diesel pumps, 3 drive-through vehicle lanes, and fuel keypad system. Location: Within secured area, close to entry to bus parking lot, with convenient drive-through access for buses and work vehicles.
<b>Fuel Storage Tanks</b>	Type: Steel and fiberglass reinforced plastic composite tank with double wall construction for leak containment with leak detection system. 10,000 gallon tank for gas and 20,000 gallon tank for diesel fuel. Location: Adjacent to but not below fuel island.	Type: Steel and fiberglass reinforced plastic composite tank with double wall construction for leak containment with leak detection system. 10,000 gallon tank for gas and 20,000 gallon tank for diesel fuel. Location: Adjacent to but not below fuel island.
<b>Waste Storage Tanks</b>	Type: Above-grade steel tanks with corrosion protection and secondary containment area. 500 gallon tank for anti-freeze waste and 1000 gallon tank for waste oil with anti-freeze and oil drain pipes connected to waste collection receptacles in building maintenance bays. Location: Within secured area, separated from building, protected by pipe bollards, and with convenient access for disposal vehicles.	Type: Above-grade steel tanks with corrosion protection and secondary containment area. 500 gallon tank for anti-freeze waste and 1000 gallon tank for waste oil with anti-freeze and oil drain pipes connected to waste collection receptacles in building maintenance bays. Location: Within secured area, separated from building, protected by pipe bollards, and with convenient access for disposal vehicles.
<b>LANDSCAPING</b>		

# TRANSPORTATION CENTER

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Shrubs / Groundcover</b>	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department with automated irrigation system. Location: At building perimeter, parking lot islands, and perimeter landscape buffers.	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department with automated irrigation system. Location: At building perimeter, parking lot islands, and perimeter landscape buffers.
<b>Trees</b>	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department. Location: At lawn areas, street frontage, parking lot islands, and perimeter landscape buffers.	Type: As required by landscape ordinance, as needed for attractive appearance, and as approved by school district grounds department. Location: At lawn areas, street frontage, parking lot islands, and perimeter landscape buffers.
<b>Irrigation System</b>	Type: Automated system with separate water meter. Location: At lawns and landscape areas.	Type: Automated system controlled by EMS with separate water meter. Location: At lawns and landscape areas.
<b>UTILITIES</b>		
<b>Water System</b>	Type: Ductile iron pipe with separate domestic and fire service systems, deduct meter for irrigation system, backflow preventer and FDC on fire system. Size: As required for flow requirements. Location: As required by local water purveyor.	Type: Ductile iron pipe with separate domestic and fire service systems, separate (non-deduct) meter for irrigation system, backflow preventer and FDC on fire system. Supplemental electronic meters for domestic and irrigation systems located in Main Mechanical Room and connected to EMS. Size: As required for flow requirements. Location: As required by local water purveyor with domestic and irrigation meters located close to building.
<b>Sanitary Sewer System</b>	Type: PVC or concrete pipe with positive slope in compliance with Dept. of Ecology "Orange Book". Size: 6" diameter side and main sewer. Location: As required by local sewer purveyor with manhole structures easily accessible for maintenance.	Type: PVC pipe with ductile iron pipe where cover is less than 24". Positive slope in compliance with Dept. of Ecology "Orange Book" and locking manhole covers. Size: 6" diameter side and 8" diameter main sewer. Location: As required by local sewer purveyor with manhole structures easily accessible for maintenance.
<b>Storm Drainage System</b>	Type: Concrete pipe, ductile iron, PVC or corrugated polyethylene pipe. Size: 4" diameter footing and roof drains. 8" diameter site storm drains. Location: As required by local jurisdiction with drainage structures easily accessible for maintenance.	Type: PVC or corrugated polyethylene pipe with ductile iron pipe where cover is less than 24". Locking grates and Type 2 manhole structures where invert is deeper than 60". Clean outs at the base of all downspouts and at ends of roof and footing drain lines. Size: 6" diameter footing and roof drains. 8" diameter site storm drains. Location: As required by local jurisdiction with drainage structures easily accessible for maintenance.
<b>Natural Gas Service</b>	Type: Capacity as required for building gas load provided in inches or pounds. Location: Underground with gas meter adjacent to exterior wall of building.	Type: Capacity in pounds as required for building gas load with a minimum of 2 pounds and supplemental electronic meter located in Main Mechanical Room and connected to EMS. Location: Underground with gas meter adjacent to exterior wall of building.
<b>Electrical Service</b>	Type: As required for calculated electrical load. Location: Underground.	Type: As required for calculated electrical load plus 15% spares with fully coordinated over current protection. Location: Underground.
<b>Telephone Service</b>	Type: 10 voice grade lines Centrex lines. Size: 2" conduit. Location: Underground.	Type: 10 voice grade lines Centrex lines. Size: Two 4" conduit. Location: Underground.



# TRANSPORTATION CENTER

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Internet Connection</b>	Type: One T1 lines with 1.54 MB bandwidth. Location: Underground.	Type: Optical fiber with a 100 MB bandwidth. Location: Underground with spare 4" conduit for future expansion.
<b>Energy Usage - MBTUs per SF Building Area</b>	Annual usage: .0694 MBTUs per SF.	Annual usage: .0555 MBTUs per SF.
<b>Water Usage - Domestic Water per SF Building Area</b>	Annual usage: Average of last three years.	Annual usage: 80% of the average of the last three years.
<b>Water Usage - Irrigation Water per SF Landscape Area</b>	Annual usage: Average of last three years.	Annual usage: 80% of the average of the last three years.
<b>STRUCTURE</b>		
<b>Foundation</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>Floor Structure</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>Wall Structure - Bearing</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>Wall Structure - Non Bearing</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>Roof Structure</b>	Design Criteria: Built in compliance with ASCE 31-03 or Benchmark Buildings standards.	Design Criteria: Built in compliance with building structural code currently in effect.
<b>BUILDING ENVELOPE</b>		
<b>Floors</b>	Ground level: Reinforced concrete slab-on-grade with vapor retarder and capillary break. Upper level: Reinforced concrete over wood or metal decking.	Ground level: Reinforced concrete slab-on-grade with vapor retarder and capillary break. Upper level: Reinforced concrete on metal decking.
<b>Exterior Wall Surface</b>	Type: Cement board siding, metal siding, or window wall.	Type: Masonry or concrete.
<b>Exterior Wall Insulation</b>	Type: R-11.	Type: R-19 or greater if required by code.
<b>Exterior Windows</b>	Quantity: 20 SF of glazing at each office, 20 SF of glazing at small conference rooms, and 40 SF of glazing at large conference rooms. Type: Fixed or operable sash metal frames with dual glazing. Location: At all offices and conference rooms.	Quantity: 24 SF of glazing at each office, 24 SF of glazing at small conference rooms, and 48 SF of glazing at large conference rooms. Type: Operable sash prefinished aluminum frames with 1/4" dual glazing, low E coating, and U-value less than 40. Location: At all offices and conference rooms.

# TRANSPORTATION CENTER

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Exterior Doors</b>	<p>Pedestrian doors: Solid core wood or 16-gauge painted hollow metal doors. Located as required for ease of circulation and fire exiting. 3' x 6'-8" except a pair of 3' x 6'-8" doors with removable mullion at exterior door of mechanical equipment spaces.</p> <p>Sectional overhead doors: Steel section doors with manual operation at doors less than 10' wide and mechanical operation at doors 10' or wider. Located at maintenance bays and wide clearance doors.</p> <p>Coiling overhead doors: Steel interlocking slat door with insulated slats and chain hoist operation. Located at maintenance bays and wide clearance doors where overhead door is required but has limited overhead clearance and will not accommodate an overhead sectional door.</p>	<p>Pedestrian doors: Solid core wood or 14-gauge painted hollow metal doors with hollow metal frame and U-value less than 40. Located as required for ease of circulation and fire exiting. 3' x 7' except a pair of 3' x 7' doors with removable mullion at exterior door of mechanical equipment spaces.</p> <p>Sectional overhead doors: Steel section doors with mechanical operation. Located at maintenance bays and wide clearance doors.</p> <p>Coiling overhead doors: Steel interlocking slat door with insulated slats and chain hoist operation. Located at maintenance bays and wide clearance doors where overhead door is required but has limited overhead clearance and will not accommodate an overhead sectional door.</p>
<b>Soffits</b>	Type: Painted wood.	Type: Painted MDO plywood or prefinished metal.
<b>Flashing</b>	Type: Painted metal.	Type: Pre-finished 24-gauge sheet metal.
<b>Trim</b>	Type: Painted wood.	Type: Pre-finished 24-gauge sheet metal.
<b>Gutters and Downspouts</b>	<p>Gutters: Painted metal located at edge of roof.</p> <p>Downspouts: Painted PVC or metal.</p>	<p>Gutters: Pre-finished 22-gauge sheet metal field formed in continuous lengths located at edge of roof.</p> <p>Downspouts: Pre-finished 11-gauge sheet metal with rain diverters at roof valleys and connected to storm drainage system or rain garden.</p>
<b>Roof Membrane</b>	<p>Low-sloped roof: Built-up roofing with mineral cap sheet.</p> <p>Pitched roof: 30-year fiberglass composition shingles.</p>	<p>Low-sloped roof: Single-ply Hypolon membrane.</p> <p>Pitched roof: Pre-finished 24-gauge metal.</p>
<b>Roof Insulation</b>	Type: R-19.	Type: R-38 or greater if required by code, installed at roof level.
<b>Roof Accessories</b>	<p>Type: Painted metal.</p> <p>Location: Minimum 5' separation from roof drains, edges and valleys.</p>	<p>Type: Pre-finished metal with protected electrical receptacle at all mechanical equipment.</p> <p>Location: Minimum 10' separation from roof drains, edges and valleys.</p>
<b>Skylights</b>	Type: Translucent glazing and 300-pound point load capacity.	Type: Translucent, dual-surface, reinforced plastic glazing with pre-finished aluminum frame and 300-pound point load capacity.
<b>Fall Arrest System</b>	<p>Type: Fall protection roof anchors in compliance with UMC, WISHA and OSHA standards.</p> <p>Location: In compliance with WISHA and OSHA standards.</p>	<p>Type: Fall protection roof anchors and railings in compliance with UMC, WISHA and OSHA standards.</p> <p>Location: In compliance with UMC, WISHA and OSHA standards.</p>
<b>Canopies / Covered Walkways</b>	<p>Type: Metal framed with single-ply Hypolon membrane or built-up roof with mineral cap sheet.</p> <p>Location: At front entry.</p>	<p>Type: Metal framed with pre-finished metal roof.</p> <p>Location: At front entry.</p>
<b>INTERIORS</b>		
<b>Floors - Corridors</b>	<p>VCT: 12" x 12" tile.</p> <p>Walk-off mat: Loose-laid mat with synthetic pile at exterior doors.</p>	<p>VCT: 12" x 12" tile.</p> <p>Walk-off mat: Glue-down mat with synthetic pile and polypropylene / vinyl backing at exterior doors.</p>
<b>Floors - Offices</b>	Carpet: Synthetic pile with synthetic backing.	Carpet: Synthetic pile with polypropylene / vinyl backing.

# TRANSPORTATION CENTER

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Floors - Restrooms</b>	Seamless flooring: Resin flooring or sheet vinyl.	Ceramic tile: Unglazed porcelain tile.
<b>Floors - Support Spaces</b>	Carpet: Synthetic pile with synthetic backing at reception areas, conference rooms, and staff lounge. Seamless flooring: Resin or sheet vinyl in locker rooms. Concrete: Sealed concrete at maintenance bays, workshops, welding room, lube room, cleaning rooms, telecommunications, storage, mechanical and electrical rooms. Plywood: Plywood floor deck at catwalks and mechanical attics in wood frame buildings.	Carpet: Synthetic pile with polypropylene / vinyl backing at reception areas, conference rooms, and staff lounge. VCT: At telecommunications rooms. Sheet vinyl: Vinyl sheet flooring at custodial rooms. Ceramic tile: Unglazed porcelain tile in locker rooms. Concrete: Sealed concrete at workshops, welding room, lube room, cleaning rooms, storage, mechanical and electrical rooms, and at catwalks and mechanical attics in metal frame buildings. Concrete with pigmented surface hardener at maintenance bays. Plywood: Plywood floor deck at catwalks and mechanical attics in wood frame buildings.
<b>Walls - Corridors</b>	Gypsum wallboard: Painted wallboard	Gypsum wallboard: Painted wallboard. Wainscot: MDO or MDF wainscot 4' high.
<b>Walls - Offices</b>	Type: Painted gypsum wallboard.	Type: Painted gypsum wallboard.
<b>Walls - Restrooms</b>	Gypsum wallboard: Painted wallboard above wainscot. Wainscot: Plastic laminate or ceramic tile behind lavatories and toilet fixtures.	Gypsum wallboard: Painted wallboard above wainscot. Wainscot: Plastic laminate or ceramic tile at all walls.
<b>Walls - Support Spaces</b>	Gypsum wallboard: Painted wallboard in custodial, electrical, mechanical, reception, staff lounge, storage, training, and lost and found rooms. Wainscot: MDO or MDF wainscot 7' high in maintenance bays, work shops, welding, lube room, and cleaning rooms.	Gypsum wallboard: Painted wallboard in custodial, electrical, mechanical, reception, staff lounge, storage, training, and lost and found rooms. Masonry or concrete: At maintenance bays, work shops, welding, lube room, and cleaning rooms.
<b>Asbestos-Containing Materials</b>	Criteria: Asbestos-containing building materials present in a facility shall be intact, undisturbed and included in an asbestos management plan in compliance with AHERA regulations.	Criteria: Asbestos-containing building materials shall not be present.
<b>Interior Doors</b>	Solid core wood: At offices, reception, training, lost and found, staff lounge, and conference rooms. Hollow metal: At maintenance bays, work shops, welding, lube room, storage, mechanical, electrical, cleaning rooms and cross corridor doors.	Solid core wood: 1 - 3/4" thick with wood veneer at offices, reception, training, lost and found, staff lounge, and conference rooms. Hollow metal: 16 gauge at maintenance bays, work shops, welding, lube room, storage, mechanical, electrical, cleaning rooms and cross corridor doors.
<b>Door Hardware</b>	Locksets: Schlage or Corbin with keying that matches the school district's Schlage or Corbin Master Key system.	Closers and handles: ADA compliant. Door mullions: Removable and secured with key. Locksets: Schlage with Primus at exterior doors and keying that matches the school district's Schlage Great Grand Master Key system.
<b>Automatic Door Opener</b>	None.	Type: ADA compliant with keyed power shut off at door. Location: At main entry door.
<b>Overhead Doors and Grilles</b>	Interior overhead doors and grilles: Manually operated up to 6' wide. Motorized operation when over 6' wide. Fire-rated overhead doors and grilles shall be activated by local smoke or heat detectors.	Interior overhead doors and grilles: Manually operated up to 6' wide. Motorized operation when over 6' wide. Fire-rated overhead doors and grilles shall be activated by local smoke or heat detectors.
<b>Interior Windows</b>	Type: Wood or metal frame with glazing in compliance with applicable building codes.	Type: Metal frame with safety glass.

# TRANSPORTATION CENTER

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Ceilings - Corridors</b>	Type: Surface applied acoustical ceiling tile or suspended acoustical ceiling panels. Height: Minimum 9'.	Type: Surface applied acoustical ceiling tile or 2' x 2' suspended acoustical ceiling panels. Height: Minimum 9'.
<b>Ceilings - Offices</b>	Type: Surface applied acoustical ceiling tile or suspended acoustical ceiling panels. Height: Minimum 9'.	Type: Surface applied acoustical ceiling tile or suspended acoustical ceiling panels. Height: Minimum 9'.
<b>Ceilings - Support Spaces</b>	Gypsum board: Painted wallboard at maintenance bays, workshops, welding room, lube room, cleaning rooms, telecommunications, storage, custodial, mechanical and electrical rooms with ceiling height adequate to accommodate room uses and equipment. Acoustical ceiling: Suspended acoustical ceiling tile in conference rooms, lost and found, restrooms, training, staff lounge, and minimum 9' high.	Gypsum board: Painted wallboard at maintenance bays, restrooms, workshops, welding room, lube room, cleaning rooms, telecommunications, storage, custodial, restrooms, mechanical and electrical rooms with ceiling height adequate to accommodate room uses and equipment. Acoustical ceiling: Suspended acoustical ceiling tile in conference rooms, lost and found, training and staff lounge, minimum 9' high.
<b>EQUIPMENT AND SPECIALTIES</b>		
<b>Marker Boards</b>	Quantity: One 4' board at small conference rooms. One 8' board at large conference rooms. Type: Ceramic coated steel.	Quantity: One 4' board at small conference rooms. One 8' board at large conference rooms. Type: Ceramic coated steel.
<b>Tackboards</b>	Quantity: 4' at offices and workrooms, 8' at staff lounge, 4' at small conference rooms, and 8' at large conference rooms. Type: Cedar, cork or vinyl-covered cork.	Quantity: 8' at offices and workrooms, 8' at staff lounge, 4' at small conference rooms, and 8' at large conference rooms. Type: Cork or vinyl-covered cork.
<b>Exterior Signage</b>	Type: Pre-finished metal lettering at front of building identifying building name and street number.	Type: Pre-finished metal lettering at front of building identifying building name and address.
<b>Interior Signage</b>	Type: High impact acrylic room signs with room name and number. Location: Room sign at main entry door to all rooms.	Type: High impact acrylic room signs with room name, number and raster Braille. Cast metal dedication plaque. Location: Room sign at main entry door to all rooms. Dedication plaque at entry lobby.
<b>Toilet Partitions</b>	Type: Plastic laminate covered fiber board. Location: Partitions at toilet stalls.	Type: Plastic laminate covered phenolic panels. Location: Partitions at toilet stalls and screens at urinals.
<b>Toilet Accessories</b>	Type: Mirrors, paper towel dispensers, soap dispensers, grab bars, tampon dispensers and sanitary napkin receptacles. Location: Mirrors at restroom hand wash areas. Paper towel and soap dispensers at all sinks. Grab bars at ADA accessible toilet stalls. Tampon dispenser and sanitary napkin receptacle at women's restrooms.	Type: ADA compliant mirrors, paper towel dispensers, soap dispensers, grab bars, tampon dispensers and sanitary napkin receptacles. Location: Mirrors at restroom hand wash areas. Paper towel and soap dispensers at all sinks. Grab bars at ADA accessible toilet stalls. Tampon dispenser and sanitary napkin receptacle at women's restrooms.
<b>Lockers</b>	Staff Locker Room: 8 lockers, each 12" W x 12" D x 60" H, with padlock hasp. Staff Lounge: 20 lockers, each 12" W x 12" D x 20" H, with padlock hasp.	Staff Locker Room: 12 lockers, each 12" W x 12" D x 60" H, with padlock hasp. Staff Lounge: 30 lockers, each 12" W x 12" D x 20" H, with padlock hasp.

# TRANSPORTATION CENTER

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Residential Appliances</b>	Type: Residential grade. Ranges: Electric range with oven in staff lounge. Exhaust hoods: Electric exhaust fan with removable and cleanable filters above range in staff lounge. Microwave ovens: Portable microwave in staff lounge. Refrigerator: Two large capacity refrigerators with freezer compartments in staff lounge.	Type: Residential grade, ADA compliant and ENERGY STAR qualified. Ranges: Electric range with oven at staff lounge. Exhaust hoods: Electric exhaust fan with removable and cleanable filters above range in staff lounge. Microwave ovens: Two portable microwaves in staff lounge. Refrigerator: Two large capacity refrigerators with freezer compartment in staff lounge.
<b>Projection Screens</b>	Large conference rooms: 60" W x 60" H with manual operation. Staff Lounge: 60" W x 60" H with manual operation.	Large conference rooms: 72" W x 72" H with manual operation. Staff Lounge: 72" W x 72" H with manual operation.
<b>Window Covering</b>	Type: Horizontal louver blinds or roller shades at exterior windows. Horizontal louver mini-blinds at interior relite windows at offices.	Type: Horizontal louver blinds at exterior windows. Horizontal louver mini-blinds at interior relite windows at offices.
<b>Cabinets - Offices</b>	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to a master system. Quantity: As needed to accommodate office use.	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, and locks keyed to the building master key system. Quantity: As needed to accommodate office use.
<b>Cabinets - Support Spaces</b>	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to a master system. Quantity: As needed to accommodate support space use.	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, locks keyed to the building master key system. Quantity: As needed to accommodate support space use.
<b>Display Cases</b>	None.	Type: 3/4" thick panels with plastic laminate surfaces, PVC edge band, lockable. Quantity: 8 LF at front enter foyer.
<b>Equipment - Large Conference Room</b>	Audio Visual Cart: Cart with computer and LCD Projector for each large conference room.	Audio Visual Cart: Cart with computer, LCD Projector and document camera for each large conference room.
<b>Equipment - Lube Room</b>	Type: 55 gal. chassis lube drum, 100 gal. gear lube tank, 200 gal. anti-freeze tank, 250 gal. transmission fluid tank, 250 gal. engine oil tank, compressor with air dryer, two 170 gal. hydraulic tanks with pumps.	Type: 55 gal. chassis lube drum, 100 gal. gear lube tank, 200 gal. anti-freeze tank, 250 gal. transmission fluid tank, 250 gal. engine oil tank, compressor with air dryer, two 170 gal. hydraulic tanks with pumps.
<b>Equipment - Maintenance Bays</b>	Type: 4 bus hoists, 1 twin bus hoist with air oil tank, bench hoist, chain hoist with rail - 2000 lb. capacity, rail hoist - 4000 lb. capacity, 5 overhead air reels, 3 overhead lube reels, 6 light drops, 2 electrical drops, engine oil waste pump, anti-freeze waste pump, carbon monoxide / nitrogen oxide air quality system.	Type: 4 bus hoists, 1 twin bus hoist with air oil tank, bench hoist, chain hoist with rail - 2000 lb. capacity, rail hoist - 4000 lb. capacity, 5 overhead air reels, 3 overhead lube reels, 6 light drops, 2 electrical drops, engine oil waste pump, anti-freeze waste pump, carbon monoxide / nitrogen oxide air quality system.
<b>Equipment - Offices</b>	Computers: One computer, not exceeding 5 years in age, for each staff member. Printers: One laser printer, not exceeding 8 years in age, for each staff member. Fuel Management System: Fuel management system controls, located in Supervisor's Office 204.	Computers: One computer, not exceeding 4 years in age, for each staff member. Printers: One laser printer, not exceeding 6 years in age, for each staff member. Fuel Management System: Fuel management system controls, located in Supervisor's Office 204.
<b>Equipment - Parts Cleaning</b>	Type: Overhead air reel, pump for bus wash equipment.	Type: Overhead air reel, pump for bus wash equipment.
<b>Equipment - Steam Cleaning</b>	Type: Surface mounted bus hoist.	Type: Surface mounted bus hoist.

# TRANSPORTATION CENTER

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Equipment - Staff Workrooms</b>	Copy Machines: One 25 copies per minute machine, non-networked, not exceeding 7 years in age. FAX Machine: One machine, not exceeding 10 years in age.	Copy Machines: One networked, 25 copies per minute machine, not exceeding 5 years in age. FAX Machine: One networked machine, not exceeding 6 years in age.
<b>Furniture - Large Conference Room</b>	Chairs: Hard plastic stacking chairs not exceeding 30 years in age at conference tables. Conference tables: Plastic laminate surfaced tables not exceeding 30 years in age.	Chairs: Hard plastic stacking chairs not exceeding 25 years in age at conference tables. Conference tables: Plastic laminate surfaced tables not exceeding 25 years in age.
<b>Furniture - Offices</b>	Staff Chairs: Upholstered not exceeding 20 years in age. Staff Desks: Plastic laminate surfaced not exceeding 30 years in age. Tables: Plastic laminate surfaced not exceeding 30 years in age. File Cabinets: Metal not exceeding 40 years in age.	Staff Chairs: Upholstered not exceeding 15 years in age. Staff Desks: Plastic laminate surfaced not exceeding 20 years in age. Tables: Plastic laminate surfaced not exceeding 25 years in age. File Cabinets: Metal not exceeding 30 years in age.
<b>Furniture - Reception Area</b>	Chairs: Three upholstered chairs.	Chairs: Three upholstered chairs and one moveable upholstered chairs at work counter . Work counter: 4' work counter.
<b>Furniture - Staff Lounge</b>	Chairs: 60 hard plastic stacking chairs not exceeding 25 years in age. Tables: 4 plastic laminate surfaced 48" diameter tables not exceeding 30 years in age.	Chairs: 75 hard plastic stacking chairs not exceeding 20 years in age. Tables: 4 plastic laminate surfaced 48" diameter tables not exceeding 20 years in age.
<b>Vending Machines</b>	Type: Refrigerated or non-refrigerated machines with motion sensitive illumination control. Quantity: 1 machines. Location: At corridor near staff lounge.	Type: Refrigerated and non-refrigerated machines with motion sensitive illumination control. Quantity: 2 machines. Location: At corridor near staff lounge.
<b>MECHANICAL</b>		
<b>Fire Suppression System</b>	Fire sprinkler system: Wet or dry system in compliance with NFPA 13, and local building codes. Fire suppression: Fire suppression system at Kitchen exhaust hood.	Fire sprinkler system: Wet system in compliance with NFPA 13, local building codes and FM Global Data Sheets 2-8 and 3-6. Fire suppression: Wet agent fire suppression system at Kitchen exhaust hood.
<b>Plumbing Insulation</b>	Type: Insulation in compliance with building code at time of construction on domestic hot water lines.	Type: Insulation in compliance with current building code on domestic hot water lines and 1/2" insulation on domestic cold water lines.
<b>Domestic Water System</b>	Piping: Type L copper. Pumps: Bronze fitted pumps. Heating: Gas or electric heaters.	Piping: Type L copper. Pumps: All bronze pumps with isolation valves at both sides of pumps. Heating: Gas heaters.
<b>Domestic Water Quality</b>	Criteria: A maximum level of .015 mg/L (15ppb) of lead and 1.3 mg/L (1300 ppb) of copper in tap water.	Criteria: A maximum level of .015 mg/L (15ppb) of lead and 1.3 mg/L (1300 ppb) of copper in tap water.
<b>Soil and Waste</b>	Type: Cast iron pipe and fittings.	Type: Cast iron pipe and fittings.
<b>Plumbing Fixtures</b>	Water closets: Vitreous china. Urinals: Vitreous china. Lavatories: Vitreous china wall-hung sinks and stainless steel counter-mounted sinks. Drinking fountains: Vitreous china or stainless steel. Trap primers: None.	Water closets: ADA compliant, wall-hung vitreous china with water saving valves . Urinals: ADA compliant, wall-hung vitreous china with water saving valves. Lavatories: ADA compliant, vitreous china wall-hung sinks and stainless steel counter-mounted sinks with self-closing faucets. Drinking fountains: ADA compliant, stainless steel. Trap primers: Electronic trap primers with manual override.

# TRANSPORTATION CENTER

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Compressed Air</b>	Black steel or copper.	Black steel or copper.
<b>Natural Gas Piping</b>	Type: Black steel, Schedule 40 pipe with butt-weld fittings.	Type: Black steel, Schedule 40 pipe with butt-weld fittings.
<b>HVAC Duct Insulation</b>	Type: In compliance with building code at time of construction.	Type: In compliance with current building code.
<b>HVAC Pipe Insulation</b>	Type: In compliance with building code at time of construction.	Type: In compliance with current building code.
<b>Hydronic Piping</b>	Type: Type L copper or Schedule 40 black steel.	Type: Type L copper at piping below 2" diameter. Schedule 40 black steel at 2" diameter piping and above with welded or rolled grooved Victaulic fittings.
<b>Hydronic Pumps</b>	Type: Vertical in-line or base mounted end-suction pumps.	Type: Vertical in-line or base mounted end-suction pumps with redundant pumps for back-up.
<b>Refrigerant Piping</b>	Type: Type L hard drawn copper tube, refrigeration grade.	Type: Type L hard drawn copper tube, refrigeration grade.
<b>HVAC Ductwork</b>	Metal ducts: Galvanized sheet metal. Non-metal ducts: Insulated, reinforced flexible duct with vapor barrier jacket.	Metal ducts: Galvanized sheet metal per SMACNA Standards with welded stainless steel at Kitchen exhaust hoods. Non-metal ducts: Insulated, reinforced flexible duct with vapor barrier jacket allowed at locations approved by school district.
<b>HVAC Fans</b>	Type: Forward curved or backward inclined units with 1" filters, non-asbestos flexible connections, standard motors, and belt guards.	Type: Forward curved or backward inclined units with neoprene flexible connections, high efficiency motors, belt guards, minimum two rows of coils, drain valves, and 2" filters contained in factory-built filter rack.
<b>HVAC - Conference Rooms</b>	Type: Temperature control shared by common areas, minimum 15% outside air supply, and mechanical cooling.	Type: Temperature control shared by common offices, minimum 20% outside air supply, and mechanical cooling.
<b>HVAC - Offices</b>	Type: Temperature control shared by common areas, minimum 15% outside air supply, and mechanical cooling.	Type: Temperature control shared by common offices, minimum 20% outside air supply, and mechanical cooling.
<b>HVAC - Workroom</b>	Type: Individual temperature control and high capacity ventilation system where high volume photocopy machines are used.	Type: Individual temperature control and independent high capacity ventilation system where high volume photocopy machines are used.
<b>HVAC - Support Spaces</b>	Type: Heating and ventilation systems capable of maintaining comfortable temperature range and ventilation.	Type: Heating and ventilation systems capable of maintaining comfortable temperature range and providing ventilation supply in compliance with current codes.
<b>Air Terminal Units</b>	Type: Steel or aluminum units.	Type: Steel or aluminum units with bird screens at intakes.
<b>Boilers</b>	Type: Single gas fired hot water or steam boiler.	Type: Dual hot water, gas-fired, fire-tube, minimum 82% efficient, steel boilers each sized for 66% of load.
<b>Furnaces</b>	Type: Gas fired with 80% efficiency.	Type: Gas fired with minimum 80% efficiency.
<b>Heat Exchangers</b>	Type: Plate-type with 50% efficiency.	Type: Plate-type with 66% efficiency.

# TRANSPORTATION CENTER

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Refrigerant Compressors and Condensers</b>	Type: Air cooled units. Location: Single unit per system.	Type: Air cooled units. Location: Single unit serving multiple systems.
<b>Water Chillers</b>	Type: Air cooled with dual compressors.	Type: Dual air cooled units with minimum of 2 compressors each and sound attenuation treatment.
<b>Exhaust Fans</b>	Type: Steel utility or aluminum dome type. Location: Easily accessible for maintenance.	Type: Steel utility or aluminum dome type. Location: Non-kitchen exhaust fans located in catwalk or mechanical attic area, not on roof.
<b>Heat Pumps</b>	Type: Air cooled units. Location: One unit per zone.	Type: Air cooled units with automatic compressor lock out. Location: One unit per zone.
<b>Fan Coil Units</b>	Type: Units with steel housing, minimal filters, and no outside air.	Type: Units with steel housing, 1" filters, and damper controlled outside air .
<b>Unit Ventilators</b>	Type: Units with heavy-duty steel housing and capacity based on code required CFM.	Type: Units with heavy-duty steel housing, capacity based upon code required CFM, factory installed access panels and filter racks, and NC-35 sound rating.
<b>Unit Heaters</b>	Type: Propeller type gas or hot water units.	Type: Propeller type gas or hot water units.
<b>Automatic Controls</b>	Type: Direct digital control system with individual zone control and thermostat for each instructional space and office area, Local Operator's Station at building's Maintenance Office, and connected to Central Operator's Station at Support Services Center.	Type: Direct digital control system with BACnet automation system, individual zone control and thermostat for each instructional space and office area, Dynamic Data exchange, Local Operator's Station at building Maintenance Office, and connected to Central Operator's Station at Support Services Center.
<b>ELECTRICAL</b>		
<b>Transformers</b>	Type: Dry type with capacity for calculated load.	Type: Low noise, dry type with capacity for calculated load plus 20%.
<b>Switchgear</b>	Type: Fuse or circuit breaker type with capacity for calculated load.	Type: Fuse or circuit breaker type with capacity for calculated load plus 15% and includes 15% spares.
<b>Panelboards</b>	Type: Circuit breaker type.	Type: Circuit breaker type with 15% spares.
<b>Power Distribution</b>	Type: Copper for #1 wire or less. Copper or aluminum for wire greater than #1.	Type: Copper wire.
<b>Power Conditioning</b>	None.	Type: Transient voltage surge suppressors. Location: At panelboards for protection of lighting, receptacles and computers.
<b>Wiring Devices</b>	Type: 15 or 20 amp.	Type: 20 amp.
<b>Electrical Outlets - Offices</b>	Quantity: One duplex electrical receptacle for each staff workstation, one for each copy and fax machine, plus one at each wall.	Quantity: Two duplex electrical receptacles for each staff workstation, one for each copy and fax machine, plus one at each wall.
<b>Electrical Outlets - Support Spaces</b>	Quantity: One duplex electrical receptacle for each electrical equipment item, one at every 80' on center in corridors, plus one at 15' on center at each wall.	Quantity: One duplex electrical receptacles for each electrical equipment item, one at every 50' on center in corridors, plus one at 12' on center at each wall.



# TRANSPORTATION CENTER

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Electrical Outlets - Workroom</b>	Quantity: One duplex electrical receptacle for each copy machine, fax machine, and postage meter, plus one at 8' on center at work counters and one at each wall.	Quantity: One duplex electrical receptacle for each copy machine, fax machine, and postage meter, plus one at 6' on center at work counters and one at each wall.
<b>Electrical Outlets - Emergency Power</b>	Quantity: Duplex electrical receptacles connected to emergency generator at MC Room, Main Mechanical Room, main office area, and supervisors' and directors' offices.	Quantity: All duplex electrical receptacles connected to emergency generator.
<b>Circuit Protection Devices</b>	Type: Circuit breakers with fuses at selected equipment.	Type: Circuit breakers with fuses at selected equipment.
<b>Packaged Generator</b>	Type: Diesel-fired with belly or above ground tank and minimum 48-hour operation capability with capacity to operate emergency lighting, fire alarm system, telephone, intercom, telecommunications equipment, and selected electrical outlets.	Type: Diesel-fired with belly tank and minimum 48-hour operation capability with capacity to operate emergency lighting, stand-by lighting, fire alarm system, telephone, intercom, telecommunications equipment, and selected electrical outlets plus 10% additional capacity.
<b>Battery Equipment</b>	Type: Uninterrupted power supply for intercom, telephone, and energy management systems. Back-up battery for fire alarm system.	Type: Uninterrupted power supply for intercom, telephone, and energy management systems. Back-up battery for fire alarm system.
<b>Lighting - Exterior - Main Entry</b>	Type: Pole or building mounted fixtures with 5.0 foot-candle level controlled by photocell and EMS. Location: At front entrance between building and entry drive.	Type: Pole or building mounted fixtures with 8.0 foot-candle level controlled by photocell and EMS. Location: At front entrance between building and entry drive.
<b>Lighting - Exterior - Parking</b>	Type: Pole mounted fixtures with 0.8 foot-candle level controlled by photocell and EMS. Location: At parking lots.	Type: Pole mounted fixtures with 1.0 foot-candle level controlled by photocell and EMS. Location: At parking lots.
<b>Lighting - Exterior - Pathways</b>	Type: Pole or building mounted fixtures with 1.0 foot-candle level controlled by photocell and EMS. Location: At pathways around building and between building and parking areas.	Type: Pole or building mounted fixtures with 1.5 foot-candle level controlled by photocell and EMS. Location: At pathways around building and between building and parking areas.
<b>Lighting - Corridors</b>	Type: Fluorescent fixtures with a minimum 15 foot-candle level and a maximum of 0.8 watts per SF.	Type: T-8, T-5 and compact fluorescent fixtures with a minimum 15 foot-candle level and a maximum of 0.6 watts per SF.
<b>Lighting - Emergency</b>	Interior Pathways: An average of 1 foot-candle level at floor level at all paths of egress with a minimum of 0.3 foot-candle level at the center of paths of egress. Standby Lighting: One standby light fixture connected to emergency generator in each office, restroom and mechanical equipment space.	Interior Pathways: An average of 1 foot-candle level at floor level at all paths of egress with a minimum of 0.3 foot-candle level at the center of paths of egress. Standby Lighting: One standby light fixture connected to emergency generator in each office, restroom and mechanical equipment space.
<b>Lighting - Maintenance Bays / Steam Cleaning</b>	Type: Metal halide with a minimum 50 foot-candle level and a maximum of 1.3 watts per foot.	Type: Metal halide with a minimum 50 foot-candle level and a maximum of 1.1 watts per foot.
<b>Lighting - Offices</b>	Type: Fluorescent fixtures with a minimum 50 foot-candle level and a maximum of 1.3 watts per SF.	Type: T-8 or T-5 fluorescent fixtures with parabolic louvers to control screen glare with a minimum 50 foot-candle level and a maximum of 1.1 watts per SF.
<b>Lighting - Restrooms</b>	Type: Fluorescent fixtures with a minimum 20 foot-candle level and a maximum of 1.1 watts per SF.	Type: T-8, T-5 and compact fluorescent fixtures with a minimum 20 foot-candle level and a maximum of 0.8 watts per SF.
<b>Lighting - Support Spaces</b>	Type: Fluorescent fixtures with a minimum 50 foot-candle level and a maximum of 1.3 watts per SF.	Type: T-8 or T-5 fluorescent fixtures with parabolic louvers to control screen glare with a minimum 50 foot-candle level and a maximum of 1.1 watts per SF.

# TRANSPORTATION CENTER

## STANDARDS

## FACILITY COMPONENTS

Category	Minimum Standards	Recommended Standards
<b>Automatic Lighting Control</b>	Exterior lighting: Time clock and photocell control.	Exterior lighting: EMS and photocell control with separate zones. Interior lighting: Occupancy sensors in corridors.
<b>Exit Signs</b>	Type: In compliance with building code at time of construction.	Type: In compliance with current building code and connected to emergency generator.
<b>Data Communications Cabling</b>	Backbone: Optical fiber between MC and HC locations. Wiring: Category 3 cable between computer equipment and MC or HC.	Backbone: 6 pair multimode optical fiber between MC and HC locations. Wiring: Category 5e below grade and Category 6 above grade between computer equipment and MC or HC.
<b>Data Communications Equipment</b>	Filter: Granular site-based web content filtering. Router: 10 Mb WAN connectivity. Routing: Layer 3 capability in core switch at MC. Switch: 10 /100 / 1000 host capability. Traffic shaping: Site-based capability. WAN connectivity speed: 10 Mb. UPS: For routers, switches, and servers providing a minimum of 5 minutes of uninterrupted power.	Filter: Granular site-based web content filtering. Router: 100 Mb WAN connectivity. Routing: Layer 3 capability in core switch at MC. Switch: 10 /100 / 1000 host capability. Traffic shaping: Site-based capability. WAN connectivity speed: 1,000 Mb. UPS: For routers, switches, and servers providing a minimum of 10 minutes of uninterrupted power.
<b>Data Communications Outlets - Conference Rooms</b>	Quantity: Two data outlets in each small conference room. Four data outlets in each large conference room.	Quantity: Two data outlets in each small conference room. Four data outlets in each large conference room.
<b>Data Communications Outlets - Offices</b>	Quantity: One data outlet for each staff workstation and one for each printer.	Quantity: Two data outlets for each staff workstation and one for each printer.
<b>Data Communications Outlets - Support Spaces</b>	Quantity: One data receptacle for each computer station and one for each printer located within the space.	Quantity: One data receptacle for each computer station and one for each printer located within the space.
<b>Data Communications Outlets - Workroom</b>	None.	Quantity: One data outlet for networked copy machine plus two data outlets at perimeter wall.
<b>Wireless Data Communications</b>	None.	Type: Power and data outlets for secure wireless access and free-roaming capability for coverage within building.
<b>Telephone / Sound System</b>	Type: Digital PBX central exchange telephone system with voice mail, loudspeaking communications, and dial-up zone paging.	Type: Digital PBX central exchange telephone system with voice mail, loudspeaking communications, and dial-up zone paging.
<b>Intrusion Detection</b>	Type: Multi-zone system with NAPCO control panel, keypad activation device, and passive infrared motion detectors. Location: Control panel in office area, keypad at front entry door. Detection devices in main office area and corridors.	Type: Multi-zone system with NAPCO control panel, keypad activation device, and passive infrared motion detectors. Location: Control panel in office area, keypad at front entry door. Detection devices in main office area, maintenance bays, and corridors.
<b>Video Surveillance</b>	None.	Type: Surveillance camera system for surveillance of entry / exit driveway, parking lots, and building exterior.
<b>Fire Detection and Alarm</b>	Type: Automatic addressable alarm and detection system in compliance with building code at time of construction. Plastic guards with local alarm at pull stations. Location: Detection and alarm devices located in compliance with building code at time of construction and annunciator at front entry.	Type: Automatic addressable alarm and detection system in compliance with current building code. Plastic guards with local alarm at pull stations. Location: Detection and alarm devices located in compliance with current building code, control panel and printer in Maintenance Office, graphic annunciator at front entry, and LCD annunciator with controls at Main Office.

## **Appendix D – Economic Life Span of Buildings**

# ECONOMIC LIFE SPAN OF BUILDINGS

Building Characteristics	No. of Years	Elementary Schools														Middle Schools				High Schools				Support Facilities					
		AL	AJ	CH	DS	EH	GR	HW	IL	LL	LV	LH	PI	TP	WA	CA	MB	OL	RA	AH	AM	AR	WE	AA	AD	AP	ME	SS	TC
<b>ROOF MATERIAL</b>																													
Metal	80		80							80								20			80	80	80			60		80	
Composition Shingles	60	30				60		60	60		60				45		60		60					60					
Single Ply	40	20					40									40		30		16					40		8		
Built Up	30			30	30							30	30	30	7.5					18						7.5	24	30	
<b>EXTERIOR MATERIAL</b>																													
Concrete	100					30									100					70						100	80	100	
Masonry	80		80	40	20		80	80	80	80	80	40	40	80		80	80	20	80	16	80	80	80				16	20	
Metal Siding	60				15																							45	
Pre-Finished Curtain Wall	60																												
Cement Board Siding	50	50																											
Stucco	40																			4						40			
Vinyl Siding	40																						40						
Painted Metal Curtain Wall	30			15	15							15	15					23											
Wood Siding	30					21																							
EFIS	20																												
<b>WINDOW TYPE</b>																													
Pre-Finished Metal / Dual Glazing	80	40	80					80	80	80					80		80	20	80	16	80	80	80	80			80	80	
Pre-Finished Metal / Single Glazing	60										60									6							60		
Vinyl Clad / Dual Glazing	50																												
Vinyl Clad / Single Glazing	40																												
Painted Metal / Single Glazing	40	20		40	40							40	40					30		28							40		
Wood / Single Glazing	30					30	30							30		30									30				
<b>STRUCTURAL FRAME</b>																													
Concrete	100														50					50						25	64	50	
Reinforced Masonry	90							22.5	22.5												45						9		
Steel	80				40															24	40	80					40		
Wood	40	40	40	20	8	40	40	30	30	40	40	20	20	20	20	40	40	40	40	4			40	40	40	30	4	40	
Unreinforced Masonry	30			15	9								15	15	15					3									
<b>SEISMIC DESIGN</b>																													
Benchmark Building	80		80					80	80	80	80						80		80		80	80	80				72	80	80
Non-Benchmark Building	40	40		40	40	40	40					40	40	40	40	40		40		40				40	40	40	4		
<b>MECHANICAL AND ELECTRICAL SYSTEMS LOCATION</b>																													
Attics / Catwalks / Tunnels	80		80				40	80	80	80							80		80	16	80	80	80						
Above Ground	50	25		25	50	50	25				37.5	25	25	50	37.5	38		38		25				50	37.5		50	50	50
Roof Mounted	30	15									7.5					7.5		7.5		6					7.5				
Underground	30			15								15	15		7.5					3						30			
<b>ECONOMIC LIFE SPAN (YEARS)</b> (Number of years after which it is no longer cost effective to invest significant funds to modify or improve the building.)																													
		47	73	40	45	45	49	72	72	73	61	40	40	44	65	46	70	45	70	58	81	80	73	52	39	55	65	72	66

## **Appendix E – Proposed Facility Improvements**

### Elementary Schools:

Alpac Elementary School  
Arthur Jacobsen Elementary School  
Chinook Elementary School  
Dick Scobee Elementary School  
Evergreen Heights Elementary School  
Gildo Rey Elementary School  
Hazelwood Elementary School  
Ilalko Elementary School  
Lake View Elementary School  
Lakeland Hills Elementary School  
Lea Hill Elementary School  
Pioneer Elementary School  
Terminal Park Elementary School  
Washington Elementary School

### Middle Schools:

Cascade Middle School  
Mt. Baker Middle School  
Olympic Middle School  
Rainier Middle School

### High Schools:

Auburn High School  
Auburn Mountainview High School  
Auburn Riverside High School  
West Auburn High School

Uw r qt v H e k k g u <

Administration Building

Administrative Annex

Auburn Memorial Stadium

Auburn Pool

Support Services Center

Transportation Center

# PROPOSED FACILITY IMPROVEMENTS

# ALPAC ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AL-SI-02	Site	Asphalt Play Area Upgrade	Patch and add asphalt overlay at perimeter of building, perimeter of playshed and within playshed.	Existing asphalt has settled about 6" around buildings and playshed.	Health / Safety	1	\$33,123	BLRB Cost Estimate		R. Thomas	A
AL-SI-09	Site	Curb Ramp Additions	Provide curb ramp at bus loading area and main entry crosswalk.	ADA compliant curb ramps missing at two locations.	Deficiency	1	\$9,138	BLRB Cost Estimate		ADA Consultant	A
AL-SI-14 ECM-W2	Site	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station and add a rain gauge.	Connection to the EMS and the addition of a rain gauge will reduce water consumption and utility costs.	Operating Cost	1	\$6,428	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant R. Thomas	A
AL-SI-17	Site	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars, directional arrows, and bus stall numbers. Add striping at two crosswalks at HC parking stalls. Modify existing markings to provide HC parking in staff lot.	Thermo-plastic markings needed at critical areas that quickly wear away. ADA compliant crosswalks missing at two locations. ADA compliant parking stall missing at staff lot.	Enhancement	1	\$2,285	BLRB Cost Estimate		R. Thomas ADA Consultant	A
AL-SI-22	Site	Sanitary Sewer Line Replacement	Replace sanitary sewer line from building to sewer main in Milwaukee Blvd.	Existing sanitary sewer line is in poor condition and requires frequent maintenance.	Deficiency	2	\$16,448	BLRB Cost Estimate		R. Thomas	A
AL-EX-03	Exterior	Exterior Door Hardware Upgrade	Replace exterior door lock cylinders with Primus cylinders.	Primus lock cylinders will improve building security.	Enhancement	1	\$13,857	BLRB Cost Estimate		R. Thomas	A
AL-EX-05	Exterior	Playshed Wall Improvements	Replace wood surfaces at playshed walls with durable non-wood surface, and remove a portion walls for improved supervision, and replace portion of walls where structure has deteriorated due to water leaks	Existing wood siding walls not durable and damaged by playground activities. Playshed difficult to supervise because enclosed on two sides. Wall scupper leaks have cause deterioration at west wall and possibly other areas.	Deficiency	1	\$171,258	BLRB Cost Estimate		D. Collier B. Kenworthy R. Thomas	A
AL-EX-06	Exterior	Roof Fall Arrest Anchors Addition	Provide fall arrest system at pitched roof areas.	Pitched roofs do not have fall arrest safety system.	Health / Safety	2	\$71,235	BLRB Cost Estimate		R. Thomas	A
AL-EX-09	Exterior	Wood Trim Replacement	Replace wood trim at roof edge at gable ends of roofs.	Existing trim is deteriorated.	Deficiency	2	\$11,761	BLRB Cost Estimate		R. Thomas	A
AL-EX-10	Exterior	Skylight Upgrade	Replace skylight over center courtyard with panel system with 300-pound point load capacity.	Existing skylight does not meet district's minimum standard for point load capacity.	Health / Safety	2	\$17,350	BLRB Cost Estimate		R. Thomas	A
AL-EX-11	Exterior	Roof Upgrade - Shingles	Replace aluminum shingles with composition shingles at pitched roof areas and at vertical fascia adjacent to pitched roofs.	Existing aluminum roof shingles at pitched roof areas have been damage by roof nails pushing up through the shingles. Existing insulation does not meet district's minimum standard.	Deficiency	1	\$671,554	ASD Cost Estimate		R. Thomas	A
AL-IN-09	Interior	Vinyl Wall Covering Additions	Provide vinyl wall covering in corridors.	Vinyl wall covering will provide tackable wall surface for display use in classrooms and corridors.	Enhancement	1	\$26,326	BLRB Cost Estimate		R. Thomas	A
AL-EQ-02	Equipment	Classroom Tackboard Additions	Provide additional tackboard at 5 classrooms.	Five classrooms do not have 16' of tackboard.	Deficiency	2	\$6,210	BLRB Cost Estimate		B. Kenworthy	A
AL-EQ-03	Equipment	Computer Furniture Upgrade	Provide furniture designed for computer and other technology equipment use.	Existing furniture used for computer and technology equipment is lacking and in many cases not designed for this use.	Deficiency	1	\$22,968	ASD Cost Estimate		R. Luke	A

# PROPOSED FACILITY IMPROVEMENTS

# ALPAC ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AL-EQ-04	Equipment	Desk Furniture Upgrade	Replace teacher and office desks.	Existing desks are old and do not meet minimum standards.	Deficiency	1	\$27,671	ASD Cost Estimate		B. Kenworthy	A
AL-EQ-08	Equipment	Interior Signage Upgrade	Provide ADA compliant room signs.	Existing room signs do not have raised Braille as required by ADA.	Deficiency	1	\$6,304	BLRB Cost Estimate		B. Kenworthy	A
AL-EQ-10	Equipment	Playshed Basketball Backboard Upgrade	Replace existing and add basketball backboards and hoops in playshed.	Existing backboards and hoops are deteriorated and do not have enough to meet minimum standards.	Deficiency	3	\$20,527	BLRB Cost Estimate		R. Thomas	A
AL-EQ-13	Equipment	Window Covering Upgrade	Replace fabric curtains at exterior windows with coated fabric or roller shades. Replace curtains at interior relite windows with mini-blinds.	Existing fabric curtains at exterior windows are not durable and do not adequately block day light. Curtains at interior relite windows do not work well because of limited stacking space at sides of relites.	Deficiency	2	\$20,393	BLRB Cost Estimate		B. Kenworthy	A
AL-EQ-14	Equipment	Staff Restroom Grab Bar Additions	Provide ADA compliant grab bars in staff restrooms 108 and 112.	Grab bars needed to assist disabled and comply with ADA.	Deficiency	1	\$3,881	ASD Cost Estimate		ADA Consultant	A
AL-ME-01 ECM-M3	Mechanical	Automatic Controls Upgrade	Upgrade the EMS control system front end and software to the district standard - BacNet compatible, web based. Incorporate dead band on Gym space set point.	BACnet controls will reduce EMS maintenance and service costs.	Operating Cost	3	\$38,570	Quantum Cost Estimate		R. Thomas	A
AL-ME-02 ECM-M4	Mechanical	CO2 Control Addition	Expand Barber Coleman control system to add CO2 control to the main air handling systems in the gym and library.	CO2 control will regulate the amount of outside air being delivered to the occupied spaces based on CO2 levels and reduce energy usage.	Operating Cost	2	\$15,428	Quantum Cost Estimate	Estimated 6-year payback period.	Energy Consultant	A
AL-ME-03 ECM-M6	Mechanical	Duct Leaks Repair	Repair leaks in the HVAC ductwork.	Leak repair will improve system operation and reduce energy costs.	Operating Cost	1	\$12,857	Quantum Cost Estimate	Estimated 3-year payback period.	Energy Consultant	A
AL-ME-07 ECM-M5	Mechanical	Occupancy Sensor Temperature Control Addition	Install occupancy sensors in areas of fluctuating occupancy to set back the spaces when they are unoccupied.	Installation of occupancy sensors will reduce energy costs.	Operating Cost	1	\$39,598	Quantum Cost Estimate		Energy Consultant	A
AL-ME-09 ECM-W1	Mechanical	Plumbing Fixture Retrofit Review	Review water saving opportunities including retrofit or replacement of sinks, urinals and water closets.	A reduction in water use will reduce utility costs.	Operating Cost	2	\$38,570	Quantum Cost Estimate	Estimated 6-year payback period.	Energy Consultant	A
AL-ME-10 ECM-M2	Mechanical	Rooftop Air Handling Unit Replacement	Replace the failing rooftop air handling units with new packaged multi-zone air handling units, or rooftop heat pumps.	Existing air handling units are in poor condition, require frequent maintenance, leak water into ventilation air system, do not function reliably, and are beyond recommended useful life.	Operating Cost	3	\$462,825	Quantum Cost Estimate	Estimated 15-year payback period.	Energy Consultant R. Thomas	A
AL-ME-11 EMC-M1	Mechanical	TAB and Commissioning	Perform air and water testing, adjusting and balancing (TAB) on the mechanical systems. Commission the existing HVAC control system to verify proper operation.	Retroactive TAB and commissioning will improve system operation and reduce energy costs.	Operating Cost	1	\$64,282	Quantum Cost Estimate	Short-term payback period.	Energy Consultant R. Thomas	A
AL-ME-12	Mechanical	Waste Line Improvements	Upgrade sagging and uneven waste lines that are suspended from structural slab.	Existing underslab waste pipes are suspended from concrete slab supported by piling. Pipes and pipe hangers are in poor condition and soil settlement has caused sagging waste lines that interfere with sewage drainage and require frequent maintenance. Waste system piping at risk of significant failure.	Operating Cost & Deficiency	2	\$92,308	Quantum Cost Estimate		M. Newman R. Thomas	A
AL-ME-14	Mechanical	Domestic Water Tank Replacement	Replace domestic hot water tanks.	Existing domestic hot water tanks are in poor condition which causes rusty water conditions.	Deficiency	1	\$41,946	Quantum Cost Estimate		R. Thomas	A



# PROPOSED FACILITY IMPROVEMENTS

# ALPAC ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AL-EL-04 ECM-L5	Electrical	Daylight Control Addition	Provide daylight controls in areas with sufficient ambient light.	Daylight controls will reduce energy costs.	Operating Cost	2	\$6,428	Quantum Cost Estimate	Estimated 8-year payback period.		A
AL-EL-06 ECM-L2	Electrical	Exit Sign Replacement	Replace incandescent and compact fluorescent exit signs with LED exit signs.	Exit sign replacement will reduce energy consumption and energy costs.	Operating Cost	1	\$12,857	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant	A
AL-EL-07	Electrical	Exterior Lighting Level Improvements	Provide additional illumination at front entry, bus area and delivery area.	Existing lighting at exterior area lacks adequate illumination levels and is below minimum standards.	Health / Safety & Deficiency	2	\$21,393	Quantum Cost Estimate		B. Kenworthy	A
AL-EL-08 ECM-L3	Electrical	Gym Lighting Upgrade	Replace HID fixtures in the Gym with new fixtures using T-8 or T-5 technology.	Light fixture replacement will reduce energy consumption and energy costs.	Operating Cost	2	\$25,713	Quantum Cost Estimate	Estimated 7-year payback period.	Energy Consultant B. Kenworthy	A
AL-EL-14 ECM-L4	Electrical	Occupancy Sensor Lighting Control Addition	Install occupancy sensor in areas with fluctuating occupancy to turn off lights when the spaces are unoccupied.	Occupancy sensors will reduce energy consumption and energy costs.	Operating Cost	2	\$12,857	Quantum Cost Estimate	Estimated 8-year payback period.	Energy Consultant	A
AL-EL-17	Electrical	Interior Lighting Level and Energy Efficiency Improvements	Provide additional illumination at classrooms, corridors, emergency lighting, kitchen, library, restrooms and support spaces using T-12 fixtures, magnetic ballast and incandescent fixtures with T-8, electronic ballast and compact fluorescent technology.		Operating Cost & Deficiency	1	\$128,563	Quantum Cost Estimate	Estimated 6-year payback period.	Energy Consultant B. Kenworthy R. Thomas	A
AL-MD-21	Modernization	Special Education Classroom Restroom	Provide restroom in a classroom for use by special education.	Existing special education classroom with a restroom being used by ECE and special education moved to a standard classroom without a restroom.	Deficiency	4	\$54,817	BLRB Cost Estimate		D. Collier B. Kenworthy	A
AL-MD-26	Modernization	Student Restroom Improvements - East Wing	Provide ADA compliant grab bars and water closets in student restrooms 401 and 402.	Restrooms do not have grab bars or ADA compliant water closets.	Deficiency	1	\$733	BLRB Cost Estimate		ADA Consultant	A
AL-MD-27	Modernization	Student Restroom Modernization - West Wing	Modernize student restrooms 113 and 114 to provide ceramic tile floors, 7" high wainscot, new toilet partitions that are ADA compliant, and ADA compliant toilets and sinks.	Existing restrooms have painted concrete floors, undersized wainscot, toilets and sinks in poor condition that have inefficient water use and are not ADA compliant, and deteriorated toilet partitions that are not ADA compliant.	Deficiency	2	\$164,036	BLRB Cost Estimate		D. Collier B. Kenworthy ADA Consultant	A
AL-MD-33	Modernization	Gym Area Improvements	Resurface rubber floor, add 4 backboards at side wall, convert existing locker rooms into PE office, uni-sex ADA compliant restroom, and furniture storage room.	See Improvement Justifications for items AL-IN-05, AL-EQ-06 and AL-MD-06.	Deficiency	1	\$280,228	BLRB Cost Estimate		D. Collier B. Kenworthy R. Thomas	A
AL-MD-34	Modernization	Kitchen Improvements	Provide work desk area with data, POS, electrical and telephone outlets, and quarry tile floor in kitchen. Provide two-burner cooktop and combi-oven with associated gas and electrical service. Enlarge hood to accommodate combi-oven and cook-top. Provide walk-in cooler at existing gym storage room 120. Replace steamer, steam kettle, convection ovens, and dishwasher. Paint walls and ceilings with epoxy paint.	Cook top and combi oven needed for food service operations. Some equipment reaching end of recommended useful life. Existing flooring is in poor condition and does not meet health standards. Kitchen does not have a walk-in cooler.	Deficiency	1	\$672,032	BLRB Cost Estimate		D. Collier B. Kenworthy E. Boutin	A

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AL-MD-35	Modernization	Main Office / Health Area Improvements	Provide exterior window at south wall of main office 100. Provide interior relite window at west wall of conference room 103. Modernize and expand health room 102 by 40 SF into office 105, add exhaust fan, and provide ADA compliant restroom and nurses workstation within this space.	Exterior window at south wall and relite at conference needed for building supervision. Existing health restroom not ADA compliant and difficult for disabled individuals to use and needs to be enlarged. Exhaust fan needed for ventilation. Existing health restroom has deficient waste pipes.	Deficiency	1	\$64,671	BLRB Cost Estimate		D. Collier B. Kenworthy R. Thomas ADA Consultant	A
AL-SI-19	Site	Playground Equipment Additions	Provide 2 additional basketball hoops in playshed, post and nets for one pickle ball court, and one box hockey game.	Existing playground does not meet standards for basketball hoops, pickle ball and box hockey equipment.	Deficiency	3	\$22,360	BLRB Cost Estimate		B. Kenworthy	B
AL-EX-08	Exterior	Visual Supervision of Building Entry	Provide window or surveillance camera for visual surveillance of front entry from main office area.	Front entry not visible from main office.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in AL-MD-35.	D. Collier B. Kenworthy	B
AL-IN-02	Interior	Classroom Cabinet Upgrade	Increase the amount of cabinets in classrooms and provide locks keyed to the building master key system.	Classrooms have less cabinets than minimum standards and do not have locks keyed to the building master key system. Placement of additional cabinets in classrooms adversely affected by classroom coat storage.	Deficiency	2	\$270,963	BLRB Cost Estimate		B. Kenworthy	B
AL-IN-06	Interior	Main Office Visibility Improvement	Provide relite windows for visual connection between front entry foyer and main office.	Front entry foyer not visible from main office.	Deficiency	1	\$8,743	BLRB Cost Estimate		D. Collier B. Kenworthy	B
AL-IN-07	Interior	Principal's Office Relite Window Addition	Provide relite window for visual connection to main office area.	Principal's office does not have an interior window for visual supervision of main office area.	Deficiency	1	\$4,138	BLRB Cost Estimate		B. Kenworthy	B
AL-EQ-11	Equipment	Projection Screen Upgrade	Provide larger and motorized projection screen in gymnasium and larger projection screen in library.	Existing projection screen in gymnasium is undersized and manually operated. Projection screen in library is undersized.	Deficiency	2	\$15,326	BLRB Cost Estimate		B. Kenworthy	B
AL-EL-12	Electrical	Intrusion Alarm Audible Signal Upgrade	Upgrade intrusion alarm system to provide audible alarm.	Use of audible alarm could reduce intrusions and false alarms.	Enhancement	1	\$46,026	Quantum Cost Estimate		M. Newman	B
AL-MD-02	Modernization	Classroom Natural Daylight Improvements	Provide additional daylight to four classrooms.	Classroom windows open into covered courtyard with minimal exterior daylight.	Deficiency	2	\$31,856	BLRB Cost Estimate		D. Collier B. Kenworthy	B
AL-MD-17	Modernization	Playshed Replacement	Replace playshed.	Existing playshed is in poor condition, has wood walls that are susceptible to damage, and is exterior walls on two sides that inhibit supervision.	Deficiency	1	\$491,837	BLRB Cost Estimate		D. Collier B. Kenworthy R. Thomas	B
AL-MD-30	Modernization	Gym / Kitchen / Stage Modernization & Addition	Provide a stage, PE office and storage for community groups, emergency supplies, and furniture. Expand and modernize kitchen, staff restrooms and lounge.	See Improvement Justifications for items AL-MD-03, 05, 06, 09, 12, 16, 23, and 25.	Deficiency & Enhancement	2	\$5,365,084	BLRB Cost Estimate	See AL-MD-33 for a portion of these improvements.	D. Collier R. Thomas B. Kenworthy M. Newman E. Boutin	B
AL-MD-31	Modernization	Main Office / Health Area Modernization & Addition	Provide nurse and itinerant staff offices. Modernize main office area and health room.	See Improvement Justifications for items AL-MD-07, 14 and 15.	Deficiency	2	\$339,536	BLRB Cost Estimate	See AL-MD-35 for a portion of these improvements.	D. Collier B. Kenworthy ADA Consultant	B
AL-MD-32	Modernization	Restroom / Workroom / Maintenance Office Modernization & Addition	Provide a maintenance office and public restrooms. Modernize and expand student restrooms and staff workroom.	See Improvement Justifications for items AL-MD-13, 20, 24 and 27.	Deficiency	3	\$515,466	BLRB Cost Estimate	See AL-MD-27 for a portion of these improvements.	D. Collier B. Kenworthy ADA Consultant	B

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AL-EL-03	Electrical	Data Communications Equipment Upgrade	Upgrade data communications equipment filter, router, switch, traffic shaping and connectivity speed.	Existing filter, router, switch, traffic shaping and connectivity speed do not meet district's minimum standards.	Deficiency	3	\$126,050	ASD Cost Estimate		N. Vien	B-
AL-SI-04	Site	Chainlink Fence Repair	Repair sections of chainlink fence at south property line.	About 40% of south fence has tilted about 15 degrees and cannot be pulled straight.	Deficiency	2	\$29,424	BLRB Cost Estimate		R. Thomas	B+
AL-SI-12	Site	Exterior Bench Upgrade	Provide durable benches at front entry and playground area.	Existing exterior benches are worn and are not provided at all locations where needed.	Deficiency	3	\$29,325	BLRB Cost Estimate		R. Thomas	B+
AL-SI-13	Site	Exterior Waste Receptacle Upgrade	Provide ornamental waste receptacle at front entry and waste receptacles with push door tops at playground.	Existing exterior waste receptacles are galvanized cans without covers.	Enhancement	3	\$7,222	BLRB Cost Estimate		R. Thomas	B+
AL-SI-01	Site	ADA Site Improvements	Provide miscellaneous site improvements to comply non-mandatory ADA standards.	School was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous site areas, which do not significantly affect access to the building, could be improved to comply with current ADA standards. Site improvements needed to provide ADA required program access are identified separately.	Enhancement	1	\$103,688	BLRB Cost Estimate	Minor need and non-mandatory improvements.	ADA Consultant	C
AL-SI-05	Site	Climbing Equipment Curb Addition	Provide concrete curb around perimeter of climbing equipment areas.	Existing wood curb is in fair condition.	Enhancement	3	\$58,286	BLRB Cost Estimate	Minor need.	R. Thomas	C
AL-SI-06	Site	Climbing Equipment Area Drainage Improvements	Provide sub-drain system at climbing equipment areas.	Existing wood chip climbing equipment areas drain poorly and are saturated with water much of the school year.	Enhancement	1	\$45,506	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
AL-SI-07	Site	Climbing Equipment Ground Surface Upgrade	Provide engineered wood fiber for ground surface at climbing equipment areas.	Existing wood chips used for ground surface are sharp and can cause slivers.	Deficiency	1	\$44,100	BLRB Cost Estimate	Minor deficiency.	R. Thomas	C
AL-SI-08	Site	Climbing Equipment Upgrade	Replace wood climbing structure at north play equipment area with non-wood structure.	Existing wood climbing equipment does not meet school district's minimum standards.	Deficiency	2	\$25,660	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
AL-SI-10	Site	Delivery Area Vehicle Gate Addition	Provide vehicle gate at delivery area.	Delivery area does not have vehicle gate to restrict vehicle access after school hours.	Deficiency	3	\$23,950	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
AL-SI-11	Site	Dumpster Area Upgrade	Enlarge dumpster area to accommodate two dumpsters and enclose with masonry screen wall on three sides.	Existing dumpster area will accommodate one dumpster and is not screened from view on three sides.	Deficiency	3	\$39,926	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
AL-SI-18	Site	Playground Drainage Improvements	Provide sub-drain system at grass play field.	Existing grass play field drains poorly and is saturated with water for much of the school year.	Enhancement	2	\$481,809	BLRB Cost Estimate	Not cost effective.	M. Newman R. Thomas	C
AL-SI-21	Site	Student Drop Off Area Expansion	Provide additional space for parents to pick up and drop off students.	Existing drop off and pick up area has 9 stalls, does not meet district's minimum standard of 20 stalls, and is not adequate to accommodate student pick up and drop off.	Deficiency	2	\$235,902	BLRB Cost Estimate	Not cost effective considering the limited number of stalls that can be added.	B. Kenworthy	C
AL-EX-02	Exterior	Build Acoustical Improvements	Provide sound attenuation at exterior of east side of main building and at east classroom building.	Classroom instruction disrupted by train noise.	Deficiency	2	\$191,345	BLRB Cost Estimate	Minor deficiency.	D. Collier B. Kenworthy	C
AL-EX-04	Exterior	Exterior Wall Panel Upgrade	Upgrade prefinished wall panels located below windows at main building with insulated panels.	Existing wall panels are in uninsulated and require frequent painting.	Operating Cost	2	\$449,553	BLRB Cost Estimate	Minor deficiency and long-term payback period.	R. Thomas	C

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AL-EX-07	Exterior	Roof Upgrade - Metal Roof	Replace aluminum shingles with metal roof and add roof insulation at pitched roof areas.	Existing aluminum roof shingles at pitched roof areas have been damaged by roof nails pushing up through the shingles. Existing insulation does not meet district's minimum standard.	Deficiency	1	\$1,274,782	BLRB Cost Estimate	Not cost effective. See AL-EX-11 for replacement with composition shingles.	R. Thomas	C
AL-IN-01	Interior	ADA Building Improvements	Provide miscellaneous building improvements to comply non-mandatory ADA standards.	School was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous building areas, which do not significantly affect access within the building, could be improved to comply with current ADA standards. Improvements needed to provide ADA required program access within the building are identified separately.	Enhancement	3	\$462,235	BLRB Cost Estimate		ADA Consultant	C
AL-IN-04	Interior	Display Case Addition	Provide display case at front entry foyer.	Display case not provided at front entry area.	Deficiency	4	\$9,775	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
AL-IN-05	Interior	Gym Floor Upgrade - Wood	Replace rubber floor with wood floor in gym.	Top coat at existing rubber floor is failing and requires resurfacing or replacement.	Deficiency	1	\$135,893	BLRB Cost Estimate	Not cost effective. See AL-MD-33 improvements to existing floor.	B. Kenworthy	C
AL-IN-10	Interior	Walk Off Mat Upgrade	Provide larger walk off mats at building entrances.	Larger mats will improve dirt control and reduce maintenance and carpet wear.	Enhancement	2	\$28,446	BLRB Cost Estimate	Minor need and not cost effective until carpeting in building is replaced.	R. Thomas	C
AL-EQ-05	Equipment	Fiber Optic Connection Addition	Provide data communications equipment to accommodate installation of a leased fiber optic circuit.	Equipment needed when school upgrades its internet connection with a fiber optic circuit leased from Qwest.	Enhancement	3	\$11,410	ASD Cost Estimate	Minor need.	N. Vein	C
AL-EQ-06	Equipment	Gym Basketball Backboard Addition	Provide 4 additional backboards at sidewalls in gym.	Gym does not have enough backboards to meet district's minimum standards and to accommodate PE classes.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in AL-MD-33.	B. Kenworthy	C
AL-EQ-15	Equipment	Wireless Computer Station Additions	Provide wireless computer equipment and workstation furniture for use at front of each classroom.	Wireless computer equipment will allow teachers to use ceiling mounted LCD projectors from workstation and front of classroom in lieu of adding power and data outlets in floor at much higher cost.	Enhancement	1	NA	No Cost Estimate	Obtained with Technology Levy funds.	R. Luke M. Newman	C
AL-ME-04	Mechanical	Fire Sprinkler System Bracing	Provide additional seismic bracing to existing fire sprinkler system in compliance with FM Global standards.	Additional bracing will reduce risk of broken fire sprinkler lines during an earthquake.	Enhancement	1	\$102,850	Quantum Cost Estimate	Minor need.	M. Newman	C
AL-ME-05	Mechanical	Fire Sprinkler System Expansion	Expand fire sprinkler system to east building.	Existing fire sprinkler system does not provide coverage at east building area.	Deficiency	1	\$110,872	Quantum Cost Estimate	Not cost effective.	R. Thomas	C
AL-ME-06	Mechanical	Natural Gas System Metering	Provide electronic meter for natural gas system connected to energy management system.	Electronic meter will allow remote monitoring of gas service and improve potential for reducing natural gas use.	Operating Cost	2	\$22,884	Quantum Cost Estimate	Minor need at elementary school and long-term payback period.	R. Thomas	C
AL-ME-08 ECM-M7	Mechanical	Pipe Insulation Upgrade	Increase insulation on domestic water and hydronic piping located in attic of east building.	Additional insulation will protect against freezing and reduce energy costs.	Operating Cost	3	\$25,713	Quantum Cost Estimate	Long-term payback period.	R. Thomas	C

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AL-ME-13	Mechanical	Water Quality Improvements	Replace plumbing at sinks in health room, kitchen (2), staff lounge, and staff workroom. Replace one drinking fountain. Replace bubblers at 23 classrooms.	Water quality tests at 4 sinks, one drinking fountain, and two classroom bubblers exceeded EPA water quality standards for lead or copper.	Health / Safety	1	\$33,041	Quantum Cost Estimate	Not needed. Further testing revealed water quality standards being met.	B. Kenworthy	C
AL-EL-01	Electrical	Ceiling Mounted LCD Projector Addition	Provide ceiling mounted LCD projector and associated AV and power outlets in each classroom with connection to teacher's work station.	Ceiling mounted projectors desired for ease of use, to reduce theft, and to protect equipment and cables from damage.	Enhancement	1	\$572,103	Quantum Cost Estimate	Not cost effective.	R. Luke R. Thomas M. Newman	C
AL-EL-05	Electrical	Electrical Service Metering	Provide electronic meter for electrical service connected to energy management system.	Electronic meter will allow remote monitoring of electrical service and improve potential for reducing electrical use.	Operating Cost	2	\$24,941	Quantum Cost Estimate	Minor need at elementary school and long-term payback period.	R. Thomas	C
AL-EL-09	Electrical	Interior Lighting Level Improvements	Provide additional illumination at classrooms, corridors, emergency lighting, kitchen, library, restrooms and support spaces.	Existing lighting at interior areas lacks adequate illumination levels, is below the district's minimum standards and many light fixtures have discolored lenses.	Health / Safety & Deficiency	1	\$128,563	Quantum Cost Estimate	See AL-EL-17.	B. Kenworthy	C
AL-EL-10 ECM-L1	Electrical	Interior Lighting Upgrade	Retrofit or replace T-12 fixtures, magnetic ballast and incandescent fixtures with T-8, electronic ballast and compact fluorescent technology.	Fixture replacement or retrofit will reduce energy costs.	Operating Cost	2	\$115,741	Quantum Cost Estimate	Estimated 6-year payback period. See AL-EL-17.	Energy Consultant B. Kenworthy R. Thomas	C
AL-EL-13	Electrical	Music Room Sound System Addition	Provide built-in sound system at music room.	Music room does not have built-in sound system.	Enhancement	2	\$58,625	Quantum Cost Estimate	Minor need.	B. Kenworthy	C
AL-EL-15	Electrical	Surveillance Camera Addition	Provide surveillance camera system to monitor parking lots and areas around building.	Surveillance cameras could reduce vandalism and theft around building.	Enhancement	1	\$107,993	Quantum Cost Estimate	Minor need.	M. Newman D. Collier	C
AL-EL-16	Electrical	Teacher's Work Station Data Outlet Addition	Provide data outlets for computers and AV equipment at teacher's work station in each classroom.	Classrooms do not have AV outlets at teacher's work station and do not have floor box with data outlets at front of classroom.	Enhancement	1	\$308,550	Quantum Cost Estimate	Not cost effective. See AL-EQ-15 for an alternate approach using wireless work station.	R. Luke M. Newman	C
AL-MD-08	Modernization	Kiln Room Addition	Provide dedicated room, ventilation system, and fire protection system for kiln.	Existing kiln is located in boiler room and does not have ventilation or fire protection system.	Deficiency	1	\$32,380	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
AL-MD-10	Modernization	Library Natural Daylight Improvements	Provide daylight at Library.	Library does not have exterior windows or skylight for natural light.	Deficiency	2	\$71,261	BLRB Cost Estimate	Minor deficiency.	D. Collier B. Kenworthy	C
AL-MD-19	Modernization	Primary Classroom Restroom Additions	Provide restrooms in first and second grade classrooms.	Restrooms needed in these classrooms to allow students to use toilet facilities during class without leaving classroom. Existing student restrooms are located in near front of school.	Deficiency	2	\$389,314	BLRB Cost Estimate	Not cost effective.	D. Collier B. Kenworthy	C
AL-MD-23	Modernization	Staff Restroom Improvements	Modify staff restrooms 108 and 112 to provide ADA compliant clearances and grab bars.	Existing restrooms lack adequate floor space in front of toilet stalls for ADA access and toilet stalls lack grab bars.	Deficiency	1	NA	BLRB Cost Estimate	Cost included in AL-MD-30. See AL-EQ-14 for a portion of these improvements.	ADA Consultant	C
AL-MD-24	Modernization	Staff Workroom Expansion	Provide larger staff workroom that will accommodate a second copy machine.	Staff workroom is undersized and 40 SF or 10% below district's minimum standard and at not large enough to accommodate two copy machines.	Deficiency	2	NA	BLRB	Cost included in AL-MD-32.	D. Collier B. Kenworthy	C

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AL-MD-25	Modernization	Stage Addition	Provide permanent stage connected to gym.	Permanent stage not present at school. Existing retractable stage uses up seating area for assemblies and programs, lacks adequate stage lighting, is difficult to operate, and does not provide an additional permanent area for instrumental music classes.	Deficiency	3	NA	BLRB Cost Estimate	Cost included in AL-MD-30.	D. Collier B. Kenworthy	C
AL-MD-28	Modernization	Telecommunication Rooms Upgrade	Provide larger MC room and separate HC room each with independent mechanical ventilation and cooling systems.	Existing MC room undersized and existing MC equipment is located in boiler room. Both spaces lack independent HVAC systems.	Deficiency	1	\$20,834	BLRB Cost Estimate	Minor deficiency.	N. Vein B. Kenworthy	C
AL-MD-29 ECM-G1	Modernization	Window Wall Replacement	Replace the remaining single pane windows with new thermal pane windows, and insulated infill panels.	Window replacement will reduce energy costs.	Operating Cost	3	\$192,845	Quantum Cost Estimate	Not cost effective because of estimated 15-year payback period.	Energy Consultant	C
AL-SI-03	Site	Bus Stall Improvements	Increase width of bus stalls to 16'.	Wider stalls needed to make it easier for buses to pull in and out. Increasing width from 12' to 16' will reduce number of bus stalls from 10 to 8.	Enhancement	NA	NA	No Cost Estimate	Maintenance item.	J. Denton	NA
AL-SI-15	Site	Kitchen Delivery Access Improvement	Improve kitchen delivery access.	Existing kitchen delivery location is not adjacent to kitchen.	Deficiency	2	NA	BLRB Cost Estimate	Cost included in AL-MD-30.	B. Kenworthy	NA
AL-SI-16	Site	Long Jump Runway Addition	Provide cinder or asphalt runway for long jump.	Existing long jump has a grass runway.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Kenworthy	NA
AL-SI-20	Site	Site Sign Upgrade	Replace site sign with concrete or masonry sign that includes school address.	Existing site sign is made of wood, not durable and does not identify school address.	Deficiency	NA	NA	No Cost Estimate	Replace at a later date when existing sign wears out.	B. Kenworthy	NA
AL-EX-01	Exterior	Automatic Door Opener Addition	Provide automatic door opener at main entry doors.	Automatic door openers desired to better accommodate disabled students, staff and visitors.	Enhancement	NA	NA	Completed by Maintenance Dept.	Completed.	J. Trauffer	NA
AL-IN-03	Interior	Custodial / Mechanical Room Door Modification	Replace 30" wide door at custodial / mechanical room 214 with 36" wide door.	Existing door too narrow for convenient access for custodial carts and supplies.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency.	B. Kenworthy	NA
AL-IN-08	Interior	Telephone Room Expansion	Enlarge telephone room located in staff lounge.	Existing telephone room is small and will not accommodate a wheelchair.	Deficiency	NA	NA	No Cost Estimate	Not cost effective. Other telephones in building are assessable by disabled.	B. Kenworthy	NA
AL-EQ-01	Equipment	Artwork Protection	Relocate permanent artwork piece in library so it is out of reach.	Permanent artwork from OSP1 collection is within reach of students..	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Kenworthy	NA
AL-EQ-07	Equipment	Instructional Equipment Upgrade	Replace 7 laser printers in classrooms, two laser printers in library, and TV/DVD/VCR in library.	Equipment past life expectancy. Laser printers over 8 years old and TV/DVD/VCR over 10 years old.	Deficiency	NA	NA	No Cost Estimate	Obtained with Technology Levy funds.	R. Luke	NA
AL-EQ-09	Equipment	Office Equipment Upgrade	Replace copy machine in workroom.	Copier over 8 years old and past life expectancy.	Deficiency	NA	NA	No Cost Estimate	Obtained as leased equipment.	R. Luke	NA
AL-EQ-12	Equipment	Toilet Partition Upgrade	Replace or repair metal toilet partitions in main building.	Existing metal toilet partitions have surface rust in limited areas.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency.	R. Thomas	NA
AL-EL-02	Electrical	Classroom Data Outlet Additions	Provide an additional data outlet for student use in classrooms.	Classrooms have 5 rather than the minimum standard of 6 data outlets in each room for student computers.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency. Outlets can be added by district using splitter and existing data wiring.	B. Kenworthy	NA

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AL-EL-11	Electrical	Internet Connection Upgrade	Increase bandwidth of school's internet connection.	Increased bandwidth desired to provide long-term and efficient access for information technology via the internet.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency. Existing internet connection meets district's minimum standard.	R. Luke	NA
AL-MD-01	Modernization	Building Capacity Upgrade	Increase size of school to accommodate more students than required by district's minimum standards.	School has 23 classrooms in compliance with the district's minimum standard. Current enrollment of 537 exceeds capacity of school's 23 classrooms.	Enhancement	NA	NA	No Cost Estimate	Not cost effective and existing school size meets district's standards.	D. Collier	NA
AL-MD-03	Modernization	Community Storage Room Addition	Provide space for community storage.	Building does not have a community storage room.	Deficiency	3	NA	BLRB Cost Estimate	Cost included in AL-MD-30.	D. Collier B. Kenworthy	NA
AL-MD-04	Modernization	Corridor Width Increase	Increase width of secondary corridors.	Secondary corridors at 5 feet wide are narrow and do not minimum standard of 8 feet wide.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency.	D. Collier B. Kenworthy	NA
AL-MD-05	Modernization	Emergency Storage Room Addition	Provide space within building for storage of emergency supplies.	Building does not have space for storage of emergency supplies. Existing supplies kept in exterior storage container.	Deficiency	3	NA	BLRB Cost Estimate	Cost included in AL-MD-30.	D. Collier B. Kenworthy	NA
AL-MD-06	Modernization	Furniture Storage Addition	Provide space for furniture storage.	Building does not have designated space for storage of furniture.	Deficiency	3	NA	BLRB Cost Estimate	Cost included in AL-MD-30.	D. Collier B. Kenworthy	NA
AL-MD-07	Modernization	Health Restroom Improvements	Enlarge health restroom to be ADA compliant and provide ADA compliant toilet.	Existing health restroom not ADA compliant and difficult for disabled individuals to use.	Deficiency	1	NA	BLRB Cost Estimate	Cost included in AL-MD-31.	B. Kenworthy ADA Consultant	NA
AL-MD-09	Modernization	Kitchen Expansion and Modernization	Enlarge kitchen, provide work desk area with data and POS outlets, raise ceiling, upgrade flooring, raise ceiling height, provide a two-burner cooktop and combi-oven in kitchen. Replace steamer, steam kettle, convection ovens, and dishwasher. Provide walk-in cooler and a larger walk-in freezer. Enlarge dry storage area.	Kitchen not large enough to accommodate standard equipment, work desk area and dry storage space. Ceiling is lower than 10' minimum standard. Cook top and combi oven needed for food service operations. Some equipment reaching end of recommended useful life. Existing flooring is in poor condition and does not meet health standards. Kitchen does not have a walk-in cooler and has an undersized walk-in freezer. Existing free-standing cooler not large enough and is beyond end of recommended useful life.	Deficiency	1	NA	BLRB Cost Estimate	Cost included in AL-MD-30.	D. Collier E. Boutin B. Kenworthy	NA
AL-MD-11	Modernization	Locker Additions	Provide lockers for students in corridors.	School does not have student lockers. Existing corridors not wide enough to accommodate lockers.	Deficiency	NA	NA	No Cost Estimate	Not feasible. Corridor width cannot be increased to accommodate lockers without adversely affecting instructional space and offices.	B. Kenworthy R. Thomas	NA
AL-MD-12	Modernization	Locker Room Conversion	Remodel locker rooms for use as storage space.	Locker rooms not needed and could be efficiently used for storage if remodeled.	Enhancement	1	NA	BLRB Cost Estimate	Cost included in AL-MD-30.	D. Collier R. Thomas B. Kenworthy	NA
AL-MD-13	Modernization	Maintenance Office Addition	Provide maintenance office.	Existing custodial desk area and EMS workstation is located in boiler room and is not close to delivery area.	Deficiency	3	NA	BLRB Cost Estimate	Cost included in AL-MD-32.	B. Kenworthy	NA

# PROPOSED FACILITY IMPROVEMENTS

# ALPAC ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AL-MD-14	Modernization	Main Office Modernization	Provide larger main office area that includes an additional office for itinerant staff.	Existing main office area is undersized by 40 SF and 5% smaller than district's minimum standard. This requires the main office workroom to be combined with the mail area. School does not have an itinerant office for use by specialist who work at the school on a regular basis.	Deficiency	2	NA	BLRB Cost Estimate	Cost included in AL-MD-31.	D. Collier B. Kenworthy	NA
AL-MD-15	Modernization	Nurse's Office Addition	Provide nurse's office.	Nurse does not have separate office. Instead, nurses desk is locate in health room.	Deficiency	2	NA	BLRB Cost Estimate	Cost included in AL-MD-31.	D. Collier B. Kenworthy	NA
AL-MD-16	Modernization	PE Office Addition	Provide office for PE instructor.	Existing workstation for PE instructor is located in PE storage room and does not meet district's minimum standards.	Deficiency	2	NA	BLRB Cost Estimate	Cost included in AL-MD-30.	B. Kenworthy	NA
AL-MD-18	Modernization	Pre-School Classroom Addition	Provide pre-school classrooms with restroom and changing table.	Building does not have classrooms with restroom and changing table for preschool classes. Special education room is currently being used for preschool.	Deficiency	NA	NA	No Cost Estimate	Obtain pre-school classroom by using existing special ed. classroom at no added cost.	B. Kenworthy	NA
AL-MD-20	Modernization	Public Restroom Addition	Provide public restrooms within in building.	Public restrooms are not provided in building which requires public to use staff or student restrooms.	Deficiency	3	NA	BLRB Cost Estimate	Cost included in AL-MD-32.	B. Kenworthy	NA
AL-MD-22	Modernization	Staff Restroom Addition	Provide staff restroom at east end of school.	Staff restrooms not provided at east classroom wing or at east end of main building.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency and not cost effective because of space limitations.	B. Kenworthy	NA



# PROPOSED FACILITY IMPROVEMENTS

# ARTHUR JACOBSEN ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AJ-SI-01	Site	ADA Site Improvements	Provide miscellaneous site improvements to comply with ADA standards that do not significantly affect access to building.	Miscellaneous site areas, which do not significantly affect access to the building, could be improved to comply with current ADA standards.	Enhancement	2	\$34,836	BLRB Cost Estimate	Minor deficiency.	ADA Consultant	C
AJ-IN-01	Interior	ADA Building Improvements	Provide miscellaneous building improvements to comply with ADA standards that do not significantly affect access within the building.	Miscellaneous building areas, which do not significantly affect access within the building, could be improved to comply with current ADA standards.	Enhancement	2	\$141,289	BLRB Cost Estimate	Minor deficiency.	ADA Consultant	C
AJ-EQ-01	Equipment	Fiber Optic Connection Addition	Provide data communications equipment to accommodate installation of a leased fiber optic circuit.	Equipment needed when school upgrades its internet connection with a fiber optic circuit leased from Qwest.	Enhancement	1	\$11,410	ASD Cost Estimate	Minor need.	N. Vein	C
AJ-ME-03	Mechanical	Natural Gas System Metering	Provide electronic meter for natural gas system connected to energy management system.	Electronic meter will allow remote monitoring of gas service and improve potential for reducing natural gas use.	Operating Cost	2	\$22,370	Quantum Cost Estimate	Minor need at elementary school and long-term payback period.	R. Thomas	C
AJ-ME-05	Mechanical	Water Quality Improvements	Replace plumbing at sinks kitchen (1), staff workroom and classroom 209.	Water quality tests at 3 sinks exceeded EPA water quality standards for lead or copper.	Health / Safety	1	\$7,715	Quantum Cost Estimate	Not needed. Further testing revealed water quality standards being met.	B. Kenworthy	C
AJ-EL-02	Electrical	Electrical Service Metering	Provide electronic meter for electrical service connected to energy management system.	Electronic meter will allow remote monitoring of electrical service and improve potential for reducing electrical use.	Operating Cost	2	\$24,941	Quantum Cost Estimate	Minor need at elementary school and long-term payback period.	R. Thomas	C
AJ-EL-03 ECM-L1	Electrical	Exterior HID Lighting Replacement	Replace existing HID fixtures on the exterior of the building with compact fluorescent.	Exterior light fixture replacement will reduce energy costs.	Operating Cost	2	\$12,857	Quantum Cost Estimate	Not cost effective because of estimated 10-year payback period.	Energy Consultant	C
AJ-EL-05 ECM-L1	Electrical	Exterior Parking Lot Lighting Retrofit	Analyze parking lot lights for retrofit to pulse start metal halide or inductive lighting.	Retrofit of existing parking lot lights may reduce energy costs.	Operating Cost	3	\$3,857	Quantum Cost Estimate	Not cost effective because of long-term payback period.	Energy Consultant	C
AJ-EL-07	Electrical	Intrusion Alarm Audible Signal Upgrade	Upgrade intrusion alarm system to provide audible alarm.	Use of audible alarm could reduce intrusions and false alarms.	Enhancement	3	\$46,026	Quantum Cost Estimate	Minor need.	M. Newman	C
AJ-EL-09	Electrical	Surveillance Camera Addition	Provide surveillance camera system to monitor parking lots and areas around building.	Surveillance cameras could reduce vandalism and theft around building.	Enhancement	4	\$107,993	Quantum Cost Estimate	Minor need.	M. Newman	C
AJ-SI-04	Site	Fence Additions	Provide chainlink fence at portions of north property line that is open to AMHS property.	Additional fencing needed to improve security and supervision.	Deficiency	2	\$18,275	BLRB Cost Estimate	Complete using funds from AJ Elementary School project.	R. Thomas	C*
AJ-SI-06 ECM-W2	Site	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station and add a rain gauge.	Connection to the EMS and the addition of a rain gauge will reduce water consumption and utility costs.	Operating Cost	1	\$6,428	Quantum Cost Estimate	Estimated 3-year payback period. Complete using funds from AJ Elementary School project.	Energy Consultant R. Thomas	C*
AJ-ME-01 ECM-M3	Mechanical	Exhaust Fan Lead / Lag Control Addition	Add a damper to allow lead / lag control of general exhaust fans, operating one at a time rather than both simultaneously.	Adding a damper will allow one fan to operate at a time and reduce energy costs.	Operating Cost	2	\$6,428	Quantum Cost Estimate	Estimated 6-year payback period. Complete using funds from AJ Elementary School project.	Energy Consultant	C*

# PROPOSED FACILITY IMPROVEMENTS

# ARTHUR JACOBSEN ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AJ-ME-04 ECM-M2	Mechanical	Occupancy Sensor Temperature Control Addition	Connect occupancy sensors in classrooms to the Energy Management System.	Connection of existing occupancy sensors to EMS will allow heating system temperatures to be set back when the spaces are unoccupied. This will allow heating and airflow reduced during unoccupied periods and reduce energy costs.	Operating Cost	2	\$28,285	Quantum Cost Estimate	Estimated 10-year payback period. Complete using funds from AJ Elementary School project.	Energy Consultant	C*
AJ-ME-06 ECM-W1	Mechanical	Water Retrofit Review	Review water saving opportunities including retrofit of aerators on sinks.	Review may identify opportunities for water use reduction will reduce utility costs.	Operating Cost	1	\$3,857	Quantum Cost Estimate	Estimated 2-year payback period. Complete using funds from AJ Elementary School project.	Energy Consultant	C*
AJ-EL-01 ECM-L2	Electrical	Daylighting Control Addition	Add day lighting control to the fixtures in the foyer and stairwell.	Daylight controls will reduce lighting where sufficient ambient light is available and reduce energy costs.	Operating Cost	2	\$6,428	Quantum Cost Estimate	Estimated 7-year payback period. Complete using funds from AJ Elementary School project.	Energy Consultant	C*
AJ-EL-04	Electrical	Exterior Lighting Level Improvements	Provide additional illumination at delivery area.	Existing lighting at delivery area is below district's minimum standards.	Deficiency	2	\$10,696	Quantum Cost Estimate	Complete using funds from AJ Elementary School project.	B. Kenworthy	C*
AL-EL-08 ECM-L3	Electrical	Occupancy Sensor Lighting Control Addition	Install occupancy sensors in the gym to turn off lights when the spaces are unoccupied.	Installation of occupancy sensors will reduce energy costs.	Operating Cost	1	\$12,857	Quantum Cost Estimate	Estimated 4-year payback period. Complete using funds from AJ Elementary School project.	Energy Consultant	C*
AJ-EL-10	Electrical	Emergency Power Expansion	Provide emergency power to the domestic water pump.	Emergency power needed for domestic water pump to allow the water system and toilets to be used during power outage.	Deficiency	2	\$19,542	Quantum Cost Estimate	Complete using funds from AJ Elementary School project.	R. Thomas	C*
AJ-SI-02	Site	Bus Railing Modifications	Relocate railings at bus zone to be further from curb.	Relocation of railings will allow students to load and exit bus directly from sidewalk rather than stepping off curb and loading from pavement area.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency.	E. Daniel	NA
AJ-SI-03	Site	Bus Stall Modifications	Increase width of bus stalls from 10' to 16' wide.	Existing bus stalls are too narrow for easy parking and movement of buses. At 10' wide, bus stalls do not allow adequate separation between side mirrors on buses. An increase in width of stalls from 10' to 16' would reduce number of bus stalls from 10 to 7.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	J. Denton	NA
AJ-SI-05	Site	Hard Surface Play Area Upgrade	Replace or cover existing porous asphalt at hard surface play area with standard asphalt.	Aggregate stones used in the porous asphalt come loose and create a trip hazard.	Enhancement	NA	NA	No Cost Estimate	Not feasible. Porous asphalt required by King County for storm water drainage.	E. Daniel	NA
AJ-SI-07	Site	Pavement Marking Addition	Provide thermo-plastic pavement markings at bus stall numbers.	Thermo-plastics markings are needed at bus stalls to permanently designate bus stall numbers.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	R. Thomas B. Kenworthy	NA
AJ-SI-08	Site	Pipe Rail Gate Improvement	Provide reflective tape on pipe rail vehicle gates.	Existing pipe rail gates do not have reflective tape and can be difficult to see at night.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Kenworthy	NA
AJ-SI-09	Site	Reader Board View Improvements	Remove chainlink fence and vegetation at north side of monument sign reader board at front of school.	Existing fence and vegetation on AMHS property obscures view of north side of reader board.	Deficiency	NA	NA	No Cost Estimate	Not feasible. Existing fence and vegetation north of monument sign is a regulated wetlands and cannot be removed.	E. Daniel	NA

# PROPOSED FACILITY IMPROVEMENTS

# ARTHUR JACOBSEN ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AJ-IN-02	Interior	Floor Tile Expansion	Increase floor tile area in kindergarten and ECE classrooms.	More non-carpet floor surface area needed to accommodate kindergarten and ECE activities.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency.	E. Daniel	NA
AJ-IN-03	Interior	Library Casework Modification	Adjust location of free-standing shelving in library to provide 36" wide aisles.	Aisles between library shelving less than 36" wide in two locations.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	ADA Consultant	NA
AJ-IN-04	Interior	Locker Improvements	Replace stacked lockers in ECE and primary classroom area with full height lockers that have low shelves.	ECE and primary students cannot reach shelves in upper section of stacked lockers.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency.	E. Daniel	NA
AJ-IN-05	Interior	Stairway Wainscot Upgrade	Provide durable paint or wainscot material at lower section of walls at stairway.	Existing painted wallboard at stairway is easily scuffed where students stand in line for lunch.	Enhancement	NA	NA	No Cost Estimate	Maintenance item.	L. Cowan	NA
AJ-EQ-02	Equipment	Grab Bar Additions	Provide vertical grab bars in HC stall in student restrooms 214 and 215.	Grab bars not provided as required by ADA.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	ADA Consultant	NA
AJ-EQ-03	Equipment	LCD Projector Upgrade	Provide tuners for the DVD / VCR players that are compatible with the ceiling mounted LCD projectors.	Existing LCD projectors will not receive a signal from the DVD / VCR players because of incompatible tuners.	Deficiency	NA	NA	No Cost Estimate	Tuners can be purchased by principal from capital project funds existing funds.	E. Daniel	NA
AJ-EQ-04	Equipment	Staff Lounge Dishwashers Addition	Provide residential grade dishwasher in staff lounge.	Dishwasher needed in lounge for staff to use when washing dishes.	Enhancement	NA	NA	No Cost Estimate	Dishwashers in staff lounges are not a district standard.	E. Daniel	NA
AJ-ME-02 ECM-M1	Mechanical	HVAC Control System Commissioning	Commission the HVAC control system to verify proper operation.	Commissioning could improve system operation and reduce energy costs.	Operating Cost	NA	NA	No Cost Estimate	Commissioning completed as part of the AJ Elementary construction project.	Energy Consultant	NA
AJ-EL-06	Electrical	Internet Connection Upgrade	Increase bandwidth of school's internet connection.	Increased bandwidth desired to provide long-term and efficient access for information technology via the internet.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency. Existing internet connection meets district's minimum standard.	R. Luke	NA
AJ-MD-01	Modernization	Commons Addition	Provide a commons near the gym and library.	Commons desired for public use and as another assembly area.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency.	E. Daniel	NA
AJ-MD-02	Modernization	Covered Bus Waiting Area Addition	Provide canopy for covered waiting area at bus loading area.	The addition of a canopy at the loading area will allow students to wait for and load buses under cover during rain.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency. An existing covered walkway area is close to the bus loading area.	E. Daniel	NA
AJ-MD-03	Modernization	Miscellaneous Storage Room Addition	Provide room for miscellaneous storage.	Miscellaneous storage room needed to accommodate storage items from ECE kindergarten programs.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency.	E. Daniel B. Kenworthy	NA
AJ-MD-04	Modernization	Pre-School Classroom Addition	Provide pre-school classrooms with restroom and changing table.	Building does not have classrooms with restroom and changing table for preschool classes. A primary classroom currently being used.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency. An existing primary classroom can be used for pre-school education.	B. Kenworthy	NA
AJ-MD-05	Modernization	Special Education Cabinet Addition	Provide additional cabinets in special education classroom.	Additional cabinet storage is needed in special education classroom.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency. Existing cabinets in special education classroom meet district standards.	E. Daniel	NA
AJ-MD-06	Modernization	Staff Restroom Additions	Provide men and women's staff restrooms near main office.	Placement of staff restrooms near main office will be more convenient for office, library, gym and kindergarten staff to use.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency.	E. Daniel	NA

# PROPOSED FACILITY IMPROVEMENTS

# ARTHUR JACOBSEN ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AJ-MD-07	Modernization	Staff Workroom Addition	Provide a staff workroom near the second floor classrooms.	The addition of a workroom on the second floor will be more convenient for teachers on the second floor to use in lieu of the first floor workroom.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency.	E. Daniel	NA

# PROPOSED FACILITY IMPROVEMENTS

# CHINOOK ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
CH-SI-02	Site	Asphalt Pathway Upgrade	Patch a portion of damaged asphalt pathway between playground and Scenic Drive.	Existing asphalt pathway is deteriorated and uneven in one area near the playground.	Deficiency	3	\$1,649	BLRB Cost Estimate		R. Thomas	A
CH-SI-16	Site	On-Site Sidewalk Improvements	Provide handicap curb cut at north parking lot and additional sidewalk width at north and east sides of building	Handicap access not provided at curb at parking lot and existing sidewalks at north and east sides of building are less than the district's minimum standard of 5' wide .	Deficiency	1	\$21,702	BLRB Cost Estimate		B. Kenworthy	A
CH-SI-18	Site	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars, and directional arrows. Provide striping at exterior basketball court and at bus loading area.	Thermo-plastics markings are needed in critical locations where existing markings are painted and have worn away or are no longer visible. Striping is needed to designate perimeter of basketball court.	Enhancement	2	\$2,285	BLRB Cost Estimate		R. Thomas	A
CH-SI-23	Site	Traffic Control Sign Additions	Provide signs designating bus loading area, student drop off area, and two handicap parking stalls.	Student drop off and bus loading areas do not have signs to restrict traffic at these areas. Two handicap parking stalls do not have signage as required by ADA.	Deficiency	2	\$2,139	BLRB Cost Estimate		B. Kenworthy ADA Consultant	A
CH-SI-26	Site	Curb Ramp Additions	Provide two curb ramps at sidewalks at each side of crosswalk at entry drive to north parking lot.	Ramps needed for wheelchair access.	Deficiency	1	\$10,285	ASD Cost Estimate		L. Holloman R. Thomas	A
CH-NW-01	New	Facility Replacement	Demolish existing building and site improvements and build new school facility.	Existing site and building have extensive program and facility component deficiencies. Many of these deficiencies cannot be corrected unless significant portions of the facility were demolished and rebuilt in a new configuration.	Deficiency	2	\$32,179,660	BLRB Cost Estimate		M. Newman	A
CH-EQ-02	Equipment	Classroom Furniture Upgrade	Replace teacher and student furniture in classrooms.	Existing classroom furniture is worn and teacher's desks and student chairs do not meet district's minimum standards.	Deficiency	1	\$126,419	ASD Cost Estimate		B. Kenworthy	B
CH-EQ-03	Equipment	Computer Furniture Upgrade	Provide furniture designed for computer and other technology equipment use.	Existing furniture used for computer and technology equipment is lacking and in many cases not designed for this use.	Deficiency	2	\$13,544	ASD Cost Estimate		R. Luke	B
CH-EQ-09	Equipment	Office Furniture Upgrade	Replace office furniture.	Existing office furniture is worn and desks do not meet district's minimum standards.	Deficiency	1	\$15,269	ASD Cost Estimate		B. Kenworthy	B
CH-SI-12	Site	Exterior Bench Additions	Provide 7 additional exterior benches.	Exterior benches not provided where needed at all locations at playground area.	Deficiency	2	\$20,528	BLRB Cost Estimate		L. Holloman B. Kenworthy	B+
CH-SI-13	Site	Exterior Waste Receptacle Upgrade	Provide ornamental waste receptacle at front entry and waste receptacles with push door tops at playground.	Existing exterior waste receptacles are galvanized cans without covers.	Enhancement	3	\$6,280	BLRB Cost Estimate		R. Thomas	B+
CH-SI-01	Site	ADA Site Improvements	Provide miscellaneous site improvements to comply non-mandatory ADA standards.	School was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous site areas, which do not significantly affect access to the building, could be improved to comply with current ADA standards. Site improvements needed to provide ADA required program access are identified separately.	Enhancement	1	\$41,703	BLRB Cost Estimate	Minor need and non-mandatory improvements.	ADA Consultant	C
CH-SI-03	Site	Bus Loading / Student Drop Off Area Improvements	Provide bus loading area with separate from other traffic. Provide additional space for parents to pick up and drop off students.	Buses currently load and unload along main entry road without separation from other traffic. There is not adequate space for parents to pick up and drop off students.	Deficiency	2	\$637,998	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas B. Kenworthy	C

# PROPOSED FACILITY IMPROVEMENTS

# CHINOOK ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
CH-SI-05	Site	Climbing Equipment Curb Addition	Provide concrete curb around perimeter of climbing equipment areas.	Existing wood curb is in fair condition.	Enhancement	2	\$51,250	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
CH-SI-06	Site	Climbing Equipment Area Drainage Improvements	Provide sub-drain system at climbing equipment areas.	Existing wood chip climbing equipment areas drain poorly and are saturated with water much of the school year.	Enhancement	2	\$54,953	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
CH-SI-07	Site	Climbing Equipment Ground Surface Upgrade	Provide engineered wood fiber for ground surface at climbing equipment areas.	Existing wood chips used for ground surface are sharp and can cause slivers.	Deficiency	2	\$34,116	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
CH-SI-08	Site	Climbing Equipment Upgrade	Replace wood and galvanized metal climbing structures.	Existing wood and galvanized metal climbing equipment is deteriorated in areas and does not meet school district's minimum standards.	Deficiency	1	\$103,860	BLRB Cost Estimate	Not cost effective because of short-term life of facility. Maintenance Dept. will maintain equipment to keep it safe.	B. Kenworthy R. Thomas	C
CH-SI-09	Site	Delivery Area Modifications	Modify delivery area at kitchen to eliminate conflict with fire lane.	Vehicles block fire lane when parked in delivery stalls next to kitchen.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in CH-MD-34.	B. Kenworthy	C
CH-SI-10	Site	Delivery Area Vehicle Gate Addition	Provide vehicle gate at delivery area.	Delivery area does not have vehicle gate to restrict vehicle access after school hours.	Deficiency	3	\$34,945	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
CH-SI-11	Site	Dumpster Area Addition	Provide designated area with screen walls for dumpster storage.	Dumpsters are located in north parking lot without a designated area or screen walls.	Deficiency	3	\$39,926	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
CH-SI-14 ECM-W2	Site	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station and add a rain gauge.	Connection to the EMS and the addition of a rain gauge will reduce water consumption and utility costs.	Operating Cost	1	\$6,428	Quantum Cost Estimate	Not cost effective because of estimated 4-year payback period and short-term life of facility.	Energy Consultant R. Thomas	C
CH-SI-15	Site	Long Jump Area Improvements	Improve long-jump area.	Existing long jump area in poor condition.	Deficiency	3	\$14,149	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
CH-SI-17	Site	Parking Lot Storm Drainage Improvements	Improve storm drainage system at front parking lot by increasing capacity.	Existing storm drainage system allows large areas of water to pond in front parking lot during moderate to heavy rainfall.	Deficiency	1	\$44,288	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
CH-SI-19	Site	Sewer Line Replacement	Replace existing sewer mainline.	Existing sewer mainline has settled and creates sewer drainage problems.	Deficiency	2	\$55,510	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
CH-SI-20	Site	Site Sign Upgrade	Replace site sign with concrete or masonry sign that includes school address.	Existing site sign is made of wood, not durable and does not identify school address.	Deficiency	3	\$61,095	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
CH-SI-21	Site	Street Frontage Sidewalk Addition	Provide sidewalk at Auburn Way South in front of school property.	There is not a sidewalk for pedestrian use on street in front of school so students walk on paved road shoulder.	Deficiency	2	\$139,208	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
CH-SI-24	Site	Underground Storage Tank Removal	Remove 300 gallon starter and 5,000 gallon primary underground fuel oil storage tanks that serve the heating system.	Existing underground tanks are not used and present an environmental risk.	Deficiency	1	\$67,937	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
CH-SI-25	Site	Underground Electrical Service Upgrade	Replace overhead electrical service with underground service line.	Existing electrical service is overhead which is unsightly and vulnerable to damage.	Enhancement	2	\$264,274	Quantum Cost Estimate	Minor need.	R. Thomas	C

# PROPOSED FACILITY IMPROVEMENTS

# CHINOOK ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
CH-ST-01	Structural	Infill Panel Addition	Provide infill panels between top of existing masonry wall and bottom of roof sheathing at playshed.	Infill panels will transfer in-plane shear forces to the masonry wall and stabilize the top of the beams.	Deficiency	2	\$12,830	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
CH-ST-02	Structural	Cross Bracing and Steel Strap Addition	Provide cross bracing to transfer chord forces to glulam beam. Provide steel straps at splices in beam at playshed.	Cross bracing will transfer chord forces to the glulam beam and steel straps at splices in the beam will create a continous tension chord, allowing the beam to act as a chord which will improve shear transfer.	Deficiency	2	\$18,328	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
CH-ST-03	Structural	Plywood Sheathing Addition & Roof Replacement	Replace roof and insulation. Add plywood over the existing timber decking at the 1962 buildings.	Plywood sheathing will improve the overall structural performance of the structure.	Deficiency	2	\$1,261,585	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
CH-ST-04	Structural	Roof Diaphragm Connection Addition	Provide a positive connection at roof diaphragm between the original roof structure and roof structure at classroom and library additions.	Providing a positive connection between the original roof structure and the roof structure at the additions will improve seismic support.	Deficiency	2	\$9,530	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
CH-ST-05	Structural	Wood Sill Replacement	Replace wood sill at the ends of the 1962 and 1981 classroom buildings.	Wood sill detailing is susceptible to water damage and deterioration. Replacement of damaged or deteriorated wood sills will improve structural performance.	Deficiency	2	\$7,332	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
CH-ST-06	Structural	Masonry Crack Repair - Boiler Room	Seal or re-point cracks at boiler room to prevent future damage.	Cracks should be sealed or re-pointed to prevent future damage.	Deficiency	2	\$19,550	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
CH-ST-07	Structural	Masonry Screen Wall	Re-point deteriorated mortar joints and repair cracks at west masonry screen wall.	Deteriorated mortar joints should be re-pointed and cracks should be repaired to prevent future damage.	Deficiency	2	\$21,750	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
CH-ST-08	Structural	Infill Shear Wall Addition	Provide plywood infill shear walls at exterior window walls.	Plywood infill shear walls will eliminate rotation.	Deficiency	2	\$128,297	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
CH-ST-09	Structural	Mechanical Equipment Anchoring	Anchor equipment in mechanical room.	Anchoring mechanical equipment in accordance with current code requirements will reduce potential for equipment and structural damage.	Deficiency	2	\$2,445	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
CH-ST-10	Structural	Masonry Chimney Anchoring	Provide roof blocking and tension ties into the masonry chimney.	Securing the masonry chimney to the roof structure will reduce the potential for damage to chimney and roof.	Deficiency	2	\$6,061	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
CH-ST-12	Structural	Playshed Beam Bracing	Stabilize and brace beams at north end of playshed.	Stabilizing and bracing the beams will prevent future rotation of the beams.	Deficiency	2	\$9,775	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
CH-ST-13	Structural	Column Connection Additions	Add connection hardware at the beam to column, and at the column to foundation connections at 1962 buildings.	Connection hardware will resist uplift forces.	Deficiency	2	\$13,440	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C

# PROPOSED FACILITY IMPROVEMENTS

# CHINOOK ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
CH-ST-14	Structural	Column and Beam Dry Rot Repair	Repair dry rot at exterior wood columns and wood beam overhangs.	Replacing structural members with dry rot will prevent future damage.	Deficiency	2	\$40,458	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
CH-EX-01	Exterior	Automatic Door Opener Addition	Provide automatic door opener at two front entry doors.	Building does not have automatic door opener at main entry doors.	Enhancement	1	\$26,882	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	J. Trauffer	C
CH-EX-05 ECM-G1	Exterior	Exterior Window Replacement	Replace single-pane exterior windows with dual glazing.	Dual glazed windows will improve energy efficiency and reduce energy costs.	Operating Cost & Deficiency	3	\$385,688	Quantum Cost Estimate	Not cost effective because of estimated 15-year payback period.	Energy Consultant	C
CH-EX-06	Exterior	Exterior Window Wall and Window Covering Upgrade	Replace single-pane exterior windows and cement board window panels with dual glazing and integral blinds.	Dual glazed windows will improve energy efficiency and integral blinds will reduce damage to and maintenance of window blinds.	Operating Cost & Deficiency	1	\$1,080,641	BLRB Cost Estimate	Not cost effective because of estimated long-term payback period.	R. Thomas	C
CH-EX-07	Exterior	Mablecrete Wall Panel Upgrade	Replace mablecrete exterior wall panels with masonry or other exterior material.	Existing mablecrete walls are unsightly, deteriorated in areas, and difficult to maintain.	Deficiency	3	\$484,473	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
CH-EX-08	Exterior	Masonry Water Repellant Application	Provide application of water repellant at exterior masonry.	Existing masonry lacks a water repellant coating to protect against moisture penetration.	Deficiency	1	\$28,103	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
CH-EX-09	Exterior	Roof Membrane and Insulation Upgrade	Replace built-up roof system with single-ply Hypolon and add roof insulation at areas of original building construction.	Existing built-up roofing is past its recommended life expectancy. Roof insulation does not meet district's minimum standards except at library and music room additions.	Operating Cost & Deficiency	1	\$1,208,129	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
CH-EX-10	Exterior	Roof Fall Arrest Anchor Addition	Provide fall arrest system at pitched roof areas at gym and playshed.	Pitched roofs at gym and playsheds do not have fall arrest safety system.	Health / Safety	2	\$38,123	BLRB Cost Estimate	Minor deficiency because of the low height of sloped roofs.	R. Thomas	C
CH-EX-11	Exterior	Sun Protection Addition	Provide sun protection at classrooms at south side of building.	Direct sunlight as south classrooms causes classrooms to overheat at times in spring and fall.	Deficiency	1	\$105,998	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	L. Holloman	C
CH-IN-01	Interior	ADA Building Improvements	Provide miscellaneous building improvements to comply non-mandatory ADA standards.	School was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous building areas, which do not significantly affect access within the building, could be improved to comply with current ADA standards. Improvements needed to provide ADA required program access within the building are identified separately.	Enhancement	1	\$502,972	BLRB Cost Estimate	Minor need and non-mandatory improvements.	ADA Consultant	C
CH-IN-02	Interior	Asbestos Containing Material Removal	Remove approximately 20,000 SF of vinyl asbestos tile and asbestos tile mastic, 200 SF of sheet vinyl, and 500 pipe insulation joints throughout building.	Existing vinyl tile, mastic and pipe insulation joints contain asbestos. All of the mastic is covered with tile. About 19,000 SF of vinyl asbestos tile is covered with carpet. All asbestos is encapsulated within the material and is not friable.	Enhancement	1	\$265,392	BLRB Cost Estimate	Minor need.	B. Kenworthy	C



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CH-IN-03	Interior	Cabinet Upgrade	Replace existing cabinets throughout school, increase the amount of cabinets in classrooms, and provide locks keyed to the building master key system.	Existing cabinets are made of wood and are worn, do not have locks keyed to the building master key system, and classrooms have less cabinets than district's minimum standards. Placement of additional cabinets in classrooms adversely affected by classroom coat storage area.	Deficiency	2	\$698,199	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy R. Thomas	C
CH-IN-04	Interior	Classroom Ceiling Upgrade	Provide new ceilings in classrooms.	Existing glue-on acoustical ceiling tile in classrooms is stained and damaged.	Deficiency	2	\$339,473	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
CH-IN-05	Interior	Classroom Marker Board Additions	Provide additional marker boards in selected classrooms.	Some classrooms do not have 16' of marker board as required in district's minimum standards.	Deficiency	1	\$41,055	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
CH-IN-07	Interior	Display Case Addition	Provide built-in display case at front entry area.	Existing display cases are moveable and are not large enough to meet the district's minimum standards.	Deficiency	3	\$9,775	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
CH-IN-08	Interior	Gym Floor Upgrade	Provide wood floor in gym.	Existing rubber floor is in fair condition.	Enhancement	2	\$143,264	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
CH-IN-09	Interior	Office Relite Window Additions	Provide relite windows where not present at offices.	Some offices do not have interior relite windows to allow visual connection to corridor or adjacent room.	Deficiency	1	\$4,372	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
CH-IN-10	Interior	Walk Off Mat Upgrade	Provide larger walk off mats at building entrances.	Larger mats will improve dirt control and reduce maintenance and carpet wear.	Enhancement	2	\$41,788	BLRB Cost Estimate	Minor deficiency.	R. Thomas	C
CH-EQ-01	Equipment	Classroom Curtain Upgrade	Replace curtains in classroom with coated fabric or roller shades.	Existing curtains are old and worn.	Deficiency	1	\$83,680	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	L. Holloman	C
CH-EQ-04	Equipment	Fiber Optic Connection Addition	Provide data communications equipment to accommodate installation of a leased fiber optic circuit.	Equipment needed when school upgrades its internet connection with a fiber optic circuit leased from Qwest.	Enhancement	1	\$11,410	ASD Cost Estimate	Minor need.	N. Vein	C
CH-EQ-05	Equipment	Gym Basketball Backboard Upgrade	Replace one fixed backboard with a retractable backboard.	Gym does not have two retractable backboards which results in interference for volleyball.	Deficiency	2	\$10,091	BLRB Cost Estimate	Minor deficiency..	L. Holloman B. Kenworthy	C
CH-EQ-06	Equipment	Gym Stage Curtain Replacement	Replace curtain at portable stage in gym.	Existing curtain is worn and is not fire retardant.	Deficiency	1	\$12,972	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
CH-EQ-07	Equipment	Gym Projection Screen Upgrade	Provide motorized projection screen in gym.	Projection screen in gym is manually operated.	Deficiency	2	\$13,973	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
CH-ME-01 ECM-M2	Mechanical	Automatic Controls Upgrade	Upgrade the control system front end equipment and software to the district standard - BacNet compatible, web based.	BACnet controls will reduce EMS maintenance and service costs.	Operating Cost	2	\$38,570	Quantum Cost Estimate	Not cost effective because of estimated 10-year payback period.	R. Thomas Energy Consultant	C
CH-ME-02 ECM-M3	Mechanical	CO2 Control Addition	Expand Alerton control system to add CO2 control to the main air handling systems in the gym and library.	CO2 control will regulate the amount of outside air being delivered to the occupied spaces based on CO2 levels and reduce energy usage.	Operating Cost	1	\$15,428	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	Energy Consultant	C
CH-ME-03	Mechanical	Fire Sprinkler System Addition	Provide fire sprinkler system throughout school.	Buildings are not protected with a fire sprinkler system.	Deficiency	1	\$336,551	Quantum Cost Estimate	Not cost effective.	R. Thomas	C

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CH-ME-04 ECM-M5	Mechanical	Kitchen Hood Control Addition	Connect the Alerton EMS control system to the kitchen hood.	Connection of the EMS to the kitchen hood will eliminate operation of the hood when kitchen is not occupied and will reduce energy costs.	Operating Cost	1	\$6,428	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	Energy Consultant	C
CH-ME-05 ECM-M1	Mechanical	HVAC Control System Commissioning	Commission the HVAC control system to verify proper operation.	Commissioning will improve system operation and efficiency.	Operating Cost	2	\$38,570	Quantum Cost Estimate	Not cost effective because of estimated 6-year payback period.	Energy Consultant R. Thomas	C
CH-ME-06	Mechanical	Mechanical Cooling Addition	Provide mechanical cooling at main office area and library.	Library overheats at times during school year and main office area overheats during summer use.	Enhancement	2	\$47,826	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
CH-ME-07	Mechanical	Natural Gas System Metering	Provide electronic meter for natural gas system connected to energy management system.	Electronic meter will allow remote monitoring of gas service and improve potential for reducing natural gas use.	Operating Cost	3	\$22,370	Quantum Cost Estimate	Minor need at elementary school and long-term payback period.	R. Thomas	C
CH-ME-08 ECM-M4	Mechanical	Occupancy Sensor Temperature Control Addition	Install occupancy sensors in areas of fluctuating occupancy to set back the spaces when they are unoccupied.	Occupancy sensors will reduce energy consumption and energy costs.	Operating Cost	2	\$12,857	Quantum Cost Estimate	Not cost effective because of estimated 6-year payback period.	Energy Consultant	C
CH-ME-09 ECM-M6	Mechanical	Pipe Insulation Addition	Insulate sections of uninsulated heating water and domestic hot water piping.	Insulation will reduce heat loss and energy costs.	Operating Costs	1	\$3,857	Quantum Cost Estimate	Not cost effective because of estimated 3-year payback period and short-term life of facility.	Energy Consultant	C
CH-ME-10	Mechanical	Plumbing Fixture Replacement	Replace plumbing fixtures throughout school.	Existing plumbing fixtures are in poor condition, lack water saving features, and do not meet district's minimum standards.	Operating Cost & Deficiency	2	\$95,084	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
CH-ME-11 ECM-W1	Mechanical	Plumbing Fixture Retrofit Review	Review water saving opportunities including retrofit or replacement of sinks, urinals and water closets.	A reduction in water use will reduce utility costs.	Operating Cost	1	\$38,570	Quantum Cost Estimate	Not cost effective because of estimated long-term payback period.	Energy Consultant	C
CH-ME-12 ECM-M7	Mechanical	Relief Vent Upgrade	Repair or replace relief vents to eliminate leakage.	Relief vent repair or replacement will eliminate leakage when vents are closed, will improve occupant comfort, and will reduce energy costs.	Operating Cost	2	\$2,572	Quantum Cost Estimate	Not cost effective because of estimated 8-year payback period.	Energy Consultant	C
CH-ME-13	Mechanical	Water Quality Improvements	Replace plumbing at sink in staff workroom. Replace one drinking fountain.	Water quality tests at one sink and one drinking fountain exceeded EPA water quality standards for lead or copper.	Health / Safety	1	\$5,013	Quantum Cost Estimate	Not needed. Further testing revealed water quality standards being met.	B. Kenworthy	C
CH-ME-14	Mechanical	Hydronic Water Pipe Upgrade	Replace underground hydronic water pipes with above ground system.	Existing underground hydronic water pipes are in poor condition with inadequate insulation and require frequent and expensive maintenance. Above ground pipes will be easier to maintain and cost less to install.	Deficiency	3	\$557,422	Quantum Cost Estimate	Not cost effective because of the short-term life of facility. Instead, continue to utilize cart mounted projector.	R. Thomas	C
CH-EL-01	Electrical	Ceiling Mounted LCD Projector Addition	Provide ceiling mounted LCD projector and associated AV and power outlets in each classroom with connection to teacher's work station.	Ceiling mounted projectors desired for ease of use, to reduce theft, and to protect equipment and cables from damage.	Enhancement	1	\$526,335	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Luke R. Thomas M. Newman	C
CH-EL-02	Electrical	Data Communications Equipment Upgrade	Upgrade data communications equipment filter, router, switch, traffic shaping and connectivity speed.	Existing filter, router, switch, traffic shaping and connectivity speed do not meet district's minimum standards.	Deficiency	2	\$146,707	ASD Cost Estimate	Minor need.	N. Vien	C

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
CH-EL-03	Electrical	Data Outlet Addition at Teacher's Work Station	Provide data outlets for computers and AV equipment at teacher's work station in each classroom.	Classrooms do not have AV outlets at teacher's work station and do not have floor box with data outlets at front of classroom.	Enhancement	1	\$283,866	Quantum Cost Estimate	Not cost effective.	R. Luke M. Newman	C
CH-EL-05	Electrical	Electrical Outlet Additions	Provide additional electrical outlets in classrooms and selected offices.	All classrooms and some offices do not have enough electrical outlets and do not meet district's minimum standards.	Deficiency	2	\$102,850	Quantum Cost Estimate	Minor deficiency.	B. Kenworthy	C
CH-EL-06	Electrical	Electrical Service Metering	Provide electronic meter for electrical service connected to energy management system.	Electronic meter will allow remote monitoring of electrical service and improve potential for reducing electrical use.	Operating Cost	3	\$24,941	Quantum Cost Estimate	Minor need at elementary school and long-term payback period.	R. Thomas	C
CH-EL-07	Electrical	Exterior Lighting Level Improvements	Provide additional illumination at front entry, bus area, delivery area, parking lots and pathways.	Existing lighting at exterior area lacks adequate illumination levels and is below minimum standards.	Health / Safety & Deficiency	1	\$126,506	Quantum Cost Estimate	Minor deficiency.	B. Kenworthy M. Newman	C
CH-EL-08	Electrical	Gym Sound System Addition	Provide built-in sound system in gym.	Existing sound system is a portable system and does not meet district's minimum standards.	Deficiency	2	\$54,511	Quantum Cost Estimate	Minor deficiency.	B. Kenworthy R. Thomas	C
CH-EL-09	Electrical	Interior Lighting Level Improvements	Provide additional illumination at classrooms, kitchen, library, and restrooms.	Existing lighting at interior areas lacks adequate illumination levels, is below the district's minimum standards and many light fixtures have discolored lenses.	Health / Safety & Deficiency	1	\$128,563	Quantum Cost Estimate	Minor deficiency.	B. Kenworthy	C
CH-EL-10 ECM-L1	Electrical	Interior Lighting Upgrade	Retrofit or replace T-12 fixtures, magnetic ballast and incandescent fixtures with T-8, electronic ballast and compact fluorescent technology.	Fixture replacement or retrofit will reduce energy costs.	Operating Cost	2	\$141,420	Quantum Cost Estimate	Not cost effective because of estimated 6-year payback period.	Energy Consultant R. Thomas	C
CH-EL-12	Electrical	Intrusion Alarm Audible Signal Upgrade	Upgrade intrusion alarm system to provide audible alarm.	Use of audible alarm could reduce intrusions and false alarms.	Enhancement	2	\$46,026	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	M. Newman	C
CH-EL-13 ECM-L2	Electrical	Occupancy Sensor Lighting Control Addition	Install occupancy sensor in areas with fluctuating occupancy to turn off lights when the spaces are unoccupied.	Occupancy sensors will reduce energy consumption and energy costs.	Operating Cost	2	\$6,428	Quantum Cost Estimate	Not cost effective because of estimated 7-year payback period.	Energy Consultant	C
CH-EL-14	Electrical	Surveillance Camera Addition	Provide surveillance camera system to monitor parking lots and areas around building.	Surveillance cameras could reduce vandalism and theft around building.	Enhancement	1	\$107,993	Quantum Cost Estimate	Minor need.	M. Newman	C
CH-MD-01	Modernization	Building Appearance Upgrade	Improve building appearance.	Buildings do not have a prominent front entry and have a dated and unattractive appearance on the interior and exterior.	Deficiency	2	\$1,597,932	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
CH-MD-02	Modernization	Building Enclosure Modernization	Provide access to all parts of building within enclosed space.	School consists of separate buildings connected by covered walkways. This inhibits supervision, requires students and staff to go outdoors to travel between buildings, and does not meet district's minimum standards.	Deficiency	3	\$2,535,174	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	L. Holloman B. Kenworthy	C
CH-MD-04	Modernization	Community Storage Room Addition	Provide space for community storage.	Building does not have a community storage room. Small 20 SF closet currently used. District's minimum standards require 80 SF.	Deficiency	1	\$10,821	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	L. Holloman B. Kenworthy	C
CH-MD-05	Modernization	Custodial Room Modernization	Provide larger and dedicated custodial rooms with protective wainscot.	Existing custodial rooms are undersized, include mechanical equipment and do not have protective wall covering.	Deficiency	2	\$14,907	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	L. Holloman B. Kenworthy	C

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
CH-MD-07	Modernization	Gym and Playshed Roof Modifications	Modify the gym and playshed roofs to eliminate into roof valleys and raise ceiling height.	Existing roof directs water into numerous roof valleys with minimal slope creating ponding water and a high potential for roof leaks. Existing roofs create ceiling heights that are below the district's minimum standards.	Enhancement	2	\$441,708	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
CH-MD-18	Modernization	Music Classroom Modernization	Provide larger music room.	Existing music room is undersized by about 180 SF or 20% and is not large enough accommodate music classes.	Deficiency	2	\$156,619	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	L. Holloman B. Kenworthy	C
CH-MD-20	Modernization	PE Office Addition	Provide office for PE instructor.	Existing workstation for PE instructor is located in PE storage room and does not meet district's minimum standards.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in CH-MD-35.	L. Holloman B. Kenworthy R. Thomas	C
CH-MD-21	Modernization	Pre-School Classroom Modernization	Relocate pre-school classroom close to bus loading area and provide ADA compliant restroom with changing table.	Existing pre-school classroom is not close to bus loading area and does not have ADA compliant restroom or changing table.	Deficiency	2	\$201,392	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	L. Holloman B. Kenworthy	C
CH-MD-23	Modernization	Primary Classroom Restroom Modernization	Enlarge and add restrooms in first and second grade classrooms.	Not all primary classrooms have restrooms and six primary classrooms have undersized restrooms that are not ADA compliant.	Deficiency	2	\$85,996	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	L. Holloman B. Kenworthy	C
CH-MD-26	Modernization	Special Education Classroom Modernization	Relocate special education classroom close to bus loading area and provide a testing room and ADA compliant restroom with changing table.	Existing special education classroom is not close to bus loading area and does not have a testing room and ADA compliant restroom or changing table.	Deficiency	1	\$195,711	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	L. Holloman B. Kenworthy	C
CH-MD-30	Modernization	Storage Space Addition	Provide additional space for furniture, general, instructional, miscellaneous and PE storage.	Existing storage spaces do not accommodate all general, instructional and PE storage items.	Deficiency	1	\$23,841	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	L. Holloman B. Kenworthy	C
CH-MD-31	Modernization	Student Restroom Modernization	Modernize non-classroom student restrooms to provide ceramic tile floors, 7' high wainscot, gypsum wallboard ceiling, new toilet partitions and ADA compliant grab bars, toilet stalls, toilets and sinks.	Non-classroom student restrooms have dated ceramic floor tile, damaged and stained glue-on acoustical ceiling tile, undersized wainscot, toilets and sinks in poor condition, toilets and sinks with high water use, deteriorated toilet partitions, and plumbing fixtures, toilet stalls and grab bars that are not ADA compliant.	Deficiency	1	\$268,020	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	L. Holloman B. Kenworthy ADA Consultant	C
CH-MD-33	Modernization	Health Area / Kiln Room / Library / Office / Restroom / Telecommunications Rooms Modernization & Additions	Provide an itinerant office, kiln room, pre-school storage room, and public restrooms. Modernize and expand health area, library office and computer lab, OT/PT office, staff restrooms, and telecommunications room.	See Improvement Justifications for items CH-MD-09, 10, 11, 13, 14, 17, 19, 22, 24, 28, and 32.	Deficiency	1	\$1,483,055	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	L. Holloman B. Kenworthy R. Thomas M. Newman ADA Consultant	C
CH-MD-34	Modernization	Kitchen / Serving Area / Maintenance Office Modernization & Addition	Provide a maintenance office. Expand and modernize kitchen and serving area.	See Improvement Justifications for items CH-MD-12 and 16.	Deficiency	2	\$1,707,072	BLRB Cost Estimate	Not cost effective considering estimated life of facility. A portion of improvements included in CH-MD-36.	L. Holloman B. Kenworthy R. Thomas M. Newman E. Boutin ADA Consultant	C
CH-MD-35	Modernization	Classroom / Emergency Storage / PE Office / Stage Additions	Provide an additional classroom, emergency storage room, PE office and stage.	See Improvement Justifications for items CH-MD-03, 06, 20, 29.	Deficiency	1	\$1,411,872	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	L. Holloman B. Kenworthy R. Thomas	C

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CH-MD-36	Modernization	Kitchen Improvements	Provide two-burner cooktop, tilting kettle, hot food wells, and associated electrical and gas service. Enlarge hood to accommodate cooktop and tilting kettle. Provide additional food prep work table and electrical power, electrical, POS and data outlets at work desk area. Replace dishwasher and 2-compartment sink with 3-compartment sink. Provide epoxy paint at walls and ceilings.	Additional equipment and power / data outlets needed to accommodate food service program and meet minimum standards. Replacement equipment needed for equipment past life expectancy.	Deficiency	1	\$474,376	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	E. Boutin	C
CH-SI-04	Site	Chainlink Fencing Repair	Repair damaged area of fence at south end of pathway to Scenic Drive.	Existing fence is damaged at one location and allows entry through fence.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	R. Thomas	NA
CH-SI-22	Site	Student Drop Off Area Expansion	Provide additional space for parents to pick up and drop off students.	Existing drop off and pick up area has 10 stalls, is not adequate to accommodate student pick up and drop off, and does not meet district's minimum standard of 20 stalls.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in CH-SI-03.	B. Kenworthy	NA
CH-ST-11	Structural	Roof Decking Support Addition	Support cut roof decking at mechanical room roof.	Providing structural support for the cut roof decking will improve seismic support.	Deficiency	NA	NA	No Cost Estimate	Completed by Maintenance Department.	Structural Engineer	NA
CH-ST-15	Structure	Gym Roof Structure Repair	Repair or replace portions of roof structure in gym that have deteriorated.	The top portion of the glu-lam beams has deteriorated at roof valley overhang areas at the gym.	Deficiency	NA	NA	No Cost Estimate	Completed by Maintenance Department.	R. Thomas	NA
CH-EX-02	Exterior	Exterior Painting	Paint areas of exterior wood.	Existing paint is in fair condition.	Enhancement	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Thomas	NA
CH-EX-03	Exterior	Exterior Wall Insulation Upgrade	Provide insulation at structural masonry exterior walls.	Structural masonry exterior walls are not insulated.	Operating Cost	NA	NA	No Cost Estimate	Not cost effective.	B. Kenworthy	NA
CH-EX-04	Exterior	Exterior Wall Panel Replacement	Replace prefinished wall panels at window wall areas with insulated material that do not contain asbestos.	Existing cement board wall panels, approximately 420 SF, contain asbestos and are not insulated. Asbestos is contained within the material and is not friable.	Operating Cost & Enhancement	1	NA	BLRB Cost Estimate	Costs included in CH-EX-06.	R. Thomas	NA
CH-IN-06	Interior	Corridor Tackboard Additions	Provide vinyl wall covering in corridors for additional tackable display area.	Existing corridor walls do not have vinyl wall covering for tackable display areas. Tackboards are present.	Enhancement	NA	NA	No Cost Estimate	Not feasible because corridor walls are masonry.	R. Thomas	NA
CH-EQ-08	Equipment	Office Equipment Upgrade	Provide copy machine for main office area.	Copy machine not provided in main office. Office staff uses copier in staff workroom.	Deficiency	NA	NA	No Cost Estimate	Obtained as leased equipment.	R. Luke	NA
CH-EL-04	Electrical	Data Outlet Addition at Classrooms	Provide two more data outlets in each classroom for student use.	Classrooms have 4 data outlets for student use and 6 are required by districts minimum standards.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency. Outlets can be added by district using splitter and existing data wiring.	B. Kenworthy	NA
CH-EL-11	Electrical	Internet Connection Upgrade	Increase bandwidth of school's internet connection.	Increased bandwidth desired to provide long-term and efficient access for information technology via the internet.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency. Existing internet connection meets district's minimum standard.	R. Luke	NA
CH-MD-03	Modernization	Classroom Addition	Provide an additional classroom.	School has 22 classrooms which is one less than district's minimum standard.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in CH-MD-35.	B. Kenworthy	NA

# PROPOSED FACILITY IMPROVEMENTS

# CHINOOK ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
CH-MD-06	Modernization	Emergency Storage Room Addition	Provide space within building for storage of emergency supplies.	Building does not have space for storage of emergency supplies. Existing supplies kept in exterior storage container.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in CH-MD-35.	L. Holloman B. Kenworthy	NA
CH-MD-08	Modernization	Gym Modernization	Expand gym.	Gym is 200 SF or 6% below district's minimum standard.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency.	L. Holloman B. Kenworthy	NA
CH-MD-09	Modernization	Health Area Modernization	Modernize health room area to provide visibility from main office, provide an exhaust fan, add a nurse's office, and provide a restroom that is ADA compliant.	Existing health room cannot be visually supervised from main office area, lacks an exhaust fan and separate nurses office, and has an undersized restroom that lacks grab bars and has a toilet that is not ADA compliant.	Health / Safety & Deficiency	1	NA	BLRB Cost Estimate	Costs included in CH-MD-33.	L. Holloman B. Kenworthy ADA Consultant	NA
CH-MD-10	Modernization	Itinerant Office Addition	Provide office for itinerant staff.	Building does not have office for itinerant staff.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in CH-MD-33.	L. Holloman B. Kenworthy	NA
CH-MD-11	Modernization	Kiln Room Addition	Provide dedicated room, ventilation system, and fire protection system for kiln.	Existing kiln is located in boiler room and does not have ventilation or fire protection system.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in CH-MD-33.	B. Kenworthy	NA
CH-MD-12	Modernization	Kitchen and Serving Area Modernization	Relocate, expand and modernize kitchen and serving area to meet district's standards.	Existing kitchen is undersized 100 SF or 12%, has a low ceiling, and not centrally located. Designated serving area not provided. Instead, serving is done within kitchen and next to dishwasher and ovens. Students must walk and line up outside for access to serving area. Storage space and walk-in cooler and freezer are undersized. Kitchen manager work area with desk, data and POS outlets and telephone not provided. Hot food wells, two-burner cook top, tilting steam kettle, and three-compartment sink not provided. Dishwasher is beyond recommended life expectancy. Work space and table area for food prep is not adequate.	Health / Safety & Deficiency	1	NA	BLRB Cost Estimate	Costs included in CH-MD-34.	L. Holloman B. Kenworthy E. Boutin M. Newman	NA
CH-MD-13	Modernization	Library Office Modernization	Expand library office and provide TV head end equipment within room.	Existing library office is undersized by about 30 SF or 25% and does not have direct access to TV head end equipment within room.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in CH-MD-33.	L. Holloman B. Kenworthy	NA
CH-MD-14	Modernization	Library Computer Lab Modernization	Provide larger computer lab with upgraded data and electrical capacity.	Existing computer lab in library is undersized and has inadequate data and electrical wiring.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in CH-MD-33.	L. Holloman B. Kenworthy	NA
CH-MD-15	Modernization	Locker Additions	Provide lockers for students in corridors.	School does not have student lockers. Existing corridors not wide enough to accommodate lockers.	Deficiency	NA	NA	No Cost Estimate	Not feasible. There is not adequate corridor space to accommodate lockers.	B. Kenworthy R. Thomas	NA
CH-MD-16	Modernization	Maintenance Office Addition	Provide maintenance office.	Existing custodial desk area and EMS workstation is located in boiler room.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in CH-MD-34.	B. Kenworthy	NA
CH-MD-17	Modernization	Main Office Modernization	Modernize main office area to provide larger reception and office area, visual link to health room and principal's office, exterior windows, visual link to front entry, additional interior lighting, and direct access to mail boxes and work area within main office area.	Existing office and reception area undersized by about 200 SF or 50%, visual link for supervision of health room not provided, visual link to principal's office not provided, exterior windows and visual link to front entry not provided, lighting level is below district's minimum standard in areas, work area with staff mail boxes not directly accessible and visually connected to office area.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in CH-MD-33.	L. Holloman B. Kenworthy	NA

# PROPOSED FACILITY IMPROVEMENTS

# CHINOOK ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
CH-MD-19	Modernization	OT / PT Room Modernization	Provide OT / PT room that meets district's standards.	Room currently used for OT / PT is undersized and does not have computer outlet and other features required to meet district's minimum standards.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in CH-MD-33.	L. Holloman B. Kenworthy	NA
CH-MD-22	Modernization	Pre-School Storage Addition	Provide storage space for pre-school tricycles and other outdoor play equipment.	Pre-school program does not have enclosed storage for outdoor play equipment.	Enhancement	1	NA	BLRB Cost Estimate	Costs included in CH-MD-33.	L. Holloman	NA
CH-MD-24	Modernization	Public Restroom Addition	Provide public restrooms in main building area.	Public restrooms are not provided in main building which requires public to use gym, staff or student restrooms.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in CH-MD-33.	B. Kenworthy	NA
CH-MD-25	Modernization	Small Conference Room Expansion	Enlarge small conference room.	Existing small conference room is 30 SF or 15% smaller than district's minimum standard.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency,	B. Kenworthy	NA
CH-MD-27	Modernization	Staff Lounge Modification	Locate staff lounge close to kitchen with a telephone room for staff use.	Existing staff lounge does not have convenient access to kitchen and does not have a telephone room.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency.	L. Holloman B. Kenworthy	NA
CH-MD-28	Modernization	Staff Restroom Modernization	Provide larger and additional staff restrooms.	Building has only one men's and one women's staff restrooms. These restrooms are undersized, do not meet ADA required clearances, lack grab bars, have only a single toilet fixture which is not ADA compliant, and are not located in each classroom wing.	Health / Safety & Deficiency	1	NA	BLRB Cost Estimate	Costs included in CH-MD-33.	L. Holloman B. Kenworthy ADA Consultant	NA
CH-MD-29	Modernization	Stage Addition	Provide permanent stage connected to gymnasium.	Permanent stage not present at school. Existing retractable stage uses up seating area for assemblies and programs, lacks adequate stage lighting, is difficult to operate, and does not provide an additional permanent area for instrumental music classes.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in CH-MD-35.	L. Holloman B. Kenworthy	NA
CH-MD-32	Modernization	Telecommunication Rooms Modernization	Provide dedicated MC and HC rooms each with independent mechanical ventilation and cooling systems.	Existing HC and MC rooms are undersized, lack independent HVAC systems, and are also used as storage rooms.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in CH-MD-33.	N. Vein B. Kenworthy	NA

# PROPOSED FACILITY IMPROVEMENTS

# DICK SCOBEE ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
DS-SI-08	Site	Curb Ramp Addition	Provide curb ramp at front entry sidewalk.	Curb ramp needed for wheelchair access at front entry sidewalk.	Deficiency	1	\$4,570	BLRB Cost Estimate		ADA Consultant	A
DS-SI-16	Site	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars, and directional arrows. Provide striping for an exterior and playshed basketball court, additional pickle ball court and 4 box hockey games.	Thermo-plastics markings are needed in critical locations where painted lines quickly wear away. Game line striping needed at perimeter for outdoor basketball court and at one more pickle ball court.	Deficiency & Enhancement	2	\$2,285	BLRB Cost Estimate		R. Thomas	A
DS-NW-01	New	Facility Replacement	Demolish existing building and site improvements and build new school facility.	Existing site and building have extensive program and facility component deficiencies. Many of these deficiencies cannot be corrected unless significant portions of the facility were demolished and rebuilt in a new configuration.	Deficiency	1	\$30,762,604	BLRB Cost Estimate		M. Newman	A
DS-EQ-02	Equipment	Computer Furniture Upgrade	Provide furniture designed for computer and other technology equipment use.	Existing furniture used for computer and technology equipment is lacking and in many cases not designed for this use.	Deficiency	1	\$35,503	ASD Cost Estimate		R. Luke	B
DS-EQ-07	Equipment	Office Furniture Upgrade	Replace staff desks in offices.	Existing staff desks are old and in marginal condition.	Deficiency	1	\$13,524	ASD Cost Estimate		B. Kenworthy	B
DS-EQ-01	Equipment	Classroom Furniture Upgrade	Replace staff and student furniture in classrooms.	Existing furniture is worn, does not match, and does not meet district's minimum standards.	Deficiency	1	\$72,497	ASD Cost Estimate		G. Brown	B
DS-SI-11	Site	Exterior Bench Additions	Provide 8 exterior bench at hard surface playground area.	Exterior benches not provided at playground area.	Deficiency	4	\$23,460	BLRB Cost Estimate		G. Brown	B+
DS-SI-12	Site	Exterior Waste Receptacle Additions	Provide ornamental waste receptacle at front entry and waste receptacles with push door tops at playground and bus loading area.	School does not have exterior waste receptacles except for one at playground.	Deficiency	2	\$7,222	BLRB Cost Estimate		G. Brown	B+
DS-SI-01	Site	ADA Site Improvements	Provide miscellaneous site improvements to comply non-mandatory ADA standards.	School was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous site areas, which do not significantly affect access to the building, could be improved to comply with current ADA standards. Site improvements needed to provide ADA required program access are identified separately.	Enhancement	2	\$129,176	BLRB Cost Estimate	Minor need and non-mandatory improvements.	ADA Consultant	C
DS-SI-02	Site	Bicycle Rack Replacement	Replace existing bike racks and locate near front entry to building.	Existing bike racks are deteriorated, rusting and most are not located in a supervised area.	Deficiency	3	\$5,865	BLRB Cost Estimate	Minor deficiency.	G. Brown	C
DS-SI-03	Site	Bus Loading Area Expansion	Provide additional parking spaces for buses.	Bus loading area has space or 5 stalls and district's minimum standards require 10 stalls.	Deficiency	4	\$215,098	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	G. Brown	C
DS-SI-04	Site	Climbing Equipment Curb Addition	Provide concrete curb around perimeter of east climbing equipment areas.	Existing wood curb at east climbing equipment area is in poor condition. The west equipment area has a concrete curb.	Deficiency	3	\$26,784	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
DS-SI-05	Site	Climbing Equipment Area Drainage Improvements	Provide sub-drain system at climbing equipment areas.	Existing wood chip climbing equipment areas drain poorly and are saturated with water much of the school year.	Enhancement	2	\$57,326	ASD Cost Estimate	Not cost effective.	R. Thomas	C
DS-SI-06	Site	Climbing Equipment Ground Surface Upgrade	Provide engineered wood fiber for ground surface at climbing equipment areas.	Existing wood chips used for ground surface are sharp and can cause slivers.	Deficiency	1	\$4,976	BLRB Cost Estimate	Not cost effective.	R. Thomas	C



# PROPOSED FACILITY IMPROVEMENTS

# DICK SCOBEE ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
DS-SI-07	Site	Climbing Equipment Upgrade	Replace wood and galvanized metal climbing structures.	Existing wood and galvanized metal climbing equipment is deteriorated in areas and does not meet school district's minimum standards.	Deficiency	2	\$94,085	BLRB Cost Estimate	Not cost effective because of short-term life of facility. Maintenance Dept. will maintain equipment to keep safe.	R. Thomas B. Kenworthy	C
DS-SI-09	Site	Delivery Area Improvements	Relocate and modify school delivery vehicle area.	Existing delivery area at the kitchen does not have a gate to secure the area and requires vehicles to drive across and block a pedestrian walkway for delivery access. This is an undersized delivery area that does not function adequately and adversely affects pedestrian safety.	Health / Safety & Deficiency	1	\$140,461	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	G. Brown	C
DS-SI-10	Site	Dumpster Area Addition	Provide designated area with screen walls for dumpster storage.	Dumpsters are located in a parking lot without a designated area or screen walls.	Deficiency	3	\$39,926	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	G. Brown	C
DS-SI-13	Site	Fence Removal	Remove chainlink fence at east side of building.	Existing fence is in poor condition and not needed.	Deficiency	4	\$1,222	BLRB Cost Estimate	Minor deficiency.	R. Thomas	C
DS-SI-14	Site	Hard Surface Play Area Additions	Provide additional asphalt play area.	Existing hard surface play area is undersized by 20,000 SF and is 42% smaller than the district's minimum standard.	Deficiency	3	\$242,915	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	A. Gayman	C
DS-SI-15 ECM-W2	Site	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station and add a rain gauge.	Connection to the EMS and the addition of a rain gauge will reduce water consumption and utility costs.	Operating Cost	1	\$6,428	Quantum Cost Estimate	Not cost effective considering estimated 2-year payback period and short-term life of facility.	Energy Consultant R. Thomas	C
DS-SI-18	Site	Playground Equipment Additions	Provide 2 basketball backboards at hard surface playground area and 6 at playshed, posts and nets for an additional pickle ball court, and 4 box hockey games.	Existing playground area lacks basketball backboards, pickle ball posts and nets, and box hockey as identified in district's minimum standards. Placement of this additional equipment not possible within the limited amount of hard surface play area present at the school.	Deficiency	3	\$59,383	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
DS-SI-19	Site	Site Sign Upgrade	Replace site sign with concrete or masonry sign that includes school address.	Existing site sign is made of wood, not durable, is deteriorated, and does not identify school address.	Deficiency	3	\$61,095	BLRB Cost Estimate	Minor deficiency.	G. Brown	C
DS-SI-20	Site	Staff Parking Expansion	Provide a staff parking area with 60 stalls including stalls for the disabled and ADA compliant access and signage.	School has 40 staff parking stalls which is 20 less than the district's minimum standard of 60 stalls. A portion of the existing staff parking consists of a gravel surface that is not conveniently located or illuminated with exterior lighting. There is not an accessible route of travel in compliance with ADA from north staff lot to building. Staff parking lots need one more handicap parking stall, pipe rail gates for off-hour security, and a van accessible stall and associated signage.	Deficiency	1	\$1,060,139	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	G. Brown R. Thomas L. Cowan M. Newman ADA Consultant	C
DS-SI-21	Site	Street Tree Addition	Provide trees along north side of 14th Street NE in front of building.	Street trees not present but are required by landscape ordinance and will improve site appearance.	Deficiency	2	\$10,997	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C

# PROPOSED FACILITY IMPROVEMENTS

# DICK SCOBEE ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
DS-ST-01	Structural	Courtyard Roof Infill Modification	Provide separate structures with adequate seismic joints at courtyard roof infill panels.	Providing separate structures will improve seismic support and performance.	Deficiency	2	\$277,977	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
DS-ST-02	Structural	Plywood Sheathing Addition and Roof Replacement	Replace roof and insulation. Add plywood sheathing over the existing timber decking.	Plywood sheathing will improve overall seismic performance of the structure.	Deficiency	2	\$1,640,490	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
DS-ST-03	Structural	Roof Decking Strap Additions	Provide strapping at joints in ends of roof decking pieces near edges of the diaphragm to act as chord members.	Strapping at joints near edges of diaphragm will improve seismic support.	Deficiency	2	\$34,823	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
DS-ST-05	Structural	Braced/Moment Frame Analysis	Perform a detailed lateral analysis to determine adequacy of braced/moment frame members.	Performance of analysis and implementation of recommendations from the analysis will improve the seismic support of the structure.	Deficiency	2	\$28,152	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
DS-ST-06	Structural	Plywood Wall Sheathing Addition - Library	Remove existing finishes, provide plywood sheathing and new finishes to portions of the east and west wall of the library.	Plywood sheathing will improve seismic performance of the east and west wall of the library.	Deficiency	2	\$54,985	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
DS-ST-07	Structural	Plywood Wall Sheathing Addition - Workroom	Remove existing finishes, provide plywood sheathing and new finishes to the north and south walls of the workroom building.	Plywood sheathing will improve seismic performance of the north and south walls of the workroom building.	Deficiency	2	\$14,663	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
DS-ST-08	Structural	Post/Beam/Sill Connection Addition	Provide connections at posts, beams and wood sill plates at workroom building per current code requirements.	Connections that comply with current code requirements will improve the seismic support of the structure.	Deficiency	2	\$4,729	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
DS-ST-09	Structural	Shear Connection Addition	Provide connection to transfer in-plane shear from roof diaphragm to masonry shear wall at west wall of workroom building.	Transfer of in-plane shear from roof diaphragm to masonry shear wall at west wall of workroom will reduce potential for damage.	Deficiency	2	\$4,803	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
DS-ST-10	Structural	Wall Reinforcement Additions	Provide stud backing walls anchored to the floor, wall and roof structure at masonry walls where not provided in 1997.	Stud backing walls will improve seismic support for unreinforced masonry walls.	Deficiency	2	\$58,650	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
DS-ST-12	Structural	Masonry Chimney Anchoring	Provide roof blocking and tension ties into masonry chimney.	Securing the masonry chimney to the roof structure will reduce the potential for damage to chimney and roof.	Deficiency	2	\$3,324	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
DS-ST-13	Structural	Masonry Crack Repair	Repair masonry veneer crack at north exterior wall of gym.	Crack should be repaired to prevent future damage.	Deficiency	2	\$978	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
DS-ST-14	Structural	Mechanical Equipment Anchoring	Anchor equipment in mechanical room.	Anchoring mechanical equipment in accordance with current code requirements will reduce potential for equipment and structural damage.	Deficiency	2	\$2,445	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
DS-EX-03	Exterior	Exterior Door Hardware Upgrade	Replace exterior door lock cylinders with Primus cylinders.	Primus lock cylinders will improve building security.	Enhancement	2	\$9,238	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C

# PROPOSED FACILITY IMPROVEMENTS

# DICK SCOBEE ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
DS-EX-06	Exterior	Exterior Wall Panel and Window Replacement	Replace single-pane exterior windows with dual glazing and integral blinds. Replace exterior wall panels at window wall areas.	Existing windows do not have dual glazing and are not energy efficient. Existing wall panels are not insulated, are made of cement board wall and contain asbestos. Asbestos is contained within the material and is not friable.	Operating Cost & Enhancement	1	\$1,346,276	BLRB Cost Estimate	Not cost effective.	G. Brown R. Thomas B. Kenworthy	C
DS-EX-07 ECM-G1	Exterior	Exterior Window Replacement	Replace single-pane exterior windows with dual glazing.	Dual glazed windows will improve energy efficiency and reduce energy costs.	Operating Cost & Deficiency	3	\$385,688	Quantum Cost Estimate	Not cost effective because of estimated 15-year payback period.	Energy Consultant	C
DS-EX-09	Exterior	Masonry Water Repellant Application	Provide application of water repellant at exterior masonry.	Existing masonry lacks a water repellant coating to protect against moisture penetration.	Deficiency	3	\$72,219	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
DS-EX-10	Exterior	Roof Fall Arrest Anchors Addition	Provide fall arrest system at pitched roof areas.	Pitched roofs do not have fall arrest safety system.	Health / Safety	3	\$73,741	BLRB Cost Estimate	Minor deficiency because sloped roof area has fall protection from adjacent low-slope roof areas.	R. Thomas	C
DS-EX-11	Exterior	Roof Flashing Upgrade	Replace and modify sheet metal flashing at perimeter of skylights.	Existing flashing around skylights leak.	Deficiency	2	\$150,535	BLRB Cost Estimate	Not cost effective considering estimated life of facility.	R. Thomas	C
DS-EX-12	Exterior	Roof Membrane and Insulation Upgrade	Replace built-up roof system with single-ply Hypolon and add roof insulation.	Existing built-up roofing is past its recommended life expectancy. Roof insulation does not meet district's minimum standards.	Operating Cost & Deficiency	1	\$1,380,720	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
DS-EX-13	Exterior	Skylight Replacement	Replace translucent panels at skylights.	Existing skylight panels are in poor condition.	Deficiency	1	\$989,376	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
DS-IN-01	Interior	ADA Building Improvements	Provide miscellaneous building improvements to comply non-mandatory ADA standards.	School was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous building areas, which do not significantly affect access within the building, could be improved to comply with current ADA standards. Improvements needed to provide ADA required program access within the building are identified separately.	Enhancement	2	\$151,562	BLRB Cost Estimate	Minor need and non-mandatory improvements.	ADA Consultant	C
DS-IN-02	Interior	Asbestos Containing Material Removal	Remove approximately 20,000 SF of vinyl asbestos tile and 3,000 SF of cement asbestos board.	Existing vinyl floor tile and exterior cement asbestos board panels contain asbestos. Nearly all of the vinyl tile is covered with carpet. All asbestos is encapsulated within the material and is not friable.	Enhancement	1	\$323,185	BLRB Cost Estimate	Minor deficiency.	R. Thomas	C
DS-IN-03	Interior	Carpet Replacement	Replace carpet in classrooms, corridors, and library.	Existing carpet in classrooms, corridors and library is worn, stained and unsightly.	Deficiency	1	\$456,005	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	G. Brown	C
DS-IN-04	Interior	Classroom Ceiling Upgrade	Provide new ceilings in classrooms.	Existing glue-on acoustical ceiling tile in classrooms is in poor condition and does not conceal unsightly pipes and conduit. Installation of a suspended ceiling would result in an 8' high ceiling which is lower than district's minimum standard.	Deficiency	1	\$277,122	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C

# PROPOSED FACILITY IMPROVEMENTS

# DICK SCOBEE ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
DS-IN-05	Interior	Classroom Cabinet Upgrade	Replace older sections of cabinets in classrooms.	Older sections of existing cabinets in each classroom are in poor condition and do not have locks keyed to the building master key system, and classrooms have less cabinets than district's minimum standards.	Deficiency	2	\$658,060	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
DS-IN-06	Interior	Display Case Addition	Provide built-in display case at front entry area.	Building does not have 8' of display cases at front entry in compliance with the district's minimum standard. Existing display cases are portable.	Deficiency	3	\$9,775	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
DS-IN-07	Interior	Gym Floor Upgrade	Provide wood floor in gym.	Existing rubber floor is fair condition.	Enhancement	1	\$227,929	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	G. Brown R. Thomas	C
DS-IN-09	Interior	Office Relite Window Additions	Provide relite windows where not present at offices.	Some offices do not have interior relite windows to allow visual connection to corridor or adjacent room.	Deficiency	3	\$16,048	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
DS-IN-10	Interior	Walk Off Mat Upgrade	Provide larger walk off mats at building entrances.	Larger mats will improve dirt control and reduce maintenance and carpet wear.	Enhancement	2	\$45,455	BLRB Cost Estimate	Minor deficiency.	R. Thomas	C
DS-EQ-04	Equipment	Fiber Optic Connection Addition	Provide data communications equipment to accommodate installation of a leased fiber optic circuit.	Equipment needed when school upgrades its internet connection with a fiber optic circuit leased from Qwest.	Enhancement	2	\$11,410	ASD Cost Estimate	Minor need.	N. Vein	C
DS-EQ-05	Equipment	Gym Basketball Backboard Upgrade	Provide two retractable backboards in gym.	Existing basketball backboards at main court are not have two retractable which interferes with volleyball.	Deficiency	1	\$20,183	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
DS-EQ-06	Equipment	Gym Projection Screen Upgrade	Provide larger and motorized projection screen in gymnasium.	Existing projection screen in gymnasium is undersized and manually operated.	Deficiency	1	\$13,973	BLRB Cost Estimate	Minor deficiency.	G. Brown	C
DS-EQ-08	Equipment	Toilet Partition Upgrade	Replace toilet partitions at gym restrooms.	Existing metal toilet partitions in gym have mismatched parts from past repairs.	Deficiency	3	\$13,973	BLRB Cost Estimate	Minor deficiency.	R. Thomas	C
DS-EQ-09	Equipment	Window Covering Upgrade	Replace curtains and roller shades at exterior windows with coated fabric or new roller shades. Provide mini-blinds at interior relite windows.	Existing curtains and roller shades at some exterior windows do not match and are in poor condition. Window coverings not provided at some interior relite windows.	Deficiency	1	\$35,320	BLRB Cost Estimate	Minor deficiency.	G. Brown	C
DS-ME-01 ECM-M2	Mechanical	Automatic Controls Upgrade	Upgrade control system front end and software to the district standard - BacNet compatible, web based.	BACnet controls will reduce EMS maintenance and service costs.	Operating Cost	2	\$38,570	Quantum Cost Estimate	Not cost effective because of estimated 10-year payback period and short-term life of facility.	R. Thomas Energy Consultant	C
DS-ME-02 EMC-M6	Mechanical	Boiler Replacement	Replace boiler with two high efficiency condensing boilers and add a hot water circulation pump.	Boiler replacement and pump addition will reduce energy costs.	Operating Cost	3	\$282,838	Quantum Cost Estimate	Not cost effective because of estimated 12-year payback period and short-term life of facility.	Energy Consultant	C
DS-ME-03 ECM-M7R	Mechanical	EMS Expansion - Water Heater	Expand energy management system to the main domestic water heater.	Expansion of the EMS system will improve water heater operations and reduce energy costs.	Operating Cost	2	\$9,000	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	Energy Consultant	C
DS-ME-04	Mechanical	Fire Sprinkler System Addition	Provide fire sprinkler system throughout school.	Buildings are not protected with a fire sprinkler system.	Deficiency	1	\$473,882	Quantum Cost Estimate	Not cost effective.	R. Thomas	C

# PROPOSED FACILITY IMPROVEMENTS

# DICK SCOBEE ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
DS-ME-05	Mechanical	Main Office Heating / Ventilation Improvements	Improve heating and ventilation system in main office area.	Existing heating and ventilation system in main office overheats because of inadequate ventilation and uninsulated heating pipes located above the ceiling.	Deficiency	1	\$17,228	Quantum Cost Estimate	Not cost effective because corrective work will fully resolve problem.	R. Fricks	C
DS-ME-06 ECM-M5	Mechanical	Hot Water Pump VFD Addition	Install variable frequency drive on the main heating water circulation pump. Convert the existing three-way valving to two-way valving and modulate flow based on system demand.	VDF and valve modifications will reduce energy costs.	Operating Cost	2	\$37,283	Quantum Cost Estimate	Not cost effective because of estimated 8-year payback period and short-term life of facility.	Energy Consultant	C
DS-ME-07	Mechanical	Mechanical Cooling Addition	Provide mechanical cooling at main office area and library.	Library overheats at times during school year and main office area overheats during summer use.	Enhancement	1	\$40,627	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
DS-ME-08	Mechanical	Natural Gas System Metering	Provide electronic meter for natural gas system connected to energy management system.	Electronic meter will allow remote monitoring of gas service and improve potential for reducing natural gas use.	Operating Cost	2	\$22,884	Quantum Cost Estimate	Minor need and not cost effective at an elementary school.	R. Thomas	C
DS-ME-09 ECM-M4	Mechanical	Occupancy Sensor Temperature Control Addition	Install occupancy sensors in classrooms, library and gymnasium to set back the spaces when they are unoccupied.	Occupancy sensors will reduce energy consumption and energy costs.	Operating Cost	2	\$15,428	Quantum Cost Estimate	Not cost effective because of estimated 6-year payback period and short-term life of facility.	Energy Consultant	C
DS-ME-10 ECM-M3	Mechanical	Pipe Insulation Addition	Insulate the supply and return heating water piping.	Adding insulation will reduce energy costs.	Operating Cost	1	\$89,995	Quantum Cost Estimate	Not cost effective because of estimated 4-year payback period and short-term life of facility.	Energy Consultant	C
DS-ME-11	Mechanical	Plumbing Fixture Replacement	Replace plumbing fixtures throughout school except at east wing restroom addition.	Existing plumbing fixtures are in poor condition, lack water saving features, and do not meet district's minimum standards.	Operating Cost & Deficiency	1	\$161,218	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
DS-ME-12 EMC-M1	Mechanical	TAB and Commissioning	Perform air and water Testing, Adjusting and Balancing (TAB) on the mechanical systems. Commission the existing HVAC control system to verify proper operation.	Retroactive TAB and commissioning will improve system operation and reduce energy costs.	Operating Cost	2	\$64,282	Quantum Cost Estimate	Not cost effective because of estimated 8-year payback period and short-term life of facility.	Energy Consultant R. Thomas	C
DS-ME-13 ECM-W1	Mechanical	Plumbing Fixture Retrofit Review	Review water saving opportunities including retrofit or replacement of sinks, urinals and water closets.	A reduction in water use will reduce utility costs.	Operating Cost	1	\$38,570	Quantum Cost Estimate	Not cost effective because of estimated 4-year payback period and short-term life of facility.	Energy Consultant	C
DS-EL-01	Electrical	Ceiling Mounted LCD Projector Addition	Provide ceiling mounted LCD projector and associated AV and power outlets in each classroom with connection to teacher's work station.	Ceiling mounted projectors desired for ease of use, to reduce theft, and to protect equipment and cables from damage.	Enhancement	1	\$549,219	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Luke R. Thomas	C
DS-EL-02	Electrical	Data Communications Equipment Upgrade	Upgrade data communications equipment filter, router, switch, traffic shaping and connectivity speed.	Existing filter, router, switch, traffic shaping and connectivity speed do not meet district's minimum standards.	Deficiency	1	\$126,696	ASD Cost Estimate	Minor need.	N. Vien	C
DS-EL-03	Electrical	Data Outlet Addition at Teacher's Work Station	Provide data outlets for computers and AV equipment at teacher's work station in each classroom.	Classrooms do not have AV outlets at teacher's work station and do not have floor box with data outlets at front of classroom.	Enhancement	1	\$296,208	Quantum Cost Estimate	Not cost effective.	R. Luke M. Newman	C
DS-EL-04	Electrical	Data Outlet Addition at Library	Provide 6 additional data outlets at computer area in library.	Existing library does not have a data outlet for each student computer.	Deficiency	2	\$9,257	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C

# PROPOSED FACILITY IMPROVEMENTS

# DICK SCOBEE ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
DS-EL-05 ECM-L4	Electrical	Daylighting Control Addition	Provide day lighting controls in courtyards.	Day light controls can be added to courtyards where sufficient ambient light is available and will reduce energy costs.	Operating Cost	2	\$2,572	Quantum Cost Estimate	Not cost effective because of estimated 7-year payback period and short-term life of facility.	Energy Consultant	C
DS-EL-06	Electrical	Electrical Switch Disconnect Replacement	Replace electrical disconnect switches.	Existing disconnect switches do not meet current electrical code and replacement parts are not available.	Deficiency	1	\$48,596	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
DS-EL-07	Electrical	Electrical Outlet Additions	Provide additional electrical outlets in classrooms, corridors, library, offices and workroom.	Classrooms, corridors, library, offices and workroom do not have enough electrical outlets and do not meet district's minimum standards.	Deficiency	2	\$154,275	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	G. Brown	C
DS-EL-08	Electrical	Electrical Service Metering	Provide electronic meter for electrical service connected to energy management system.	Electronic meter will allow remote monitoring of electrical service and improve potential for reducing electrical use.	Operating Cost	2	\$24,941	Quantum Cost Estimate	Minor need and not cost effective at an elementary school.	R. Thomas	C
DS-EL-09 ECM-L2	Electrical	Exit Sign Replacement	Replace incandescent and compact fluorescent exit signs with LED exit signs.	Exit sign replacement will reduce energy consumption and energy costs.	Operating Cost	1	\$12,857	Quantum Cost Estimate	Not cost effective because of estimated 5-year payback period and short-term life of facility.	Energy Consultant	C
DS-EL-10	Electrical	Exterior Lighting Level Improvements	Provide additional illumination at front entry, bus area, delivery area, parking lots and pathways.	Existing lighting at front entry, bus and delivery area, and pathways lacks adequate illumination levels and is below district's minimum standards.	Health / Safety & Deficiency	1	\$126,506	Quantum Cost Estimate	Minor deficiency.	B. Kenworthy	C
DS-EL-11	Electrical	Gym Sound System Addition	Provide built-in sound system in gym.	Existing sound system is a portable system and does not meet district's minimum standards.	Deficiency	2	\$48,596	Quantum Cost Estimate	Minor deficiency.	R. Thomas	C
DS-EL-12	Electrical	Interior Lighting Level Improvements	Provide additional illumination at classrooms, corridors, emergency lighting, gym, kitchen, library, and support spaces.	Existing lighting at interior areas lacks adequate illumination levels except at restrooms, is not energy efficient, and is below the district's minimum standards.	Health / Safety & Deficiency	2	\$128,563	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
DS-EL-13 ECM-L1	Electrical	Interior Lighting Upgrade	Retrofit or replace T-12 fixtures, magnetic ballast and incandescent fixtures with T-8, electronic ballast and compact fluorescent technology.	Fixture replacement or retrofit will reduce energy costs.	Operating Cost	1	\$141,420	Quantum Cost Estimate	Not cost effective because of estimated 6-year payback period and short-term life of facility.	Energy Consultant R. Thomas	C
DS-EL-14	Electrical	Internet Connection Upgrade	Increase bandwidth of school's internet connection.	Increased bandwidth desired to provide long-term and efficient access for information technology via the internet.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency. Existing internet connection meets district's minimum standard.	R. Luke	C
DS-EL-15	Electrical	Intrusion Alarm Audible Signal Upgrade	Upgrade intrusion alarm system to provide audible alarm.	Use of audible alarm could reduce intrusions and false alarms.	Enhancement	1	\$46,026	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	M. Newman	C
DS-EL-16 ECM-L3	Electrical	Occupancy Sensor Lighting Control Addition	Install occupancy sensor in areas with fluctuating occupancy to turn off lights when the spaces are unoccupied.	Occupancy sensors will reduce energy consumption and energy costs.	Operating Cost	2	\$12,857	Quantum Cost Estimate	Not cost effective because of estimated 7-year payback period and short-term life of facility.	Energy Consultant	C
DS-EL-17	Electrical	Surveillance Camera Addition	Provide surveillance camera system to monitor parking lots and areas around building.	Surveillance cameras could reduce vandalism and theft around building.	Enhancement	1	\$107,993	Quantum Cost Estimate	Minor need.	M. Newman	C

# PROPOSED FACILITY IMPROVEMENTS

# DICK SCOBEE ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
DS-EL-18	Electrical	Telephone System Upgrade	Upgrade telephone system to provide voice mail.	Existing telephone system does not have voice mail feature and does not meet district's minimum standards.	Deficiency	1	\$250,954	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	G. Brown	C
DS-EL-19	Electrical	Electrical Panel Upgrade	Replace fuse-type electrical panels with circuit breaker panels.	Some existing electrical panels utilize fuses rather than circuit breakers. These are more expensive to maintain and do not meet district's minimum standards.	Deficiency	1	\$59,140	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
DS-EL-20	Electrical	Switchgear Upgrade	Replace electrical switchgear with high capacity equipment.	Existing electrical switch gear does not have capacity for calculated load.	Deficiency	1	\$206,536	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
DS-MD-01	Modernization	Building Appearance Upgrade	Improve building appearance.	Building does not have a prominent front entry, has mis-matched and worn materials from different building additions, has exposed piping throughout building, and has a dated and unattractive appearance on the interior and exterior.	Deficiency	1	\$1,152,790	BLRB Cost Estimate	Not cost effective.	G. Brown	C
DS-MD-02	Modernization	Building Enclosure Modernization	Provide access to all parts of building within enclosed space.	School consists of four classroom wings connected by covered and unheated courtyard and a separate gym connected by a covered walkway. This requires students and staff to go outdoors to travel between buildings, and does not meet district's minimum standards.	Deficiency	2	\$2,868,718	BLRB Cost Estimate	Not cost effective.	G. Brown B. Kenworthy	C
DS-MD-03	Modernization	Classroom Addition	Provide three additional classrooms.	School has 20 classrooms which is three less than district's minimum standard.	Deficiency	1	\$548,209	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	G. Brown	C
DS-MD-06	Modernization	Emergency Storage Room Addition	Modernize room 116 for storage of emergency supplies.	Building does not have space for storage of emergency supplies. Existing supplies kept in exterior storage container.	Deficiency	3	\$17,068	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy R. Thomas	C
DS-MD-09	Modernization	Kiln Room Addition	Provide kiln and room for kiln.	Building does not have a kiln room. Kiln is located in boiler room and does not have exhaust system or fire suppression system.	Deficiency	3	\$32,747	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	G. Brown	C
DS-MD-11	Modernization	Library Natural Daylight Improvements	Provide daylight at Library.	Library does not have exterior windows or skylight for natural light.	Deficiency	3	\$50,342	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
DS-MD-17	Modernization	Playshed Improvements	Provide basketball backboards and replace areas of deterioration at siding and wall / roof connection at playshed.	Additional basketball hoops needed and areas of existing siding and wall connections are deteriorated.	Deficiency	4	\$48,875	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
DS-MD-23	Modernization	Staff Restroom Modernization	Provide larger and additional staff restrooms that are ADA compliant.	Building has only one men's and one women's staff restrooms. These restrooms are undersized, have only a single toilet fixture, have deficient floors, and are not ADA compliant or located in each classroom wing.	Health / Safety & Deficiency	1	\$244,620	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	G. Brown ADA Consultant	C
DS-MD-26	Modernization	Stage Addition	Provide permanent stage connected to gymnasium.	Permanent stage not present at school. Existing retractable stage uses up seating area for assemblies and programs, lacks adequate stage lighting, is worn and difficult to operate, is not accessible by wheelchairs as required by ADA, and does not provide an additional permanent area for instrumental music classes.	Deficiency	1	\$523,561	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	G. Brown ADA Consultant	C

# PROPOSED FACILITY IMPROVEMENTS

# DICK SCOBEE ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
DS-MD-28	Modernization	Telecommunication Rooms Modernization	Provide dedicated MC and HC rooms each with independent mechanical ventilation and cooling systems.	Existing HC and MC rooms are undersized, lack independent HVAC systems, and are also used as a custodial and AV storage rooms.	Deficiency	2	\$41,727	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	N. Vein G. Brown B. Kenworthy	C
DS-MD-29	Modernization	Health Area / Main Office / Pre-School / Restroom / Staff Area Modernizations & Additions	Provide a pre-school classroom, public restrooms and small conference room. Modernize and expand health area, main office area, principal's office, staff telephone room and staff lounge.	See Improvement Justifications for CH-MD-07, 13, 18, 19, 20, 21, 24, and 25.	Health & Safety & Deficiency	1	\$1,467,017	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	G. Brown R. Thomas M. Newman B. Kenworthy ADA Consultant	C
DS-MD-30	Modernization	Custodial / Kitchen / Maintenance Office / Special Education / Storage Additions and Modernizations	Provide an east custodial room, maintenance office, special education classroom, and storage space. Modernize and expand kitchen and serving area.	See Improvement Justifications for CH-MD-05, 10, 14, 22 and 27.	Deficiency	1	\$2,456,799	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	G. Brown R. Thomas M. Newman B. Kenworthy E. Boutin	C
DS-MD-31	Modernization	Custodial room / Itinerant Office / OT-PT Room Additions	Provide a west custodial room, itinerant office and OT / PT room.	See Improvement Justifications for CH-MD-05, 08 and 15.	Deficiency	1	\$244,659	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	G. Brown R. Thomas B. Kenworthy	C
DS-MD-32	Modernization	PE Office / Storage Additions	Provide a PE office and additional storage space.	See Improvement Justifications for CH-MD-16 and 27.	Deficiency	1	\$176,044	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	G. Brown B. Kenworthy	C
DS-SI-17	Site	Play Equipment Area Drainage Improvements	Provide sub-drain system at play equipment areas.	Existing wood chip play equipment area drain poorly and are saturated with water much of the school year.	Enhancement	2	NA	ASD Cost Estimate	Costs included in DS-SI-05.	R. Thomas	NA
DS-SI-22	Site	Student Drop Off / Visitor Parking Addition	Utilize existing southwest staff parking lot for visitor parking and student drop off and pick up area. Relocate staff parking to a new area.	School does not have parking for visitors or an area for student pick up and drop off.	Deficiency	1	NA	BLRB Cost Estimate	Cost included in DS-SI-20.	G. Brown R. Thomas	NA
DS-ST-04	Structural	Steel Moment Frame Analysis	Perform a detailed lateral analysis to determine adequacy of steel moment frame connections at library and courtyard.	Performance of analysis and implementation of recommendations from the analysis will improve the seismic support of the structure.	Deficiency	2	NA	PCS Cost Estimate	Analysis shows shear walls needed. Costs included in DS-ST-06.	Structural Engineer	NA
DS-ST-11	Structural	Masonry Wall Tie Verification	Veneer masonry wall tie spacing and condition.	Existing conditions have been verified.	Deficiency	NA	NA	No Cost Estimate	Additional analysis verified existing wall ties are adequate.	Structural Engineer	NA
DS-EX-01	Exterior	Automatic Door Opener Addition	Provide automatic door opener at front entry doors.	Building does not have automatic door opener at main entry doors.	Enhancement	NA	NA	No Cost Estimate	Completed by Maintenance Department.	J. Trauffer	NA
DS-EX-02	Exterior	Courtyard Enclosure	Enclose gable ends of covered courtyards.	Existing courtyards are open at the gable ends of the pitched roof which allow rain and cold air to enter an area used for student and staff circulation. Fully enclosing courtyards may be limited by building codes.	Enhancement	NA	NA	No Cost Estimate	Not cost effective because the addition of enclosures would require adding fire sprinklers and heating / ventilation system.	R. Thomas	NA
DS-EX-04	Exterior	Exterior Painting	Paint areas of exterior wood.	Existing paint is in fair condition.	Enhancement	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Thomas	NA
DS-EX-05	Exterior	Exterior Wall Insulation Addition	Provide insulation at exterior masonry walls.	Existing exterior masonry walls are not insulated.	Deficiency	NA	NA	No Cost Estimate	Not cost effective.	B. Kenworthy	NA



# PROPOSED FACILITY IMPROVEMENTS

# DICK SCOBEE ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
DS-EX-08	Exterior	Exterior Window and Window Covering Upgrade	Replace single-pane exterior windows with dual glazing and integral blinds.	Dual glazed windows will improve energy efficiency and integral blinds will reduce damage to and maintenance of window blinds.	Operating Cost & Deficiency	NA	NA	No Cost Estimate	Not feasible to replace windows unless window wall replaced which is addressed in DS-EX-06.	R. Thomas	NA
DS-IN-08	Interior	Interior Painting	Paint building interior.	Existing paint is in fair to poor condition.	Deficiency	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Thomas	NA
DS-EQ-03	Equipment	Copy Machine Addition	Provide a 25 copy per minute copy machine for dedicated use in main office.	Main office does not have a copy machine for dedicated use. Office staff uses copy machines in staff workroom.	Deficiency	NA	NA	No Cost Estimate	Obtained as leased equipment.	G. Brown	NA
DS-EQ-10	Equipment	Vending Machine Addition	Provide vending machine in staff lounge.	Lounge does not have a vending machine for staff use.	Enhancement	NA	NA	No Cost Estimate	No-cost item that could be accomplished by building administrator if vending machine is desired.	B. Kenworthy	NA
DS-MD-04	Modernization	Courtyard Modernization	Convert covered courtyard area to classrooms.	Existing courtyard was designed to serve as a playshed and covered circulation area. It does not work well as a playshed because noise interferes with instruction in adjacent classrooms and does not work well as circulation space because it is unheated and open to weather at gable ends of roof.	Enhancement	NA	NA	No Cost Estimate	Not feasible because classrooms would not have exterior windows as required by code.	M. Newman	NA
DS-MD-05	Modernization	Custodial Room Modernization	Provide additional and larger custodial rooms.	Building has one undersized custodial room. Additional rooms needed at each classroom wing.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in DS-MD-30 and DS-MD-31.	T. Carstens B. Kenworthy	NA
DS-MD-07	Modernization	Health Area Modernization	Modernize health room area with a designated nurse's office, exhaust fan, and restroom that is ADA compliant.	Existing health room lacks an adequate exhaust fan and separate nurses office. Health restroom has a deficient floor, is undersized, lacks grab bars, will not accommodate a wheel chair as required by ADA.	Health / Safety & Deficiency	1	NA	BLRB Cost Estimate	Costs included in DS-MD-29.	B. Kenworthy ADA Consultant	NA
DS-MD-08	Modernization	Itinerant Office Addition	Provide office for itinerant staff.	Building does not have office for itinerant staff. Itinerant staff currently uses large conference room.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in DS-MD-31.	B. Kenworthy G. Brown	NA
DS-MD-10	Modernization	Kitchen and Serving Area Modernization	Expand and modernize kitchen and serving area to meet district's standards.	Existing kitchen is undersized by 50 SF and 6% smaller than district's minimum standard, has a deficient floor surface, low ceiling, and an inefficient layout that requires an extra staff member to operate. Storage space and walk-in freezer are undersized. Serving counter is open to a corridor and cannot be closed off with creates security, supervision and appearance problems. Kitchen manager work area with desk, data and POS outlets and telephone not provided. Two-burner cook top and combi-oven not provided. Dishwasher and convection oven beyond recommended life expectancy.	Health / Safety & Deficiency	1	NA	BLRB Cost Estimate	Costs included in DS-MD-30.	E. Boutin G. Brown R. Thomas M. Newman	NA
DS-MD-12	Modernization	Locker Additions	Provide lockers for students.	School does not have student lockers. Lack of corridors in building makes it impossible to provide lockers in corridors.	Deficiency	NA	NA	No Cost Estimate	Not feasible because building does not have corridors where lockers could be installed.	G. Brown R. Thomas	NA

# PROPOSED FACILITY IMPROVEMENTS

# DICK SCOBEE ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
DS-MD-13	Modernization	Main Office Area Modernization	Modernize main office area to provide larger office area and dedicated reception area, separate mail area, visual link to front entry, and work area within main office area.	Existing office is undersized by 60 SF and 15% below the district's minimum standard, does not have a dedicated work room and reception area (instead the adjacent corridor is used for reception), does not have a visual link to the exterior front entry doors, and staff mail boxes are too small for tote trays and are within office area which creates congestion.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in DS-MD-29.	G. Brown B. Kenworthy	NA
DS-MD-14	Modernization	Maintenance Office Addition	Provide maintenance office.	Existing custodial desk area and EMS workstation is located in boiler room..	Deficiency	2	NA	BLRB Cost Estimate	Costs included in DS-MD-30.	B. Kenworthy	NA
DS-MD-15	Modernization	OT / PT Room Addition	Provide OT / PT room.	Building does not have a designated room for OT/PT.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in DS-MD-31.	G. Brown	NA
DS-MD-16	Modernization	PE Office Addition	Provide office for PE instructor.	Existing workstation for PE instructor is located in PE storage room and does not meet district's minimum standards.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in DS-MD-32.	B. Kenworthy	NA
DS-MD-18	Modernization	Pre-School Classroom Addition	Provide pre-school classrooms with restroom and changing table.	Building does not have classrooms with restroom and changing table for preschool classes.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in DS-MD-29.	B. Kenworthy	NA
DS-MD-19	Modernization	Principal's Office Expansion	Provide larger principal's office.	Existing office is undersized by 70 SF and is 35% smaller than district's minimum standards.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in DS-MD-29.	G. Brown	NA
DS-MD-20	Modernization	Public Restroom Addition	Provide public restrooms near main office area.	The building has a single fixture, uni-sex restroom near the library for public use. This restroom is not ADA compliant and not adequate for use by visitors and public.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in DS-MD-29.	G. Brown	NA
DS-MD-21	Modernization	Small Conference Room Addition	Provide small conference room.	Building does not have a small conference rooms to use for meetings with staff, parents and public.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in DS-MD-29.	G. Brown B. Kenworthy	NA
DS-MD-22	Modernization	Special Education Classroom Addition	Provide special education classroom with restroom and testing room.	Building does not have a special education classroom with a testing room and an ADA compliant restroom with changing table.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in DS-MD-30.	G. Brown	NA
DS-MD-24	Modernization	Staff Telephone Room Expansion	Provide larger telephone room in staff lounge and provide a ventilation system.	Existing telephone room is undersized, will not accommodate a wheel chair and does not have a ventilation system.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in DS-MD-29.	B. Kenworthy	NA
DS-MD-25	Modernization	Staff Workroom Modernization	Modernize and expand staff workroom to provide additional storage space, cabinets and electrical outlets.	Existing staff workroom is undersized by 100 SF and is 25% small than district's minimum standard. Existing room lacks adequate storage space and cabinets and does not have space for two copy machines.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in DS-MD-29.	G. Brown	NA
DS-MD-27	Modernization	Storage Space Addition	Provide additional space for storage of community items, furniture, general materials and maintenance supplies.	Building does not have dedicated rooms for storage of community items, furniture and general items. Storage of maintenance supplies is in the boiler room and undersized.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in DS-MD-30 and DS-MD-32.	G. Brown	NA

# PROPOSED FACILITY IMPROVEMENTS

# EVERGREEN HEIGHTS ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
EH-SI-08	Site	Exterior Stair Modifications	Modify exterior stairs and add drain at base of stairways.	Water drains into stairways during heavy rainfall and collects at on walkway at base of stair.	Deficiency	2	\$30,547	BLRB Cost Estimate		R. Thomas A. Gayman	A
EH-SI-11 ECM-W2	Site	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station and add a rain gauge.	Connection to the EMS and the addition of a rain gauge will reduce water consumption and utility costs.	Operating Cost	1	\$6,428	Quantum Cost Estimate	Short-term payback period.	Energy Consultant R. Thomas	A
EH-SI-12	Site	On-Site Sidewalk Improvements	Improve sidewalks around building.	Some of the existing sidewalks around the building are narrow and many are uneven and create a humble hazard.	Deficiency	1	\$15,762	BLRB Cost Estimate		A. Gayman B. Kenworthy	A
EH-SI-13	Site	Parking and Access Improvements	Modify and expand staff and visitor parking, bus loading, student drop off, and delivery area.	Existing staff parking area is undersized by 17 stalls and is 28% smaller than the district's minimum standard. Designated parking stalls are not provided for visitors. ADA compliant parking signs not fully provided. Some vehicles park on gravel between the road and parking lot. The bus loading area will accommodate 6 buses and does not meet the district's minimum standard of 10 buses. A student drop off and pick up area is not provided. The delivery area will accommodate one vehicle and the district's minimum standards require two stalls. Existing driveways to do provide separate entrances and exits for visitors and buses which results in congestion on a daily basis.	Deficiency	1	\$1,098,373	BLRB Cost Estimate		M. Newman A. Gayman R. Thomas ADA Consultant	A
EH-SI-14	Site	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars and directional arrows. Provide striping at parking lot fire lanes, exterior basketball court, pickle ball courts, tetherball posts, and box hockey games.	Thermo-plastics markings are needed in critical locations where existing markings are painted and frequently wear away. Parking lot striping needed at fire lanes. Game line striping not provided where needed for additional outdoor basketball court, pickle ball courts, tetherballs, and box hockey games.	Deficiency & Enhancement	1	\$2,285	BLRB Cost Estimate		R. Thomas A. Gayman	A
EH-SI-16	Site	Playground Equipment Additions	Provide 2 basketball backboards at hard surface playground area, 2 additional backboards at playshed, 2 additional tetherball posts, posts and nets for two pickle ball courts, and 2 more box hockey games.	Existing playground area lacks basketball backboards, tetherball posts, pickle ball posts and nets, and box hockey as identified in district's minimum standards. Placement of this equipment not possible within the limited amount of hard surface play area present at the school.	Deficiency	3	\$33,968	BLRB Cost Estimate		A. Gayman	A
EH-SI-17	Site	Playground Fence Addition	Provide 6' chainlink fence at perimeter of playground and grass playfield areas.	Fence needed at perimeter of playground and grass playfield to help protect against intruders, confine students to play area, and keep students out of wooded area that cannot be supervised.	Deficiency	1	\$173,613	BLRB Cost Estimate		R. Thomas B. Kenworthy	A
EH-SI-19	Site	Sanitary Sewer Connection	Connect waste system to municipal sewer system.	Waste system connected to sewage pump and drain field. Sewage pump sometimes fails which shuts down toilets and sinks. Drain field is past its life expectancy.	Deficiency	2	\$34,609	BLRB Cost Estimate		R. Thomas	A
EH-SI-20	Site	Security Fence Addition	Provide ornamental fence and gates to secure campus during non-school hours.	Existing building campus area is unfenced and has many concealed areas that are frequently used by unauthorized individuals after school hours. This results in a high rate of vandalism. A fence around this area will also deter vehicles from driving on the front lawn.	Deficiency	2	\$92,252	BLRB Cost Estimate		R. Thomas B. Kenworthy	A

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
EH-SI-22	Site	Street Frontage Sidewalk Addition	Provide sidewalk at South 316th Street in front of parking lot area.	There is not a sidewalk for pedestrian use on street in front of school adjacent to parking so pedestrians walk on gravel road shoulder.	Deficiency	2	\$25,539	BLRB Cost Estimate		A. Gayman	A
EH-SI-23	Site	Underground Storage Tank Removal	Remove 1,000 gallon underground fuel oil storage tank that serves heating system.	Existing underground tank is not used, is not corrosion resistant, and presents environmental risk.	Deficiency	2	\$33,968	BLRB Cost Estimate		R. Thomas	A
EH-SI-24	Site	Hard Surface Play Area Additions - 11,000 SF	Provide 11,000 SF of additional asphalt play area.	Existing hard surface play area is undersized by 44,500 SF and 93% smaller than the district's minimum standard.	Deficiency	2	\$333,462	ASD Cost Estimate		A. Gayman	A
EH-ST-01	Structural	Classroom Shear Wall Additions	Provide interior shear walls in classroom wings in short direction, between classrooms.	Shear walls will improve the overall structural performance of the structure.	Deficiency	2	\$134,717	PCS Cost Estimate		Structural Engineer	A
EH-ST-02	Structural	Corridor Shear Transfer Additions	Provide shear transfer at steel channel in corridors.	Providing a load path for shear transfer will improve seismic support.	Deficiency	2	\$7,820	PCS Cost Estimate		Structural Engineer	A
EH-ST-04	Structural	Plywood Diaphragm Improvements	Provide roof diaphragm blocking at gym.	Roof diaphragm blocking at gym will improve seismic support.	Deficiency	2	\$893	PCS Cost Estimate		Structural Engineer	A
EH-ST-05	Structural	Veneer Wall Tie Additions	Provide concrete veneer wall tie anchors.	Additional veneer wall tie anchors will improve seismic support of exterior wall surfaces.	Deficiency	2	\$12,903	PCS Cost Estimate		Structural Engineer	A
EH-ST-06	Structural	Wall Bracing Additions	Provide at top of partition walls between classrooms.	Bracing at top of partition walls is needed to provide seismic support for walls.	Deficiency	2	\$26,393	PCS Cost Estimate		Structural Engineer	A
EH-ST-07	Structural	Mechanical Equipment Anchoring	Anchor equipment in mechanical room.	Anchoring mechanical equipment in accordance with current code requirements will reduce potential for equipment and structural damage.	Deficiency	2	\$2,445	PCS Cost Estimate		Structural Engineer	A
EH-EX-01	Exterior	Automatic Door Opener Addition	Provide automatic door opener at front entry doors.	Building does not have automatic door opener at main entry doors.	Enhancement	2	\$10,385	BLRB Cost Estimate		J. Trauffer	A
EH-EX-03	Exterior	Clerestory Window Upgrade	Replace translucent panels at clerestory windows with insulated glass.	Existing translucent panels restrict daylight into building and are not energy efficient.	Operating Cost & Enhancement	1	\$14,022	BLRB Cost Estimate		R. Thomas	A
EH-EX-04	Exterior	Exterior Door Hardware Upgrade	Replace exterior door lock cylinders with Primus cylinders.	Primus lock cylinders will improve building security.	Enhancement	2	\$5,279	BLRB Cost Estimate		R. Thomas	A
EH-EX-07	Exterior	Exterior Siding Upgrade	Replace wood siding with cement board siding.	Existing wood siding is in fair condition, requires frequent painting, and does not meet the district's minimum standard.	Enhancement	3	\$175,950	BLRB Cost Estimate		B. Kenworthy	A
EH-EX-11	Exterior	Roof Fall Arrest Anchors Addition	Provide fall arrest system at pitched roofs.	Pitched roofs do not have fall arrest safety system.	Health / Safety	2	\$97,140	BLRB Cost Estimate		R. Thomas	A
EH-EX-13	Exterior	Roof Upgrade - Shingle Replacement	Replace asphalt shingles at pitched roof with new fiberglass shingles.	Existing asphalt shingles are in poor condition and past life expectancy.	Deficiency	2	\$1,040,305	BLRB Cost Estimate		R. Thomas	A
EH-IN-05	Interior	Classroom Coat Rack Additions	Provide additional coat racks in classrooms.	Existing coat racks not large enough to accommodate all of the students coats.	Deficiency	1	\$7,441	BLRB Cost Estimate		A. Gayman	A
EH-IN-08	Interior	Interior Door Hardware Upgrade	Replace interior door handles with ADA compliant lever handles.	Existing door handles not ADA compliant.	Enhancement	2	\$69,892	BLRB Cost Estimate		ADA Consultant	A
EH-IN-10	Interior	Marker Board Additions	Provide additional 8' marker board in classrooms.	Existing classrooms do not have 16' of marker boards as identified in district's minimum standard.	Deficiency	1	\$9,775	BLRB Cost Estimate		B. Kenworthy	A

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EH-IN-12	Interior	Operable Wall Replacement	Replace operable walls between kindergarten classrooms and between 309 / 310 with permanent wall.	Existing operable walls do not provide usable wall surfaces and adequate acoustical separation between classrooms.	Deficiency	2	\$157,378	BLRB Cost Estimate		R. Thomas	A
EH-IN-13	Interior	Tackable Wall Area Addition	Provide additional tackboards or add vinyl wall covering in corridor and foyer areas.	Building lacks tackable wall areas for display and is less than the district's minimum standard in corridors and foyers. Lack of corridors and lack of open wall space in foyers makes it difficult to add tackable surfaces in these areas.	Deficiency	2	\$9,238	BLRB Cost Estimate		R. Thomas	A
EH-EQ-01	Equipment	Computer Furniture Upgrade	Provide furniture designed for computer and other technology equipment use.	Existing furniture used for computer and technology equipment is lacking and in many cases not designed for this use.	Deficiency	1	\$36,894	ASD Cost Estimate		R. Luke	A
EH-EQ-06	Equipment	Stage Curtain Replacement	Replace curtain at stage.	Existing curtain is worn, is an unattractive color, does not have a valence, and is not fire retardant.	Deficiency	3	\$21,355	BLRB Cost Estimate		A. Gayman	A
EH-EQ-08	Equipment	Window Covering Upgrade	Replace fabric curtains and louver blinds at exterior windows with coated fabric or roller shades. Provide mini-blinds at interior relite windows.	Existing fabric curtains at exterior windows are not durable and do not adequately block day light. Existing louver blinds are in poor condition. Window coverings not provided a some interior relite windows.	Deficiency	1	\$41,659	BLRB Cost Estimate		A. Gayman R. Thomas B. Kenworthy	A
EH-ME-01 ECM-M2	Mechanical	Automatic Controls Upgrade	Upgrade control system front end and software to the district standard - BacNet compatible, web based.	BACnet controls will reduce EMS maintenance and service costs.	Operating Cost	2	\$38,570	Quantum Cost Estimate	Estimated 10-year payback period.	R. Thomas Energy Consultant	A
EH-ME-02 ECM-M6	Mechanical	Boiler Replacement	Replace boiler with two high efficiency condensing boilers and add a hot water circulation pump.	Boiler replacement and pump addition will reduce energy costs.	Operating Cost	3	\$308,550	Quantum Cost Estimate	Estimated 12-year payback period.	R. Thomas Energy Consultant	A
EH-ME-04	Mechanical	Ductwork Replacement	Replace ductwork throughout school.	Existing ductwork is in poor condition.	Deficiency	1	\$542,482	Quantum Cost Estimate		R. Thomas.	A
EH-ME-05 ECM-M7R	Mechanical	EMS Expansion - Water Heater	Expand energy management system to the main domestic water heater.	Expansion of the EMS system will improve water heater operations and reduce energy costs.	Operating Cost	2	\$32,655	Quantum Cost Estimate		Energy Consultant	A
EH-ME-07 ECM-M8	Mechanical	Kitchen Hood Control Addition	Connect the Alerton EMS control system to the kitchen hood.	Connection of the EMS to the kitchen hood will eliminate operation of the hood when kitchen is not occupied and will reduce energy costs.	Operating Cost	2	\$6,428	Quantum Cost Estimate	Estimated 6-year payback period.	Energy Consultant	A
EH-ME-08	Mechanical	Mechanical Cooling Addition	Provide mechanical cooling at main office area and library.	Library overheats at times during school year and main office area overheats during summer use.	Enhancement	1	\$42,940	Quantum Cost Estimate		R. Thomas	A
EH-ME-11 ECM-M4	Mechanical	Occupancy Sensor Temperature Control Addition	Install occupancy sensors in areas of fluctuating occupancy to set back the spaces when they are unoccupied.	Occupancy sensors will reduce energy consumption and energy costs.	Operating Cost	2	\$15,428	Quantum Cost Estimate	Estimated 6-year payback period.	Energy Consultant	A
EH-ME-12 ECM-M3	Mechanical	Pipe Insulation Addition	Insulate the supply and return heating water piping.	Adding insulation will reduce energy costs.	Operating Cost	1	\$6,428	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant	A
EH-ME-15 ECM-M1	Mechanical	TAB and Commissioning	Perform air and water testing, adjusting and balancing (TAB) on the mechanical systems. Commission the existing HVAC control system to verify proper operation.	Retroactive TAB and commissioning will improve system operation and reduce energy costs.	Operating Cost	2	\$64,282	Quantum Cost Estimate	Estimated 8-year payback period.	Energy Consultant R. Thomas	A

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EH-ME-19	Mechanical	Air Handling Fan Unit Upgrade - Re-Build Existing Unit	Rebuild existing central air handling unit, replacing fan motor and adding VFD.	Existing central air handling fan unit is not energy efficient and lacks redundancy needed for reliable air handling system.	Operating Cost	2	\$74,375	Quantum Cost Estimate		R. Thomas	A
EH-EL-05	Electrical	Data Outlet Addition at Library	Provide 14 additional data outlets at library computer lab.	Existing library does not have a data outlet for each student computer.	Deficiency	2	\$21,599	Quantum Cost Estimate		B. Kenworthy	A
EH-EL-07 ECM-L2	Electrical	Exit Sign Replacement	Replace incandescent and compact fluorescent exit signs with LED exit signs.	Exit sign replacement will reduce energy consumption and energy costs.	Operating Cost	1	\$12,857	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant	A
EH-EL-08	Electrical	Exterior Lighting Level Improvements	Provide additional illumination at front entry, bus area, delivery area, and pathways.	Existing lighting at exterior areas lacks adequate illumination levels and is below minimum standards.	Health / Safety & Deficiency	2	\$26,741	Quantum Cost Estimate		A. Gayman B. Kenworthy	A
EH-EL-10 ECM-L1	Electrical	Interior Lighting Upgrade	Retrofit or replace T-12 fixtures, magnetic ballast and incandescent fixtures with T-8, electronic ballast and compact fluorescent technology.	Fixture replacement or retrofit will reduce energy costs.	Operating Cost	2	\$141,420	Quantum Cost Estimate	Estimated 6-year payback period.	Energy Consultant B. Kenworthy R. Thomas	A
EH-EL-13 ECM-L3	Electrical	Occupancy Sensor Lighting Control Addition	Install occupancy sensor in areas with fluctuating occupancy to turn off lights when the spaces are unoccupied.	Occupancy sensors will reduce energy consumption and energy costs.	Operating Cost	1	\$12,857	Quantum Cost Estimate	Estimated 5-year payback period.	Energy Consultant	A
EH-MD-26	Modernization	Special Education Classroom Modernization	Provide special education classroom with restroom and testing room.	Building does not have a classroom with restroom and testing room for special education classes.	Deficiency	2	\$60,058	BLRB Cost Estimate		A. Gayman	A
EH-MD-31	Modernization	Student Restroom Modernization	Modernize student restrooms, which are located in classroom foyers, to be ADA compliant with new surface finishes toilet partitions, grab bars and plumbing fixtures.	Existing student restrooms are not large enough to be ADA compliant, have floor and wall surfaces that do not meet district's standards, lack grab bars, and have plumbing fixtures that have inefficient water usage.	Deficiency	1	\$293,678	BLRB Cost Estimate		A. Gayman R. Thomas ADA Consultant	A
EH-MD-36	Modernization	ADA Restroom Additions	Modernize conference rooms 208, 308 and 408 to provide 50 SF unisex, ADA compliant restroom in each room. Modernize health room 101 to provide a 50 SF ADA compliant restroom.	Building lacks adequate number of staff restrooms and existing health, staff and student restrooms not ADA compliant.	Deficiency	2	\$155,725	BLRB Cost Estimate		A. Gayman R. Thomas B. Kenworthy ADA Consultant	A
EH-MD-37	Modernization	Kitchen Improvements	Provide hot food wells, combi-oven and associated electrical and gas service. Enlarge hood to accommodate combi-oven. Provide quarry tile floor, and serving window with roll-up door. Provide electrical, POS, telephone and data outlets at work desk area. Replace dishwasher. Provide epoxy paint at walls and ceilings.	Additional equipment and power / data / telephone outlets needed to accommodate food service program and meet minimum standards. Replacement equipment needed for for equipment past life expectancy.	Deficiency	2	\$672,032	BLRB Cost Estimate		E. Boutin	A
EH-SI-07	Site	Exterior Ramp Addition	Provide exterior ramp for access to classrooms at lower level of school.	ADA compliant ramp not provided at building exterior for access to lower level classrooms. Elevator provided but is shut off after school hours. Exterior ramp at west side of building provide access to lower playground but not classrooms.	Enhancement	1	\$5,710	BLRB Cost Estimate		A. Gayman	A

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
EH-IN-04	Interior	Classroom Cabinet Additions	Increase the amount of cabinets in classrooms and provide locks keyed to the building master key system.	Existing classroom cabinets do not have locks keyed to the building master key system and are less than district's minimum standards. Placement of additional cabinets in classrooms adversely affected by classroom coat storage area.	Deficiency	1	\$199,900	BLRB Cost Estimate		A. Gayman R. Thomas B. Kenworthy	B
EH-EQ-03	Equipment	Furniture Upgrade	Replace student chairs and tables in classrooms and staff desks and chairs in offices and classrooms.	Existing staff furniture and student chairs and tables are old and worn.	Deficiency	1	\$158,576	ASD Cost Estimate		A. Gayman	B
EH-EL-12	Electrical	Intrusion Alarm Audible Signal Upgrade	Upgrade intrusion alarm system to provide audible alarm.	Use of audible alarm could reduce intrusions and false alarms.	Enhancement	2	\$46,026	Quantum Cost Estimate		M. Newman	B
EH-MD-10	Modernization	Gym Restroom Improvements	Modify gym restrooms 502 and 505 to be ADA compliant.	Gym restrooms do not have access clearances and toilet fixtures as required by ADA,	Deficiency	2	\$127,588	BLRB Cost Estimate		ADA Consultant	B
EH-EL-02	Electrical	Data Communications Equipment Upgrade	Upgrade data communications equipment filter, router, switch, traffic shaping and connectivity speed.	Existing filter, router, switch, traffic shaping and connectivity speed do not meet district's minimum standards.	Deficiency	2	\$121,045	ASD Cost Estimate		N. Vien	B-
EH-MD-28	Modernization	Stage Access Improvement	Provide wheelchair access to stage from within building.	Existing stage not accessible by wheelchair from within building. Ramp to stage located at building exterior.	Deficiency	3	\$61,095	BLRB Cost Estimate		ADA Consultant	B
EH-SI-06	Site	Exterior Bench Additions	Provide exterior benches at front of building and hard surface playground area.	Exterior benches not provided where needed at front of building and a playground area.	Deficiency	2	\$29,325	BLRB Cost Estimate		A. Gayman	B+
EH-SI-09	Site	Exterior Waste Receptacle Upgrade	Provide waste receptacles at front entry, playground and parking lot area.	Waste receptacles not provided where needed at front entry, parking lot and playground area.	Deficiency	2	\$7,222	BLRB Cost Estimate		A. Gayman B. Kenworthy	B+
EH-SI-01	Site	ADA Site Improvements	Provide miscellaneous site improvements to comply non-mandatory ADA standards.	School was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous site areas, which do not significantly affect access to the building, could be improved to comply with current ADA standards. Site improvements needed to provide ADA required program access are identified separately.	Enhancement	1	\$45,429	BLRB Cost Estimate	Minor need and non-mandatory improvements.	ADA Consultant	C
EH-SI-02	Site	Climbing Equipment Curb Addition	Provide concrete curb around perimeter of climbing equipment areas.	Existing wood curb is in fair condition.	Enhancement	3	\$68,760	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
EH-SI-03	Site	Climbing Equipment Area Drainage Improvements	Provide sub-drain system at climbing equipment areas.	Existing wood chip climbing equipment areas drain poorly and are saturated with water much of the school year.	Enhancement	2	\$77,200	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
EH-SI-04	Site	Climbing Equipment Ground Surface Upgrade	Provide engineered wood fiber for ground surface at climbing equipment areas.	Existing wood chips used for ground surface are sharp and can cause slivers.	Deficiency	2	\$55,408	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
EH-SI-05	Site	Climbing Equipment Upgrade	Replace wood climbing structures with two small tower structures.	Existing wood climbing equipment is deteriorated in areas and does not meet school district's minimum standards.	Deficiency	2	\$70,870	BLRB Cost Estimate	Not cost effective.	B. Kenworthy	C
EH-SI-10	Site	Hard Surface Play Area Additions - 44,500 SF	Provide 44,500 SF of additional asphalt play area.	Existing hard surface play area is undersized by 44,500 SF and 93% smaller than the district's minimum standard.	Deficiency	2	\$1,332,533	BLRB Cost Estimate	Not cost effective. See EH-SI-24 for a reduced scope of work.	A. Gayman	C

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EH-SI-18	Site	Retaining Wall Improvements	Provide damp proofing at corridor retaining walls at lower classroom level.	Cracks in existing retaining walls leak water and causing water to collect in walkway.	Deficiency	1	\$42,060	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
EH-SI-21	Site	Site Sign Addition	Provide site sign that includes school address.	School does not have a site sign to identify school and address.	Deficiency	2	\$61,095	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
EH-EX-08	Exterior	Exterior Soffit Upgrade	Replace gypsum wallboard soffits with MDO plywood or cement board.	Existing gypsum wallboard soffits are not durable and are in poor condition.	Deficiency	2	\$389,290	BLRB Cost Estimate	Not cost effective. Address repairs as needed as a maintenance item.	R. Thomas	C
EH-EX-09	Exterior	Exterior Window Expansion and Upgrade	Provide larger windows at classrooms and replace all single-pane exterior windows with dual glazing, integral blinds and screens.	Existing exterior windows do not provide adequate day light into classrooms and are smaller than district's minimum standard. Installation of dual glazed windows will improve energy efficiency, integral blinds will reduce damage to and maintenance of window blinds, and screens will keep out mosquitoes and bees.	Operating Cost & Enhancement	1	\$665,701	BLRB Cost Estimate	Not cost effective.	R. Thomas A. Gayman	C
EH-EX-10 ECM-G1	Exterior	Exterior Window Replacement	Replace single pane windows with dual-glazed thermal pane windows.	Dual-glazed windows will reduce energy costs.	Operating Cost	3	\$385,688	Quantum Cost Estimate	Long-term payback period.	Energy Consultant	C
EH-EX-12	Exterior	Roof Insulation Upgrade	Increase insulation at pitched roofs.	Existing R-11 batt insulation at pitched roofs does not meet district's minimum standard of R-19.	Deficiency	2	\$80,765	BLRB Cost Estimate	Not feasible because of location of existing roof insulation.	B. Kenworthy	C
EH-EX-14	Exterior	Roof Upgrade - Metal Roof Addition	Replace asphalt shingles at pitched roof with metal roofing.	Existing asphalt shingles are in poor condition and past life expectancy.	Enhancement	2	\$1,705,615	BLRB Cost Estimate	Not cost effective considering life expectancy of facility.	R. Thomas	C
EH-EX-15	Exterior	Skylight Upgrade	Replace skylights over playshed with panel system with 300-pound point load capacity.	Existing skylights do not meet district's minimum standard for point load capacity.	Health / Safety	2	\$64,857	BLRB Cost Estimate	Minor deficiency because existing skylights have wire glass that provides needed fall protection.	R. Thomas	C
EH-EX-16	Exterior	Exterior Walkway Security Enclosure	Provide security enclosure at exterior walkways serving classroom units.	Existing exterior walkways at classroom units are open, unsecured and vulnerable to intrusion and vandalism during non-school hours.	Enhancement	1	\$177,172	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
EH-IN-01	Interior	ADA Building Improvements	Provide miscellaneous building improvements to comply non-mandatory ADA standards.	School was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous building areas, which do not significantly affect access within the building, could be improved to comply with current ADA standards. Improvements needed to provide ADA required program access within the building are identified separately.	Enhancement	1	\$424,871	BLRB Cost Estimate	Minor need and non-mandatory improvements.	ADA Consultant	C
EH-IN-02	Interior	Asbestos Containing Material Removal	Remove approximately 5,000 SF of asbestos floor tile mastic, 20,000 SF of vinyl asbestos tile, 400 SF of asbestos sheet vinyl, 1,120 SF of exterior cement asbestos board, 12 asbestos-containing sections of wire sheathing, 1,320 asbestos pipe insulation joints, and 300 SF of insulated jacket at mechanical equipment.	Asbestos-containing materials are present in a number of locations. All tile mastic is located below floor tile. Nearly all vinyl asbestos tile is covered with carpet. All asbestos is encapsulated within the material and is not friable.	Enhancement	1	\$588,406	BLRB Cost Estimate	Minor deficiency.	R. Thomas	C
EH-IN-06	Interior	Display Case Addition	Provide display case at front entry area.	School does not have display cases for school exhibits at front entry foyer.	Deficiency	3	\$9,775	BLRB Cost Estimate	Minor deficiency.	A. Gayman B. Kenworthy	C



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EH-IN-07	Interior	Gym Floor Upgrade	Resurface rubber floor or provide wood floor in gym.	Existing rubber floor is in fair condition.	Enhancement	2	\$144,548	BLRB Cost Estimate	Minor deficiency.	R. Thomas	C
EH-IN-11	Interior	Office Relite Window Additions	Provide interior relite windows where not present at offices.	Relite windows desired at all offices for visual connection to and supervision from corridor or adjacent space.	Enhancement	1	\$30,603	BLRB Cost Estimate	Minor need.	B. Kenworthy	C
EH-IN-14	Interior	Walk Off Mat Upgrade	Provide larger walk off mats at building entrances.	Larger mats will improve dirt control and reduce maintenance and carpet wear.	Enhancement	2	\$38,123	BLRB Cost Estimate	Not cost effective until carpeting in building is replaced.	R. Thomas	C
EH-EQ-02	Equipment	Fiber Optic Connection Addition	Provide data communications equipment to accommodate installation of a leased fiber optic circuit.	Equipment needed when school upgrades its internet connection with a fiber optic circuit leased from Qwest.	Enhancement	1	\$11,410	ASD Cost Estimate	Minor need.	N. Vein	C
EH-EQ-04	Equipment	Gym Projection Screen Upgrade	Provide motorized projection screen in gymnasium.	Existing projection screen in gymnasium is manually operated.	Deficiency	2	\$10,523	BLRB Cost Estimate	Minor deficiency.	A. Gayman B. Kenworthy	C
EH-EQ-07	Equipment	Toilet Partition Upgrade	Replace toilet partitions.	Existing metal toilet partitions are in fair condition.	Enhancement	2	\$34,931	BLRB Cost Estimate	Minor need.	R. Thomas	C
EH-EQ-09	Equipment	Wireless Computer Station Additions	Provide wireless computer equipment and workstation furniture for use at front of each classroom.	Wireless computer equipment will allow teachers to use ceiling mounted LCD projectors from workstation and front of classroom in lieu of adding power and data outlets in floor at much higher cost.	Enhancement	1	NA	No Cost Estimate	Obtained with Technology Levy funds.	R. Luke M. Newman	C
EH-ME-03 ECM-M5	Mechanical	Ductwork Investigation	Investigate the installation of supply and return ductwork in the walkway soffits to eliminate airflow leakage in the plenums.	Investigation may identify opportunities to improve ventilation and reduce energy costs.	Operating Cost	3	\$77,138	Quantum Cost Estimate	Not cost effective because of estimated 15-year payback period.	Energy Consultant	C
EH-ME-06	Mechanical	Fire Sprinkler System Addition	Provide fire sprinkler system throughout school.	Buildings are not protected with a fire sprinkler system.	Deficiency	1	\$374,374	Quantum Cost Estimate	Not cost effective.	R. Thomas	C
EH-ME-09	Mechanical	MC Room Mechanical Cooling Addition	Provide mechanical cooling and ventilation system at MC room.	MC room does not have an independent ventilation and cooling system to protect computer equipment from heat damage.	Deficiency	1	\$24,941	Quantum Cost Estimate	Minor deficiency.	R. Thomas N. Vein	C
EH-ME-10	Mechanical	Natural Gas System Metering	Provide electronic meter for natural gas system connected to energy management system.	Electronic meter will allow remote monitoring of gas service and improve potential for reducing natural gas use.	Operating Cost	3	\$22,370	Quantum Cost Estimate	Minor need and not cost effective at an elementary school.	R. Thomas	C
EH-ME-13	Mechanical	Plumbing Fixture Replacement	Replace plumbing fixtures throughout school.	Existing plumbing fixtures are 40 years old, in poor condition, lack water saving features, and do not meet district's minimum standards.	Operating Cost & Deficiency	2	\$176,645	Quantum Cost Estimate	Costs included in EH-MD-27 and 31 except for non-restroom fixtures. See EH-ME-18 for non-restroom fixtures.	R. Thomas	C
EH-ME-14 ECM-W1	Mechanical	Plumbing Fixture Retrofit Review	Review water saving opportunities including retrofit or replacement of sinks, urinals and water closets.	A reduction in water use will reduce utility costs.	Operating Cost	1	\$12,857	Quantum Cost Estimate	Potential short-term payback period. Costs included in EH-ME-13.	Energy Consultant	C
EH-ME-16	Mechanical	Air Handling Fan Unit Upgrade - Two Units	Replace central air handling fan unit with two higher efficiency units.	Existing central air handling fan unit is not energy efficient and lacks redundancy needed for reliable air handling system.	Operating Cost	2	\$744,891	Quantum Cost Estimate	Not cost effective.	R. Thomas	C
EH-ME-18	Mechanical	Plumbing Fixture Replacement - Non Restroom Areas	Replace plumbing fixtures in non-restroom areas.	Existing plumbing fixtures are 40 years old, in poor condition, lack water saving features, and do not meet district's minimum standards.	Deficiency	2	\$76,279	ASD Cost Estimate	Minor deficiency and not cost effective.	R. Thomas	C

# PROPOSED FACILITY IMPROVEMENTS

# EVERGREEN HEIGHTS ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
EH-ME-20	Mechanical	Air Handling Fan Unit Upgrade - Multiple New Units	Replace central air handling fan unit with higher efficiency and multiple units. Provide new ductwork.	Existing central air handling fan unit is not energy efficient and lacks redundancy needed for reliable air handling system.	Operating Cost	2	\$1,489,783	Quantum Cost Estimate	Not cost effective.	R. Thomas	C
EH-EL-01	Electrical	Ceiling Mounted LCD Projector Addition	Provide ceiling mounted LCD projector and associated AV and power outlets in each classroom with connection to teacher's work station.	Ceiling mounted projectors desired for ease of use, to reduce theft, and to protect equipment and cables from damage.	Enhancement	3	\$480,566	Quantum Cost Estimate	Not cost effective.	R. Luke R. Thomas	C
EH-EL-03	Electrical	Data Outlet Addition at Teacher's Work Station	Provide data outlets for computers and AV equipment at teacher's work station in each classroom.	Classrooms do not have AV outlets at teacher's work station and do not have floor box with data outlets at front of classroom.	Enhancement	2	\$259,182	Quantum Cost Estimate	Not cost effective. See EH-EQ-09 for an alternate approach using wireless work station.	R. Luke M. Newman	C
EH-EL-06	Electrical	Electrical Service Metering	Provide electronic meter for electrical service connected to energy management system.	Electronic meter will allow remote monitoring of electrical service and improve potential for reducing electrical use.	Operating Cost	3	\$24,941	Quantum Cost Estimate	Minor need and not cost effective at an elementary school.	R. Thomas	C
EH-EL-09	Electrical	Interior Lighting Level Improvements	Provide additional illumination at kindergarten corridors and support spaces. Replace noisy fixtures at lower level corridor.	Existing lighting at some interior areas lacks adequate illumination levels and is below the district's minimum standards.	Health / Safety & Deficiency	1	\$77,138	Quantum Cost Estimate	Improvements included in EH-EL-10.	B. Kenworthy	C
EH-EL-14	Electrical	Surveillance Camera Addition	Provide surveillance camera system to monitor parking lots and areas around building.	Surveillance cameras could reduce vandalism and theft around building.	Enhancement	3	\$107,993	Quantum Cost Estimate	Minor need.	M. Newman A. Gayman	C
EH-EL-15	Electrical	Telephone System Upgrade	Upgrade telephone system to provide voice mail.	Existing telephone system does not have voice mail feature and does not meet district's minimum standards.	Deficiency	1	\$251,469	Quantum Cost Estimate	Minor deficiency.	R. Thomas	C
EH-MD-01	Modernization	Acoustical Improvements	Provide sound attenuation above ceilings at lower level classrooms.	Noise from upper level rooms can be heard and interferes with instruction at lower level classrooms.	Deficiency	2	\$36,332	BLRB Cost Estimate	Minor need and difficult to correct.	A. Gayman	C
EH-MD-02	Modernization	Building Appearance Upgrade	Improve building appearance.	School do not have a prominent front entry and has a dated appearance on the interior and exterior.	Deficiency	2	\$371,450	BLRB Cost Estimate	Not cost effective. See EH-EX-07 for a portion of improvements.	A. Gayman	C
EH-MD-03	Modernization	Building Enclosure Modernization	Provide access to all parts of building within enclosed space.	School consists of building units connected by covered walkways. This requires students and staff to go outdoors to travel between building areas, and does not meet district's minimum standards.	Deficiency	2	\$2,307,376	BLRB Cost Estimate	A portion of improvements included in EH-EX-16.	B. Kenworthy	C
EH-MD-09	Modernization	Emergency Storage Room Addition	Provide space within building for storage of emergency supplies.	Building does not have space for storage of emergency supplies. Existing supplies kept in exterior storage container.	Deficiency	3	\$15,747	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
EH-MD-12	Modernization	Kiln Room Addition	Provide room for kiln.	Existing kiln is located in boiler room and does not have ventilation or fire protection system.	Deficiency	4	\$37,145	BLRB Cost Estimate	Minor deficiency.	A. Gayman B. Kenworthy	C
EH-MD-18	Modernization	Music Room Addition	Provide room for music instruction.	Building does not have a room for music classes that has sound insulation and meets district's minimum standards.	Deficiency	2	\$154,714	BLRB Cost Estimate	Minor need because stage can be used for music instruction.	B. Kenworthy	C
EH-MD-23	Modernization	Primary Classroom Restroom Addition	Provide restrooms in first and second grade classrooms.	Primary classrooms do not have restrooms..	Deficiency	1	\$155,725	BLRB Cost Estimate	Not cost effective because there are restrooms in vestibule adjacent to primary classrooms.	A. Gayman B. Kenworthy	C

# PROPOSED FACILITY IMPROVEMENTS

# EVERGREEN HEIGHTS ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
EH-MD-27	Modernization	Staff Restroom Modernization	Modernize and provide larger and additional staff restrooms.	Building has only one men's and one women's staff restrooms. These restrooms are not ADA compliant, are undersized, have floor and wall surfaces that do not meet district's standards, and are not located in each classroom wing.	Health / Safety & Deficiency	1	\$77,863	BLRB Cost Estimate	See EH-MD-36.	A. Gayman	C
EH-MD-33	Modernization	Custodial Room / Health Area / Main Office / Public Restroom / Storage Modernizations & Additions	Provide southwest custodial room, public restrooms and storage space. Modernize and expand counselor's office, health area, mail room and principal's office.	See Improvement Justifications for EH-MD-06, 07, 11, 16, 24, 25, 30 and 32.	Health / Safety & Deficiency	2	\$1,274,672	BLRB Cost Estimate	Not cost effective. See EH-MD-36 for a portion of improvements.	A. Gayman R. Thomas B. Kenworthy ADA Consultant	C
EH-MD-34	Modernization	Classroom / Custodial Room / OT-PT / Pre-School Additions	Provide 2 additional general classrooms, NE custodial room, OT / PT room and pre-school classroom.	See Improvement Justifications for EH-MD-04, 07, 19 and 21.	Deficiency	1	\$2,034,472	BLRB Cost Estimate	Not cost effective and additional classrooms not needed because of school enrollment levels.	A. Gayman R. Thomas B. Kenworthy	C
EH-MD-35	Modernization	Custodial Room / Kitchen / Stage / Storage Modernizations & Additions	Provide NW custodial room and storage space. Modernize and expand kitchen, serving area and stage.	See Improvement Justifications for EH-MD-07, 13, 30 and 35.	Health / Safety & Deficiency	2	\$2,572,627	BLRB Cost Estimate	Not cost effective. See EH-MD-37 for a portion of improvements.	A. Gayman R. Thomas B. Kenworthy ADA Consultant	C
EH-SI-15	Site	Pipe Rail Gate Improvement	Provide reflective tape on pipe rail vehicle gate at entrance to school.	Existing pipe rail gate does not have reflective tape and can be difficult to see at night.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Kenworthy	NA
EH-ST-03	Structural	Roof / Diaphragm Lateral Analysis	Lateral analysis to determine adequacy of columns to transfer lateral loads from low to high roof diaphragms.	Analysis has determined that columns are adequate to transfer lateral loads.	Deficiency	NA	NA	PCS Cost Estimate	Analysis concluded improvements not needed for columns to transfer lateral loads.	Structural Engineer	NA
EH-EX-02	Exterior	Exterior Wall Insulation Upgrade	Increase building insulation.	Additional insulation is desired to reduce heat loss and high energy costs. Existing walls meet district's minimum standard for R-11 insulation but are less than recommended standard or R-19.	Operating Cost	NA	NA	No Cost Estimate	Not cost effective because it would require removal and replacement of existing exterior wall sheathing and siding.	R. Thomas	NA
EH-EX-05	Exterior	Exterior Louver Upgrade	Replace existing wood louvers at building exterior with prefinished metal louvers.	Existing wood louvers are in poor condition.	Deficiency	NA	NA	No Cost Estimate	Completed by Maintenance Department.	R. Thomas	NA
EH-EX-06	Exterior	Exterior Painting	Paint areas of exterior wood.	Existing paint is in fair to poor condition.	Deficiency	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Thomas	NA
EH-IN-03	Interior	Ceiling Tile Replacement	Replace suspended acoustical ceiling tiles that are stained from water leaks.	Water leaks have stained ceiling tiles in some areas.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	A. Gayman	NA
EH-IN-09	Interior	Interior Painting	Paint building interior.	Existing paint is in fair condition.	Enhancement	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Thomas	NA
EH-EQ-05	Equipment	Office Equipment Upgrade	Provide copy machine for main office area.	Copy machine not provided in main office. Office staff uses copier in staff workroom.	Deficiency	NA	NA	No Cost Estimate	Obtained as leased equipment.	R. Luke	NA
EH-ME-17	Mechanical	Hydronic Piping Repair	Repair leaks in hydronic piping system.	Existing hydronic piping has frequent minor leaks.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	R. Thomas	NA

# PROPOSED FACILITY IMPROVEMENTS

# EVERGREEN HEIGHTS ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
EH-EL-04	Electrical	Data Outlet Addition at Classrooms	Provide one more data outlets in each classroom for student use.	Classrooms have 5 data outlets for student use and 6 are required by district's minimum standards.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency. Outlets can be added by district using splitter and existing data wiring.	B. Kenworthy	NA
EH-EL-11	Electrical	Internet Connection Upgrade	Increase bandwidth of school's internet connection.	Increased bandwidth desired to provide long-term and efficient access for information technology via the internet.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency. Existing internet connection meets district's minimum standard.	R. Luke	NA
EH-MD-04	Modernization	Classroom Addition	Provide three additional classrooms with one of them a music classroom.	School has 20 classrooms which is three less than district's minimum standard. Instructional spaces within the building do not include a music classroom.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in EH-MD-34.	A. Gayman	NA
EH-MD-05	Modernization	Classroom Restroom Additions	Provide restrooms in preschool, first and second grade, and special education classrooms.	Restrooms needed in these classrooms to allow students to use toilet facilities during class without leaving classroom. Existing student restrooms are located in classroom entry foyers.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in EH-MD-23.	A. Gayman B. Kenworthy	NA
EH-MD-06	Modernization	Counselor's Office Expansion	Provide larger counselor's office.	Existing counselor's office is undersized by 100 SF and 50% smaller than district's minimum standard.	Deficiency	4	NA	BLRB Cost Estimate	Costs included in EH-MD-33.	B. Kenworthy	NA
EH-MD-07	Modernization	Custodial Room Modernization	Provide larger custodial rooms that do not contain electrical panels.	Existing custodial rooms are undersized and not adequate to use as a work area and store supplies. Electrical panels currently located in custodial rooms encumber use of the space.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in EH-MD-33, 34 and 35.	B. Kenworthy	NA
EH-MD-08	Modernization	Elevator Modernization	Provide larger elevator.	Existing elevator is in good condition but smaller than district's standards.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency.	B. Kenworthy	NA
EH-MD-11	Modernization	Health Area Modernization	Modernize health room area with a designated nurse's office, visual connection to main office area, exhaust fan, and restroom that is ADA compliant.	Existing health room lacks an exhaust fan, separate nurses office, and relite window for visual connection to main office area. Health room has an undersized restroom that will not accommodate a wheel chair and does not have ADA compliant toilet.	Health / Safety & Deficiency	1	NA	BLRB Cost Estimate	Costs included in EH-MD-33.	B. Kenworthy ADA Consultant	NA
EH-MD-13	Modernization	Kitchen and Serving Area Modernization	Expand and modernize kitchen and serving area to meet district's standards.	Existing kitchen not centrally located, is undersized by 50 SF and 6% smaller than district's minimum standard. There is not a dedicated serving area and no hot food wells. The storage room and walk-in cooler and freezer are undersized. Food is transported to other parts of the school in carts but there is no area to mobilize these carts. The floor is deficient and dry storage room is undersized. A kitchen manager work area with desk, data and POS outlets and telephone is not provided. A combi-oven not provided and the dishwasher is beyond recommended life expectancy.	Health / Safety & Deficiency	4	NA	BLRB Cost Estimate	Costs included in EH-MD-35.	E. Boutin M. Newman R. Kenworthy	NA
EH-MD-14	Modernization	Library Expansion	Provide larger library.	Size of existing library meets district's minimum standard but is less than recommended standard by 600 SF. A larger library would improve school's ability to deliver current program.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency.	M. Newman	NA

# PROPOSED FACILITY IMPROVEMENTS

# EVERGREEN HEIGHTS ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
EH-MD-15	Modernization	Locker Additions	Provide lockers for students.	School does not have student lockers. Lack of corridors in building makes it impossible to provide lockers within interior corridors.	Deficiency	NA	NA	No Cost Estimate	Not feasible because building does not have corridors where lockers could be installed.	A. Gayman	NA
EH-MD-16	Modernization	Mail Room Modernization	Provide mail room with additional mail boxes adjacent to main office.	Existing mail boxes are located in staff lounge that is not convenient for use by main office staff. Eight additional mailboxes are needed to meet district's minimum standards.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in EH-MD-33.	B. Kenworthy	NA
EH-MD-17	Modernization	Main Office Area Relocation	Remodel main office and kindergarten areas to switch locations of main office area and kindergarten classrooms.	Switching locations will place the main office and the school's front entry to the closer to the parking lots and would allow visual connection between main office area and parking lot.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency and not cost effective.	A. Gayman	NA
EH-MD-19	Modernization	OT / PT Room Addition	Provide OT / PT room that meets district's standards.	Building does not have a designated space for OT/PT that meets district's standards.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in EH-MD-34.	B. Kenworthy	NA
EH-MD-20	Modernization	PE Office Expansion	Provide larger office for PE instructor.	Existing PE office is undersized by 16 SF and 20% smaller than district's minimum standards.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency.	B. Kenworthy	NA
EH-MD-21	Modernization	Pre-School Classroom Addition	Provide pre-school classrooms with restroom and changing table.	Building does not have classrooms with restroom and changing table for preschool classes.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in EH-MD-34.	B. Kenworthy	NA
EH-MD-22	Modernization	Primary Classroom Relocation	Relocate primary classrooms to upper floor level.	Existing primary classrooms located at lower level which does not have convenient access to bus loading, main office, kitchen, library and gym. Existing classrooms at upper level have classroom restrooms which would accommodate primary classes.	Enhancement	NA	NA	No Cost Estimate	This is a no-cost item that could be accomplished by building administrator by switching classroom assignment locations.	A. Gayman	NA
EH-MD-24	Modernization	Principal's Office Expansion	Provide larger office for principal and relite window to main office area.	Existing office is undersized by 40 SF and 20% smaller than the district's minimum standard. Office does not have a relite window for a visual connection to main office area.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in EH-MD-33.	B. Kenworthy	NA
EH-MD-25	Modernization	Public Restroom Addition	Provide public restrooms near main office and library.	Public restrooms are not provided near the main office and library which requires public to use gym, staff or student restrooms.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in EH-MD-33.	A. Gayman	NA
EH-MD-29	Modernization	Stage Expansion	Provide larger stage.	Existing stage is undersized by 180 SF and 20% smaller than district's minimum standards.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in EH-MD-35.	A. Gayman B. Kenworthy	NA
EH-MD-30	Modernization	Storage Space Addition	Provide additional space for storage of community supplies, furniture, instructional materials, general and maintenance supplies and PE equipment.	Building does not have dedicated rooms for storage of community, general, and maintenance supplies. Existing storage rooms for furniture and PE equipment are undersized.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in EH-MD-33 and 35.	A. Gayman B. Kenworthy	NA
EH-MD-32	Modernization	Telephone Room Expansion	Provide larger telephone room in staff lounge with a relite window and ventilation system.	Existing telephone room is undersized, will not accommodate a wheel chair and does not have a ventilation system.	Deficiency	4	NA	BLRB Cost Estimate	Costs included in EH-MD-33.	B. Kenworthy	NA

**PROPOSED FACILITY IMPROVEMENTS**

**GILDO REY ELEMENTARY SCHOOL**

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
GR-SI-13 ECM-W2	Site	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station and add a rain gauge.	Connection to the EMS and the addition of a rain gauge will reduce water consumption and utility costs.	Operating Cost	1	\$6,428	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant R. Thomas	A
GR-SI-16	Site	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars, directional arrows, and bus stall numbers. Provide striping at parking lot for crosswalks. Provide striping at hard surface play area for fire drill lines and one additional pickle ball court. Restripe existing lines in parking lot.	Thermo-plastics markings are needed in critical locations where existing markings quickly wear away. Pavement striping needed at parking lot to provide ADA compliant crosswalk from handicap parking stalls to building. Pavement striping needed at hard surface play area for fire drill lines and one additional pickle ball court. Existing lines in parking lot are faded and need to be restriped.	Deficiency	1	\$2,285	BLRB Cost Estimate		R. Thomas R. Logan ADA Consultant	A
GR-SI-21	Site	Traffic Control Sign Additions	Provide signs to designate parking stalls reserved for handicap and maintenance department use.	Signs needed to restrict parking at two standard handicap stalls, one van accessible stall and two maintenance vehicle stalls.	Deficiency	1	\$2,139	BLRB Cost Estimate		R. Logan ADA Consultant	A
GR-SI-22	Site	Underground Storage Tank Removal	Remove 5,000 gallon underground fuel oil storage tank that serves heating system.	Existing underground tank is not used, is not corrosion-resistant, and presents environmental risk.	Deficiency	2	\$67,973	BLRB Cost Estimate		R. Thomas	A
GR-SI-24	Site	Parking and Access Improvements - Staff / Visitors / Pick-Up & Drop Off	Modify, expand and improve staff and visitor parking and student drop off area.	Asphalt at staff parking lot is in poor condition. School does not have designated parking stalls for visitors. Student drop off area has cracked sidewalks and will accommodate 16 vehicles which is 4 less than the district's minimum standard. Currently, visitors use staff parking lot and student pick up area is located where staff and visitors park. This creates significant congestion.	Deficiency	1	\$1,161,491	BLRB Cost Estimate		R. Logan J. Denton M. Newman R. Thomas B. Kenworthy	A
GR-ST-01	Structural	Classroom Unit Wall / Low Roof Anchoring	Provide anchorage between masonry walls and low roof structure at classroom units floor framing.	Anchorage between masonry walls and low roof structure will provide needed seismic support.	Deficiency	2	\$17,595	PCS Cost Estimate		Structural Engineer	A
GR-ST-02	Structural	Floor Framing Connection Additions	Provide floor framing connection beam/column connection points.	Positive connection between beams and columns will improve seismic support.	Deficiency	2	\$9,971	PCS Cost Estimate		Structural Engineer	A
GR-ST-03	Structural	Gym Wall/Low Roof Anchoring	Provide anchorage between masonry walls and low roof structure for in-plane and out-of-plane loads at gym masonry wall.	Anchorage for load transfer will improve seismic support at connection between gym walls and low roof structure.	Deficiency	2	\$22,581	PCS Cost Estimate		Structural Engineer	A
GR-ST-04	Structural	Masonry Wall Reinforcing Verification	Verify reinforcing and anchorage of 4" walls at classroom units.	Addition of backing walls with anchorage to walls and roof diaphragms will improve seismic support.	Deficiency	2	\$19,135	PCS Cost Estimate		Structural Engineer	A
GR-ST-05	Structural	Masonry Confinement Plate Additions	Repair masonry cracks and confinement plates at all beam bearing locations.	Crack repair and addition of confinement plates will strengthen the masonry at bearing locations.	Deficiency	2	\$13,197	PCS Cost Estimate		Structural Engineer	A
GR-ST-06	Structural	Mechanical Equipment Anchoring	Anchor equipment at mechanical room.	Anchoring mechanical equipment in accordance with current code requirements will reduce potential for equipment and structural damage.	Deficiency	2	\$2,445	PCS Cost Estimate		Structural Engineer	A
GR-ST-07	Structural	Masonry Chimney Anchoring	Provide roof blocking and tension ties at the masonry chimney.	Securing the masonry chimney to the roof structure will reduce the potential for damage to chimney and roof.	Deficiency	2	\$3,324	PCS Cost Estimate		Structural Engineer	A
GR-EX-01	Exterior	Automatic Door Opener Addition	Provide automatic door opener at front entry doors.	Building does not have automatic door opener at main entry doors.	Enhancement	3	\$13,440	BLRB Cost Estimate		J. Trauffer R. Logan	A

# PROPOSED FACILITY IMPROVEMENTS

# GILDO REY ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
GR-EX-09	Exterior	Masonry Water Repellent Application	Provide application of water repellent at exterior masonry.	Existing masonry lacks a water repellent coating to protect against moisture penetration.	Deficiency	2	\$32,649	BLRB Cost Estimate		R. Thomas	A
GR-EX-13	Exterior	Exterior Door Hardware Upgrade	Replace exterior door lock cylinders with Primus cylinders.	Primus lock cylinders will improve building security.	Enhancement	2	\$13,527	ASD Cost Estimate		R. Thomas	A
GR-IN-07	Interior	Interior Door Hardware Upgrade	Replace interior door handles with ADA compliant lever handles.	Existing door handles not ADA compliant.	Enhancement	2	\$66,128	BLRB Cost Estimate		R. Thomas	A
GR-IN-09	Interior	Kindergarten Restroom Flooring Upgrade	Replace vinyl tile in Kindergarten restrooms with sheet vinyl.	Existing floor tile does not provide a seamless and sanitary floor surface.	Deficiency	1	\$2,230	BLRB Cost Estimate		B. Kenworthy	A
GR-IN-10	Interior	Restroom Flooring Improvements	Replace areas of damaged ceramic floor tile in restrooms.	Portions of the ceramic floor tile in restrooms have settled, cracked and separated.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in GR-MD-23.	R. Thomas	A
GR-EQ-01	Equipment	Computer Furniture Upgrade	Provide furniture designed for computer and other technology equipment use.	Existing furniture used for computer and technology equipment is lacking and in many cases not designed for this use.	Deficiency	1	\$8,785	ASD Cost Estimate		R. Luke	A
GR-EQ-04	Equipment	Gym Basketball Backboard Upgrade	Add two fixed basketball backboards at side courts and replace one fixed backboard at main court with a retractable backboard.	Gym does not have a total of 4 backboards at side courts and does not have a retractable backboards at each end of main court as identified is district's minimum standards.	Deficiency	2	\$50,197	BLRB Cost Estimate		R. Logan	A
GR-EQ-09	Equipment	Window Covering Upgrade	Replace fabric curtains at exterior windows with coated fabric or roller shades. Provide mini-blinds at interior relite windows.	Existing fabric curtains at exterior windows are not durable and do not adequately block day light. Window coverings not provided a some interior relite windows.	Deficiency	1	\$35,320	BLRB Cost Estimate		B. Kenworthy	A
GR-ME-01 ECM-M2	Mechanical	Automatic Controls Upgrade	Upgrade control system front end and software to the district standard - BacNet compatible, web based.	BACnet controls will reduce EMS maintenance and service costs.	Operating Cost	2	\$38,570	Quantum Cost Estimate	Estimated 10-year payback period.	R. Thomas Energy Consultant	A
GR-ME-04 ECM-M3	Mechanical	CO2 Control Addition - Classrooms	Expand Barber Coleman control system to add CO2 control to the main air handling systems at the classroom units.	CO2 control will regulate the amount of outside air being delivered to the occupied spaces based on CO2 levels and reduce energy usage.	Operating Cost	2	\$56,568	Quantum Cost Estimate	Estimated 8-year payback period.	Energy Consultant	A
GR-ME-05 ECM-M4	Mechanical	CO2 Control Addition - Gym & Library	Expand Barber Coleman control system to add CO2 control to the main air handling systems in the gym and library.	CO2 control will regulate the amount of outside air being delivered to the occupied spaces based on CO2 levels and reduce energy usage.	Operating Cost	2	\$15,428	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant	A
GR-ME-07	Mechanical	Mechanical Cooling Addition	Provide mechanical cooling at main office area and library.	Library overheats at times during school year and main office area overheats during summer use.	Enhancement	2	\$47,826	Quantum Cost Estimate		R. Thomas	A
GR-ME-09 ECM-M5	Mechanical	Occupancy Sensor Temperature Control Addition	Install occupancy sensors in gym and library to set back the spaces when they are unoccupied.	Occupancy sensors will reduce energy consumption and energy costs.	Operating Cost	1	\$12,857	Quantum Cost Estimate	Estimated 5-year payback period.	Energy Consultant	A
GR-ME-12 ECM-M1	Mechanical	TAB and Commissioning	Perform air and water testing, adjusting and balancing (TAB) on the mechanical systems. Commission the existing HVAC control system to verify proper operation.	Retroactive TAB and commissioning will improve system operation and reduce energy costs.	Operating Cost	1	\$64,282	Quantum Cost Estimate	Estimated 1-year payback period.	Energy Consultant R. Thomas	A
GR-ME-13 ECM-M6	Mechanical	VFD Addition - Air Handling Systems	Install variable frequency drives on the main air handling systems to modulate airflow based on occupancy sensors and space temperature demand.	VDFs will reduce energy costs.	Operating Cost	2	\$64,282	Quantum Cost Estimate	Estimated 8-year payback period.	Energy Consultant	A

**PROPOSED FACILITY IMPROVEMENTS**

**GILDO REY ELEMENTARY SCHOOL**

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
GR-ME-14 ECM-M8	Mechanical	VFD Addition - Hot Water Pump	Install variable frequency drives on the main heating water circulation pump. Convert the existing three-way valving to two-way valving and modulate flow based on system demand.	VDFs will reduce energy costs.	Operating Cost	2	\$11,570	Quantum Cost Estimate	Estimated 7-year payback period.	Energy Consultant	A
GR-ME-15 ECM-M7	Mechanical	VAV Air Handling System Upgrade	Install automated volume control dampers in the individual VAV reheat zones to modulate airflow to the occupied spaces based on space temperature and ventilation demand.	Automated volume control dampers will reduce energy costs.	Operating Cost	2	\$77,138	Quantum Cost Estimate	Estimated 8-year payback period.	Energy Consultant	A
GR-EL-04 ECM-L4	Electrical	Daylighting Control Addition	Add day lighting control to the fixtures in the gym foyer.	Daylight controls will reduce lighting where sufficient ambient light is available and reduce energy costs.	Operating Cost	2	\$6,428	Quantum Cost Estimate	Estimated 8-year payback period.	Energy Consultant	A
GR-EL-07	Electrical	Electrical Outlet Additions	Provide additional electrical outlets in library at computer lab area.	Library computer lab has 18 duplex receptacles for 31 computers.	Deficiency	1	\$14,399	Quantum Cost Estimate		R. Logan B. Kenworthy	A
GR-EL-09 ECM-L2	Electrical	Exit Sign Replacement	Replace incandescent and compact fluorescent exit signs with LED exit signs.	Exit sign replacement will reduce energy consumption and energy costs.	Operating Cost	1	\$12,857	Quantum Cost Estimate	Estimated 5-year payback period.	Energy Consultant	A
GR-EL-10	Electrical	Exterior Lighting Level Improvements	Provide additional illumination at front entry, bus area, delivery area, parking lots and pathways.	Existing lighting at exterior area lacks adequate illumination levels and is below minimum standards.	Health / Safety & Deficiency	1	\$126,506	Quantum Cost Estimate		B. Kenworthy	A
GR-EL-13 ECM-L1	Electrical	Interior Lighting Upgrade	Retrofit or replace T-12 fixtures, magnetic ballast and incandescent fixtures with T-8, electronic ballast and compact fluorescent technology.	Fixture replacement or retrofit will reduce energy costs.	Operating Cost	2	\$141,420	Quantum Cost Estimate	Estimated 7-year payback period.	Energy Consultant B. Kenworthy R. Thomas	A
GR-EL-16 ECM-L3	Electrical	Occupancy Sensor Lighting Control Addition	Install occupancy sensor in areas with fluctuating occupancy to turn off lights when the spaces are unoccupied.	Occupancy sensors will reduce energy consumption and energy costs.	Operating Cost	2	\$6,428	Quantum Cost Estimate	Estimated 7-year payback period.	Energy Consultant	A
GR-MD-09	Modernization	Itinerant Office Addition	Provide office for itinerant staff.	Building does not have office for itinerant staff. Itinerant staff currently uses the small conference room in the main office area.	Deficiency	1	\$19,465	BLRB Cost Estimate		R. Logan	A
GR-MD-14	Modernization	OT / PT Room Addition	Provide OT / PT room.	Building does not have a OT/PT room. OT/PT staff currently uses a locker room that does not have a window.	Deficiency	1	\$38,758	BLRB Cost Estimate		R. Logan	A
GR-MD-18	Modernization	Special Education Classroom Addition	Provide special education classroom with restroom and testing room.	Building does not have a classroom with restroom and testing room for special education classes.	Deficiency	1	\$55,451	BLRB Cost Estimate		R. Logan	A



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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
GR-MD-27	Modernization	Kitchen and Serving Area Improvements	Provide weather protected serving area at north side of kitchen. Provide serving window with roll up door and hot food wells at north wall that opens to weather protected serving area. Relocate existing equipment to accommodate new serving window. Provide combi-oven, two-burner cook top and associated electrical and gas service. Enlarge hood to accommodate combi-oven and cook top. Provide quarry tile floor, and electrical, POS, telephone and data outlets at work desk area. Replace dishwasher, steamer and kettle. Provide epoxy paint at walls and ceilings.	Weather protected serving area needed to eliminate need for serving students in kitchen. Additional equipment and power / data / telephone outlets needed to accommodate food service program and meet minimum standards. Replacement equipment needed for for equipment past life expectancy.	Deficiency	1	\$912,863	BLRB Cost Estimate		E. Boutin M. Newman	A
GR-MD-30	Modernization	Student Restroom Improvements	Replace washbasins and provide new cove base in student restrooms.	Existing washbasins in student restrooms are in poor condition, unattractive and not water efficient. New cove base needed to conceal gap at base of walls.	Deficiency	1	\$156,155	ASD Cost Estimate		R. Thomas	A
GR-SI-03	Site	Climbing Equipment Curb Addition	Provide concrete curb around perimeter of climbing equipment areas.	Existing wood curb is in fair condition.	Enhancement	3	\$75,075	BLRB Cost Estimate		R. Thomas	B
GR-SI-05	Site	Climbing Equipment Ground Surface Upgrade	Provide engineered wood fiber for ground surface at climbing equipment areas.	Existing wood chips used for ground surface are sharp and can cause slivers.	Deficiency	2	\$63,243	BLRB Cost Estimate		R. Thomas	B
GR-SI-06	Site	Climbing Equipment Upgrade	Replace wood and galvanized metal climbing structures.	Existing wood and galvanized metal climbing equipment is deteriorated in areas and does not meet school district's minimum standards.	Deficiency	1	\$74,535	BLRB Cost Estimate		B. Kenworthy R. Thomas	B
GR-EX-11	Exterior	Roof Upgrade - Single Ply Roof and Insulation	Add roof insulation and replace Hypolon roof membrane.	Existing single-ply roof membrane is 20 years old and will exceed life expectancy in 5 years. Existing R-16 roof insulation does not meet district's minimum standards of R-19 insulation.	Operating Cost & Enhancement	2	\$891,978	BLRB Cost Estimate		R. Thomas	B
GR-IN-04	Interior	Classroom Cabinet Upgrade	Increase the amount of cabinets in classrooms and provide locks keyed to the building master key system at all cabinet throughout school.	Existing cabinets do not have locks keyed to the building master key system and classrooms have less cabinets than district's minimum standards. Placement of additional cabinets in classrooms adversely affected by classroom coat storage area.	Deficiency	1	\$437,138	BLRB Cost Estimate		R. Logan R. Thomas	B
GR-EQ-03	Equipment	Furniture Upgrade	Replace student furniture in classrooms and staff desks and chairs in offices and classrooms.	Existing staff and student furniture is in fair condition and does not match in areas.	Enhancement	1	\$19,558	ASD Cost Estimate		B. Kenworthy	B
GR-ME-02 ECM-M10	Mechanical	Boiler Replacement	Replace boiler with two high efficiency condensing boilers and add a hot water circulation pump.	Boiler replacement and pump addition will reduce energy costs.	Operating Cost	3	\$308,550	Quantum Cost Estimate	Estimated 15-year payback period.	R. Thomas Energy Consultant	B
GR-EL-15	Electrical	Intrusion Alarm Audible Signal Upgrade	Upgrade intrusion alarm system to provide audible alarm.	Use of audible alarm could reduce intrusions and false alarms.	Enhancement	1	\$46,026	Quantum Cost Estimate		M. Newman	B
GR-MD-16	Modernization	Primary Classroom Restroom Upgrade	Provide restrooms in first and second grade classrooms.	Restrooms needed in these classrooms to allow students to use toilet facilities during class without leaving classroom. Existing student restrooms are accessible from the foyer area of the primary classroom unit.	Deficiency	1	\$272,520	BLRB Cost Estimate		R. Logan	B

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GR-MD-25	Modernization	Conference Room / Custodial Room / Health Area / Office / Restroom / Workroom / Telecommunications Room Modernization & Additions	Modernize and expand conference room, counselor's office, custodial rooms, health area, mail and telecommunications rooms, and staff restrooms and workroom.	See Improvement Justifications for GR-MD-03, 04, 05, 08, 12, 19, 20 and 24.	Health / Safety & Deficiency	1	\$890,188	BLRB Cost Estimate	Not cost effective.	R. Logan M. Newman R. Thomas B. Kenworthy N. Vien ADA Consultant	B
GR-EX-04	Exterior	Exterior Louver Upgrade	Replace exterior wood louvers with pre-finished metal louvers.	Existing wood louvers are in poor condition.	Deficiency	2	\$158,942	BLRB Cost Estimate		B. Kenworthy	B-
GR-SI-19	Site	Playground Equipment Additions	Provide 2 basketball backboards at playshed and posts and nets for an additional pickle ball court.	Existing playshed lacks 2 basketball backboards and playground lacks one pickle ball court.	Deficiency	1	\$20,040	BLRB Cost Estimate		B. Kenworthy	B
GR-SI-09	Site	Exterior Bench Additions	Provide exterior benches at hard surface playground area.	Exterior benches not provided where needed at playground area.	Deficiency	1	\$23,460	BLRB Cost Estimate		R. Thomas	B+
GR-SI-10	Site	Exterior Waste Receptacle Upgrade	Provide ornamental waste receptacle at front entry and waste receptacles with push door tops at playground.	Existing exterior waste receptacles are galvanized cans without covers.	Enhancement	3	\$6,280	BLRB Cost Estimate		R. Thomas	B+
GR-SI-01	Site	ADA Site Improvements	Provide miscellaneous site improvements to comply non-mandatory ADA standards.	School was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous site areas, which do not significantly affect access to the building, could be improved to comply with current ADA standards. Site improvements needed to provide ADA required program access are identified separately.	Enhancement	1	\$127,723	BLRB Cost Estimate	Minor need and non-mandatory improvements.	ADA Consultant	C
GR-SI-04	Site	Climbing Equipment Area Drainage Improvements	Provide sub-drain system at climbing equipment areas.	Existing wood chip climbing equipment areas drain poorly and are saturated with water much of the school year.	Enhancement	2	\$395,216	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
GR-SI-07	Site	Delivery Area Improvements	Provide larger delivery area and a vehicle gate for security.	Existing delivery area will not accommodate two delivery vehicles because of interference from dumpsters and emergency supply storage container. Delivery area does not have vehicle gate to restrict vehicle access after school hours.	Deficiency	3	\$22,707	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
GR-SI-08	Site	Dumpster Area Addition	Provide designated area with screen walls for dumpster storage.	Dumpsters are located in the delivery area without a designated area or screen walls.	Deficiency	3	\$39,926	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
GR-SI-11	Site	Fence Gate Upgrades	Provide taller gate at path to trailer park at west property line and add ornamental gate at entry to courtyard area between main office and gym buildings.	Existing short gate to trailer park path does not provide adequate security at playground. Gate addition desired between main and gym buildings provide security at courtyard area and direct visitors to main office.	Deficiency & Enhancement	1	\$45,698	BLRB Cost Estimate	Not cost effective. Taller gate at path to trailer park should be addressed as a maintenance item.		C
GR-SI-12	Site	Hard Surface Play Area Additions	Provide additional asphalt play area.	Existing hard surface play area is undersized by 7,500 SF and 16% smaller than the district's minimum standard.	Deficiency	2	\$221,870	BLRB Cost Estimate	Minor deficiency.	A. Gayman	C
GR-SI-14	Site	Long Jump Improvements	Improve long-jump pit.	Existing long jump pit in poor condition.	Deficiency	1	\$14,149	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C

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GR-SI-15	Site	Parking and Access Improvements - Buses / Staff / Visitors / Pick-Up & Drop Off	Modify, expand and improve staff and visitor parking, bus loading and student drop off area.	Asphalt at staff parking lot is in poor condition. School does not have designated parking stalls for visitors. Bus loading area and student drop off areas are undersized. Bus loading area will accommodate 9 buses which is one less than district's minimum standard. Bus stalls are 12' wide and should be increased to 16' for ease of access and to meet district's recommended standard. Student drop off area has cracked sidewalks and will accommodate 16 vehicles which is 4 less than the district's minimum standard. Currently, visitors use staff parking lot and student pick up area is located where staff and visitors park. This creates significant congestion. Additional congestion and grid lock occurs because all buses and vehicles enter and exit the site at one location.	Deficiency	1	\$930,130	BLRB Cost Estimate	Not cost effective. See GR-SI-24 for a portion of these improvements.	R. Logan J. Denton M. Newman R. Thomas B. Kenworthy	C
GR-SI-18	Site	Playground Drainage Improvements	Provide sub-drain system at grass play field.	Existing grass play field drains poorly and is saturated with water for much of the school year.	Enhancement	3	\$1,958,594	BLRB Cost Estimate	Not cost effective.	R. Logan	C
GR-SI-20	Site	Site Sign and Readerboard Addition	Provide new site sign that includes a built-in reader board and identifies the school address.	Existing site sign is damaged, unattractive and does not include street address. School does not have a reader board to display school announcements.	Deficiency	3	\$61,095	BLRB Cost Estimate	Minor deficiency.	R. Logan	C
GR-SI-23	Site	Sewer System Upgrade	Provide sewage holding tank, grinder, pump and pressure line for sewer system serving pre-school building.	Existing sewer system serving pre-school building has a sewer line that requires frequent maintenance because of inadequate slope. Slope of line cannot be increase because of elevation of main line.	Deficiency	2	\$64,270	BLRB Cost Estimate	Not necessary because pre-school building recommended for demolition.	R. Thomas	C
GR-EX-02	Exterior	Clerestory Window Upgrade	Replace glazing at clerestory windows with insulated glass.	Existing single-pane glazing at clerestory windows is in poor condition and not energy efficient.	Operating Cost	2	\$24,670	BLRB Cost Estimate	Not cost effective because of long-term payback period.	R. Thomas	C
GR-EX-03	Exterior	Exterior Door Upgrade	Replace wood exterior doors with metal doors and Primus lock cylinders.	Existing wood doors do not provide long term durability, and Primus lock cylinders will improve building security.	Enhancement	2	\$76,855	BLRB Cost Estimate	Minor deficiency and not cost effective to replace wood doors. See GR-EX-13 for hardware upgrade.	R. Thomas	C
GR-EX-07 ECM-G1	Exterior	Window Replacement	Replace the single-pane exterior windows with dual-glazed thermal pane windows.	Window replacement will reduce energy costs.	Operating Cost	3	\$385,688	Quantum Cost Estimate	Not cost effective because of estimated 15-year payback period.	Energy Consultant	C
GR-EX-08	Exterior	Exterior Window Upgrade	Provide larger windows at classrooms and replace all single-pane exterior windows with dual glazing, integral blinds and screens.	Existing exterior windows do not provide adequate day light into classrooms and are smaller than district's minimum standard. Installation of dual glazed windows will improve energy efficiency, integral blinds will reduce damage to and maintenance of window blinds, and screens will keep out mosquitoes and bees.	Operating Cost & Enhancement	2	\$186,606	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
GR-EX-10	Exterior	Roof Fall Arrest Anchors Addition	Provide fall arrest system at roof.	Pitched roofs do not have fall arrest safety system.	Health / Safety	2	\$97,140	BLRB Cost Estimate	Minor Deficiency	R. Thomas	C

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GR-EX-12	Exterior	Roof Upgrade - Metal Roof and Insulation	Add roof insulation and replace Hypolon roof membrane at low slope roofs and add metal roof at pitched roofs.	Existing single-ply roof membrane is 20 years old and will exceed life expectancy in 5 years. Existing R-16 roof insulation does not meet district's minimum standards of R-19 insulation.	Operating Cost & Enhancement	3	\$2,963,052	BLRB Cost Estimate	Not cost effective considering life expectancy of facility.	R. Thomas	C
GR-IN-01	Interior	ADA Building Improvements	Provide miscellaneous building improvements to comply non-mandatory ADA standards.	School was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous building areas, which do not significantly affect access within the building, could be improved to comply with current ADA standards. Improvements needed to provide ADA required program access within the building are identified separately.	Enhancement	3	\$678,934	BLRB Cost Estimate	Minor need and non-mandatory improvements.	ADA Consultant	C
GR-IN-02	Interior	Asbestos Containing Material Removal	Remove approximately 1,800 SF of asbestos sheet vinyl, 4 asbestos-containing sections of wire sheathing, and 100 asbestos pipe insulation joints.	Asbestos-containing sheet vinyl, wire sheathing and insulation joints present in the building. All asbestos is encapsulated within the material and is not friable.	Enhancement	1	\$30,425	BLRB Cost Estimate	Minor need.	R. Thomas	C
GR-IN-05	Interior	Corridor Tackable Wall Area Addition	Provide additional tackboards or add vinyl wall covering in corridors.	Corridors lack tackable wall areas for display and is less than the district's minimum standard.	Deficiency	3	\$14,804	BLRB Cost Estimate	Minor deficiency.	R. Thomas B. Kenworthy	C
GR-IN-06	Interior	Display Case Addition	Provide built-in display case at front entry area.	Front entry does not have display case. Display cases are present in classroom units.	Enhancement	4	\$9,775	BLRB Cost Estimate	Minor need.	B. Kenworthy	C
GR-IN-11	Interior	Walk Off Mat Upgrade	Provide larger walk off mats at building entrances.	Larger mats will improve dirt control and reduce maintenance and carpet wear.	Enhancement	1	\$21,896	BLRB Cost Estimate	Not cost effective until carpeting in building is replaced.	R. Thomas	C
GR-EQ-02	Equipment	Fiber Optic Connection Addition	Provide data communications equipment to accommodate installation of a leased fiber optic circuit.	Equipment needed when school upgrades its internet connection with a fiber optic circuit leased from Qwest.	Enhancement	1	\$11,410	ASD Cost Estimate	Minor need.	N. Vein	C
GR-EQ-07	Equipment	Projection Screen Upgrade	Provide an additional projection screen in library, provide larger and motorized projection screen in gym.	An additional projection screen is needed in the library to meet district's minimum standards and the projection screen in gym is undersized and manually operated.	Deficiency	1	\$15,326	BLRB Cost Estimate	Minor deficiency.	R. Logan	C
GR-EQ-08	Equipment	Toilet Partition Upgrade	Provide new toilet partitions and add urinal screens.	Existing metal toilet partitions are deteriorated and urinal screens are not provided in boy's restrooms.	Deficiency	1	\$49,939	BLRB Cost Estimate	Minor deficiency.	R. Logan R. Thomas	C
GR-EQ-10	Equipment	Wireless Computer Station Additions	Provide wireless computer equipment and workstation furniture for use at front of each classroom.	Wireless computer equipment will allow teachers to use ceiling mounted LCD projectors from work station and front of classroom in lieu of adding power and data outlets in floor at much higher cost.	Enhancement	1	NA	No Cost Estimate	Obtained with Technology Levy funds.	R. Luke M. Newman	C
GR-ME-06	Mechanical	Fire Sprinkler System Addition	Provide fire sprinkler system throughout school.	Buildings are not protected with a fire sprinkler system.	Deficiency	3	\$327,809	Quantum Cost Estimate	Not cost effective.	R. Thomas	C
GR-ME-08	Mechanical	Natural Gas System Metering	Provide electronic meter for natural gas system connected to energy management system.	Electronic meter will allow remote monitoring of gas service and improve potential for reducing natural gas use.	Operating Cost	2	\$22,884	Quantum Cost Estimate	Minor need and not cost effective at an elementary school.	R. Thomas	C
GR-ME-10	Mechanical	Plumbing Fixture Replacement	Replace plumbing fixtures throughout school.	Existing plumbing fixtures are in poor condition, lack water saving features, and do not meet district's minimum standards.	Operating Cost & Deficiency	3	\$128,049	Quantum Cost Estimate	Not cost effective.	R. Thomas	C

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GR-ME-11 ECM-W1	Mechanical	Plumbing Fixture Retrofit Review	Review water saving opportunities including retrofit or replacement of sinks, urinals and water closets.	A reduction in water use will reduce utility costs.	Operating Cost	2	\$38,570	Quantum Cost Estimate	Estimated 6-year payback period. Improvements included in GR-ME-10.	Energy Consultant	C
GR-ME-16	Mechanical	Water Quality Improvements	Replace plumbing at sinks in health room, kitchen (2), and 25 classrooms. Replace bubblers in 25 classrooms.	Water quality tests at 3 non-classrooms sinks, some classroom sinks and some classroom bubblers exceeded EPA water quality standards for lead or copper.	Health / Safety	1	\$97,708	Quantum Cost Estimate	Improvements included in GR-ME-10.	B. Kenworthy	C
GR-ME-17	Mechanical	Ductwork Insulation Addition	Provide insulation on ductwork in crawl spaces below buildings.	Existing ductwork located in unheated crawl spaces lacks insulation. Adding insulation will reduce energy costs.	Operating Cost	2	\$44,611	Quantum Cost Estimate	Not cost effective because of long-term payback period.	R. Thomas	C
GR-ME-18	Mechanical	Classroom Air Diffuser Upgrade	Replace air diffusers in classrooms.	New air diffusers improve occupant comfort and reduce energy costs.	Operating Cost	3	\$80,393	ASD Cost Estimate	Minor deficiency.	Energy Consultant	C
GR-EL-02	Electrical	Ceiling Mounted LCD Projector Addition	Provide ceiling mounted LCD projector and associated AV and power outlets in each classroom with connection to teacher's work station.	Ceiling mounted projectors desired for ease of use, to reduce theft, and to protect equipment and cables from damage.	Enhancement	1	\$572,103	Quantum Cost Estimate	Not cost effective.	R. Luke R. Thomas M. Newman	C
GR-EL-03	Electrical	Data Communications Equipment Upgrade	Upgrade data communications equipment filter, router, switch, traffic shaping and connectivity speed.	Existing filter, router, switch, traffic shaping and connectivity speed do not meet district's minimum standards.	Deficiency	1	\$141,659	ASD Cost Estimate	Minor deficiency.	N. Vien	C
GR-EL-05	Electrical	Data Outlet Addition at Teacher's Work Station	Provide data outlets for computers and AV equipment at teacher's work station in each classroom.	Classrooms do not have AV outlets at teacher's work station and do not have floor box with data outlets at front of classroom.	Enhancement	2	\$308,550	Quantum Cost Estimate	Not cost effective. See GR-EQ-10 for an alternate approach using wireless work station.	R. Luke M. Newman	C
GR-EL-08	Electrical	Electrical Service Metering	Provide electronic meter for electrical service connected to energy management system.	Electronic meter will allow remote monitoring of electrical service and improve potential for reducing electrical use.	Operating Cost	2	\$24,941	Quantum Cost Estimate	Minor need and not cost effective at an elementary school.	R. Thomas	C
GR-EL-11	Electrical	Gym Sound System Addition	Provide built-in sound system in gym.	Existing sound system is a portable system and does not meet district's minimum standards.	Deficiency	1	\$54,511	Quantum Cost Estimate	Minor deficiency.	R. Logan	C
GR-EL-12	Electrical	Interior Lighting Level Improvements	Provide additional illumination at classrooms, corridors, gym, kitchen, and some support spaces.	Existing lighting at some interior areas lacks adequate illumination levels and is below the district's minimum standard.	Health / Safety & Deficiency	1	\$128,563	Quantum Cost Estimate	Improvements included in GR-EL-13.	B. Kenworthy	C
GR-EL-17	Electrical	Surveillance Camera Addition	Provide surveillance camera system to monitor parking lots and areas around building.	Surveillance cameras could reduce vandalism and theft around building.	Enhancement	1	\$107,993	Quantum Cost Estimate	Minor need.	M. Newman	C
GR-EL-18	Electrical	Telephone System Upgrade	Upgrade telephone system to provide voice mail.	Existing telephone system does not have voice mail feature and does not meet district's minimum standards.	Deficiency	1	\$174,073	Quantum Cost Estimate	Minor deficiency.	R. Thomas	C
GR-MD-13	Modernization	Music Room Addition	Provide room for music instruction.	Building does not have a room for music classes that has sound insulation and meets district's minimum standards.	Deficiency	2	\$152,014	BLRB Cost Estimate		B. Kenworthy	C
GR-MD-21	Modernization	Stage Modernization	Modernize and expand stage and provide operable wall between stage and gym.	Existing stage is undersized by 275 SF and 35% smaller than district's minimum standards. Stage does not have an operable wall to separate stage from gym and does not have wheel chair access as required by ADA.	Deficiency	3	\$311,175	BLRB Cost Estimate		A. Gayman B. Kenworthy ADA Consultant	C

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
GR-MD-23	Modernization	Student Restroom Modernization	Modernize non-classroom student restrooms to provide new surface finishes, new toilet partitions and ADA compliant grab bars, toilet stalls and toilet fixtures.	Non-classroom student restrooms have old ceramic floor tile, toilets and sinks with high water use, deteriorated toilet partitions, and plumbing fixtures, toilet stalls and grab bars that are not ADA compliant.	Deficiency	1	\$268,020	BLRB Cost Estimate	Not cost effective. See GR-MD-30 for a portion of these improvements.	R. Thomas B. Kenworthy ADA Consultant	C
GR-MD-26	Modernization	Kitchen / PE Office / Restrooms / Storage Additions & Modernizations	Provide emergency storage, PE office, public restrooms, and storage space. Modernize and expand kitchen, serving area, and gym restrooms.	See Improvement Justifications for GR-MD-06, 07, 10, 15, 17 and 22.	Deficiency	1	\$1,669,716	BLRB Cost Estimate	See GR-MD-27 for a portion of these improvements.	R. Logan M. Newman R. Thomas B. Kenworthy E. Boutin ADA Consultant	C
GR-MD-28	Modernization	Pre-School Building Modernization	Fully modernize 4,000 SF modular ECE pre-school building.	Existing modular ECE building is in poor condition and does not meet instructional program needs.	Deficiency	1	NA	No Cost Estimate	Not cost effective because separate pre-school building not needed.	R. Logan J. Trauffer B. Kenworthy	C
GR-NW-01	New	Pre-School Building Replacement	Replace existing modular ECE pre-school building with permanent building.	Existing ECE modular buildings do not have adequate facilities or meet district's minimum standards for pre-school classrooms. These modular facilities are in marginal condition, smell musty, lack electrical systems needed for the instructional programs, look temporary and unattractive, and do not match appearance of main buildings.	Health / Safety & Deficiency & Enhancement	1	\$2,573,732	BLRB Cost Estimate	Not cost effective because separate pre-school building not needed.	R. Logan J. Trauffer B. Kenworthy	C
GR-SI-02	Site	Chainlink Fence Additions	Provide chainlink fencing at a portion of the west property line at the playground area.	Playground lacks control and security by not having fencing along entire west perimeter.	Deficiency	1	NA	No Cost Estimate	Further investigation revealed existing fence is adequate.	R. Thomas B. Kenworthy	NA
GR-SI-17	Site	Pipe Rail Gate Improvement	Provide reflective tape on pipe rail vehicle gate at entrance to school.	Existing pipe rail gate does not have reflective tape and can be difficult to see at night.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	R. Logan B. Kenworthy	NA
GR-EX-05	Exterior	Exterior Painting	Paint areas of exterior wood.	Existing paint is in fair condition.	Enhancement	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Thomas	NA
GR-EX-06	Exterior	Exterior Wall Insulation Addition	Provide insulation at structural masonry exterior walls.	Existing walls at main building consist of uninsulated structural masonry.	Deficiency	NA	NA	No Cost Estimate	Not cost effective.	B. Kenworthy	NA
GR-IN-03	Interior	Ceiling Upgrade	Provide higher ceilings in classrooms, library and corridors.	Existing ceilings are 8'-6" high and 6" lower than district's minimum standard. Low ceilings are more vulnerable to damage and inhibit distribution of daylight.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency and not cost effective.	B. Kenworthy	NA
GR-IN-08	Interior	Interior Painting	Paint building interior.	Existing paint is in fair condition.	Enhancement	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Thomas	NA
GR-IN-12	Interior	Operable Wall Addition	Provide operable wall between stage and gym.	Operable wall between stage and gym will protect stage curtain and will allow the stage to be used during PE classes for music instruction or other teaching station.	Deficiency	1	NA	BLRB Cost Estimate	Cost included in GR-MD-21.	R. Thomas	NA
GR-EQ-05	Equipment	Instructional Equipment Upgrade	Replace 3 laser printers in classrooms.	Laser printers over 8 years old and past life expectancy. .	Deficiency	NA	NA	No Cost Estimate	Obtained with Technology Levy funds.	R. Luke	NA
GR-EQ-06	Equipment	Office Equipment Upgrade	Provide copy machine for main office area.	Copy machine not provided in main office. Office staff uses copier in staff workroom.	Deficiency	NA	NA	No Cost Estimate	Obtained as leased equipment.	R. Luke	NA

**PROPOSED FACILITY IMPROVEMENTS**

**GILDO REY ELEMENTARY SCHOOL**

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
GR-ME-03 ECM-M9	Mechanical	Classroom Air Diffuser & Curtain Replacement	Replace air diffusers and curtains in classrooms.	New air diffusers and curtains will improve occupant comfort.	Operating Cost	3	NA	Quantum Cost Estimate	Costs included in GR-EQ-09 and GR-ME-18.	Energy Consultant	NA
GR-EL-01	Electrical	Cable Television Extension	Extend cable television and provide head end equipment in library workroom.	Relocation of CATV head end equipment from library AV storage room to library workroom will allow more convenient use.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency.	R. Logan	NA
GR-EL-06	Electrical	Data Outlet Addition at Classrooms	Provide one more data outlets in each classroom for student use.	Classrooms have 5 data outlets for student use and 6 are required by districts minimum standards.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency. Outlets can be added by district using splitter and existing data wiring.	B. Kenworthy	NA
GR-EL-14	Electrical	Internet Connection Upgrade	Increase bandwidth of school's internet connection.	Increased bandwidth desired to provide long-term and efficient access for information technology via the internet.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency. Existing internet connection meets district's minimum standard.	R. Luke	NA
GR-MD-01	Modernization	Building Enclosure Modernization	Provide access to all parts of building within enclosed space.	School consists of separate buildings connected by covered walkways. This inhibits supervision, requires students and staff to go outdoors to travel between buildings, and does not meet district's minimum standards.	Deficiency	NA	NA	No Cost Estimate	Not cost effective.	B. Kenworthy	NA
GR-MD-02	Modernization	Classroom Unit Modernizations	Remodel common area between classrooms in classroom units to be useable for instructional space.	Existing common areas serve as oversized circulation space and are not an effective use of floor area.	Enhancement	NA	NA	No Cost Estimate	Not feasible because of space limitations and exiting requirements for adjacent classrooms.	M. Newman	NA
GR-MD-03	Modernization	Conference Room Expansion	Provide a large conference room and increase size of small conference room.	Building does not have a large conference room and small conference room is undersized by 100 SF and is 50% smaller than district's minimum standard.	Deficiency	1	NA	BLRB Cost Estimate	Cost included in GR-MD-25.	R. Logan	NA
GR-MD-04	Modernization	Counselor's Office Expansion	Provide larger counselor's office.	Existing counselor's office is undersized by 80 SF and is 40% smaller than district's minimum standard.	Deficiency	1	NA	BLRB Cost Estimate	Cost included in GR-MD-25.	R. Logan	NA
GR-MD-05	Modernization	Custodial Room Improvements	Provide larger custodial rooms that do not have electrical panels in room.	Existing custodial rooms are slightly undersized and have electrical panels and mop sinks within the room. The electrical panels encumber use of room for storage of custodial equipment and creates a potential safety hazard.	Deficiency	1	NA	BLRB Cost Estimate	Cost included in GR-MD-25.	B. Kenworthy	NA
GR-MD-06	Modernization	Emergency Storage Room Addition	Provide space within building for storage of emergency supplies.	Building does not have space for storage of emergency supplies. Existing supplies kept in exterior storage container.	Deficiency	1	NA	BLRB Cost Estimate	Cost included in GR-MD-26.	R. Logan	NA
GR-MD-07	Modernization	Gym Restroom Improvements	Modify gym restrooms 203 and 204 to be ADA compliant.	Gym restrooms do not have access clearances and toilet fixtures as required by ADA.	Deficiency	1	NA	BLRB Cost Estimate	Cost included in GR-MD-26.	ADA Consultant	NA
GR-MD-08	Modernization	Health Area Modernization	Modernize health room area with a designated nurse's office, exhaust fan, and restroom that is ADA compliant.	Existing health room lacks an exhaust fan and separate nurses office, and has an undersized restroom that will not accommodate a wheel chair and is not ADA compliant.	Health / Safety & Deficiency	1	NA	BLRB Cost Estimate	Cost included in GR-MD-25.	R. Logan ADA Consultant	NA

**PROPOSED FACILITY IMPROVEMENTS**

**GILDO REY ELEMENTARY SCHOOL**

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
GR-MD-10	Modernization	Kitchen and Serving Area Modernization	Relocate and modernize kitchen and add serving area to meet district's standards.	Existing kitchen does not have a dedicated serving area, has low ceiling, and is not centrally located. Walk-in cooler and freezer are undersized. Students must walk outside and are served in the kitchen for breakfast. Kitchen manager work area with desk, data and POS outlets and telephone not provided. Hot food wells, combi-oven, and two-burner cook top not provided. Dishwasher and steamer and steam kettle are beyond life expectancy.	Health / Safety & Deficiency	1	NA	BLRB Cost Estimate	Cost included in GR-MD-26.	E. Boutin M. Newman	NA
GR-MD-11	Modernization	Locker Additions	Provide lockers for students in corridors.	School does not have student lockers. Existing classroom units do not have corridors that will accommodate lockers.	Deficiency	NA	NA	No Cost Estimate	Not feasible because building does not have adequate corridor space to accommodate lockers.	R. Logan	NA
GR-MD-12	Modernization	Mail Room Relocation	Provide mail room separate from but adjacent to main office secretary's area.	Existing mail boxes are located in the main office secretary's area which creates congestion and distractions.	Deficiency	3	NA	BLRB Cost Estimate	Cost included in GR-MD-25.	R. Logan	NA
GR-MD-15	Modernization	PE Office Addition	Provide office for PE instructor.	Existing workstation for PE instructor is located in PE storage room and does not meet district's minimum standards.	Deficiency	1	NA	BLRB Cost Estimate	Cost included in GR-MD-26.	B. Kenworthy R. Thomas	NA
GR-MD-17	Modernization	Public Restroom Addition	Provide public restrooms in main building area.	Public restrooms are not provided in main building which requires public to use gym, staff or student restrooms.	Deficiency	1	NA	BLRB Cost Estimate	Cost included in GR-MD-25.	B. Kenworthy	NA
GR-MD-19	Modernization	Staff Restroom Modernization	Provide larger and additional staff restrooms.	School has only one men's and one women's staff restrooms. These restrooms are undersized, not ADA compliant, have only a single toilet fixture, and are not located in each classroom wing.	Health / Safety & Deficiency	1	NA	BLRB Cost Estimate	Cost included in GR-MD-25.	R. Logan ADA Consultant	NA
GR-MD-20	Modernization	Staff Workroom Addition	Provide staff workroom.	Building does not have a central staff workroom. Staff currently uses main office workroom and storage rooms located in each classroom unit. Main office workroom not large enough to accommodate two copy machines and supplies needed for a full staff workroom.	Deficiency	2	NA	BLRB Cost Estimate	Cost included in GR-MD-25.	R. Logan	NA
GR-MD-22	Modernization	Storage Space Addition	Provide additional storage space furniture, general items and PE equipment.	Building does not have dedicated rooms for storage of furniture and general items. Storage room provides for PE equipment is undersized by 100 SF and 33% smaller than district's minimum standard.	Deficiency	2	NA	BLRB Cost Estimate	Cost included in GR-MD-26.	R. Logan	NA
GR-MD-24	Modernization	Telecommunication Rooms Modernization	Provide dedicated HC rooms and independent mechanical ventilation and cooling systems at existing MC and new HC rooms.	Existing HC rooms are undersized and also used at workrooms. Existing MC and HC rooms lack independent HVAC system..	Deficiency	1	NA	BLRB Cost Estimate	Cost included in GR-MD-25.	N. Vein	NA
GR-MD-29	Modernization	Pre-School Building Demolition	Demolish 4,000 SF modular ECE pre-school building.	Existing modular ECE building is in poor condition and is not needed.	Deficiency	3	NA	BLRB Cost Estimate	Cost included in GR-SI-24.	R. Thomas	NA



# PROPOSED FACILITY IMPROVEMENTS

# HAZELWOOD ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
HW-SI-02	Site	Asphalt Play Area Repair	Fill and patch limited areas of asphalt settlement at hard surface play area.	A limited area of settlement is occurring over a storm drain line. Areas of settlement pond water and create a stumbling hazard.	Deficiency	1	\$3,290	BLRB Cost Estimate		M. Newman R. Thomas	A
HW-SI-08	Site	Curb Ramp Additions	Provide curb ramps at two locations at SE 304th St.	Curb ramps needed at SE 304th St. at east and west entry sidewalks.	Deficiency	2	\$9,138	BLRB Cost Estimate		ADA Consultant	A
HW-SI-11 ECM-W2	Site	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station and add a rain gauge.	Connection to the EMS and the addition of a rain gauge will reduce water consumption and utility costs.	Operating Cost	1	\$6,428	Quantum Cost Estimate	Estimated 3-year payback period.	Energy Consultant R. Thomas	A
HW-SI-13	Site	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars, directional arrows, and bus stall numbers. Provide striping for bus stalls.	Thermo-plastics markings are needed in critical locations because existing painted markings quickly wear out. Bus stalls need striping make it easier for buses to park in an efficient manner.	Deficiency	1	\$2,285	BLRB Cost Estimate		R. Thomas B. Kenworthy	A
HW-EX-01	Exterior	Automatic Door Opener Addition	Provide automatic door opener at front entry doors.	Building does not have automatic door opener at main entry doors.	Enhancement	1	\$13,440	BLRB Cost Estimate		J. Trauffer	A
HW-EX-02	Exterior	Exterior Door Hardware Upgrade	Replace exterior door lock cylinders with Primus cylinders.	Primus lock cylinders will improve building security.	Enhancement	2	\$12,536	BLRB Cost Estimate		R. Thomas	A
HW-EX-05	Exterior	Masonry Repair	Repair areas of deteriorated masonry at site sign, dumpster enclosure, and at masonry seat walls at playground.	Brick joints and faces have deteriorated at some areas at seat walls, dumpster enclosure, and site sign.	Deficiency	4	\$18,328	BLRB Cost Estimate		R. Thomas B. Kenworthy	A
HW-EX-06	Exterior	Masonry Water Repellant Application	Provide application of water repellant at exterior masonry.	Existing masonry lacks a water repellant coating to protect against moisture penetration.	Deficiency	3	\$84,920	BLRB Cost Estimate		R. Thomas	A
HW-EX-07	Exterior	Roof Fall Arrest Anchors Addition	Provide fall arrest system at roof.	Pitched roofs do not have fall arrest safety system.	Health / Safety	3	\$168,375	BLRB Cost Estimate		R. Thomas	A
HW-EX-09	Exterior	Roof Upgrade - Shingles	Replace shingle roof with fiberglass composition shingles.	Existing asphalt shingle roof is in poor condition.	Deficiency	3	\$1,639,268	BLRB Cost Estimate	See HW-EX-08. Metal roof recommended over shingle roof for greater longevity and reduced maintenance costs.	R. Thomas	A
HW-IN-03	Interior	Corridor Vinyl Wall Covering Addition	Provide additional vinyl wall covering in corridors for additional tackable display area.	Existing corridor walls have limited vinyl wall covering and tackboards present for tackable display areas. Wall carpet above lockers in classroom wings is difficult to use for tackable displays.	Enhancement	2	\$9,238	BLRB Cost Estimate		R. Thomas B. Kenworthy	A
HW-EQ-01	Equipment	Computer Furniture Upgrade	Provide furniture designed for computer and other technology equipment use.	Existing furniture used for computer and technology equipment is lacking and in many cases not designed for this use.	Deficiency	3	\$12,139	ASD Cost Estimate		R. Luke	A
HW-EQ-04	Equipment	Kitchen Equipment Improvements	Provide a combi oven and replace convection oven.	Food service program needs a combi oven and the existing convection oven is past its expected life.	Deficiency	2	\$84,526	BLRB Cost Estimate		E. Boutin S. Colburn	A
HW-EQ-07	Equipment	Staff Furniture Upgrade	Replace staff furniture in classrooms, library and offices.	Existing staff furniture is wearing out and portions do not meet district's minimum standards.	Deficiency	2	\$27,245	ASD Cost Estimate		B. Kenworthy	A
HW-EQ-09	Equipment	Window Covering Upgrade	Replace fabric curtains at exterior windows with coated fabric or roller shades.	Existing fabric curtains at other exterior windows are worn, are not durable, and do not adequately block day light.	Deficiency	3	\$21,011	BLRB Cost Estimate		R. Thomas B. Kenworthy	A

# PROPOSED FACILITY IMPROVEMENTS

# HAZELWOOD ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
HW-ME-01 ECM-M2	Mechanical	Automatic Controls Upgrade	Upgrade the EMS control system to be BacNet compatible, web based and include new software, new field controllers, and a new front end computer. Upgrade software to include a proper dead band for the gym air handler so that the unit doesn't fluctuate from heating to cooling, and add new VAV controllers.	Control system upgrade will improve occupant comfort and reduce maintenance and energy costs.	Operating Cost	3	\$218,557	Quantum Cost Estimate	Estimated 12-year payback period.	R. Thomas Energy Consultant	A
HW-ME-02 ECM-M3	Mechanical	CO2 Control Addition - Gym & Library	Expand the control system to add CO2 control to the main air handling systems serving the gym, library and foyer.	CO2 control will regulate the amount of outside air being delivered to the occupied spaces based on CO2 levels and reduce energy usage.	Operating Cost	1	\$15,428	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant	A
HW-ME-03 ECM-M14	Mechanical	Gym Diffuser Replacement	Replace diffusers in gym with a product that will improve airflow and reduce stratification.	Diffuser replacement will improve occupant comfort and reduce energy costs.	Operating Cost	2	\$12,857	Quantum Cost Estimate	Estimated 8-year payback period.	Energy Consultant	A
HW-ME-04 ECM-M7	Mechanical	Heat Pump Replacement - Boilers	Replace heat pumps with new boilers.	Existing heat pumps are in poor condition, require frequent and expensive service, and do not have adequate capacity to keep all areas of school at set point temperatures on extreme cold days.	Operating Cost	3	\$642,813	Quantum Cost Estimate	Long-term payback period.	R. Thomas M. Newman Energy Consultant	A
HW-ME-06 ECM-M10	Mechanical	Hot Water Heater Replacement	Replace the electric hot water heaters with new heat pump water heaters.	Water heater replacement will reduce energy costs.	Operating Cost	2	\$102,850	Quantum Cost Estimate	Estimated 7-year payback.	Energy Consultant	A
HW-ME-08 ECM-M1	Mechanical	HVAC Control System Commissioning	Commission the HVAC control system to verify proper operation.	Commissioning will improve system operation and efficiency.	Operating Cost	1	\$64,282	Quantum Cost Estimate	Estimated 2-year payback period.	Energy Consultant R. Thomas	A
HW-ME-09 ECM-M12	Mechanical	Kitchen Hood Air Flow Modification	Modify the kitchen hood and make-up airflow to properly size the airflow requirements of the hood.	Airflow modifications will reduce energy costs.	Operating Cost	1	\$5,143	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant	A
HW-ME-10 ECM-M11	Mechanical	Kitchen Hood Interlock Modification	Modify the interlock between the makeup air handler and kitchen hood to disable the interlock when the hood is off.	Interlock modification will reduce energy costs.	Operating Cost	2	\$2,572	Quantum Cost Estimate	Estimated 6-year payback period.	Energy Consultant	A
HW-ME-12 ECM-M4	Mechanical	Occupancy Sensor Temperature Control Addition	Install occupancy sensors in gym, library and foyer to set back the spaces when they are unoccupied.	Occupancy sensors will reduce energy consumption and energy costs.	Operating Cost	1	\$20,570	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant	A
HW-ME-14 ECM-W1	Mechanical	Plumbing Fixture Replacement - Partial	Replace water closets and provide aerators for sinks.	A reduction in water use will reduce utility costs.	Operating Cost	1	\$38,570	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant	A
HW-ME-15 ECM-M5	Mechanical	VSD Addition - Gym	Provide variable speed drive on the Gym air handler.	Variable speed drive will reduce airflow during periods of low or no occupancy, as determined by the CO2 and occupancy sensors, and reduce energy costs.	Operating Cost	1	\$19,285	Quantum Cost Estimate	Estimated 5-year payback period.	Energy Consultant	A
HW-ME-16 ECM-M9	Mechanical	VSD Addition - Hot Water Pumps	Provide variable speed drives on hot water heating pumps.	Variable speed drives will reduce energy costs.	Operating Cost	2	\$12,857	Quantum Cost Estimate	Estimated 8-year payback period.	Energy Consultant	A
HW-ME-17 ECM-M6	Mechanical	VSD Addition - VAV Air Handlers	Provide variable speed drives on all VAV air handlers serving classrooms and offices, and replace inlet vanes.	Variable speed drives will reduce energy costs.	Operating Cost	2	\$57,853	Quantum Cost Estimate	Estimated 7-year payback period.	Energy Consultant	A
HW-EL-07 ECM-L2	Electrical	Exit Sign Replacement	Replace incandescent and compact fluorescent exit signs with LED exit signs.	Exit sign replacement will reduce energy consumption and energy costs.	Operating Cost	1	\$10,285	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant	A

# PROPOSED FACILITY IMPROVEMENTS

# HAZELWOOD ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
HW-EL-08 ECM-L4	Electrical	Exterior Lighting Control Upgrade	Connect exterior lighting to the EMS controls and add a photocell.	EMS control and photocell will reduce energy costs.	Operating Cost	2	\$10,285	Quantum Cost Estimate	Estimated 7-year payback period.	Energy Consultant	A
HW-EL-10 ECM-L3	Electrical	Exterior Lighting Upgrade	Replace exterior HID fixtures with compact fluorescent. Replace parking lot lights with pulse start metal halide or inductive lighting.	Light fixture replacement will reduce energy costs.	Operating Cost	2	\$19,285	Quantum Cost Estimate	Estimated 6-year payback period.	Energy Consultant	A
HW-EL-11 ECM-L5	Electrical	Gym Lighting Replacement	Replace HID fixtures in the gym with fixtures using T-8 or T-5 technology.	Light fixture replacement will reduce energy costs.	Operating Cost	2	\$25,713	Quantum Cost Estimate	Estimated 7-year payback period.	Energy Consultant	A
HW-EL-13 ECM-L1	Electrical	Interior Lighting Upgrade	Replace T-12 fixtures, magnetic ballast and incandescent fixtures with T-8, electronic ballast and compact fluorescent technology.	Light fixture replacement will reduce energy costs.	Health / Safety & Deficiency	2	\$154,275	Quantum Cost Estimate	Estimated 6-year payback period.	Energy Consultant B. Kenworthy	A
HW-EL-16 ECM-L6	Electrical	Occupancy Sensor Lighting Control Addition	Install occupancy sensor in areas with fluctuating occupancy to turn off lights when the spaces are unoccupied.	Occupancy sensors will reduce energy consumption and energy costs.	Operating Cost	2	\$25,713	Quantum Cost Estimate	Estimated 6-year payback period.	Energy Consultant	A
HW-MD-04	Modernization	Health Room Restroom Modernization	Provide larger restroom in health area that is ADA compliant.	Existing health restroom is undersized and not ADA compliant.	Deficiency	2	\$14,996	BLRB Cost Estimate		B. Kenworthy ADA Consultant	A
HW-MD-05	Modernization	Itinerant Office Addition	Provide office for itinerant staff.	Building does not have office for itinerant staff.	Deficiency	2	\$17,303	BLRB Cost Estimate		S. Colburn B. Kenworthy J. Trauffer	A
HW-MD-15	Modernization	Special Education Restroom Expansion	Provide larger restroom in special education classroom.	Existing special education restroom is not ADA compliant if a changing table is present in the room.	Deficiency	4	\$50,210	BLRB Cost Estimate		B. Kenworthy ADA Consultant	A
HW-MD-17	Modernization	Stage Access Improvement	Provide wheelchair access to stage from within building.	Existing stage not accessible by wheelchair from within building. Ramp to stage located at building exterior.	Deficiency	3	\$25,757	BLRB Cost Estimate		ADA Consultant	A
HW-SI-04	Site	Climbing Equipment Curb Addition	Provide concrete curb around perimeter of climbing equipment areas.	Existing wood curb is in fair condition.	Enhancement	3	\$36,778	BLRB Cost Estimate		R. Thomas	B
HW-SI-06	Site	Climbing Equipment Ground Surface Upgrade	Provide engineered wood fiber for ground surface at climbing equipment areas.	Existing wood chips used for ground surface are sharp and can cause slivers.	Deficiency	3	\$24,368	BLRB Cost Estimate		R. Thomas	B
HW-SI-07	Site	Climbing Equipment Additions and Upgrade	Replace wood climbing equipment and provide additional climbing equipment and associated ground surface area.	Existing wood climbing equipment is old and does not meet district's minimum standards. Climbing equipment areas are a combined 6,400 SF in size and do not meet district's minimum standard of 8,000 SF.	Deficiency	1	\$94,085	BLRB Cost Estimate		B. Kenworthy	B
HW-EQ-05	Equipment	Operable Wall Replacement	Replace operable wall at stage.	Wall panel seals have failed at operable wall.	Deficiency	3	\$27,740	BLRB Cost Estimate		R. Thomas	B
HW-EQ-06	Equipment	Projection Screen Upgrade	Provide larger projection screen in library and relocate projection screen in gym to the gym side of the operable wall at the stage.	One of the projection screens in the library is slightly undersized and the projection screen in the gym cannot be used when the operable wall at the stage is closed because screen is on the stage side of the wall.	Deficiency	4	\$10,954	BLRB Cost Estimate		B. Kenworthy	B
HW-EL-15	Electrical	Intrusion Alarm Audible Signal Upgrade	Upgrade intrusion alarm system to provide audible alarm.	Use of audible alarm could reduce intrusions and false alarms.	Enhancement	1	\$46,026	Quantum Cost Estimate		M. Newman	B

# PROPOSED FACILITY IMPROVEMENTS

# HAZELWOOD ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
HW-EL-18	Electrical	Electrical Service Transformer Replacement	Replace district owned electrical transformer with transformer owned and maintained by PSE.	Existing electrical transformer is owned and maintained by school district. This results in expensive repair costs and causes time consuming power shut downs. Monthly transformer costs charged by PSE for a PSE owned transformer would be offset by reduced maintenance costs. Shut down time and school disruptions would be reduced if transformer was owned and maintained by PSE.	Enhancement	2	\$127,791	Quantum Cost Estimate		R. Thomas	B
HW-MD-21	Modernization	Emergency and General Storage Additions	Provide emergency supply and general storage space.	See Improvement Justifications for HW-02 and 18.	Deficiency	3	\$228,796	BLRB Cost Estimate		S. Colburn B. Kenworthy N. Vein	B
HW-SI-12	Site	Outdoor Basketball Hoop Additions	Provide 2 additional basketball backboards at playshed.	Playshed has 4 basketball hoops does not meet district's minimum standards for 6 hoops.	Deficiency	4	\$13,930	BLRB Cost Estimate		B. Kenworthy	B
HW-SI-09	Site	Exterior Bench Additions	Provide 8 exterior benches at hard surface playground area.	Exterior benches not provided where needed at playground area. Masonry seat benches are uncomfortable, hold water and are rarely used.	Deficiency	3	\$23,460	BLRB Cost Estimate		R. Thomas B. Kenworthy	B+
HW-SI-10	Site	Exterior Waste Receptacle Upgrade	Provide ornamental waste receptacle at front entry and waste receptacles with push door tops at playground.	Existing exterior waste receptacles are galvanized cans without covers and are not provided at all areas where needed.	Deficiency	4	\$6,280	BLRB Cost Estimate		R. Thomas B. Kenworthy	B+
HW-SI-01	Site	ADA Site Improvements	Provide miscellaneous site improvements to comply non-mandatory ADA standards.	School was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous site areas, which do not significantly affect access to the building, could be improved to comply with current ADA standards. Site improvements needed to provide ADA required program access are identified separately.	Enhancement	3	\$78,249	BLRB Cost Estimate	Minor need and non-mandatory improvements.	ADA Consultant	C
HW-SI-03	Site	Bicycle Rack Modifications	Provide additional bike racks and relocate racks to front of school.	Existing bike racks will accommodate 10 bikes and does not meet the district's minimum standards of 24. Bike rack is located behind building and cannot be visually monitored from main office area.	Deficiency	4	\$7,698	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
HW-SI-05	Site	Climbing Equipment Area Drainage Improvements	Provide sub-drain system at climbing equipment areas.	Existing wood chip climbing equipment areas drain poorly and are saturated with water much of the school year.	Enhancement	2	\$48,455	BLRB Cost Estimate		R. Thomas	C
HW-SI-15	Site	Playfield Ramp Addition	Provide ramp from hard surface play area to grass playfield.	Ramp needed to provide wheel chair access to grass playfield.	Deficiency	2	\$6,853	BLRB Cost Estimate	Minor deficiency.	ADA Consultant	C
HW-SI-16	Site	Playground Drainage Improvements	Provide sub-drain system at grass play field.	Existing grass play field drains poorly and is saturated with water for much of the school year.	Enhancement	1	\$410,497	BLRB Cost Estimate	Not cost effective.	S. Colburn M. Newman	C
HW-SI-17	Site	Site Supervision Improvements	Remove three masonry seat walls at playground.	Masonry seat walls create blind spot and inhibit visual supervision of playground.	Deficiency	4	\$5,719	BLRB Cost Estimate	Minor deficiency.	S. Colburn	C
HW-SI-18	Site	Staff Parking Expansion	Provide additional parking stalls for staff use.	Existing staff parking lot has 51 stalls and does not comply with district's minimum standard of 60 stalls.	Deficiency	4	\$64,219	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
HW-SI-19	Site	Student Drop Off Area Improvements	Provide additional stalls for student pick up and drop off and separate from entrance and exit used by other vehicles.	Existing student pick up and drop off area is undersized at 9 stalls and 55% less than district's minimum standard. Exit location conflicts with site entrance and exit used by other vehicles which creates congestion.	Deficiency	2	\$248,768	BLRB Cost Estimate	Not cost effective considering the limited number of additional stalls that can be added.	B. Kenworthy R. Thomas	C
HW-EX-08	Exterior	Roof Upgrade - Metal	Replace shingle roof with new metal roofing.	Existing asphalt shingle roof is in poor condition.	Deficiency	3	\$2,687,637	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
HW-IN-01	Interior	ADA Building Improvements	Provide miscellaneous building improvements to comply non-mandatory ADA standards.	School was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous building areas, which do not significantly affect access within the building, could be improved to comply with current ADA standards. Improvements needed to provide ADA required program access within the building are identified separately.	Enhancement	2	\$150,083	BLRB Cost Estimate	Minor need and non-mandatory improvements.	ADA Consultant	C
HW-IN-04	Interior	Gym Floor Upgrade	Provide wood floor in gym.	Existing rubber floor is in good condition but does not meet district's recommended standard.	Enhancement	1	\$150,792	BLRB Cost Estimate	Not cost effective and existing rubber floor is adequate.	R. Thomas	C
HW-IN-07	Interior	Special Education Testing Room Improvements	Provide larger relite windows in door and add wainscot at walls in special education testing room.	Additional relite needed to improve visual supervision of room and wainscot needed to protect walls from damage.	Deficiency	4	\$4,459	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
HW-EQ-02	Equipment	Fiber Optic Connection Addition	Provide data communications equipment to accommodate installation of a leased fiber optic circuit.	Equipment needed when school upgrades its internet connection with a fiber optic circuit leased from Qwest.	Enhancement	2	\$11,410	ASD Cost Estimate	Minor need.	N. Vein	C
HW-EQ-08	Equipment	Staff Lounge Equipment Replacement	Replace refrigerator and microwave oven in staff lounge.	Existing refrigerator and microwave oven are in poor condition.	Deficiency	1	\$1,127	ASD Cost Estimate	Minor deficiency.	S. Colburn	C
HW-EQ-09	Equipment	Wireless Computer Station Additions	Provide wireless computer equipment and workstation furniture for use at front of each classroom.	Wireless computer equipment will allow teachers to use ceiling mounted LCD projectors from work station and front of classroom in lieu of adding power and data outlets in floor at much higher cost.	Enhancement	1	NA	No Cost Estimate	Obtained with Technology Levy funds.	R. Luke M. Newman	C
HW-ME-05 ECM-M8	Mechanical	Heat Pump Replacement - Ground Source Heat Pumps	Replace heat pumps with a new ground source heat pump system.	Existing heat pumps are in poor condition, require frequent and expensive service, and do not have adequate capacity to keep all areas of school at set point temperatures on extreme cold days.	Operating Cost	3	\$1,285,625	Quantum Cost Estimate	Not cost effective because of estimated 25-year payback period.	Energy Consultant	C
HW-ME-07	Mechanical	Fire Sprinkler System Bracing	Provide additional seismic bracing to existing fire sprinkler system in compliance with FM Global standards.	Additional bracing will reduce risk of broken fire sprinkler lines during an earthquake.	Enhancement	3	\$102,850	Quantum Cost Estimate	Minor need.	M. Newman	C
HW-ME-11	Mechanical	Natural Gas System Metering	Provide electronic meter for natural gas system connected to energy management system.	Electronic meter will allow remote monitoring of gas service and improve potential for reducing natural gas use.	Operating Cost	2	\$22,370	Quantum Cost Estimate	Minor need at elementary school and long-term payback period.	R. Thomas	C
HW-ME-13 ECM-M15	Mechanical	Fire Sprinkler System Upgrade	Replace the wet sprinkler system in the exterior soffits with a dry fire sprinkler system.	Existing wet system in soffits requires frequent repairs, is damaged by freezing temperatures, and must be shut off at times during cold weather.	Operating Cost	3	\$385,688	Quantum Cost Estimate	Long-term payback period.	Energy Consultant	C

# PROPOSED FACILITY IMPROVEMENTS

# HAZELWOOD ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
HW-EL-01	Electrical	Ceiling Mounted LCD Projector Addition	Provide ceiling mounted LCD projector and associated AV and power outlets in each classroom with connection to teacher's work station.	Ceiling mounted projectors desired for ease of use, to reduce theft, and to protect equipment and cables from damage.	Enhancement	2	\$594,988	Quantum Cost Estimate	Not cost effective.	R. Luke R. Thomas M. Newman	C
HW-EL-02	Electrical	Data Communications Equipment Upgrade	Upgrade data communications equipment filter, router, switch, traffic shaping and connectivity speed.	Existing filter, router, switch, traffic shaping and connectivity speed do not meet district's minimum standards.	Deficiency	2	\$119,901	ASD Cost Estimate	Minor deficiency.	N. Vien	C
HW-EL-03	Electrical	Data Outlet Addition at Teacher's Work Station	Provide data outlets for computers and AV equipment at teacher's work station in each classroom.	Classrooms do not have AV outlets at teacher's work station and do not have floor box with data outlets at front of classroom.	Enhancement	2	\$320,892	Quantum Cost Estimate	Not cost effective. See HW-EQ-10 for an alternate approach using wireless work station.	R. Luke M. Newman	C
HW-EL-05	Electrical	Electrical Outlet Addition at Library	Provide additional electrical outlets at computer area in library.	Computer area in library does not have a separate electrical outlet for each computer as identified in the district's minimum standards.	Deficiency	2	\$12,342	Quantum Cost Estimate	Minor deficiency.	B. Kenworthy	C
HW-EL-06	Electrical	Electrical Service Metering	Provide electronic meter for electrical service connected to energy management system.	Electronic meter will allow remote monitoring of electrical service and improve potential for reducing electrical use.	Operating Cost	2	\$24,941	Quantum Cost Estimate	Minor need at elementary school and long-term payback period.	R. Thomas	C
HW-EL-09	Electrical	Exterior Lighting Level Improvements	Provide additional illumination at bus area, delivery area, pathways, and parking lots.	Existing lighting at exterior areas lack adequate illumination levels and is below district's minimum standards.	Health / Safety & Deficiency	2	\$126,506	Quantum Cost Estimate	Minor deficiency.	B. Kenworthy	C
HW-EL-12	Electrical	Interior Lighting Level Improvements	Provide additional illumination at classrooms, corridors, emergency lighting, and support spaces.	Existing lighting at interior areas lacks adequate illumination levels except at gym and does not meet the district's minimum standards.	Health / Safety & Deficiency	2	\$128,563	Quantum Cost Estimate	Improvements included in HW-EL-11.	B. Kenworthy	C
HW-EL-17	Electrical	Surveillance Camera Addition	Provide surveillance camera system to monitor parking lots and areas around building.	Surveillance cameras could reduce vandalism and theft around building.	Enhancement	3	\$107,993	Quantum Cost Estimate	Minor need.	M. Newman	C
HW-MD-07	Modernization	Library Natural Daylight Improvements	Provide daylight at Library.	Library does not have exterior windows or skylight for natural daylight.	Deficiency	2	\$37,755	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
HW-MD-08	Modernization	Mechanical Attic Access Improvement	Provide fixed stairs to mechanical attics.	Existing pull down stairs to mechanical attic are difficult to open and close. Stairs are located in storage rooms and interfere with stored items when pulled down.	Deficiency	3	\$9,775	BLRB Cost Estimate	Minor deficiency.	S. Colburn	C
HW-MD-12	Modernization	Pre-School Classroom Addition	Provide pre-school classrooms with restroom and changing table.	Building does not have classrooms with restroom and changing table for preschool classes.	Deficiency	4	\$178,519	BLRB Cost Estimate	Minor deficiency and not cost effective.	B. Kenworthy	C
HW-MD-13	Modernization	Resource Room Improvement	Provide restroom with a changing table in the resource room.	Resource room does not have a restroom or changing table but does have students who need these facilities.	Deficiency	2	\$159,526	BLRB Cost Estimate	Not cost effective.	S. Colburn	C
HW-MD-14	Modernization	Small Conference Room Addition	Provide small conference room.	Building does not have a small conference room.	Deficiency	4	\$9,061	BLRB Cost Estimate	Minor deficiency.	S. Colburn B. Kenworthy	C
HW-MD-16	Modernization	Staff Restroom Modernization	Provide larger and additional staff restrooms.	Building has only one men's and one women's staff restrooms. These restrooms are undersized, not ADA compliant, have only a single toilet fixture in women's restroom, and are not located in each classroom wing.	Health / Safety & Deficiency	4	\$150,967	BLRB Cost Estimate	Minor deficiency and not cost effective.	S. Colburn B. Kenworthy ADA Consultant	C

# PROPOSED FACILITY IMPROVEMENTS

# HAZELWOOD ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
HW-MD-20	Modernization	Audio Visual / Telecommunications Room Modernization & Additions	Modernize and expand audio visual room and telecommunications room.	See Improvement Justifications for HW-01 and 19.	Deficiency	2	\$43,071	BLRB Cost Estimate	Minor deficiency.	S. Colburn B. Kenworthy N. Vein	C
HW-SI-14	Site	Pipe Rail Gate Improvement	Provide reflective tape on pipe rail vehicle gates.	Existing pipe rail gates do not have reflective tape and can be difficult to see at night.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Kenworthy	NA
HW-EX-03	Exterior	Exterior Window Upgrade	Replace dual glazed exterior windows with dual glazing and integral blinds.	Integral blinds will reduce damage to and maintenance of window blinds.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency and not cost effective.	R. Thomas	NA
HW-EX-04	Exterior	Exterior Painting Application	Paint areas of exterior wood and metal.	Areas of exterior paint are in good condition.	Enhancement	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Thomas	NA
HW-IN-02	Interior	Cabinet Lock Upgrade	Replace cabinet locks with lock cylinders keyed to the building master key system.	Existing cabinet locks use custom casework keys that inconvenient to use and replace.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency and not cost effective.	B. Kenworthy	NA
HW-IN-05	Interior	Interior Painting Application	Paint building interior.	Existing interior paint is in good condition.	Enhancement	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Thomas	NA
HW-IN-06	Interior	Restroom Wall Upgrade	Provide taller wainscot in restrooms.	Existing wainscot in restrooms is 5' high and does not meet district's minimum standard of 7' high.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency.	B. Kenworthy	NA
HW-EQ-03	Equipment	Instructional Equipment Upgrade	Replace TV/DVD/VCR in library.	TV/DVD/VCR over 10 years old and past life expectancy.	Deficiency	NA	NA	ASD Cost Estimate	Obtained with Technology Levy funds.	R. Luke	NA
HW-EL-04	Electrical	Data Outlet Addition at Classrooms	Provide one more data outlets in each classroom for student use.	Classrooms have 5 data outlets for student use and 6 are required by district's minimum standards.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency. Outlets can be added by district using splitter and existing data wiring.	B. Kenworthy	NA
HW-EL-14	Electrical	Internet Connection Upgrade	Increase bandwidth of school's internet connection.	Increased bandwidth desired to provide long-term and efficient access for information technology via the internet.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency. Existing internet connection meets district's minimum standard.	R. Luke	NA
HW-MD-01	Modernization	AV Storage Modification	Modify AV storage room to provide additional storage area.	Existing AV storage room is also used as the telecommunications MC room which results in inadequate storage area for AV items.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in HW-MD-20.	B. Kenworthy	NA
HW-MD-02	Modernization	Emergency Storage Room Addition	Provide space within building for storage of emergency supplies.	Building does not have space for storage of emergency supplies. Existing supplies were kept in exterior storage container until vandalized.	Deficiency	4	NA	BLRB Cost Estimate	Costs included in HW-MD-21.	M. Weibel B. Kenworthy R. Thomas	NA
HW-MD-03	Modernization	Front Entry Supervision Modifications	Provide modifications at main office area for visual surveillance of front entry.	Front entry not visible from main office.	Deficiency	2	NA	No Cost Estimate	Minor deficiency and not feasible because of location of main office area.	B. Kenworthy	NA
HW-MD-06	Modernization	Kitchen Serving Area Expansion	Increase width of corridor that is used for serving area.	Corridor serving area is 12' wide and 2' less than district's minimum standard.	Deficiency	NA	NA	No Cost Estimate	Not cost effective because of space limitations and adverse impact on adjacent spaces.	B. Kenworthy	NA

# PROPOSED FACILITY IMPROVEMENTS

# HAZELWOOD ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
HW-MD-09	Modernization	Mechanical Room Modifications	Provide additional space and improve door access to main mechanical room.	Main mechanical room is undersized for the type and amount of equipment present, does not have direct access to exterior, and does not have a double door to accommodate the removal of equipment.	Deficiency	NA	NA	No Cost Estimate	Not cost effective because of space limitations and adverse impact on adjacent spaces.	B. Kenworthy	NA
HW-MD-10	Modernization	Nurse's Office Expansion	Provide large nurse's office.	Existing nurse's office undersized by 25 SF and 21% smaller than the district's minimum standards.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency.	B. Kenworthy	NA
HW-MD-11	Modernization	PE Equipment Storage Expansion	Provide larger storage room for PE equipment.	Existing PE storage room is undersized by 30 SF and is 10% smaller than district's minimum standards.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency.	B. Kenworthy	NA
HW-MD-18	Modernization	Storage Space Addition	Provide additional space for storage for general and miscellaneous equipment and supplies.	General storage room is undersized and building does not have a storage space for miscellaneous equipment and supplies.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in HW-MD-21.	S. Colburn B. Kenworthy	NA
HW-MD-19	Modernization	Telecommunication Rooms Modernization	Provide dedicated MC and HC rooms each with independent mechanical ventilation and cooling systems.	Existing HC and MC rooms are undersized, lack independent HVAC systems, and the MC room is used as storage rooms.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in HW-MD-20.	S. Colburn B. Kenworthy N. Vein	NA



# PROPOSED FACILITY IMPROVEMENTS

# ILALKO ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
IL-SI-01	Site	Accessible Parking Stall Additions	Change 3 standard parking stalls to 2 handicap stalls and one van accessible stall. Add signage designating handicap parking stalls.	Three additional handicap parking stalls and associated signage needed to comply with ADA.	Deficiency	4	\$2,285	BLRB Cost Estimate		ADA Consultant	A
IL-SI-07	Site	Curb Ramp Additions	Provide curb ramps at sidewalks at east and west entry drives, and west cul de sac.	Curb cuts needed to provide wheelchair access to site and to comply with ADA.	Deficiency	4	\$9,138	BLRB Cost Estimate		ADA Consultant	A
IL-SI-10 ECM-W2	Site	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station and add a rain gauge.	Connection to the EMS and the addition of a rain gauge will reduce water consumption and utility costs.	Operating Cost	1	\$5,143	Quantum Cost Estimate	Estimated 3-year payback period.	Energy Consultant R. Thomas	A
IL-SI-14	Site	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars, directional arrows, and bus stall numbers. Repaint other pavement lines.	Thermo-plastics markings are needed in critical locations because existing painted markings quickly wear out. Other existing pavement lines are faded and need repainting.	Deficiency	4	\$2,285	BLRB Cost Estimate		R. Thomas B. Kenworthy	A
IL-EX-01	Exterior	Automatic Door Opener Addition	Provide automatic door opener at front entry doors.	Building does not have automatic door opener at main entry doors.	Enhancement	2	\$13,440	BLRB Cost Estimate		J. Trauffer	A
IL-EX-02	Exterior	Exterior Door Hardware Upgrade	Replace exterior door lock cylinders with Primus cylinders.	Primus lock cylinders will improve building security.	Enhancement	3	\$12,866	BLRB Cost Estimate		R. Thomas	A
IL-EX-05	Exterior	Masonry Water Repellant Application	Provide application of water repellant at exterior masonry.	Existing masonry lacks a water repellant coating to protect against moisture penetration.	Deficiency	2	\$84,920	BLRB Cost Estimate		R. Thomas	A
IL-EX-06	Exterior	Roof Fall Arrest Anchors Addition	Provide fall arrest system at roof.	Pitched roofs do not have fall arrest safety system.	Health / Safety	4	\$161,898	BLRB Cost Estimate		R. Thomas	A
IL-EX-08	Exterior	Roof Upgrade - Shingles	Replace shingle roof with new fiberglass composition shingles.	Existing asphalt shingle roof is in poor condition.	Deficiency	4	\$1,725,393	BLRB Cost Estimate		R. Thomas	A
IL-IN-03	Interior	Corridor Vinyl Wall Covering Addition	Provide additional vinyl wall covering in corridors for additional tackable display area.	Existing corridor walls have some vinyl wall covering for display areas. Wall carpet above lockers in classroom wings is difficult to use for tackable displays.	Enhancement	4	\$8,391	BLRB Cost Estimate		R. Thomas B. Kenworthy	A
IL-IN-06	Interior	Public Restroom Grab Bar Additions	Provide ADA compliant grab bars at public restrooms 114 and 115.	Grab bars needed to assist disabled and to comply with ADA.	Deficiency	4	\$733	BLRB Cost Estimate		ADA Consultant	A
IL-IN-07	Interior	Staff Restroom Improvements	Modify toilet partitions to provide ADA clearances and add ADA compliant grab bars at staff restrooms 131 and 132.	Toilet partition modifications and grab bars needed to comply with ADA.	Deficiency	4	\$9,287	BLRB Cost Estimate		ADA Consultant	A
IL-IN-08	Interior	Student Restroom Grab Bar Additions	Provide ADA compliant grab bars at student restrooms 308, 309, 407 and 408.	Grab bars needed to assist disabled and to comply with ADA.	Deficiency	3	\$1,467	BLRB Cost Estimate		ADA Consultant	A
IL-EQ-03	Equipment	Kitchen Equipment Improvements	Provide a combi oven and replace convection oven.	Food service program needs a combi oven and the existing convection oven is past its expected life.	Deficiency	3	\$84,526	BLRB Cost Estimate		E. Boutin	A
IL-ME-01 ECM-M2	Mechanical	Automatic Controls Upgrade	Upgrade control system front end and software to the district standard - BacNet compatible, web based.	BACnet controls will reduce EMS maintenance and service costs.	Operating Cost	2	\$38,570	Quantum Cost Estimate	Estimated 10-year payback period.	R. Thomas Energy Consultant	A

# PROPOSED FACILITY IMPROVEMENTS

# ILALKO ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
IL-ME-02 ECM-M3	Mechanical	CO2 Control Addition	Expand Barber Coleman control system to add CO2 control to the main air handling systems in the gym and library.	CO2 control will regulate the amount of outside air being delivered to the occupied spaces based on CO2 levels and reduce energy usage.	Operating Cost	1	\$15,428	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant	A
IL-ME-04 ECM-M1	Mechanical	HVAC Control System Commissioning	Commission the HVAC control system to verify proper operation.	Commissioning will improve system operation and efficiency.	Operating Cost	1	\$38,570	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant R. Thomas	A
IL-ME-06 ECM-M5	Mechanical	Occupancy Sensor Temperature Control Addition - Classrooms	Install occupancy sensors in classrooms to set back the spaces when they are unoccupied.	Occupancy sensors will reduce energy consumption and energy costs.	Operating Cost	2	\$56,568	Quantum Cost Estimate	Estimated 8-year payback period.	Energy Consultant	A
IL-ME-08 ECM-M4	Mechanical	Occupancy Sensor Temperature Control Addition - Gym & Library	Install occupancy sensors in gym and library to set back the spaces when they are unoccupied.	Occupancy sensors will reduce energy consumption and energy costs.	Operating Cost	2	\$10,285	Quantum Cost Estimate	Estimated 7-year payback period.	Energy Consultant	A
IL-ME-09 ECM-M6	Mechanical	VSD Addition - Classrooms	Provide variable speed drive on air handler serving classrooms and replace inlet vanes.	Variable speed drive will reduce airflow during periods of low or no occupancy and reduce energy costs.	Operating Cost	2	\$38,570	Quantum Cost Estimate	Estimated 6-year payback period.	Energy Consultant	A
IL-ME-10 ECM-W1	Mechanical	Plumbing Fixture Replacement - Partial	Replace water closets and provide aerators for sinks.	A reduction in water use will reduce utility costs.	Operating Cost	1	\$38,570	Quantum Cost Estimate	Estimated 5-year payback period.	Energy Consultant	A
IL-EL-05 ECM-L3	Electrical	Daylighting Control Addition	Add day lighting control to the fixtures in areas where sufficient ambient light is available.	Daylight controls will reduce lighting where sufficient ambient light is available and reduce energy costs.	Operating Cost	2	\$12,857	Quantum Cost Estimate	Estimated 7-year payback period.	Energy Consultant	A
IL-EL-09 ECM-L1	Electrical	Interior Lighting Upgrade	Replace T-12 fixtures, magnetic ballast and incandescent fixtures with T-8, electronic ballast and compact fluorescent technology.	Light fixture replacement will reduce energy costs.	Operating Cost	1	\$38,570	Quantum Cost Estimate	Estimated 7-year payback period.	Energy Consultant B. Kenworthy	A
IL-EL-12 ECM-L2	Electrical	Occupancy Sensor Lighting Control Addition	Install occupancy sensor in areas with fluctuating occupancy to turn off lights when the spaces are unoccupied.	Occupancy sensors will reduce energy consumption and energy costs.	Operating Cost	2	\$12,857	Quantum Cost Estimate	Estimated 7-year payback period.	Energy Consultant	A
IL-EL-11	Electrical	Intrusion Alarm Audible Signal Upgrade	Upgrade intrusion alarm system to provide audible alarm.	Use of audible alarm could reduce intrusions and false alarms.	Enhancement	3	\$46,026	Quantum Cost Estimate		M. Newman	B
IL-SI-08	Site	Exterior Bench Additions	Provide 8 exterior benches at hard surface playground area.	Exterior benches not provided where needed at playground area. Masonry seat benches are uncomfortable, hold water and are rarely used.	Deficiency	4	\$23,460	BLRB Cost Estimate		A. Couch R. Thomas B. Kenworthy	B+
IL-SI-09	Site	Exterior Waste Receptacle Upgrade	Provide ornamental waste receptacle at front entry and waste receptacles with push door tops at playground and bus loading area.	Existing exterior waste receptacles are galvanized cans without covers and are not provided at all areas where needed.	Deficiency	4	\$6,280	BLRB Cost Estimate		R. Thomas B. Kenworthy	B+
IL-SI-02	Site	ADA Site Improvements	Provide miscellaneous site improvements to comply non-mandatory ADA standards.	School was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous site areas, which do not significantly affect access to the building, could be improved to comply with current ADA standards. Site improvements needed to provide ADA required program access are identified separately.	Enhancement	4	\$98,129	BLRB Cost Estimate	Minor need and non-mandatory improvements.	ADA Consultant	C
IL-SI-03	Site	Bicycle Rack Addition	Provide bike rack.	School does not have bike rack and does not meet district's minimum standard for a rack for 12 bikes.	Deficiency	4	\$2,933	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C

# PROPOSED FACILITY IMPROVEMENTS

# ILALKO ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
IL-SI-04	Site	Climbing Equipment Curb Addition	Provide concrete curb around perimeter of climbing equipment areas.	Existing wood curb is in fair condition.	Enhancement	4	\$51,570	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
IL-SI-05	Site	Climbing Equipment Area Drainage Improvements	Provide sub-drain system at climbing equipment areas.	Existing wood chip climbing equipment areas drain poorly and are saturated with water much of the school year.	Enhancement	1	\$61,107	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
IL-SI-06	Site	Climbing Equipment Ground Surface Upgrade	Provide engineered wood fiber for ground surface at climbing equipment areas.	Existing wood chips used for ground surface are sharp and can cause slivers.	Deficiency	1	\$43,347	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
IL-SI-11	Site	Long Jump Addition	Provide long jump pit and runway.	School does not have a long jump to use for PE and track practice.	Deficiency	4	\$14,149	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
IL-SI-12	Site	Pickle Ball Court Addition	Provide striping and net posts for one additional pickle ball court at hard surface play area.	School has one pickle ball court and district's minimum standards identify two courts.	Deficiency	4	\$6,110	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
IL-SI-13	Site	Outdoor Basketball Hoop Additions	Provide 2 additional basketball backboards at playshed.	Playshed has 4 basketball hoops does not meet district's minimum standards for 6 hoops.	Deficiency	4	\$13,930	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
IL-SI-16	Site	Site Supervision Improvements	Remove 4 masonry seat walls at playground.	Masonry seat walls create blind spot and inhibit visual supervision of playground.	Deficiency	4	\$8,690	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
IL-SI-19	Site	Playground Drainage Improvements	Provide sub-drain system at grass play field.	Existing grass play field drains poorly and is saturated with water for much of the school year.	Enhancement	2	\$448,389	ASD Cost Estimate	Not cost effective.	A. Couch	C
IL-EX-07	Exterior	Roof Upgrade - Metal	Replace shingle roof with metal roofing.	Existing asphalt shingle roof is in poor condition.	Deficiency	3	\$2,828,841	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
IL-IN-01	Interior	ADA Building Improvements	Provide miscellaneous building improvements to comply non-mandatory ADA standards.	School was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous building areas, which do not significantly affect building access could be improved to comply with current standards.	Enhancement	4	\$437,089	BLRB Cost Estimate	Minor need and non-mandatory improvements.	ADA Consultant	C
IL-IN-04	Interior	Gym Floor Upgrade	Resurface rubber floor or provide wood floor in gym.	Existing rubber floor is in good condition but does not meet district's recommended standard.	Enhancement	1	\$139,602	BLRB Cost Estimate	Minor need and existing rubber floor is adequate.	R. Thomas	C
IL-IN-09	Interior	Walk Off Mat Upgrade	Provide larger walk off mats at building entrances.	Larger mats will improve dirt control and reduce maintenance and carpet wear.	Enhancement	3	\$29,033	BLRB Cost Estimate	Not cost effective until carpeting in building is replaced.	R. Thomas	C
IL-EQ-02	Equipment	Fiber Optic Connection Addition	Provide data communications equipment to accommodate installation of a leased fiber optic circuit.	Equipment needed when school upgrades its internet connection with a fiber optic circuit leased from Qwest.	Enhancement	3	\$11,410	ASD Cost Estimate	Minor need.	N. Vein	C
IL-EQ-05	Equipment	Wireless Computer Station Additions	Provide wireless computer equipment and workstation furniture for use at front of each classroom.	Wireless computer equipment will allow teachers to use ceiling mounted LCD projectors from work station and front of classroom in lieu of adding power and data outlets in floor at much higher cost.	Enhancement	1	NA	No Cost Estimate	Obtained with Technology Levy funds.	R. Luke M. Newman	C
IL-ME-03	Mechanical	Fire Sprinkler System Bracing	Provide additional seismic bracing to existing fire sprinkler system in compliance with FM Global standards.	Additional bracing will reduce risk of broken fire sprinkler lines during an earthquake.	Enhancement	3	\$102,850	Quantum Cost Estimate	Minor need.	M. Newman	C

# PROPOSED FACILITY IMPROVEMENTS

# ILALKO ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008	Status	Comments	Proposed By	Steering Comm. Rank
							Estimated Project Cost				
IL-ME-05	Mechanical	Natural Gas System Metering	Provide electronic meter for natural gas system connected to energy management system.	Electronic meter will allow remote monitoring of gas service and improve potential for reducing natural gas use.	Operating Cost	3	\$22,884	Quantum Cost Estimate	Minor need at elementary school and long-term payback period.	R. Thomas	C
IL-EL-01	Electrical	Ceiling Mounted LCD Projector Addition	Provide ceiling mounted LCD projector and associated AV and power outlets in each classroom with connection to teacher's work station.	Ceiling mounted projectors desired for ease of use, to reduce theft, and to protect equipment and cables from damage.	Enhancement	1	\$640,756	Quantum Cost Estimate	Not cost effective.	R. Luke R. Thomas M. Newman	C
IL-EL-02	Electrical	Data Communications Equipment Upgrade	Upgrade data communications equipment filter, router, switch, traffic shaping and connectivity speed.	Existing filter, router, switch, traffic shaping and connectivity speed do not meet district's minimum standards.	Deficiency	3	\$112,209	ASD Cost Estimate	Minor deficiency.	N. Vien	C
IL-EL-03	Electrical	Data Outlet Addition at Teacher's Work Station	Provide data outlets for computers and AV equipment at teacher's work station in each classroom.	Classrooms do not have AV outlets at teacher's work station and do not have floor box with data outlets at front of classroom.	Enhancement	2	\$345,576	Quantum Cost Estimate	Not cost effective. See IL-EQ-05 for an alternate approach using wireless work station.	R. Luke M. Newman	C
IL-EL-06	Electrical	Electrical Service Metering	Provide electronic meter for electrical service connected to energy management system.	Electronic meter will allow remote monitoring of electrical service and improve potential for reducing electrical use.	Operating Cost	4	\$24,941	Quantum Cost Estimate	Minor need at elementary school and long-term payback period.	R. Thomas	C
IL-EL-07	Electrical	Exterior Lighting Level Improvements	Provide additional illumination at bus area, delivery area, pathways, and parking lots.	Existing lighting at bus area, delivery area, pathways and parking lots lacks adequate illumination levels and is below district's minimum standards.	Health / Safety & Deficiency	3	\$126,506	Quantum Cost Estimate	Minor deficiency.	B. Kenworthy	C
IL-EL-08	Electrical	Kitchen Work Desk Electrical Additions	Provide outlets for electrical power, data, telephone and POS at work desk in kitchen.	Power, data, telephone and POS outlets needed at work desk to allow kitchen manager to perform office duties from the kitchen workstation.	Deficiency	4	\$5,086	Quantum Cost Estimate		E. Boutin	C
IL-EL-13	Electrical	Surveillance Camera Addition	Provide surveillance camera system to monitor parking lots and areas around building.	Surveillance cameras could reduce vandalism and theft around building.	Enhancement	4	\$107,993	Quantum Cost Estimate	Minor deficiency.	M. Newman	C
IL-MD-07	Modernization	Library Natural Daylight Improvements	Provide daylight at Library.	Library does not have exterior windows or skylight for natural daylight.	Deficiency	2	\$37,755	ASD Cost Estimate	Minor deficiency.	A. Couch B. Kenworthy	C
IL-MD-11	Modernization	Pre-School Classroom Addition	Provide pre-school classrooms with restroom and changing table.	Building does not have classrooms with restroom and changing table for preschool classes.	Deficiency	4	\$176,027	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
IL-MD-13	Modernization	Telecommunication Room Modernization	Provide dedicated MC with independent mechanical ventilation and cooling systems.	Existing MC room is undersized, lacks independent HVAC systems, and is used as storage room.	Deficiency	3	NA	BLRB Cost Estimate	Minor deficiency. Costs included in IL-MD-14.	B. Kenworthy N. Vein R. Thomas	C
IL-MD-14	Modernization	AV Storage / Telecommunications Modernizations	Provide dedicated AV storage room and convert existing AV storage room to a dedicated telecommunications rooms.	See Improvement Justifications for IL-MD-01 and 13.	Deficiency	3	\$61,436	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy N. Vein R. Thomas	C
IL-MD-15	Modernization	Health Area / Main Office / Storage Modernizations & Additions	Provide emergency storage room, itinerant office, and small conference room. Modernize and expand health restroom, main office area, nurse's office and PE storage.	See Improvement Justifications for IL-MD-02, 04, 05, 08, 09, 10 and 12.	Deficiency	2	\$546,052	BLRB Cost Estimate	Not cost effective.	A. Couch B. Kenworthy ADA Consultant	C
IL-SI-15	Site	Pipe Rail Gate Improvement	Provide reflective tape on pipe rail vehicle gates.	Existing pipe rail gates do not have reflective tape and can be difficult to see at night.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Kenworthy	NA

# PROPOSED FACILITY IMPROVEMENTS

# ILALCO ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
IL-SI-17	Site	Student Drop Off Area Improvements	Provide additional stalls for student pick up and drop off and separate from entrance and exit used by other vehicles.	Existing student pick up and drop off area is undersized at 12 stalls and 40% less than district's minimum standard. Exit location conflicts with site entrance and exit used by other vehicles which creates congestion.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency because parents are able to safely use staff and visitor parking lot to drop off and pick up students.	B. Kenworthy R. Thomas	NA
IL-SI-18	Site	Landscape Plant Additions	Provide trees and additional shrubs along street frontage at A St. SE.	Existing landscape plants at street frontage along A St. SE do not meet City of Auburn or school district standards for plant type and quantity.	Enhancement	NA	NA	No Cost Estimate	Maintenance item.	R. Thomas	NA
IL-EX-03	Exterior	Exterior Window Upgrade	Replace dual glazed exterior windows with dual glazing and integral blinds.	Integral blinds will reduce damage to and maintenance of window blinds.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency and not cost effective.	R. Thomas	NA
IL-EX-04	Exterior	Exterior Painting	Paint areas of exterior wood and metal.	Areas of exterior paint are in good condition except at playshed ceiling and soffits which are stained with mold.	Deficiency	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Thomas	NA
IL-IN-02	Interior	Cabinet Lock Upgrade	Replace cabinet locks with lock cylinders keyed to the building master key system.	Existing cabinet locks use custom casework keys that inconvenient to use and replace.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency.	B. Kenworthy	NA
IL-IN-05	Interior	Interior Painting	Paint building interior.	Existing interior paint is in good condition.	Enhancement	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Thomas	NA
IL-EQ-01	Equipment	Computer Furniture Upgrade	Provide furniture designed for computer and other technology equipment use.	Existing furniture used for computer and technology equipment is lacking and in many cases not designed for this use.	Deficiency	2	NA	No Cost Estimate	Existing computer furniture is adequate.	R. Luke	NA
IL-EQ-04	Equipment	Office Equipment Upgrade	Replace copy machine in workroom.	Copier over 10 years old and past life expectancy.	Deficiency	NA	NA	No Cost Estimate	Obtained as leased equipment.	R. Luke	NA
IL-ME-07 ECM-M5	Mechanical	Occupancy Sensor Temperature Control Addition - Classrooms	Install occupancy sensors in classrooms to set back the spaces when they are unoccupied.	Occupancy sensors will reduce energy consumption and energy costs.	Operating Cost	2	NA	Quantum Cost Estimate	Costs included in IL-ME-06.	Energy Consultant	NA
IL-EL-04	Electrical	Data Outlet Addition at Classrooms	Provide one more data outlets in each classroom for student use.	Classrooms have 5 data outlets for student use and 6 are required by district's minimum standards.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency. Outlets can be added by district using splitter and existing data wiring.	B. Kenworthy	NA
IL-EL-10	Electrical	Internet Connection Upgrade	Increase bandwidth of school's internet connection.	Increased bandwidth desired to provide long-term and efficient access for information technology via the internet.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency. Existing internet connection meets district's minimum standard.	R. Luke	NA
IL-EL-14	Electrical	Television Outlet Addition	Provide cable television outlet in conference room.	Cable television outlet desired in conference room for use during meetings.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency. The location of existing TV outlets in school meets district's standards.	A. Couch	NA
IL-EL-15	Electrical	Exterior Lighting Control Improvements	Modify control of exterior lighting coordinate with daylight and appropriate shut off times.	Existing exterior lighting controls do not turn on and shut off lights at appropriate times.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	A. Couch	NA
IL-MD-01	Modernization	AV Storage Modification	Modify AV storage room to provide additional storage area.	Existing AV storage room is also used as the telecommunications MC room which results in inadequate storage area for AV items.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in IL-MD-14.	B. Kenworthy	NA

# PROPOSED FACILITY IMPROVEMENTS

# ILALKO ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
IL-MD-02	Modernization	Emergency Storage Room Addition	Provide space within building for storage of emergency supplies.	Building does not have space for storage of emergency supplies. Existing supplies were kept in exterior storage container until vandalized.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in IL-MD-15.	A. Couch B. Kenworthy R. Thomas	NA
IL-MD-03	Modernization	Front Entry Supervision Modifications	Provide modifications at main office area for visual surveillance of front entry.	Front entry not visible from main office.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency and not feasible because of location of main office area.	B. Kenworthy	NA
IL-MD-04	Modernization	Health Room Restroom Expansion	Provide larger restroom in health area and provide grab bars.	Existing health restroom is slightly undersized and does not provide ADA required clearances and grab bars.	Deficiency	4	NA	BLRB Cost Estimate	Costs included in IL-MD-15.	B. Kenworthy	NA
IL-MD-05	Modernization	Itinerant Office Addition	Provide office for itinerant staff.	Building does not have office for itinerant staff.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in IL-MD-15.	B. Kenworthy J. Trauffer	NA
IL-MD-06	Modernization	Kitchen Serving Area Expansion	Increase width of corridor that is used for serving area.	Corridor serving area is 12' wide and 2' less than district's minimum standard.	Deficiency	NA	NA	No Cost Estimate	Not cost effective because of space limitations and adverse impact on adjacent spaces.	B. Kenworthy	NA
IL-MD-08	Modernization	Main Office Expansion	Provide larger secretary's area in main office.	Secretary's office is undersized by 120 SF and 30% smaller than the district's minimum standard.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in IL-MD-15.	B. Kenworthy	NA
IL-MD-09	Modernization	Nurse's Office Expansion	Provide large nurse's office.	Existing nurse's office undersized by 40 SF and 33% smaller than the district's minimum standards.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in IL-MD-15.	B. Kenworthy	NA
IL-MD-10	Modernization	PE Equipment Storage Expansion	Provide larger storage room for PE equipment.	Existing PE storage room is undersized by 70 SF and is 23% smaller than district's minimum standards.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in IL-MD-15.	B. Kenworthy	NA
IL-MD-12	Modernization	Small Conference Room Addition	Provide small conference room.	Building does not have a small conference room.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in IL-MD-15.	B. Kenworthy	NA

# PROPOSED FACILITY IMPROVEMENTS

# LAKE VIEW ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
LV-SI-08	Site	Curb Ramp Additions	Provide curb ramps at sidewalks at bus loading area, main entry, and at driveway crosswalk to main building entry.	Ramps needed for wheelchair access.	Deficiency	2	\$13,707	BLRB Cost Estimate		ADA Consultant	A
LV-SI-13	Site	Irrigation System Pump Replacement	Replace irrigation system pump and controls.	Existing pump and controls do not operate properly.	Deficiency	2	\$27,413	BLRB Cost Estimate		R. Thomas	A
LV-SI-15	Site	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars, and directional arrows. Provide striping for pickle ball courts, basketball court in playshed, and full basketball court at asphalt play area.	Thermo-plastics markings are needed in critical locations because existing painted markings have worn away or are no longer visible. Playshed does not have basketball game lines. Hard surface play area does not have pickle ball courts and full basketball court game lines.	Deficiency	2	\$2,285	BLRB Cost Estimate		R. Thomas B. Kenworthy	A
LV-SI-24	Site	Traffic Control Sign Additions	Provide additional signs for bus loading and delivery areas.	Bus loading and delivery areas do not have adequate number of signs to direct traffic at these areas.	Deficiency	1	\$2,139	BLRB Cost Estimate		B. Kenworthy	A
LV-SI-25	Site	Bus Loading and Parking Improvements	Increase width of bus loading area to accommodate angle bus parking. Provide additional vehicle parking in area north of bus loading area. Modify and expand west parking area to provide 8 to 10 visitor parking stalls and improved pick up and drop off area.	Existing bus loading area is undersized and does not safely accommodate bus loading. Visitor parking and student drop off and pick up areas are undersized.	Deficiency	1	\$269,241	BLRB Cost Estimate		B. Kenworthy J. Denton	A
LV-EX-01	Exterior	Automatic Door Opener Addition	Provide automatic door opener at front entry doors.	Building does not have automatic door opener at main entry doors.	Enhancement	1	\$13,440	BLRB Cost Estimate		M. Weibel J. Trauffer	A
LV-EX-02	Exterior	Exterior Door Hardware Upgrade	Replace exterior door lock cylinders with Primus cylinders.	Primus lock cylinders will improve building security.	Enhancement	2	\$9,238	BLRB Cost Estimate		R. Thomas	A
LV-EX-03	Exterior	Exterior Louver Upgrade	Replace existing wood louvers at building exterior with prefinished metal louvers.	Existing wood louvers are in poor condition.	Deficiency	1	\$63,538	BLRB Cost Estimate		R. Thomas	A
LV-EX-06	Exterior	Masonry Water Repellant Application	Provide application of water repellant at exterior masonry.	Existing masonry lacks a water repellant coating to protect against moisture penetration.	Deficiency	2	\$43,117	BLRB Cost Estimate		R. Thomas	A
LV-EX-07	Exterior	Roof Fall Arrest Anchors Addition	Provide fall arrest system at pitched roof areas.	Pitched roofs do not have fall arrest safety system.	Health / Safety	2	\$148,947	BLRB Cost Estimate		R. Thomas	A
LV-EX-10	Exterior	Wood Siding Upgrade	Replace wood siding at gym, playshed and gable ends of roof with cement board or prefinished metal siding.	Existing wood siding is deteriorated.	Deficiency	1	\$281,520	BLRB Cost Estimate		R. Thomas	A
LV-EX-11	Exterior	Roof Upgrade - Shingles	Replace shingle roof and sheathing with fiberglass composition shingles and new sheathing. Replace roof curb drainage system with prefinished metal gutters.	Existing asphalt shingle roof is in poor condition and sheathing is deteriorated. Existing roof curb drainage systems leaks and has deteriorated and sagging at areas.	Deficiency	2	\$1,440,663	BLRB Cost Estimate	See LV-EX-09. Metal roof recommended over shingle roof for greater longevity and reduced maintenance costs.	R. Thomas	A
LV-IN-03	Interior	Classroom Restroom Flooring Upgrade	Provide seamless flooring or ceramic tile in classroom restrooms.	Existing flooring in classroom restrooms is VCT which does not provide seamless and sanitary floor covering.	Deficiency	1	\$9,355	BLRB Cost Estimate		B. Kenworthy	A
LV-IN-04	Interior	Corridor Vinyl Wall Covering Addition	Provide vinyl wall covering in corridors for additional tackable display area.	Existing corridor walls do not have vinyl wall covering for tackable display areas. Tackboards are present.	Enhancement	1	\$30,792	BLRB Cost Estimate		M. Weibel R. Thomas	A

# PROPOSED FACILITY IMPROVEMENTS

# LAKE VIEW ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
LV-EQ-01	Equipment	Building Staff Furniture Upgrade	Replace staff furniture in classrooms, library and offices.	Existing staff furniture is old and portions do not meet district's minimum standards.	Deficiency	1	\$25,279	ASD Cost Estimate		M. Weibel B. Kenworthy	A
LV-EQ-08	Equipment	Window Covering Upgrade	Replace fabric curtains at exterior windows with coated fabric or roller shades.	Existing fabric curtains at other exterior windows are not durable and do not adequately block day light.	Deficiency	1	\$18,595	BLRB Cost Estimate		R. Thomas B. Kenworthy	A
LV-ME-01 ECM-M2	Mechanical	Automatic Controls Upgrade	Upgrade the control system front end equipment and software to the district standard - BacNet compatible, web based.	BACnet controls will reduce EMS maintenance and service costs.	Operating Cost	2	\$38,570	Quantum Cost Estimate	Estimated 10-year payback period.	R. Thomas Energy Consultant	A
LV-ME-02	Mechanical	Classroom Restroom Exhaust Fan Additions	Provide exhaust fans at classroom restrooms.	Existing classroom restrooms do not have exhaust fans except at kindergarten area.	Health / Safety & Deficiency	1	\$46,026	Quantum Cost Estimate		B. Kenworthy	A
LV-ME-03 ECM-M3	Mechanical	CO2 Control Addition	Expand Barber Coleman control system to add CO2 control to the main air handling systems in classroom units, commons, gym and library.	CO2 control will regulate the amount of outside air being delivered to the occupied spaces based on CO2 levels and reduce energy usage.	Operating Cost	1	\$19,285	Quantum Cost Estimate	Estimated 5-year payback period.	Energy Consultant	A
LV-ME-04 ECM-M6	Mechanical	Domestic Water Heater Control Addition	Provide staging controls for the domestic water heater. to minimize demand charges.	Staging controls will reduce electrical demand and energy costs.	Operating Cost	2	\$2,572	Quantum Cost Estimate	Estimated 8-year payback period.	Energy Consultant	A
LV-ME-08 ECM-M1	Mechanical	HVAC Control System Commissioning	Commission the HVAC control system to verify proper operation.	Commissioning will improve system operation and efficiency.	Operating Cost	1	\$38,570	Quantum Cost Estimate	Estimated 2-year payback period.	Energy Consultant R. Thomas	A
LV-ME-09	Mechanical	Mechanical Cooling Addition	Provide mechanical cooling at main office area and library.	Library overheats at times during school year and main office area overheats during summer use.	Enhancement	1	\$44,226	Quantum Cost Estimate		R. Thomas	A
LV-ME-10 ECM-M4	Mechanical	Occupancy Sensor Temperature Control Addition	Install occupancy sensors in gym and library to set back the spaces when they are unoccupied.	Occupancy sensors will reduce energy consumption and energy costs.	Operating Cost	1	\$12,857	Quantum Cost Estimate	Estimated 5-year payback period.	Energy Consultant	A
LV-ME-11 ECM-W1	Mechanical	Water System Retrofit	Provide aerators at sink faucets.	Aerators will reduce water use and utility costs.	Operating Cost	1	\$6,428	Quantum Cost Estimate	Estimated 5-year payback period.	Energy Consultant	A
LV-ME-13	Mechanical	Wash Basin Upgrade	Replace hand wash basins in corridors with new water efficient models.	Existing student hand wash basins located in corridors are in poor condition and not water efficient.	Operating Cost & Deficiency	1	\$148,876	Quantum Cost Estimate		R. Thomas	A
LV-EL-09 ECM-L1	Electrical	Interior Lighting Upgrade	Retrofit or replace T-12 fixtures, magnetic ballast and incandescent fixtures with T-8, electronic ballast and compact fluorescent technology.	Fixture replacement or retrofit will reduce energy costs.	Operating Cost	2	\$154,275	Quantum Cost Estimate	Estimated 6-year payback period.	Energy Consultant B. Kenworthy R. Thomas	A
LV-EL-12 ECM-L2	Electrical	Occupancy Sensor Lighting Control Addition	Install occupancy sensor in areas with fluctuating occupancy to turn off lights when the spaces are unoccupied.	Occupancy sensors will reduce energy consumption and energy costs.	Operating Cost	1	\$6,428	Quantum Cost Estimate	Estimated 5-year payback period.	Energy Consultant	A
LV-MD-21	Modernization	Pre-School Classroom Modifications	Modernize and expand restroom 201A to be an ADA compliant restroom with changing table.	Existing preschool classroom has an undersized restroom and is not close to the bus loading area.	Deficiency	1	\$38,932	BLRB Cost Estimate		B. Kenworthy	A
LV-MD-22	Modernization	Public Restroom Modernization	Modify public restrooms 107 and 108 to remove showers, improve finishes, and provide ADA compliant grab bars.	Public restrooms adjacent to commons do not have ADA compliant route of travel to toilet stall and do not have ADA compliant grab bars.	Deficiency	1	\$98,972	BLRB Cost Estimate		B. Kenworthy ADA Consultant	A



# PROPOSED FACILITY IMPROVEMENTS

# LAKE VIEW ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
LV-MD-24	Modernization	Special Education Classroom Modernization	Modernize and expand restroom 301A to be an ADA compliant restroom with changing table.	Existing preschool classroom has an undersized restroom and is not close to the bus loading area.	Deficiency	1	\$38,932	BLRB Cost Estimate		M. Weibel B. Kenworthy	A
LV-MD-29	Modernization	Telecommunication Rooms Modernization	Provide dedicated MC and HC rooms each with independent mechanical ventilation and cooling systems.	Existing HC and MC rooms are undersized, lack independent HVAC systems, and are also used as storage rooms.	Deficiency	1	\$41,177	BLRB Cost Estimate		N. Vein M. Weibel B. Kenworthy	A
LV-MD-34	Modernization	Library Screen Wall Improvements	Provide a partial height, 72" high wall with vinyl wall covering and wood trim cap between the library and corridors 041, 042 and 043.	Partial height wall needed between corridors and library to provide visual screen and sound attenuation.	Deficiency	3	\$32,747	BLRB Cost Estimate		M. Weibel	A
LV-MD-35	Modernization	Health Restroom Improvements	Expand and modernize health restroom within existing health area to provide ADA compliant restroom with exhaust fan.	Health restroom is undersized, not ADA compliant and the health room does not have an exhaust fan.	Deficiency	1	\$38,932	BLRB Cost Estimate		M. Weibel B. Kenworthy ADA Consultant	A
LV-MD-36	Modernization	Kitchen Improvements	Provide two-burner cooktop, combi-oven and associated electrical and gas service. Enlarge hood to accommodate cooktop and combi-oven. Provide electrical, POS and data outlets at work desk area. Replace dishwasher, convection ovens, steamer and kettle. Provide quarry tile floor and epoxy paint at walls and ceilings.	Additional equipment and power / data outlets needed to accommodate food service program and meet minimum standards. Replacement equipment needed for for equipment past life expectancy. Floor and wall finishes need to be upgraded.	Deficiency	1	\$672,032	BLRB Cost Estimate		M. Weibel B. Kenworthy E. Boutin M. Newman R. Thomas	A
LV-EQ-03	Equipment	Computer Furniture Upgrade	Provide furniture designed for computer and other technology equipment use.	Existing furniture used for computer and technology equipment is lacking and in many cases not designed for this use.	Deficiency	1	\$41,130	ASD Cost Estimate		R. Luke	B
LV-SI-16	Site	Pickle Ball Court Addition	Provide striping and net posts for two pickle ball courts at hard surface play area.	School does not have pickle ball court for use during recess.	Deficiency	2	\$2,297	BLRB Cost Estimate		B. Kenworthy	B
LV-SI-10	Site	Exterior Bench Additions	Provide exterior bench at front entry and at hard surface playground area.	Exterior benches not provided where needed at front entry and playground area.	Deficiency	2	\$5,865	BLRB Cost Estimate		R. Thomas B. Kenworthy	B+
LV-SI-11	Site	Exterior Waste Receptacle Upgrade	Provide ornamental waste receptacle at front entry and waste receptacles with push door tops at playground.	Existing exterior waste receptacles are galvanized cans without covers and are not provided at all areas where needed.	Deficiency	3	\$6,280	BLRB Cost Estimate		R. Thomas B. Kenworthy	B+
LV-SI-01	Site	ADA Site Improvements	Provide miscellaneous site improvements to comply non-mandatory ADA standards.	School was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous site areas, which do not significantly affect access to the building, could be improved to comply with current ADA standards. Site improvements needed to provide ADA required program access are identified separately.	Enhancement	1	\$126,330	BLRB Cost Estimate	Minor need and non-mandatory improvements.	ADA Consultant	C
LV-SI-02	Site	Bicycle Rack Expansion	Provide additional bike racks.	Existing bike racks will accommodate 16 bikes and district's minimum standards require 24.	Deficiency	4	\$2,933	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C

# PROPOSED FACILITY IMPROVEMENTS

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
LV-SI-03	Site	Bus Loading Area Expansion and Modifications	Provide additional parking spaces for buses. Locate in a manner that separates buses from other traffic, eliminates side-by-side parallel parking, and allows easy access and exiting without obstructing passenger and delivery vehicle traffic.	Existing bus loading area will accommodate 10 buses parallel parked side-by-side in two rows. This creates a safety hazard because student have to walk between buses to load. Side-by-side buses block the driveway and obstructs passenger and delivery vehicle traffic. Buses use same entry and exit as other vehicles creating further congestion. The existing parking space for 10 buses meets the district's minimum standard but is not adequate for this school which uses 12 buses.	Deficiency	1	\$3,729,470	BLRB Cost Estimate	Not cost effective. See LV-SI-25 for a portion of these improvements.	B. Kenworthy J. Denton	C
LV-SI-04	Site	Climbing Equipment Curb Addition	Provide concrete curb around perimeter of climbing equipment areas.	Existing wood curb is in fair condition.	Enhancement	3	\$73,877	BLRB Cost Estimate	Minor deficiency.	R. Thomas	C
LV-SI-05	Site	Climbing Equipment Area Drainage Improvements	Provide sub-drain system at climbing equipment areas.	Existing wood chip climbing equipment areas drain poorly and are saturated with water much of the school year.	Enhancement	2	\$38,949	BLRB Cost Estimate	Minor deficiency.	R. Thomas	C
LV-SI-06	Site	Climbing Equipment Ground Surface Upgrade	Provide engineered wood fiber for ground surface at climbing equipment areas.	Existing wood chips used for ground surface are sharp and can cause slivers.	Deficiency	2	\$53,111	BLRB Cost Estimate	Minor deficiency.	R. Thomas	C
LV-SI-07	Site	Climbing Equipment Upgrade	Replace wood climbing structures.	Existing wood climbing equipment is old and does not meet school district's minimum standards.	Deficiency	3	\$162,510	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
LV-SI-09	Site	Dumpster Area Addition	Provide designated area with screen walls for dumpster storage.	Dumpsters are located in a parking lot without a designated area or screen walls.	Deficiency	2	\$39,926	BLRB Cost Estimate	Minor deficiency.	R. Thomas B. Kenworthy	C
LV-SI-12	Site	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system.	Connection to the EMS and the addition of a rain gauge will reduce water consumption and electrical costs for operation of the well pump.	Operating Cost	1	\$22,059	Quantum Cost Estimate	Existing irrigation controls adequate.	R. Thomas	C
LV-SI-14	Site	Long Jump Addition	Provide long jump pit and runway.	School does not have a long jump to use for PE and track practice.	Deficiency	2	\$14,149	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
LV-SI-18	Site	Playfield Access Improvements	Provide ramps from hard surface play area to upper and lower grass playfields.	Ramps needed for wheelchair access.	Deficiency	1	\$131,308	BLRB Cost Estimate	Minor deficiency.	ADA Consultant	C
LV-SI-19	Site	Reader Board Addition	Provide reader board.	School does not have reader board to display notices and announcements.	Deficiency	3	\$48,875	BLRB Cost Estimate	To be provided with school funds.	B. Kenworthy	C
LV-SI-21	Site	Site Sign and Readerboard Addition	Provide new site sign that includes a built in reader board and identifies the school address.	Existing site sign is damaged, unattractive and does not include street address. School does not have a reader board to display school announcements.	Deficiency	3	\$61,095	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
LV-SI-22	Site	Visitor Parking Improvements	Convert west parking lot to dedicated visitor's parking lot.	School has 5 visitor parking stalls that are not located in a designated area at front of building.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in LV-SI-25.	B. Kenworthy L. Cowan M. Newman J. Denton	C
LV-EX-05	Exterior	Exterior Window Upgrade	Replace single-pane exterior windows with dual glazing and integral blinds.	Dual glazed windows will improve energy efficiency and integral blinds will reduce damage to and maintenance of window blinds.	Operating Cost & Deficiency	1	\$214,523	BLRB Cost Estimate	Not cost effective.	R. Thomas B. Kenworthy	C
LV-EX-08	Exterior	Roof Insulation Upgrade	Provide additional roof insulation.	Roof insulation does not meet district's minimum standards.	Operating Cost	3	\$133,630	BLRB Cost Estimate	Not cost effective.	B. Kenworthy	C

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
LV-EX-09	Exterior	Roof Upgrade - Metal	Replace shingle roof and sheathing with metal roofing and new sheathing. Replace roof curb drainage system with prefinished metal gutters.	Existing asphalt shingle roof is in poor condition and sheathing is deteriorated. Existing roof curb drainage systems leaks and has deteriorated and sagging at areas.	Deficiency	1	\$2,362,019	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
LV-IN-01	Interior	ADA Building Improvements	Provide miscellaneous building improvements to comply non-mandatory ADA standards.	School was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous building areas, which do not significantly affect access within the building, could be improved to comply with current ADA standards. Improvements needed to provide ADA required program access within the building are identified separately.	Enhancement	1	\$425,090	BLRB Cost Estimate	Minor need and non-mandatory improvements.	ADA Consultant	C
LV-IN-02	Interior	Asbestos Containing Material Removal	Remove approximately 2,500 SF of asbestos tile located below vinyl tile throughout the building.	Existing tile mastic contains asbestos. All of the mastic is covered with tile.	Enhancement	4	\$32,074	BLRB Cost Estimate	Minor need.	B. Kenworthy	C
LV-IN-05	Interior	Display Case Addition	Provide built-in display case at front entry area.	Building does not have 8' of built-in display cases at front entry in compliance with the district's minimum standard.	Deficiency	3	\$9,775	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
LV-IN-06	Interior	Gym Floor Upgrade	Provide wood floor in gym.	Existing rubber floor is in good condition but does not meet district's recommended standard.	Enhancement	1	\$150,431	BLRB Cost Estimate	Minor deficiency.	R. Thomas	C
LV-IN-08	Interior	Kiln Replacement	Replace kiln.	Existing kiln does not operate.	Deficiency	2	\$4,167	ASD Cost Estimate	Minor deficiency.	M. Weibel B. Kenworthy	C
LV-IN-09	Interior	Maintenance Office Locker Addition	Provide 3 staff lockers in maintenance office.	Maintenance office does not have lockers for storage of custodians personal belongings.	Deficiency	1	\$1,833	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
LV-IN-11	Interior	Walk Off Mat Upgrade	Provide larger walk off mats at building entrances.	Larger mats will improve dirt control and reduce maintenance and carpet wear.	Enhancement	2	\$31,708	BLRB Cost Estimate	Not cost effective until carpeting in building is replaced.	R. Thomas	C
LV-EQ-02	Equipment	Classroom Marker Board Additions	Provide additional marker boards in classrooms.	Classrooms have 12' marker boards and district's minimum standards require 16'.	Deficiency	1	\$4,140	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
LV-EQ-04	Equipment	Fiber Optic Connection Addition	Provide data communications equipment to accommodate installation of a leased fiber optic circuit.	Equipment needed when school upgrades its internet connection with a fiber optic circuit leased from Qwest.	Enhancement	3	\$11,410	ASD Cost Estimate	Minor need.	N. Vein	C
LV-EQ-07	Equipment	Toilet Partition Upgrade	Replace metal toilet partitions.	Existing metal toilet partitions are in fair condition.	Enhancement	2	\$23,287	BLRB Cost Estimate	Minor need.	R. Thomas	C
LV-EQ-09	Equipment	Wireless Computer Station Additions	Provide wireless computer equipment and workstation furniture for use at front of each classroom.	Wireless computer equipment will allow teachers to use ceiling mounted LCD projectors from work station and front of classroom in lieu of adding power and data outlets in floor at much higher cost.	Enhancement	1	NA	No Cost Estimate	Obtained with Technology Levy funds.	R. Luke M. Newman	C
LV-ME-05	Mechanical	Ductwork Additions	Provide return air ductwork throughout building.	Ductwork needed to replace existing return air plenum which results in air control and air quality problems.	Deficiency	1	\$554,618	Quantum Cost Estimate	Not cost effective.	R. Thomas	C
LV-ME-06 ECM-M5	Mechanical	HVAC Unit Replacement	Replace the electric resistance heated HVAC units with split system heat pumps or water source heat pumps.	Existing HVAC units are beyond life expectancy and new heat pumps will reduce energy costs.	Operating Cost	3	\$617,100	Quantum Cost Estimate	Not cost effective because of estimated 15-year payback period.	Energy Consultant R. Thomas	C

# PROPOSED FACILITY IMPROVEMENTS

# LAKE VIEW ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
LV-ME-07	Mechanical	Fire Sprinkler System Bracing	Provide additional seismic bracing to existing fire sprinkler system in compliance with FM Global standards.	Additional bracing will reduce risk of broken fire sprinkler lines during an earthquake.	Enhancement	3	\$102,850	Quantum Cost Estimate	Minor need.	M. Newman	C
LV-ME-12	Mechanical	Water Quality Improvements	Replace plumbing at sinks in health room, library workroom and 23 classrooms. Replace one drinking fountain. Replace bubblers at 23 classrooms.	Water quality tests at 2 non-classroom sinks, some classroom sinks, one drinking fountain, and some classroom bubblers exceeded EPA water quality standards for lead or copper.	Health / Safety	2	\$87,423	Quantum Cost Estimate	Not needed. Further testing revealed water quality standards being met except at three fixtures that will be corrected by Maintenance Dept.	B. Kenworthy	C
LV-EL-01	Electrical	Ceiling Mounted LCD Projector Addition	Provide ceiling mounted LCD projector and associated AV and power outlets in each classroom with connection to teacher's work station.	Ceiling mounted projectors desired for ease of use, to reduce theft, and to protect equipment and cables from damage.	Enhancement	1	\$526,335	Quantum Cost Estimate	Not cost effective.	R. Luke R. Thomas M. Newman	C
LV-EL-02	Electrical	Data Communications Equipment Upgrade	Upgrade data communications equipment filter, router, switch, traffic shaping and connectivity speed.	Existing filter, router, switch, traffic shaping and connectivity speed do not meet district's minimum standards.	Deficiency	1	\$119,478	ASD Cost Estimate	Minor deficiency.	N. Vien	C
LV-EL-03	Electrical	Data Outlet Addition at Teacher's Work Station	Provide data outlets for computers and AV equipment at teacher's work station in each classroom.	Classrooms do not have AV outlets at teacher's work station and do not have floor box with data outlets at front of classroom.	Enhancement	1	\$283,866	Quantum Cost Estimate	Not cost effective. See LV-EQ-09 for an alternate approach using wireless work station.	R. Luke M. Newman	C
LV-EL-05	Electrical	Electrical Service Metering	Provide electronic meter for electrical service connected to energy management system.	Electronic meter will allow remote monitoring of electrical service and improve potential for reducing electrical use.	Operating Cost	2	\$24,941	Quantum Cost Estimate	Minor need at elementary school and long-term payback period.	R. Thomas	C
LV-EL-06	Electrical	Emergency Power Upgrade	Increase capacity of generator and add associated electrical wiring and panels to provide emergency power for full operation of all electrical systems except electrical heating systems.	Existing generator provides emergency power for emergency and stand-by lighting along with telephone and intercom systems. Expanded emergency power would allow operation of school during power outages which occur more frequently at this school than others.	Enhancement	1	\$583,109	Quantum Cost Estimate	Not cost effective. See LV-EL-14 for an alternate approach.	M. Newman	C
LV-EL-07	Electrical	Exterior Lighting Level Improvements	Provide additional illumination at front entry, bus area, delivery area, parking lot, and pathways.	Existing lighting at front entry, bus and delivery area, parking lot and pathways lacks adequate illumination levels and is below district's minimum standards.	Health / Safety & Deficiency	2	\$126,506	Quantum Cost Estimate	Minor deficiency.	B. Kenworthy	C
LV-EL-08	Electrical	Interior Lighting Level Improvements	Provide additional illumination at some classrooms, corridors, restrooms and support spaces.	Existing lighting at interior areas lacks adequate illumination levels and is below the district's minimum standards.	Health / Safety & Deficiency	2	\$128,563	Quantum Cost Estimate	Improvements included in LV-EL-09.	B. Kenworthy	C
LV-EL-11	Electrical	Intrusion Alarm Audible Signal Upgrade	Upgrade intrusion alarm system to provide audible alarm.	Use of audible alarm could reduce intrusions and false alarms.	Enhancement	2	\$46,026	Quantum Cost Estimate	Minor need.	M. Newman	C
LV-EL-13	Electrical	Surveillance Camera Addition	Provide surveillance camera system to monitor parking lots and areas around building.	Surveillance cameras could reduce vandalism and theft around building.	Enhancement	2	\$107,993	Quantum Cost Estimate	Minor need.	M. Newman	C
LV-EL-14	Electrical	Emergency Power Connection	Provide electrical system for direct plug-in connection of an emergency generator to provide emergency power to building electrical and mechanical systems during power outage.	Existing generator provides emergency power for emergency and stand-by lighting along with telephone and intercom systems. An emergency power connection would allow direct connection of a supplemental portable generator during power outages to operate buildings electrical and mechanical systems.	Enhancement	1	\$97,194	Quantum Cost Estimate	Not cost effective.	R. Thomas	C

# PROPOSED FACILITY IMPROVEMENTS

# LAKE VIEW ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
LV-EL-15	Electrical	Portable Emergency Generator Addition	Provide a trailer mounted emergency generator to provide emergency power to building's electrical and mechanical systems during power outage.	Existing generator provides emergency power for emergency and stand-by lighting along with telephone and intercom systems. A supplemental portable generator would allow operation of the building's electrical and mechanical systems during a power outage.	Enhancement	2	\$743,092	Quantum Cost Estimate	Not cost effective.	R. Thomas	C
LV-MD-02	Modernization	Classroom Sound Attenuation Improvements	Provide sound attenuation at walls above classroom ceilings.	Existing walls between classrooms do not extend to roof structure. This allow sound to travel between classrooms and interfere with instruction.	Deficiency	2	\$318,478	BLRB Cost Estimate	Not cost effective.	B. Kenworthy	C
LV-MD-05	Modernization	Custodial Room Addition	Convert storage room 402 to a custodial room.	Building has one custodial room. Additional rooms needed close to kitchen and at each classroom wing.	Deficiency	4	\$10,020	BLRB Cost Estimate	Minor need.	B. Kenworthy	C
LV-MD-10	Modernization	Kiln Room Addition	Provide dedicated room, ventilation system, and fire protection system for kiln.	Existing kiln is located in boiler room and does not have ventilation or fire protection system.	Deficiency	3	\$37,329	BLRB Cost Estimate	Minor deficiency.	M. Weibel B. Kenworthy	C
LV-MD-12	Modernization	Library Natural Daylight Improvements	Provide daylight at Library.	Library does not have exterior windows or skylight for natural daylight.	Deficiency	2	\$37,755	BLRB Cost Estimate	Minor deficiency.	M. Weibel B. Kenworthy	C
LV-MD-16	Modernization	Music Room Modernization	Convert general classroom 303 into a music room.	Building does not have a room that meets district's standards for a music room.	Deficiency	3	\$147,407	BLRB Cost Estimate	Not cost effective.	B. Kenworthy	C
LV-MD-20	Modernization	Playshed Improvements	Replace deteriorated sections for exterior walls.	Portions of exterior walls have deteriorated from wall leaks.	Deficiency	1	NA	BLRB Cost Estimate	Completed by Maintenance Department.	R. Thomas	C
LV-MD-25	Modernization	Staff Restroom Modernization	Modify staff restrooms to provide grab bars and ADA compliant access to toilet stalls.	Public restrooms adjacent to commons do not have ADA compliant route of travel to toilet stall and do not have ADA compliant grab bars.	Deficiency	1	\$149,539	BLRB Cost Estimate	Not cost effective. See LV-MD-22 for ADA compliant restrooms for staff and public.	B. Kenworthy ADA Consultant	C
LV-MD-26	Modernization	Staff Telephone Room Modernization	Provide larger staff telephone room with a ventilation system.	Existing staff telephone room is undersized by 15 SF and is 38 % less than district's minimum standard, and does not have a ventilation system or reite windows in door.	Deficiency	2	\$30,547	BLRB Cost Estimate	Minor deficiency.	M. Weibel B. Kenworthy	C
LV-MD-27	Modernization	Staff Workroom Expansion	Provide large staff workroom that will accommodate a second copy machine.	Staff workroom is undersized and 180 SF or 45% below district's minimum standard and at not large enough to accommodate two copy machines.	Deficiency	2	\$13,636	BLRB Cost Estimate	Minor deficiency.	M. Weibel B. Kenworthy	C
LV-MD-28	Modernization	Storage Space Addition	Provide additional space for storage of community, furniture, and maintenance equipment and supplies.	Building does not have dedicated rooms for storage of community organization supplies, furniture, and maintenance equipment and supplies. Existing room originally designed for maintenance storage is used for storage of instructional materials.	Deficiency	3	\$39,413	BLRB Cost Estimate	Not cost effective.	M. Weibel B. Kenworthy	C
LV-MD-30	Modernization	Conference Room / Health Area / Main Office / OT-PT Modernizations & Additions	Provide large and small conference rooms, itinerant office and OT / PT room. Modernize main office area. Modernize and expand health area.	See Improvement Justifications for LV-MD-03, 08, 09, 14 and 17.	Deficiency	1	\$668,885	BLRB Cost Estimate	Not cost effective. See LV-MD-35 for a portion of these improvements.	N. Vein M. Weibel B. Kenworthy ADA Consultant	C
LV-MD-31	Modernization	Emergency Storage / Kitchen Modernization & Addition	Provide an emergency storage room. Modernize and expand kitchen.	See Improvement Justifications for LV-MD-19 and 21.	Deficiency	1	\$1,432,264	BLRB Cost Estimate	Not cost effective.	M. Weibel B. Kenworthy R. Thomas E. Boutin	C

# PROPOSED FACILITY IMPROVEMENTS

# LAKE VIEW ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
LV-MD-32	Modernization	PE Office / Public Restroom Modernization & Addition	Provide a PE office. Modernize public restrooms.	See Improvement Justifications for LV-MD-06 and 11.	Deficiency	1	\$223,122	BLRB Cost Estimate	Not cost effective. See LV-MD-22 for a portion of these improvements.	M. Weibel B. Kenworthy ADA Consultant	C
LV-MD-33	Modernization	Library Enclosure Modernization	Provide interior window wall at east, west and south sides of library. Provide doors at existing east and west entrances. Modify heating and ventilation system to accommodate enclosure of the library.	Library has partial height walls between library and corridors at east, west and south sides of room. This creates acoustical problems and disruptions in the library when students use the corridor. Window wall and door will provide acoustical separation.	Deficiency	2	\$646,860	BLRB Cost Estimate	Not cost effective.	M. Weibel	C
LV-SI-17	Site	Pipe Rail Gate Improvement	Provide reflective tape on pipe rail vehicle gate at entrance to school.	Existing pipe rail gate does not have reflective tape and can be difficult to see at night.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Kenworthy	NA
LV-SI-20	Site	Site Access Improvement	Provide another access and exit point for vehicle traffic.	Existing site has a single entry and exit point for all traffic with results in congestion at the beginning and end of each school day.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in LV-SI-03.	B. Kenworthy	NA
LV-SI-23	Site	Student Drop Off Area Improvements	Convert bus loading area to student pick up and drop off area.	Existing student pick up and drop off area is undersized at 10 stalls and 50% less than district's minimum standard. Exit location conflicts with site exit used by buses and other vehicles which creates congestion.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in LV-SI-03.	B. Kenworthy R. Thomas	NA
LV-EX-04	Exterior	Exterior Painting	Paint areas of exterior wood and metal.	Exterior wood siding, wood trim and painted metal need repainting.	Deficiency	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Thomas B. Kenworthy	NA
LV-IN-07	Interior	Interior Painting	Paint building interior.	Existing interior paint is in fair condition.	Enhancement	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Thomas	NA
LV-IN-10	Interior	Restroom Wall Upgrade	Provide taller wainscot in restrooms.	Existing wainscot in restrooms is 4' high and does not meet district's minimum standard of 7' high.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency.	B. Kenworthy	NA
LV-EQ-05	Equipment	Instructional Equipment Upgrade	Replace 2 laser printers in library.	Laser printers over 10 years old and past life expectancy. .	Deficiency	NA	NA	No Cost Estimate	Obtained with Technology Levy funds.	R. Luke	NA
LV-EQ-06	Equipment	Office Equipment Upgrade	Provide copy machine for main office area.	Copy machine not provided in main office. Office staff uses copier in staff workroom.	Deficiency	NA	NA	No Cost Estimate	Obtained as leased equipment.	R. Luke	NA
LV-EL-04	Electrical	Data Outlet Addition at Classrooms	Provide one more data outlets in each classroom for student use.	Classrooms have 5 data outlets for student use and 6 are required by district's minimum standards.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency. Outlets can be added by district using splitter and existing data wiring.	B. Kenworthy	NA
LV-EL-10	Electrical	Internet Connection Upgrade	Increase bandwidth of school's internet connection.	Increased bandwidth desired to provide long-term and efficient access for information technology via the internet.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency. Existing internet connection meets district's minimum standard.	R. Luke	NA
LV-MD-01	Modernization	Classroom Ceiling Modifications	Provide higher ceilings in classrooms.	Existing ceilings are 8' high and lower than district's minimum standard of 9'.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency and not cost effective.	B. Kenworthy	NA
LV-MD-03	Modernization	Conference Room Additions	Provide large and small conference rooms.	Building does not have a large and small conference rooms.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in LV-MD-30.	M. Weibel B. Kenworthy	NA

# PROPOSED FACILITY IMPROVEMENTS

# LAKE VIEW ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
LV-MD-04	Modernization	Corridor Ceiling Modifications	Provide higher ceilings in corridors.	Existing ceilings are 8' high and lower than district's minimum standard of 9'.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency and not cost effective.	B. Kenworthy	NA
LV-MD-06	Modernization	Emergency Storage Room Addition	Provide space within building for storage of emergency supplies.	Building does not have space for storage of emergency supplies. Existing supplies kept in exterior storage container.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in LV-MD-31.	M. Weibel B. Kenworthy R. Thomas	NA
LV-MD-07	Modernization	Front Entry Supervision Modifications	Provide modifications at main office area for visual surveillance of front entry.	Front entry not visible from main office.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency and not feasible because of location of main office area. Front entry is visible from principal's office.	B. Kenworthy	NA
LV-MD-08	Modernization	Health Area Modernization	Remodel health area to provide a larger and dedicated nurses office, larger health restroom that is ADA compliant, and exhaust fan in health room.	The nurses work area, which is an alcove in the health room, is undersized and is not an enclosed room. The health restroom is undersized and not ADA compliant and the health room does not have an exhaust fan.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in LV-MD-30.	M. Weibel B. Kenworthy ADA Consultant	NA
LV-MD-09	Modernization	Itinerant Office Addition	Provide office for itinerant staff.	Building does not have office for itinerant staff.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in LV-MD-30.	M. Weibel B. Kenworthy	NA
LV-MD-11	Modernization	Kitchen Area Modernization	Expand and modernize kitchen area to meet district's standards.	Existing kitchen is undersized 80 SF or 10%. Storage space and walk-in cooler and freezer are undersized. Walls surfaces are GWB and do not meet district's minimum standards. Ceiling height 1' lower than district's minimum standard. Kitchen manager work area with desk, data and POS outlets and telephone not provided. Staff lockers are undersized. Two-burner cook top and combi-oven are not provided. Dishwasher, convection ovens, steamer and kettle are past life expectancy.	Health / Safety & Deficiency	1	NA	BLRB Cost Estimate	Costs included in LV-MD-31.	M. Weibel B. Kenworthy E. Boutin M. Newman R. Thomas	NA
LV-MD-13	Modernization	Locker Additions	Provide lockers for students in corridors.	School does not have student lockers. Existing corridors not wide enough to accommodate lockers.	Deficiency	NA	NA	BLRB Cost Estimate	Not cost effective because existing corridors are not wide enough to accommodate lockers.	M. Weibel B. Kenworthy	NA
LV-MD-14	Modernization	Main Office Area Modernization	Modify main office area to provide daylight in secretary's area. Provide visual connection between workroom and secretary's area, principal's office and secretary's area. Provide improved visual supervision of health room from secretary's area and visual supervision of front entry from secretaries area. Provide additional cabinets in secretary's and principal's offices.	Main office secretary's area does not have windows or skylight for daylight; does not have visual connection to front entry, principal's office, and workroom; and does not have adequate visual supervision of health room. Secretary's area and principal's office do not have an adequate amount of cabinets for storage needs.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in LV-MD-30.	M. Weibel B. Kenworthy	NA
LV-MD-15	Modernization	Maintenance Office Expansion	Provide larger maintenance office and locate close to delivery area.	Maintenance office slightly undersized and 8% smaller than the district's minimum standard and is not located close to the delivery area.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency.	B. Kenworthy	NA
LV-MD-17	Modernization	OT / PT Room Addition	Provide OT / PT room.	Building does not have a designated room for OT/PT. OT / PT staff currently uses an undersized storage room.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in LV-MD-30.	M. Weibel B. Kenworthy	NA

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# LAKE VIEW ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
LV-MD-18	Modernization	PE Equipment Storage Expansion	Provide larger storage room for PE equipment.	Existing PE storage room is undersized by 40 SF and is 13% smaller than district's minimum standards.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency.	B. Kenworthy	NA
LV-MD-19	Modernization	PE Office Addition	Provide office for PE instructor.	Building does not have a PE office.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in LV-MD-32.	M. Weibel B. Kenworthy	NA
LV-MD-23	Modernization	Small Conference Room Addition	Provide small conference room.	Building does not have a small conference room.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in LV-MD-30.	M. Weibel B. Kenworthy	NA



# PROPOSED FACILITY IMPROVEMENTS

# LAKELAND HILLS ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
LL-SI-01	Site	ADA Site Improvements	Provide miscellaneous site improvements to comply with ADA standards that do not significantly affect access to building.	Miscellaneous site areas, which do not significantly affect access to the building, could be improved to comply with current ADA standards.	Enhancement	4	\$37,951	BLRB Cost Estimate	Minor deficiency.	ADA Consultant	C
LL-SI-02	Site	Bus Stall Modifications	Increase width of bus stalls from 12' to 16' wide.	Increased bus stall width would improve bus access and exiting. An increase in width of stalls from 10' to 16' would reduce number of bus stalls from 10 to 8.	Enhancement	NA	NA	No Cost Estimate	Maintenance item.	J. Denton	C
LL-SI-03	Site	Delivery Area Vehicle Gate Addition	Provide vehicle gate at delivery area.	Delivery area does not have vehicle gate to restrict vehicle access after school hours.	Deficiency	2	\$19,550	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
LL-SI-04	Site	Exterior Waste Receptacle Upgrade	Provide push door tops at playground waste receptacles.	Existing exterior waste receptacles at playground area do not have covers.	Enhancement	3	\$1,467	BLRB Cost Estimate	Minor need.	B. Kenworthy	C
LL-SI-05 ECM-W1	Site	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station and add a rain gauge.	Connection to the EMS and the addition of a rain gauge will reduce water consumption and utility costs.	Operating Cost	1	\$5,143	Quantum Cost Estimate	Estimated 3-year payback period. Complete using funds from Lakeland Hills Elementary School project.	Energy Consultant R. Thomas	C
LL-SI-07	Site	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars, directional arrows, and bus stall numbers. Provide striping at 6 box hockey games.	Thermo-plastic markings needed at critical areas that quickly wear away. Game line striping needed at box hockey games..	Enhancement	4	\$2,285	BLRB Cost Estimate	Maintenance item.	R. Thomas R. Foster	C
LL-IN-01	Interior	ADA Building Improvements	Provide miscellaneous building improvements to comply with ADA standards that do not significantly affect access within the building.	Miscellaneous building areas, which do not significantly affect access within the building, could be improved to comply with current ADA standards.	Enhancement	4	\$105,570	BLRB Cost Estimate	Cost estimate is preliminary.	ADA Consultant	C
LL-IN-03	Interior	Staff Lounge Vinyl Wall Addition	Provide additional vinyl wall covering in staff lounge.	Additional vinyl wall covering desired for added tackable display area.	Enhancement	2	\$3,079	BLRB Cost Estimate	Minor need.	R. Foster	C
LL-EQ-01	Equipment	Fiber Optic Connection Addition	Provide data communications equipment to accommodate installation of a leased fiber optic circuit.	Equipment needed when school upgrades its internet connection with a fiber optic circuit leased from Qwest.	Enhancement	2	\$11,410	ASD Cost Estimate	Minor need.	N. Vein	C
LL-ME-01 ECM-M2	Mechanical	CO2 Control Addition	Expand control system to add CO2 control to the main air handling systems in gym and library.	CO2 control will regulate the amount of outside air being delivered to the occupied spaces based on CO2 levels and reduce energy usage.	Operating Cost	1	\$12,857	Quantum Cost Estimate	Estimated 4-year payback period. Complete using funds from Lakeland Hills Elementary School project.	Energy Consultant	C
LL-ME-02 ECM-M5	Mechanical	Duct Heater Upgrade	Replace the electric duct heater on supply air fan SF131 with a hot water coil.	Hot water coil will reduce electrical consumption and energy costs.	Operating Cost	2	\$25,713	Quantum Cost Estimate	Estimated 8-year payback period. Complete using funds from Lakeland Hills Elementary School project.	Energy Consultant	C
LL-ME-03	Mechanical	Fire Sprinkler System Bracing	Provide additional seismic bracing to existing fire sprinkler system in compliance with FM Global standards.	Additional bracing will reduce risk of broken fire sprinkler lines during an earthquake.	Enhancement	3	\$102,850	Quantum Cost Estimate	Minor need.	M. Newman	C

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
LL-ME-04 ECM-M1	Mechanical	HVAC Control System Commissioning	Commission the HVAC control system to verify proper operation.	Commissioning will improve system operation and efficiency.	Operating Cost	1	\$38,570	Quantum Cost Estimate	Estimated 4-year payback period. Complete using funds from Lakeland Hills Elementary School project.	Energy Consultant R. Thomas	C
LL-ME-05	Mechanical	Natural Gas System Metering	Provide electronic meter for natural gas system connected to energy management system.	Electronic meter will allow remote monitoring of gas service and improve potential for reducing natural gas use.	Operating Cost	4	\$22,370	Quantum Cost Estimate	Minor need at elementary school and long-term payback period.	R. Thomas	C
LL-ME-06 ECM-M4	Mechanical	Occupancy Sensor Temperature Control Addition - Classrooms	Connect the light system occupancy sensors in classrooms to the temperature control system to set back the spaces when they are unoccupied.	Connection of the occupancy sensors to the temperature control system will reduce energy consumption and energy costs.	Operating Cost	2	\$56,568	Quantum Cost Estimate	Estimated 10-year payback period. Complete using funds from Lakeland Hills Elementary School project.	Energy Consultant	C
LL-ME-07 ECM-M3	Mechanical	Occupancy Sensor Temperature Control Addition - Gym & Library	Install occupancy sensors in gym and library to set back the spaces when they are unoccupied.	Occupancy sensors will reduce energy consumption and energy costs.	Operating Cost	1	\$15,428	Quantum Cost Estimate	Estimated 4-year payback period. Complete using funds from Lakeland Hills Elementary School project.	Energy Consultant	C
LL-ME-08	Mechanical	Water Quality Improvements	Replace plumbing at one sink in kitchen.	Water quality tests at a kitchen sink exceeded EPA water quality standards for lead or copper.	Health / Safety	1	\$2,572	Quantum Cost Estimate	Not needed. Further testing revealed water quality standards being met.	B. Kenworthy	C
LL-EL-03	Electrical	Corridor Pathway Lighting Upgrade	Provide non-emergency pathway lighting at corridors that can be switched on and used separate from general lighting.	Lack of non-emergency pathway lighting requires all corridor lights to be turned on after hours when limited lighting is needed for pathway circulation.	Operating Cost & Enhancement	1	\$71,429	Quantum Cost Estimate	Minor need and long-term payback period.	R. Foster	C
LL-EL-04	Electrical	Electrical Service Metering	Provide electronic meter for electrical service connected to energy management system.	Electronic meter will allow remote monitoring of electrical service and improve potential for reducing electrical use.	Operating Cost	3	\$24,941	Quantum Cost Estimate	Minor need at elementary school and long-term payback period.	R. Thomas	C
LL-EL-05	Electrical	Exterior Lighting Level Upgrade	Provide additional illumination at delivery, bus loading area and student drop off and pick up area.	Existing lighting at delivery and bus loading areas is below district's minimum standards. Exterior lighting is not provided at student drop off and pick up area east of building.	Deficiency	4	\$126,506	Quantum Cost Estimate	Minor deficiency.	B. Kenworthy	C
LL-EL-08	Electrical	Intrusion Alarm Audible Signal Upgrade	Upgrade intrusion alarm system to provide audible alarm.	Use of audible alarm could reduce intrusions and false alarms.	Enhancement	4	\$46,026	Quantum Cost Estimate	Minor need.	M. Newman	C
LL-EL-09	Electrical	Surveillance Camera Addition	Provide surveillance camera system to monitor parking lots and areas around building.	Surveillance cameras could reduce vandalism and theft around building.	Enhancement	4	\$107,993	Quantum Cost Estimate	Minor need.	M. Newman	C
LL-MD-01	Modernization	Pre-School Classroom Addition	Convert existing general classroom to a pre-school classrooms with restroom and changing table.	Building does not have classrooms with restroom and changing table for preschool classes. A primary classroom currently being used.	Deficiency	4	\$146,945	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
LL-SI-06	Site	On Site Sidewalk Expansion	Increase width of sidewalk at student drop off area by 2'.	Existing 6' wide sidewalk is too narrow to accommodate passenger vehicles with doors open onto the sidewalk to load and pedestrians walking on sidewalk.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency and not cost effective because of conflict with existing ornamental fencing.	R. Foster	NA

# PROPOSED FACILITY IMPROVEMENTS

# LAKELAND HILLS ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
LL-SI-08	Site	Pipe Rail Gate Improvement	Provide reflective tape on pipe rail vehicle gates.	Existing pipe rail gates do not have reflective tape and can be difficult to see at night.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	R. Foster B. Kenworthy	NA
LL-IN-02	Interior	Maintenance Office Counter Addition	Provide counter with knee space in maintenance office.	Maintenance office computers and custodial work station would be better accommodated by a long counter with knee space to replace existing desk and table.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency.	R. Foster	NA
LL-EQ-02	Equipment	Vending Machine Upgrade	Provide motion sensitive illumination control at staff lounge vending machine.	Motion sensitive illumination control will reduce electrical use.	Operating Cost	NA	NA	No Cost Estimate	This is a no-cost improvement that can be accomplished by ordering motion sensor from vending machine company.	B. Kenworthy	NA
LL-EL-01	Electrical	Cable TV Outlet Additions	Provide cable TV outlets in conference rooms, offices, and staff lounge.	TV outlets desired to a these locations to allow TV system to be viewed during day for building announcements and to support instruction.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency. The location of existing TV outlets in school meets district's standards.	R. Foster	NA
LL-EL-02	Electrical	Ceiling Mounted LCD Projector Addition	Provide ceiling mounted LCD projector and associated AV and power outlets in each classroom with connection to teacher's work station.	Ceiling mounted projectors desired for ease of use, to reduce theft, and to protect equipment and cables from damage.	Enhancement	NA	NA	No Cost Estimate	Completed.	R. Luke R. Thomas M. Newman R. Foster	NA
LL-EL-06	Electrical	Front Lobby Data and TV Outlet Addition	Provide data and cable TV outlets along with associated power in front entry lobby.	Data and TV outlets desired in front lobby to use when area used for an assembly area and special activities.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency. The location of existing data and TV outlets in school meets district's standards.	R. Foster	NA
LL-EL-07	Electrical	Internet Connection Upgrade	Increase bandwidth of school's internet connection.	Increased bandwidth desired to provide long-term and efficient access for information technology via the internet.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency. Existing internet connection meets district's minimum standard.	R. Luke	NA

# PROPOSED FACILITY IMPROVEMENTS

# LEA HILL ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
LH-SI-01	Site	Accessible Parking Stall Addition	Change one standard parking stalls to a handicap accessible stall and add associated signage.	One additional handicap parking stall and associated signage required to comply with ADA.	Deficiency	3	\$2,285	BLRB Cost Estimate		ADA Consultant	A
LH-SI-10	Site	Curb Ramp Addition	Provide curb ramp is sidewalk at front entry to building.	Curb ramp needed for wheelchair access.	Deficiency	3	\$4,570	BLRB Cost Estimate		ADA Consultant	A
LH-SI-20	Site	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars, directional arrows, and bus stall numbers. Provide striping at exterior basketball court, playshed, and box hockey games.	Thermo-plastics markings are needed in critical locations where existing markings are painted and have worn away or are no longer visible. Game line striping not provided at perimeter of outdoor basketball courts, playshed and at box hockey.	Enhancement	3	\$2,285	BLRB Cost Estimate		R. Thomas B. Kenworthy	A
LH-NW-01	New	Facility Replacement	Demolish existing building and site improvements and build new school facility.	Existing site and building have extensive program and facility component deficiencies. Many of these deficiencies cannot be corrected unless significant portions of the facility were demolished and rebuilt in a new configuration.	Deficiency	1	\$32,763,810	BLRB Cost Estimate		M. Newman	A
LH-EQ-01	Equipment	Computer Furniture Upgrade	Provide furniture designed for computer and other technology equipment use.	Existing furniture used for computer and technology equipment is lacking and in many cases not designed for this use.	Deficiency	2	\$14,353	ASD Cost Estimate		R. Luke	B
LH-SI-13	Site	Exterior Bench Additions	Provide 8 exterior benches at hard surface playground area.	Exterior benches not provided where needed at playground area.	Deficiency	3	\$23,460	BLRB Cost Estimate		R. Thomas B. Kenworthy	B+
LH-SI-14	Site	Exterior Waste Receptacle Upgrade	Provide ornamental waste receptacle at front entry and waste receptacles with push door tops at playground.	Existing exterior waste receptacles are galvanized cans without covers.	Enhancement	3	\$7,222	BLRB Cost Estimate		R. Thomas B. Kenworthy	B+
LH-SI-02	Site	ADA Site Improvements	Provide miscellaneous site improvements to comply non-mandatory ADA standards.	School was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous site areas, which do not significantly affect access to the building, could be improved to comply with current ADA standards. Site improvements needed to provide ADA required program access are identified separately.	Enhancement	3	\$51,281	BLRB Cost Estimate	Minor need and non-mandatory improvements.	ADA Consultant	C
LH-SI-03	Site	Bicycle Rack Expansion	Provide additional bike racks.	Existing bike racks will accommodate 6 bikes and district's minimum standards require 12.	Deficiency	3	\$2,933	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
LH-SI-04	Site	Bus Loading Area Expansion	Provide additional parking spaces for buses.	Bus loading area has space for 8 stalls and district's minimum standards require 10 stalls.	Deficiency	3	\$327,323	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
LH-SI-05	Site	Chainlink Fence Additions	Provide chainlink fencing at north and east perimeter of playgrounds.	Playgrounds lack containment and security by not having fencing at north and east perimeters.	Deficiency	1	\$126,098	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas B. Kenworthy	C
LH-SI-06	Site	Climbing Equipment Curb Addition	Provide concrete curb around perimeter of climbing equipment areas.	Existing wood curb is in fair condition.	Enhancement	3	\$65,962	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
LH-SI-07	Site	Climbing Equipment Area Drainage Improvements	Provide sub-drain system at climbing equipment areas.	Existing wood chip climbing equipment areas drain poorly and are saturated with water much of the school year.	Enhancement	2	\$68,143	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
LH-SI-08	Site	Climbing Equipment Ground Surface Upgrade	Provide engineered wood fiber for ground surface at climbing equipment areas.	Existing wood chips used for ground surface are sharp and can cause slivers.	Deficiency	3	\$53,900	BLRB Cost Estimate	Not cost effective.	R. Thomas	C

# PROPOSED FACILITY IMPROVEMENTS

# LEA HILL ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
LH-SI-09	Site	Climbing Equipment Upgrade	Replace wood and galvanized metal climbing structures.	Existing wood and galvanized metal climbing equipment is deteriorated in areas and does not meet school district's minimum standards.	Deficiency	2	\$113,635	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy R. Thomas	C
LH-SI-11	Site	Delivery Area Vehicle Gate Addition	Provide vehicle gate at delivery area.	Delivery area does not have vehicle gate to restrict vehicle access after school hours.	Deficiency	3	\$20,283	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
LH-SI-12	Site	Dumpster Area Addition	Provide designated area with screen walls for dumpster storage.	Dumpsters are located in a parking lot without a designated area or screen walls.	Deficiency	2	\$39,926	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
LH-SI-15 ECM-W2	Site	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station and add a rain gauge.	Connection to the EMS and the addition of a rain gauge will reduce water consumption and utility costs.	Operating Cost	1	\$6,428	Quantum Cost Estimate	Not cost effective because of estimated 4-year payback period and short-term life of facility.	Energy Consultant R. Thomas	C
LH-SI-16	Site	Long Jump Improvements	Improve long-jump pit.	Existing long jump pit in poor condition.	Deficiency	4	\$14,149	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
LH-SI-17	Site	On-Site Sidewalk Improvements	Replace concrete sidewalks at west side of 200 unit.	Existing sidewalks west of 200 unit are cracked and uneven.	Deficiency	3	\$7,881	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy R. Thomas	C
LH-SI-18	Site	Outdoor Basketball Hoop Additions	Provide 2 additional basketball backboards and hoops at playground.	Playground has two basketball hoops and 4 are required be district's minimum standards.	Deficiency	3	\$13,930	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
LH-SI-19	Site	Parking Area Vehicle Gate Addition	Provide vehicle gate at entrance to parking lot from 124th SE.	Vehicle gate will allow parking lot to be closed after hours and reduce unauthorized use and vandalism.	Enhancement	1	\$42,277	BLRB Cost Estimate		E. Herda	C
LH-SI-21	Site	Play Equipment Area Drainage Improvements	Provide sub-drain system at play equipment areas.	Existing wood chip play equipment area drain poorly and are saturated with water much of the school year.	Enhancement	2	\$337,642	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
LH-SI-22	Site	Site Sign Addition	Provide site sign that includes school address.	School does not have a site sign to identify school and address.	Deficiency	2	\$61,095	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
LH-SI-24	Site	Street Frontage Sidewalk Addition	Provide sidewalk at 124th SE in front of school property.	There is not a sidewalk for pedestrian use on street in front of school so pedestrians walk on paved road shoulder.	Deficiency	2	\$83,018	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
LH-SI-25	Site	Student Drop Off Area Expansion	Provide additional space for parents to pick up and drop off students.	Existing drop off and pick up area has 10 stalls, is not adequate to accommodate student pick up and drop off , and does not meet district's minimum standard of 20 stalls.	Deficiency	1	\$181,210	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy R. Thomas	C
LH-SI-26	Site	Underground Storage Tank Removal	Remove 300 gallon starter and 5,000 gallon primary underground fuel oil storage tanks that serve the heating system.	Existing underground tanks are not used and present an environmental risk.	Deficiency	2	\$63,505	BLRB Cost Estimate	Minor deficiency and not cost effective until building is replaced.	R. Thomas	C
LH-ST-01	Structural	Masonry Wall/Roof Anchoring	Provide cross ties to anchor masonry walls that run parallel to the roof decking at the 1965 building.	Cross ties anchoring masonry walls to roof decking will improve seismic support.	Deficiency	2	\$28,739	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
LH-ST-03	Structural	Wall / Low Roof Anchoring	Provide anchorage between masonry walls and the low roof structure south of gym.	Positive anchorage at south side of gym will improve seismic support.	Deficiency	2	\$7,332	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C

# PROPOSED FACILITY IMPROVEMENTS

# LEA HILL ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008	Status	Comments	Proposed By	Steering Comm. Rank
							Estimated Project Cost				
LH-ST-04	Structural	Plywood Sheathing Addition & Roof Replacement	Replace roof and insulation. Add plywood over the existing timber decking at the 1965 buildings.	Plywood sheathing over existing wood roof decking will improve the overall performance of the structure.	Deficiency	2	\$1,808,985	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
LH-ST-05	Structural	Infill Shear Wall Additions	Provide additional infill shear walls at the classroom wing window walls at 1965 buildings.	Infill shear walls will reduce diaphragm deflection and potential for damage.	Deficiency	2	\$83,394	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
LH-ST-06	Structural	Library Roof Connection Addition	Provide connection at the roof diaphragm between original roof structure and roof structure at Library addition.	A positive connection between the original roof structure and the roof structure at the library addition will improve seismic support.	Deficiency	2	\$6,965	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
LH-ST-07	Structural	Mechanical Equipment Anchoring	Anchor equipment in mechanical room.	Anchoring mechanical equipment in accordance with current code requirements will reduce potential for equipment and structural damage.	Deficiency	2	\$2,445	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
LH-ST-08	Structural	Masonry Chimney Anchoring	Provide roof blocking and tension ties into the masonry chimney.	Securing the masonry chimney to the roof structure will reduce the potential for damage to chimney and roof.	Deficiency	2	\$6,061	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
LH-ST-09	Structural	Masonry Crack Repair	Repair cracks through bricks and test beam bearing for reinforcing.	Cracks should be repaired to reduce further damage. Beam reinforcing is needed to provide an adequate load path.	Deficiency	2	\$20,772	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
LH-ST-10	Structural	Steel Lintel Addition	Provide steel lintel above door at Restroom 309.	A steel lintel is needed to adequately support existing masonry above this door opening.	Deficiency	2	\$2,445	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
LH-ST-11	Structural	Beam Dry Rot Repair	Repair beams with dry rot or delamination.	Beam repair is needed to minimize potential for further damage and deterioration.	Deficiency	2	\$38,905	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
LH-ST-12	Structural	Brick Replacement	Replace bricks in the exterior wall outside of Room 404.	Brick repair is needed to reduce further damage and deterioration.	Deficiency	2	\$733	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
LH-ST-13	Structure	Masonry Mortar Joint Repair	Tuck-point existing brick at upper section of walls at gym.	Deterioration of brick mortar joints at upper walls at gym.	Deficiency	2	\$31,671	BLRB Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	R. Thomas	C
LH-EX-01	Exterior	Automatic Door Opener Addition	Provide automatic door opener at front entry doors.	Building does not have automatic door opener at main entry doors.	Enhancement	3	\$26,882	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	J. Trauffer	C
LH-EX-02	Exterior	Exterior Door Hardware Upgrade	Replace exterior door lock cylinders with Primus cylinders.	Primus lock cylinders will improve building security.	Enhancement	1	\$10,227	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
LH-EX-03	Exterior	Exterior Door Replacement	Replace exterior aluminum doors at front entry vestibule.	Existing exterior doors at front entry are undersized at 2'-6" wide, old and made from parts that are no longer available.	Deficiency	2	\$18,573	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas B. Kenworthy	C

# PROPOSED FACILITY IMPROVEMENTS

# LEA HILL ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
LH-EX-07 ECM-G1	Exterior	Exterior Window and Wall Panel Replacement	Replace single-pane exterior windows with dual glazing and replace associated wall panel system with insulated wall system.	Window and wall panel replacement will reduce energy costs and will remove asbestos containing wall panels.	Operating Cost	3	\$385,688	Quantum Cost Estimate	Not cost effective because of estimated 18-year payback period.	Energy Consultant R. Thomas	C
LH-EX-08	Exterior	Exterior Window / Wall Panel and Window Covering Replacement	Replace single-pane exterior windows with dual glazing and integral blinds, and replace associated wall panel system with insulated wall system.	Window and wall panel replacement will reduce energy costs and will remove asbestos containing wall panels. Installation of integral blinds will reduce damage to and maintenance of window blinds.	Operating Cost	1	\$1,145,084	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
LH-EX-09	Exterior	Masonry Water Repellant Application	Provide application of water repellant at exterior masonry.	Existing masonry lacks a water repellant coating to protect against moisture penetration.	Deficiency	2	\$32,868	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
LH-EX-012	Exterior	Roof Membrane and Insulation Upgrade	Replace built-up roof system with single-ply Hypolon and add roof insulation at areas of original building construction.	Existing built-up roofing is past its recommended life expectancy. Roof insulation does not meet district's minimum standards except at library addition.	Operating Cost & Deficiency	2	\$1,346,201	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
LH-IN-01	Interior	ADA Building Improvements	Provide miscellaneous building improvements to comply non-mandatory ADA standards.	School was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous building areas, which do not significantly affect access within the building, could be improved to comply with current ADA standards. Improvements needed to provide ADA required program access within the building are identified separately.	Enhancement	3	\$473,673	BLRB Cost Estimate	Minor need and non-mandatory improvements.	ADA Consultant	C
LH-IN-02	Interior	Asbestos Containing Material Removal	Remove approximately 270 SF of asbestos sheet vinyl, 1,900 SF of exterior cement asbestos board, and 6 asbestos-containing sections of wire sheathing.	Asbestos-containing sheet vinyl, cement board and wire sheathing. All asbestos is encapsulated within the material and is not friable.	Enhancement	3	\$50,915	BLRB Cost Estimate	Minor deficiency.	R. Thomas	C
LH-IN-03	Interior	Cabinet Upgrade	Replace existing cabinets throughout school, increase the amount of cabinets in classrooms, and provide locks keyed to the building master key system.	Existing cabinets are made of wood and are worn, do not have locks keyed to the building master key system, and classrooms have less cabinets than district's minimum standards. Placement of additional cabinets in classrooms adversely affected by classroom coat storage area.	Deficiency	1	\$698,389	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy R. Thomas	C
LH-IN-04	Interior	Classroom Ceiling Upgrade	Provide new ceilings in classrooms.	Existing glue-on acoustical ceiling tile in classrooms is stained and damaged.	Deficiency	1	\$339,473	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy R. Thomas	C
LH-IN-05	Interior	Exit Door Modification	Replace an exit door with an outward swinging door at the corridor that provides access to the staff restrooms.	Existing door swings into corridor and does not meet fire code exit requirements.	Health / Safety	3	\$5,865	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
LH-IN-06	Interior	Corridor Vinyl Wall Covering Addition	Provide vinyl wall covering in corridors for additional tackable display area.	Existing corridor walls do not have vinyl wall covering for tackable display areas. Tackboards are present.	Enhancement	3	\$25,866	BLRB Cost Estimate	Minor need.	R. Thomas	C
LH-IN-07	Interior	Display Case Addition	Provide built-in display case at front entry area.	Existing display cases are moveable and are not large enough to meet the district's minimum standards.	Deficiency	3	\$9,775	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
LH-IN-08	Interior	Gym Floor Upgrade	Resurface rubber floor or provide wood floor in gym.	Existing rubber floor is in fair condition with patches in four locations.	Enhancement	1	\$133,489	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C

# PROPOSED FACILITY IMPROVEMENTS

# LEA HILL ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
LH-IN-09	Interior	Interior Door Hardware Upgrade	Replace interior door handles with ADA compliant lever handles.	Existing door handles, except for a few, are not ADA compliant.	Enhancement	3	\$24,193	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	ADA Consultant	C
LH-IN-11	Interior	PE Storage Door Modification	Provide double door at PE storage room.	Exist door serving PE storage is only 2'-6" wide and not a double door to accommodate movement of equipment.	Deficiency	2	\$5,865	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
LH-IN-12	Interior	Walk Off Mat Upgrade	Provide larger walk off mats at building entrances.	Larger mats will improve dirt control and reduce maintenance and carpet wear.	Enhancement	3	\$38,123	BLRB Cost Estimate	Not cost effective until carpeting in building is replaced.	R. Thomas	C
LH-EQ-02	Equipment	Fiber Optic Connection Addition	Provide data communications equipment to accommodate installation of a leased fiber optic circuit.	Equipment needed when school upgrades its internet connection with a fiber optic circuit leased from Qwest.	Enhancement	2	\$11,410	ASD Cost Estimate	Minor need.	N. Vein	C
LH-EQ-03	Equipment	Gym Basketball Backboard Upgrade	Replace one fixed backboard with a retractable backboard.	Gym does not have two retractable backboards which results in interference for volleyball.	Deficiency	2	\$10,091	BLRB Cost Estimate	Minor deficiency.	L. Holloman B. Kenworthy	C
LH-EQ-04	Equipment	Gym Stage Curtain Replacement	Replace curtain at portable stage in gym.	Existing curtain is old and is not fire retardant.	Deficiency	2	\$10,861	BLRB Cost Estimate	Minor deficiency.	R. Thomas	C
LH-EQ-06	Equipment	Playshed Basketball Hoop Addition	Provide another basketball hoop in playshed.	Playshed has 5 hoops and district's minimum standards require 6.	Deficiency	3	\$4,916	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
LH-EQ-07	Equipment	Projection Screen Upgrade	Provide larger projection screens in classrooms, provide larger and motorized projection screen in gym.	Projection screens in classroom and gyms are undersized and screen in gym is manually operated.	Deficiency	1	\$146,797	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
LH-EQ-09	Equipment	Window Covering Upgrade	Replace fabric curtains at exterior windows with coated fabric or roller shades. Provide mini-blinds at interior relite windows.	Existing fabric curtains at exterior windows are not durable and do not adequately block day light. Window coverings not provided a some interior relite windows.	Deficiency	1	\$62,998	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
LH-ME-01 ECM-M2	Mechanical	Automatic Controls Upgrade	Upgrade the control system front end equipment and software to the district standard - BacNet compatible, web based.	BACnet controls will reduce EMS maintenance and service costs.	Operating Cost	2	\$38,570	Quantum Cost Estimate	Not cost effective because of estimated 10-year payback period and short-term life of facility.	R. Thomas Energy Consultant	C
LH-ME-02 ECM-M3	Mechanical	CO2 Control Addition	Expand Alerton control system to add CO2 control to the main air handling systems in the gym and library.	CO2 control will regulate the amount of outside air being delivered to the occupied spaces based on CO2 levels and reduce energy usage.	Operating Cost	1	\$10,285	Quantum Cost Estimate	Not cost effective because of estimated 3-year payback period and short-term life of facility.	Energy Consultant	C
LH-ME-03	Mechanical	Domestic Water Piping Replacement	Replace existing domestic water piping.	Existing piping is deteriorated, causes discolored water, and does not meet district's minimum standards.	Deficiency	2	\$487,509	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
LH-ME-04	Mechanical	Fire Sprinkler System Addition	Provide fire sprinkler system throughout school.	Buildings are not protected with a fire sprinkler system.	Deficiency	2	\$145,534	Quantum Cost Estimate	Not cost effective.	R. Thomas	C
LH-ME-05	Mechanical	Kitchen Ventilation Hood Upgrade	Modify ventilation hood in kitchen to comply with fire code.	Existing ventilation hood does not meet fire code which limits the type of cooking that can be done in the kitchen.	Deficiency	2	\$43,454	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
LH-ME-06	Mechanical	Mechanical Cooling Addition	Provide mechanical cooling at main office area and library.	Library overheats at times during school year and main office area overheats during summer use.	Enhancement	2	\$45,769	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C



# PROPOSED FACILITY IMPROVEMENTS

# LEA HILL ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008		Status	Comments	Proposed By	Steering Comm. Rank
							Estimated Project Cost					
LH-ME-07	Mechanical	Natural Gas System Metering	Provide electronic meter for natural gas system connected to energy management system.	Electronic meter will allow remote monitoring of gas service and improve potential for reducing natural gas use.	Operating Cost	3	\$22,370		Quantum Cost Estimate	Minor need at elementary school and long-term payback period.	R. Thomas	C
LH-ME-08 ECM-M4	Mechanical	Occupancy Sensor Temperature Control Addition	Install occupancy sensors in gym and library to set back the spaces when they are unoccupied.	Occupancy sensors will reduce energy consumption and energy costs.	Operating Cost	1	\$10,285		Quantum Cost Estimate	Not cost effective because of estimated 4-year payback period and short-term life of facility.	Energy Consultant	C
LH-ME-09	Mechanical	Plumbing Fixture Replacement	Replace plumbing fixtures throughout school.	Existing plumbing fixtures are in poor condition, lack water saving features, and do not meet district's minimum standards.	Operating Cost & Deficiency	2	\$110,692		Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
LH-ME-10 ECM-W1	Mechanical	Plumbing Fixture Retrofit Review	Review water saving opportunities including retrofit or replacement of sinks, urinals and water closets.	A reduction in water use will reduce utility costs.	Operating Cost	1	\$38,570		Quantum Cost Estimate	Not cost effective because of estimated 4-year payback period and short-term life of facility.	Energy Consultant	C
LH-ME-11 ECM-M6	Mechanical	Stack Damper Addition	Provide stack dampers on the heating water boilers to shut off air through the stack when the boiler is not firing.	Stack dampers will reduce energy costs.	Operating Cost	1	\$2,572		Quantum Cost Estimate	Not cost effective because of estimated 4-year payback period and short-term life of facility.	Energy Consultant	C
LH-ME-12 EMC-M1	Mechanical	TAB and Commissioning	Perform air and water testing, adjusting and balancing (TAB) on the mechanical systems. Commission the existing HVAC control system to verify proper operation.	Retroactive TAB and commissioning will improve system operation and reduce energy costs.	Operating Cost	1	\$38,570		Quantum Cost Estimate	Not cost effective because of estimated 2-year payback period and short-term life of facility.	Energy Consultant R. Thomas	C
LH-ME-13	Mechanical	Water Quality Improvements	Replace plumbing at sinks in staff workroom.	Water quality tests at one sink exceeded EPA water quality standards for lead or copper.	Health / Safety	2	\$2,572		Quantum Cost Estimate	Not needed. Further testing revealed water quality standards being met.	B. Kenworthy	C
LH-EL-01	Electrical	Ceiling Mounted LCD Projector Addition	Provide ceiling mounted LCD projector and associated AV and power outlets in each classroom with connection to teacher's work station.	Ceiling mounted projectors desired for ease of use, to reduce theft, and to protect equipment and cables from damage.	Enhancement	1	\$503,452		Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Luke R. Thomas	C
LH-EL-02	Electrical	Data Communications Equipment Upgrade	Upgrade data communications equipment filter, router, switch, traffic shaping and connectivity speed.	Existing filter, router, switch, traffic shaping and connectivity speed do not meet district's minimum standards.	Deficiency	2	\$139,279		ASD Cost Estimate	Minor deficiency.	N. Vien	C
LH-EL-03	Electrical	Data Outlet Addition at Teacher's Work Station	Provide data outlets for computers and AV equipment at teacher's work station in each classroom.	Classrooms do not have AV outlets at teacher's work station and do not have floor box with data outlets at front of classroom.	Enhancement	1	\$271,524		Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Luke M. Newman	C
LH-EL-05	Electrical	Electrical Outlet Additions	Provide additional electrical outlets in classrooms, corridors, offices and workroom.	Classrooms, corridors, offices and workroom do not have enough electrical outlets and do not meet district's minimum standards.	Deficiency	2	\$102,850		Quantum Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
LH-EL-06	Electrical	Electrical Service Metering	Provide electronic meter for electrical service connected to energy management system.	Electronic meter will allow remote monitoring of electrical service and improve potential for reducing electrical use.	Operating Cost	3	\$24,941		Quantum Cost Estimate	Minor need at elementary school and long-term payback period.	R. Thomas	C

# PROPOSED FACILITY IMPROVEMENTS

# LEA HILL ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
LH-EL-07 ECM-L2	Electrical	Exit Sign Replacement	Replace incandescent and compact fluorescent exit signs with LED exit signs.	Exit sign replacement will reduce energy consumption and energy costs.	Operating Cost	1	\$12,857	Quantum Cost Estimate	Not cost effective because of estimated 4-year payback period and short-term life of facility.	Energy Consultant	C
LH-EL-08	Electrical	Exterior Lighting Level Improvements	Provide additional illumination at front entry, bus area, delivery area, parking lots and pathways.	Existing lighting at exterior area lacks adequate illumination levels and is below minimum standards.	Health / Safety & Deficiency	2	\$176,389	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
LH-EL-09	Electrical	Gym Sound System Upgrade	Provide built-in sound system in gym.	Existing sound system is a portable system and does not meet district's minimum standards.	Deficiency	2	\$54,767	Quantum Cost Estimate	Minor deficiency.	B. Kenworthy R. Thomas	C
LH-EL-10	Electrical	Interior Lighting Level Improvements	Provide additional illumination at classrooms, corridors, kitchen, library, restrooms and some support spaces.	Existing lighting at interior areas lacks adequate illumination levels, is below the district's minimum standards and many light fixtures have discolored lenses.	Health / Safety & Deficiency	2	\$128,563	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
LH-EL-11 ECM-L1	Electrical	Interior Lighting Upgrade	Retrofit or replace T-12 fixtures, magnetic ballast and incandescent fixtures with T-8, electronic ballast and compact fluorescent technology.	Fixture replacement or retrofit will reduce energy costs.	Operating Cost	2	\$141,420	Quantum Cost Estimate	Not cost effective because of estimated 7-year payback period and short-term life of facility.	Energy Consultant R. Thomas	C
LH-EL-13	Electrical	Intrusion Alarm Audible Signal Upgrade	Upgrade intrusion alarm system to provide audible alarm.	Use of audible alarm could reduce intrusions and false alarms.	Enhancement	1	\$50,653	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	M. Newman	C
LH-EL-14 ECM-L3	Electrical	Occupancy Sensor Lighting Control Addition	Install occupancy sensor in gym and library to turn off lights when the spaces are unoccupied.	Occupancy sensors will reduce energy consumption and energy costs.	Operating Cost	2	\$10,285	Quantum Cost Estimate	Not cost effective because of estimated 7-year payback period and short-term life of facility.	Energy Consultant	C
LH-EL-15	Electrical	Surveillance Camera Addition	Provide surveillance camera system to monitor parking lots and areas around building.	Surveillance cameras could reduce vandalism and theft around building.	Enhancement	1	\$107,993	Quantum Cost Estimate	Minor need.	M. Newman	C
LH-EL-16	Electrical	Telephone System Upgrade	Upgrade telephone system to provide voice mail.	Existing telephone system does not have voice mail feature and does not meet district's minimum standards.	Deficiency	3	\$234,498	Quantum Cost Estimate	Minor deficiency.	R. Thomas	C
LH-MD-02	Modernization	Building Appearance Upgrade	Improve building appearance.	Buildings do not have a prominent front entry and have a dated and unattractive appearance on the interior and exterior.	Deficiency	1	\$1,968,605	BLRB Cost Estimate	Not cost effective.	B. Kenworthy E. Herda M. Newman	C
LH-MD-03	Modernization	Building Enclosure Modernization	Provide access to all parts of building within enclosed space.	School consists of separate buildings connected by covered walkways. This inhibits supervision, requires students and staff to go outdoors to travel between buildings, and does not meet district's minimum standards.	Deficiency	1	\$1,889,621	BLRB Cost Estimate	Not cost effective.	B. Kenworthy	C
LH-MD-04	Modernization	Classroom Addition - Special Education	Provide an additional classroom for special education program.	School has 22 classrooms which is one less than district's minimum standard. Special education classroom not provided in the school.	Deficiency	2	\$573,490	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
LH-MD-08	Modernization	Custodial Room Modernization	Provide larger custodial rooms.	Existing custodial rooms are undersized and not adequate to use as a work area and store supplies.	Deficiency	3	\$8,920	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C

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# LEA HILL ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008	Status	Comments	Proposed By	Steering Comm. Rank
							Estimated Project Cost				
LH-MD-11	Modernization	Gym Restroom Modifications	Provide ADA compliant toilet stalls, grab bars and plumbing fixtures at gym restrooms.	Existing gym restrooms are not ADA compliant.	Deficiency	3	\$73,350	BLRB Cost Estimate	Minor need and non-mandatory improvements.	B. Kenworthy ADA Consultant	C
LH-MD-20	Modernization	PE Office Addition	Provide office for PE instructor.	Existing workstation for PE instructor is located in PE storage room and does not meet district's minimum standards.	Deficiency	4	\$17,155	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy R. Thomas	C
LH-MD-21	Modernization	Pre-School Classroom Addition	Provide pre-school classrooms with restroom and changing table.	Building does not have classrooms with restroom and changing table for preschool classes.	Deficiency	2	\$181,451	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
LH-MD-22	Modernization	Primary Classroom Restroom Addition	Provide restrooms in first and second grade classrooms.	Restrooms needed in these classrooms to allow students to use toilet facilities during class without leaving classroom. Existing student restrooms are accessible from the main corridor in the primary classroom wing.	Deficiency	1	\$765,605	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	E. Herda B. Kenworthy	C
LH-MD-29	Modernization	Stage Addition	Provide permanent stage connected to gymnasium.	Permanent stage not present at school. Existing retractable stage uses up seating area for assemblies and programs, lacks adequate stage lighting, is difficult to operate, and does not provide an additional permanent area for instrumental music classes.	Deficiency	2	\$479,738	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
LH-MD-31	Modernization	Student Restroom Modernization	Modernize non-classroom student restrooms to provide ceramic tile floors, 7' high wainscot, gypsum wallboard ceiling, new toilet partitions and ADA compliant grab bars, toilet stalls, toilets and sinks.	Non-classroom student restrooms have damaged ceramic floor tile, glue-on acoustical ceiling tile, toilets and sinks in poor condition, toilets and sinks with high water use, deteriorated toilet partitions, and plumbing fixtures, toilet stalls and grab bars that are not ADA compliant.	Deficiency	2	\$402,031	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas B. Kenworthy ADA Consultant	C
LH-MD-33	Modernization	AV Storage / Library Workroom / Telecommunications Room Modernizations	Provide a dedicated library workroom. Expand and modernize AV storage and telecommunications rooms.	See Improvement Justifications for LH-MD-01, 15 and 32.	Deficiency	2	\$243,489	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	N. Vein B. Kenworthy	C
LH-MD-34	Modernization	Health Area / Main Office / Restroom / Storage Modernizations & Additions	Provide public and staff restrooms, stage, small conference room, and storage space. Expand and modernize counselor's office, health area, mail room, and main office area.	See Improvement Justifications for LH-MD-07, 12, 17, 18, 23, 24, 28 and 30.	Health / Safety & Deficiency	3	\$539,609	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	E. Heada R. Thomas B. Kenworthy ADA Consultant	C
LH-MD-35	Modernization	Community Storage / Emergency Storage / Kitchen Modernizations & Additions	Provide community and emergency storage rooms. Expand and modernize kitchen and serving area.	See Improvement Justifications for LH-MD-06, 09 and 14.	Health / Safety & Deficiency	1	\$1,974,841	BLRB Cost Estimate	Not cost effective because of short-term life of facility. A portion of improvements included in LH-MD-37.	E. Heada R. Thomas B. Kenworthy M. Newman E. Boutin	C
LH-MD-36	Modernization	Kiln Room / OT-PT Room Additions	Provide kiln and OT/PT rooms.	See Improvement Justifications for LH-MD-013 and 19.	Deficiency	4	\$59,259	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas B. Kenworthy	C

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# LEA HILL ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008	Status	Comments	Proposed By	Steering Comm. Rank
							Estimated Project Cost				
LH-MD-37	Modernization	Kitchen Improvements	Provide two-burner cooktop, tilting kettle, hot food wells, combi-oven and associated electrical and gas service. Enlarge hood to accommodate cooktop and combi-oven. Provide an additional food prep work table. Replace dishwasher, reach-in coolers and 2-compartment sink with 3-compartment sink. Provide electrical power and data outlets at work desk area. Provide epoxy paint at walls and ceiling.	Additional equipment and power / data outlets needed to accommodate food service program and meet minimum standards. Replacement equipment needed for equipment past life expectancy.	Deficiency	1	\$474,376	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	E. Boutin	C
LH-SI-23	Site	Staff and Visitor Parking Expansion	Provide designated parking stalls for visitors and increase parking for staff and visitors.	School does not have designated area for visitor parking and combined visitor and staff parking at 66 stalls does not meet district's standard of 70 stalls.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in LH-SI-25.	E. Herda B. Kenworthy	NA
LH-ST-02	Structural	Masonry Joint Reinforcing	Provide horizontal joint reinforcing at masonry walls at 1965 buildings.	Horizontal joint reinforcing at masonry walls will improve seismic support.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency. Additional analysis revealed this to be a minor structural concern.	Structural Engineer	NA
LH-EX-04	Exterior	Exterior Painting	Paint areas of exterior wood.	Existing paint is in fair condition.	Enhancement	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Thomas	NA
LH-EX-05	Exterior	Exterior Wall Insulation Upgrade	Provide insulation at structural masonry exterior walls.	Structural masonry exterior walls are not insulated.	Operating Cost	NA	NA	No Cost Estimate	Not cost effective.	B. Kenworthy	NA
LH-EX-06	Exterior	Exterior Wall Panel Upgrade	Upgrade prefinished wall panels at window wall areas with insulated material that does not contain asbestos.	Existing cement board wall panels contain asbestos and are not insulated. Asbestos is contained within the material and is not friable.	Operating Cost & Enhancement	3	NA	BLRB Cost Estimate	Costs included in LH-EX-08.	R. Thomas	NA
LH-EX-10	Exterior	Principal's Office Relite Window Addition	Provide interior relite window at principal's office.	Principal's office does not have interior relite window to adjacent corridor and main office area.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency.	B. Kenworthy	NA
LH-EX-11	Exterior	Roof Access Improvements	Modify areas of building exterior to reduce potential for unauthorized roof access.	Existing building design allows easy roof access which results in vandalism.	Enhancement	NA	NA	No Cost Estimate	Not feasible because of the building design.	M. Newman	NA
LH-IN-10	Interior	Interior Painting	Paint building interior.	Existing paint is in fair condition.	Enhancement	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Thomas	NA
LH-EQ-05	Equipment	Office Equipment Upgrade	Provide copy machine for main office area.	Copy machine not provided in main office. Office staff uses copier in staff workroom.	Deficiency	NA	NA	No Cost Estimate	Obtained as leased equipment.	R. Luke	NA
LH-EQ-08	Equipment	Vending Machine Addition	Provide vending machine in staff lounge.	Lounge does not have a vending machine for staff use.	Deficiency	NA	NA	No Cost Estimate	This is a no-cost item that could be accomplished by building administrator if vending machine is desired.	B. Kenworthy	NA
LH-EL-04	Electrical	Data Outlet Addition at Classrooms	Provide two more data outlets in each classroom for student use.	Classrooms have 4 data outlets for student use and 6 are required by districts minimum standards.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency. Outlets can be added by district using splitter and existing data wiring.	B. Kenworthy	NA

# PROPOSED FACILITY IMPROVEMENTS

# LEA HILL ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
LH-EL-12	Electrical	Internet Connection Upgrade	Increase bandwidth of school's internet connection.	Increased bandwidth desired to provide long-term and efficient access for information technology via the internet.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency. Existing internet connection meets district's minimum standard.	R. Luke	NA
LH-MD-01	Modernization	AV Storage Expansion	Provide addition space for AV storage and locate room with easy access to corridor.	Existing AV storage room undersized, 32 SF or 26% smaller than the district's minimum standard, and does not have direct access to a corridor.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in LH-MD-33.	B. Kenworthy	NA
LH-MD-05	Modernization	Classroom Location Modifications	Modernize school to provide easy access from all classrooms to playground and easy access from kindergarten classrooms to bus loading area.	Four classrooms do not have direct or easy access to playground. Kindergarten classrooms do not have easy access to bus area.	Deficiency	NA	NA	No Cost Estimate	Minor defect and not cost effective because of existing site and building constraints.	B. Kenworthy	NA
LH-MD-06	Modernization	Community Storage Room Addition	Provide space for community storage.	Building does not have a community storage room.	Deficiency	4	NA	BLRB Cost Estimate	Costs included in LH-MD-35.	L. Holloman B. Kenworthy	NA
LH-MD-07	Modernization	Counselor's Office Expansion	Provide larger counselor's office.	Existing counselor's office is undersized and 28 SF or 14% less than district's minimum standard.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in LH-MD-34.	B. Kenworthy	NA
LH-MD-09	Modernization	Emergency Storage Room Addition	Provide space within building for storage of emergency supplies.	Building does not have space for storage of emergency supplies. Existing supplies kept in exterior storage container.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in LH-MD-35.	E. Herda B. Kenworthy R. Thomas	NA
LH-MD-10	Modernization	Exposed Piping Modifications	Conceal or relocate exposed piping in corridors.	Exposed piping in corridors is unsightly and below the district's standard for minimum ceiling height.	Deficiency	NA	NA	BLRB Cost Estimate	Not cost effective and would result in ceiling levels below district standards.	B. Kenworthy R. Thomas	NA
LH-MD-12	Modernization	Health Area Modernization	Modernize health room area with a designated nurse's office, exhaust fan, and restroom that is ADA compliant.	Existing health room lacks an exhaust fan and separate nurses office, and has an undersized restroom that is not ADA compliant.	Health / Safety & Deficiency	3	NA	BLRB Cost Estimate	Costs included in LH-MD-34.	B. Kenworthy ADA Consultant	NA
LH-MD-13	Modernization	Kiln Room Addition	Provide room for kiln.	Existing kiln is located in boiler room and does not have ventilation or fire protection system.	Deficiency	4	NA	BLRB Cost Estimate	Costs included in LH-MD-36.	B. Kenworthy	NA
LH-MD-14	Modernization	Kitchen and Serving Area Modernization	Relocate, expand and modernize kitchen and serving area to meet district's standards.	Existing kitchen is undersized by 100 SF and 12% smaller than district's minimum standard. Kitchen has a low ceiling, and not centrally located. Designated serving area not provided. Instead, serving is done within kitchen and next to dishwasher and ovens. Students must walk and line up outside for access to serving area. Storage space and walk-in cooler and freezer are undersized. Kitchen manager work area with desk, data and POS outlets and telephone not provided. Hot food wells, two-burner cook top, tilting steam kettle, mixer stand and three-compartment sink not provided. Dishwasher is beyond recommended life expectancy. Work space and table area for food prep is not adequate.	Health / Safety & Deficiency	1	NA	BLRB Cost Estimate	Costs included in LH-MD-35.	E. Herda B. Kenworthy E. Boutin M. Newman R. Thomas	NA
LH-MD-15	Modernization	Library Workroom Addition	Provide library workroom with direct access to library with TV headend equipment.	Building does not have a library workroom and TV headend equipment is located in the MC telecommunications room. Librarian uses staff workroom which is adjacent to library but does not have visual connection of TV headend equipment.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in LH-MD-33.	B. Kenworthy	NA

# PROPOSED FACILITY IMPROVEMENTS

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
LH-MD-16	Modernization	Locker Additions	Provide lockers for students in corridors.	School does not have student lockers. Existing corridors not wide enough to accommodate lockers.	Deficiency	NA	NA	No Cost Estimate	Not feasible. There is not adequate corridor space to accommodate lockers.	B. Kenworthy R. Thomas	NA
LH-MD-17	Modernization	Mail Room Modernization	Provide mail room located adjacent to main office with mailboxes that will accommodate tote trays.	Existing mail boxes in a corridor that is not convenient for use by main office staff and the mail slots are too small for tote trays.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in LH-MD-34.	B. Kenworthy	NA
LH-MD-18	Modernization	Main Office Area Modernization	Modernize main office area to provide larger reception and office area, dedicated work room, visual link to front entry, and direct access to mail boxes and work area within main office area.	Existing office and reception area undersized and 135 SF or 40% below the district's minimum standard, visual link to front entry not provided, work area with staff mail boxes not directly accessible and visually connected to office area.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in LH-MD-34.	B. Kenworthy	NA
LH-MD-19	Modernization	OT / PT Room Addition	Provide OT / PT room that meets district's standards.	Room currently used for OT / PT is undersized and does not have computer features required to meet district's minimum standards.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in LH-MD-36.	E. Herda B. Kenworthy	NA
LH-MD-23	Modernization	Public Restroom Addition	Provide public restrooms in main building area.	Public restrooms are not provided in main building which requires public to use gym, staff or student restrooms.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in LH-MD-34.	B. Kenworthy	NA
LH-MD-24	Modernization	Small Conference Room Addition	Provide small conference room.	Building does not have a small conference room.	Deficiency	4	NA	BLRB Cost Estimate	Costs included in LH-MD-34.	E. Herda B. Kenworthy	NA
LH-MD-25	Modernization	Primary Classroom Addition	Provide restrooms in first and second grade classrooms.	Primary classrooms do not have restrooms..	Deficiency	1	NA	BLRB Cost Estimate	Costs included in LH-MD-22	E. Herda B. Kenworthy	NA
LH-MD-26	Modernization	Special Education Classroom Modernization	Provide special education classroom with restroom and testing room.	Building does not have a classroom with restroom and testing room for special education classes.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in LH-MD-04.	B. Kenworthy	NA
LH-MD-27	Modernization	Staff Lounge Modification	Locate staff lounge close to kitchen with a telephone room for staff use.	Existing staff lounge does not have convenient access to kitchen and does not have a telephone room.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency.	B. Kenworthy	NA
LH-MD-28	Modernization	Staff Restroom Modernization	Provide larger, additional and ADA compliant staff restrooms.	Building has only one men's and one women's staff restrooms. These restrooms are undersized, not ADA compliant, have only a single toilet fixture, are not located in each classroom wing, and do not have floor and wall surfaces complying with district's minimum standards.	Health / Safety & Deficiency	3	NA	BLRB Cost Estimate	Costs included in LH-MD-34.	B. Kenworthy ADA Consultant	NA
LH-MD-30	Modernization	Storage Space Addition	Provide additional space for storage of furniture and maintenance equipment.	Building does not have dedicated rooms for storage of furniture and maintenance equipment.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in LH-MD-34.	B. Kenworthy	NA
LH-MD-32	Modernization	Telecommunication Rooms Modernization	Provide dedicated MC and HC rooms each with independent mechanical ventilation and cooling systems.	Existing HC and MC rooms are undersized, lack independent HVAC systems, and are also used as mechanical and storage rooms.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in LH-MD-33.	N. Vein B. Kenworthy	NA

# PROPOSED FACILITY IMPROVEMENTS

# PIONEER ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
PI-SI-08	Site	Curb Ramp Addition	Provide curb ramp at sidewalk where crosswalk occurs at M Street.	Curb ramp needed for wheelchair access.	Deficiency	3	\$9,138	BLRB Cost Estimate		ADA Consultant	A
PI-SI-16	Site	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars, and directional arrows. Provide striping at exterior basketball court and box hockey games.	Thermo-plastics markings are needed in critical locations where existing markings are painted and have worn away or are no longer visible. Game line striping not provided at perimeter of outdoor basketball courts and at box hockey.	Enhancement	1	\$2,285	BLRB Cost Estimate		R. Thomas B. Kenworthy	A
PI-IN-09	Interior	Interior Door Hardware Upgrade	Replace interior door handles with ADA compliant lever handles at 9 doors.	Existing door handles at rooms 012, 101, 103, 104, 112, 201, 202, 030, 501B not ADA compliant.	Enhancement	2	\$4,838	BLRB Cost Estimate		ADA Consultant	A
PI-NW-01	New	Facility Replacement	Demolish existing building and site improvements and build new school facility.	Existing site and building have extensive program and facility component deficiencies. Many of these deficiencies cannot be corrected unless significant portions of the facility were demolished and rebuilt in a new configuration.	Deficiency	1	\$30,276,975	BLRB Cost Estimate		M. Newman	A
PI-SI-11	Site	Exterior Bench Additions	Provide exterior bench at front entry and 8 exterior benches at hard surface playground area.	Exterior benches not provided where needed at playground area.	Deficiency	1	\$29,325	BLRB Cost Estimate		R. Thomas B. Kenworthy	B+
PI-SI-12	Site	Exterior Waste Receptacle Upgrade	Provide ornamental waste receptacle at front entry and waste receptacles with push door tops at playground.	Existing exterior waste receptacles are galvanized cans without covers.	Enhancement	1	\$6,280	BLRB Cost Estimate		R. Thomas B. Kenworthy	B+
PI-SI-01	Site	ADA Site Improvements	Provide miscellaneous site improvements to comply non-mandatory ADA standards.	School was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous site areas, which do not significantly affect access to the building, could be improved to comply with current ADA standards. Site improvements needed to provide ADA required program access are identified separately.	Enhancement	3	\$113,910	BLRB Cost Estimate	Minor need and non-mandatory improvements.	ADA Consultant	C
PI-SI-03	Site	Bus Loading Area Expansion	Provide additional parking spaces for buses.	Bus loading area has space or 6 stalls and district's minimum standards require 10 stalls.	Deficiency	3	\$836,868	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
PI-SI-04	Site	Climbing Equipment Curb Addition	Provide concrete curb around perimeter of climbing equipment areas.	Existing wood curb is in fair condition.	Enhancement	2	\$113,133	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
PI-SI-05	Site	Climbing Equipment Area Drainage Improvements	Provide sub-drain system at climbing equipment areas.	Existing wood chip climbing equipment areas drain poorly and are saturated with water much of the school year.	Enhancement	1	\$102,015	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
PI-SI-06	Site	Climbing Equipment Ground Surface Upgrade	Provide engineered wood fiber for ground surface at climbing equipment areas.	Existing wood chips used for ground surface are sharp and can cause slivers.	Deficiency	1	\$44,100	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
PI-SI-07	Site	Climbing Equipment Upgrade	Replace wood and galvanized metal climbing structures.	Existing wood and galvanized metal climbing equipment is deteriorated in areas and does not meet school district's minimum standards.	Deficiency	1	\$54,985	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy R. Thomas	C
PI-SI-09	Site	Delivery Area Vehicle Gate Addition	Provide vehicle gate at delivery area.	Delivery area does not have vehicle gate to restrict vehicle access after school hours.	Deficiency	3	\$20,283	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
PI-SI-10	Site	Dumpster Area Addition	Provide designated area with screen walls for dumpster storage.	Dumpsters are located in a parking lot without a designated area or screen walls.	Deficiency	2	\$39,926	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C

# PROPOSED FACILITY IMPROVEMENTS

# PIONEER ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
PI-SI-13	Site	Hard Surface Play Area Additions	Provide additional asphalt play area.	Existing hard surface play area is undersized and 14,000 SF or 30% below the district's minimum standard.	Deficiency	3	\$446,367	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
PI-SI-14 ECM-W2	Site	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station and add a rain gauge.	Connection to the EMS and the addition of a rain gauge will reduce water consumption and utility costs.	Operating Cost	1	\$6,428	Quantum Cost Estimate	Not cost effective because of estimated 4-year payback period.	Energy Consultant R. Thomas	C
PI-SI-17	Site	Site Sign Addition	Provide site sign that includes school address.	School does not have a site sign to identify school and address.	Deficiency	3	\$61,095	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
PI-SI-18	Site	Staff and Visitor Parking Expansion	Provide designated parking stalls for visitors, increase parking for staff and visitors, and separate staff and visitor exit from bus exit.	School does not have designated area for visitor parking, the combined visitor and staff parking at 39 stalls does not meet district's minimum standard of 70 stalls, and the exit from the staff and visitor parking lot is shared with the bus exit which creates vehicle congestion.	Deficiency	2	\$405,049	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	D. Gary B. Kenworthy	C
PI-SI-19	Site	Street Frontage Sidewalk Addition	Provide sidewalk at K St. SE at west side of school property.	There is not a sidewalk for pedestrian use at K St. SE so pedestrians walk on gravel road shoulder.	Deficiency	3	\$34,702	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
PI-SI-20	Site	Student Drop Off Area Addition	Convert bus loading area to student drop off and pick up area.	School does not have an area for student pick up and drop off which does not meet district's minimum standard of 20 stalls.	Deficiency	3	\$2,285	BLRB Cost Estimate	Not feasible unless new and separate loading area added.	B. Kenworthy R. Thomas	C
PI-SI-21	Site	Underground Storage Tank Removal	Remove 300 gallon starter and 5,000 gallon primary underground fuel oil storage tanks that serve the heating system.	Existing underground tanks are not used and present an environmental risk.	Deficiency	3	\$63,505	BLRB Cost Estimate	Minor deficiency and not cost effective until building is replaced.	R. Thomas	C
PI-ST-01	Structural	Cross Tie Additions	Provide cross tie at sub diaphragms anchoring masonry walls that run parallel to roof decking.	Cross ties anchoring masonry walls to roof decking will improve seismic support.	Deficiency	2	\$16,227	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
PI-ST-02	Structural	Backing Wall Additions	Provide backing walls anchored to the floor, wall, and roof structure not provided in 1997.	Backing walls will provide seismic support for unreinforced masonry walls.	Deficiency	2	\$207,720	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
PI-ST-03	Structural	Plywood Sheathing Addition & Roof Replacement	Replace roof and insulation. Add plywood over the existing wood decking.	Plywood sheathing over wood roof decking will improve overall performance of the structure.	Deficiency	2	\$1,847,475	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
PI-ST-04	Structural	Infill Shear Wall Additions	Provide additional infill shear walls at classroom wing window.	Infill shear walls will reduce diaphragm deflection and potential for damage.	Deficiency	2	\$70,564	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
PI-ST-05	Structural	Wall / Low Roof Anchoring	Provide anchorage between masonry walls and low roof structure. Upgrade diaphragm connections.	Positive anchorage at south side of gym will improve seismic support.	Deficiency	2	\$8,798	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
PI-ST-06	Structural	Library Shear Wall Additions	Provide additional shear walls in the N-S direction of the library building.	Additional shear walls will improve seismic support in the library.	Deficiency	2	\$11,546	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C



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PI-ST-07	Structural	Roof Diaphragm Connection Addition	Provide a connection at roof diaphragm between original roof structure and roof structure at Library addition.	A positive connection between the original roof structure and the roof structure at the library addition will improve seismic support.	Deficiency	2	\$7,038	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
PI-ST-08	Structural	Dry Rot Repair	Repair beams with dry rot or delamination.	Beam repair is needed to minimize potential for further damage and deterioration.	Deficiency	2	\$33,920	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
PI-ST-09	Structural	Mechanical Equipment Anchoring	Anchor equipment in mechanical room.	Anchoring mechanical equipment in accordance with current code requirements will reduce potential for equipment and structural damage.	Deficiency	2	\$2,445	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
PI-ST-10	Structural	Masonry Chimney Anchoring	Provide roof blocking and tension ties into masonry chimney.	Securing the masonry chimney to the roof structure will reduce the potential for damage to chimney and roof.	Deficiency	2	\$6,061	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
PI-ST-11	Structural	Wall Bracing Additions	Provide braces at top of the wall connected to the roof diaphragm at playshed.	Braces connecting the roof diaphragm to the masonry walls will improve seismic support of the playshed.	Deficiency	2	\$11,144	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
PI-ST-12	Structural	Mortar Joint Replacement	Re-point deteriorated mortar joints at playshed.	Deteriorated mortar joints should be re-pointed to prevent future damage.	Deficiency	2	\$19,550	PCS Cost Estimate	Not cost effective because of short-term life of facility.	Structural Engineer	C
PI-EX-01	Exterior	Automatic Door Opener Addition	Provide automatic door opener at front entry doors.	Building does not have automatic door opener at main entry doors.	Enhancement	4	\$13,440	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	J. Trauffer	C
PI-EX-02	Exterior	Exterior Door Hardware Upgrade	Replace exterior door lock cylinders with Primus cylinders.	Primus lock cylinders will improve building security.	Enhancement	3	\$11,876	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
PI-EX-04 ECM-G1	Exterior	Exterior Window and Wall Panel Replacement	Replace single-pane exterior windows with dual glazing and replace associated wall panel system with insulated wall system.	Window and wall panel replacement will reduce energy costs and will remove asbestos containing wall panels.	Operating Cost	3	\$385,688	Quantum Cost Estimate	Not cost effective because of estimated 18-year payback period.	Energy Consultant R. Thomas	C
PI-EX-05	Exterior	Exterior Window / Wall Panel and Window Covering Replacement	Replace single-pane exterior windows with dual glazing and integral blinds, and replace associated wall panel system with insulated wall system.	Window and wall panel replacement will reduce energy costs and will remove asbestos containing wall panels. Installation of integral blinds will reduce damage to and maintenance of window blinds.	Operating Cost	1	\$902,574	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
PI-EX-06	Exterior	Masonry Mortar Joint Repair	Tuck-point mortar joints at exterior masonry at south and west sides of building.	Deterioration of brick masonry joints present at south and west sides of building.	Deficiency	3	\$193,178	BLRB Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	R. Thomas B. Kenworthy	C
PI-EX-07	Exterior	Masonry Water Repellant Application	Provide application of water repellant at exterior masonry.	Existing masonry lacks a water repellant coating to protect against moisture penetration.	Deficiency	3	\$61,095	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
PI-EX-08	Exterior	Roof Membrane and Insulation Upgrade	Replace built-up roof system with single-ply Hypolon and add roof insulation.	Existing built-up roofing is past its recommended life expectancy. Roof insulation does not meet district's minimum standards except at library addition.	Operating Cost & Deficiency	1	\$1,408,593	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy R. Thomas	C

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PI-IN-01	Interior	ADA Building Improvements	Provide miscellaneous building improvements to comply non-mandatory ADA standards.	School was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous building areas, which do not significantly affect access within the building, could be improved to comply with current ADA standards. Improvements needed to provide ADA required program access within the building are identified separately.	Enhancement	3	\$576,249	BLRB Cost Estimate	Minor need and non-mandatory improvements.	ADA Consultant	C
PI-IN-02	Interior	Asbestos Containing Material Removal	Remove approximately 10,000 SF of vinyl asbestos tile and asbestos tile mastic, 230 SF of sheet vinyl, and 100 pipe insulation joints throughout building.	Existing vinyl tile, mastic and pipe insulation joints contain asbestos. All of the mastic is covered with tile. Most of vinyl asbestos tile is covered with carpet. All asbestos is encapsulated within the material and is not friable.	Enhancement	2	\$134,186	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
PI-IN-03	Interior	Cabinet Upgrade	Replace existing cabinets throughout school, increase the amount of cabinets in classrooms, and provide locks keyed to the building master key system.	Most existing cabinets are made of wood and are worn, do not have locks keyed to the building master key system, and classrooms have less cabinets than district's minimum standards. Placement of additional cabinets in classrooms adversely affected by classroom coat storage area.	Deficiency	2	\$649,060	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy R. Thomas	C
PI-IN-04	Interior	Ceiling Upgrade	Provide new ceilings in classrooms and corridors.	Existing glue-on acoustical ceiling tile in classrooms is in fair condition.	Enhancement	1	\$486,887	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy R. Thomas	C
PI-IN-05	Interior	Corridor Tackboard Additions	Provide tackboard in corridor at each classroom door.	Building does not have a tackboard in corridor at each classroom for classroom displays.	Deficiency	1	\$10,753	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
PI-IN-06	Interior	Corridor Vinyl Wall Covering Addition	Provide vinyl wall covering in corridors for additional tackable display area.	Existing corridor walls do not have vinyl wall covering for tackable display areas. Tackboards are present.	Enhancement	1	\$35,680	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
PI-IN-07	Interior	Display Case Addition	Provide built-in display case at front entry area.	Building does not have 8' of display cases at front entry in compliance with the district's minimum standard.	Deficiency	4	\$9,775	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
PI-IN-08	Interior	Gym Floor Upgrade	Provide wood floor in gym.	Existing rubber floor is in poor condition with patches in several areas.	Deficiency	1	\$129,372	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas B. Kenworthy	C
PI-IN-11	Interior	Office Relite Window Additions	Provide relite windows where not present at offices.	Some offices do not have interior relite windows to allow visual connection to corridor or adjacent room.	Deficiency	2	\$17,488	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
PI-IN-12	Interior	Walk Off Mat Upgrade	Provide larger walk off mats at building entrances.	Larger mats will improve dirt control and reduce maintenance and carpet wear.	Enhancement	3	\$56,450	BLRB Cost Estimate	Not cost effective until carpeting in building is replaced.	R. Thomas	C
PI-EQ-01	Equipment	Computer Furniture Upgrade	Provide furniture designed for computer and other technology equipment use.	Existing furniture used for computer and technology equipment is lacking and in many cases not designed for this use.	Deficiency	3	NA	ASD Cost Estimate	Existing computer equipment is adequate.	R. Luke	C
PI-EQ-02	Equipment	Fiber Optic Connection Addition	Provide data communications equipment to accommodate installation of a leased fiber optic circuit.	Equipment needed when school upgrades its internet connection with a fiber optic circuit leased from Qwest.	Enhancement	1	\$11,410	ASD Cost Estimate	Minor need.	N. Vein	C

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PI-EQ-03	Equipment	Gym Basketball Backboard Upgrade	Replace one fixed backboard with a retractable backboard and add a backboard at a side wall.	Gym does not have two retractable backboards which results in interference for volleyball and gym does not have 4 backboards at side walls.	Deficiency	1	\$16,301	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
PI-EQ-04	Equipment	Gym Stage Curtain Replacement	Replace curtain at portable stage in gym.	Existing curtain is old and is not fire retardant.	Deficiency	3	\$12,786	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
PI-EQ-06	Equipment	Marker Board Additions	Provide another 8' marker board in classrooms.	Some classrooms not have 16' of marker board in compliance with the district's minimum standards.	Deficiency	2	\$11,040	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
PI-EQ-07	Equipment	Projection Screen Upgrade	Provide larger and motorized projection screen in gymnasium and larger projection screen in classrooms and library.	Existing projection screen in gymnasium is undersized and manually operated. Projection screens in classrooms and library are undersized.	Deficiency	1	\$24,496	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
PI-EQ-08	Equipment	Window Covering Upgrade	Replace fabric curtains at exterior windows with coated fabric or roller shades. Provide mini-blinds at interior relite windows.	Existing fabric curtains at exterior windows are not durable and do not adequately block day light. Window coverings not provided a some interior relite windows.	Deficiency	1	\$69,600	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
PI-EQ-09	Equipment	Library Equipment Upgrade	Replace TV/DVD/VCR in library.	TV/DVD/VCR over 10 years old and past life expectancy.	Deficiency	1	\$590	ASD Cost Estimate	Minor deficiency.	R. Luke	C
PI-ME-01 ECM-M2	Mechanical	Automatic Controls Upgrade	Upgrade the control system front end equipment and software to the district standard - BacNet compatible, web based.	BACnet controls will reduce EMS maintenance and service costs.	Operating Cost	2	\$38,570	Quantum Cost Estimate	Not cost effective because of estimated 10-year payback period.	R. Thomas Energy Consultant	C
PI-ME-02 ECM-M3	Mechanical	CO2 Control Addition	Expand Alerton control system to add CO2 control to the main air handling systems in the gym and library.	CO2 control will regulate the amount of outside air being delivered to the occupied spaces based on CO2 levels and reduce energy usage.	Operating Cost	1	\$10,285	Quantum Cost Estimate	Not cost effective because of estimated 3-year payback period.	Energy Consultant	C
PI-ME-03	Mechanical	Fire Sprinkler System Addition	Provide fire sprinkler system throughout school.	Buildings are not protected with a fire sprinkler system.	Deficiency	2	\$230,641	Quantum Cost Estimate	Minor deficiency.	R. Thomas	C
PI-ME-04	Mechanical	Mechanical Cooling Addition	Provide mechanical cooling at main office area and library.	Library overheats at times during school year and main office area overheats during summer use.	Enhancement	1	\$44,482	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
PI-ME-05	Mechanical	Natural Gas System Metering	Provide electronic meter for natural gas system connected to energy management system.	Electronic meter will allow remote monitoring of gas service and improve potential for reducing natural gas use.	Operating Cost	3	\$22,370	Quantum Cost Estimate	Minor need at elementary school and long-term payback period.	R. Thomas	C
PI-ME-06 ECM-M4	Mechanical	Occupancy Sensor Temperature Control Addition	Install occupancy sensors in gym and library to set back the spaces when they are unoccupied.	Occupancy sensors will reduce energy consumption and energy costs.	Operating Cost	1	\$10,285	Quantum Cost Estimate	Not cost effective because of estimated 4-year payback period.	Energy Consultant	C
PI-ME-07	Mechanical	Plumbing Fixture Replacement	Replace plumbing fixtures throughout school.	Existing plumbing fixtures are in poor condition, lack water saving features, and do not meet district's minimum standards. Water quality at 44% of fixtures tested exceeded EPA standards for lead or copper.	Operating Cost & Deficiency	1	\$120,720	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
PI-ME-08 ECM-W1	Mechanical	Plumbing Fixture Retrofit Review	Review water saving opportunities including retrofit or replacement of sinks, urinals and water closets.	A reduction in water use will reduce utility costs.	Operating Cost	1	\$38,570	Quantum Cost Estimate	Not cost effective because of estimated 4-year payback period.	Energy Consultant	C
PI-ME-09 ECM-M5	Mechanical	Stack Damper Addition	Provide stack dampers on the heating water boilers to shut off air through the stack when the boiler is not firing.	Stack dampers will reduce energy costs.	Operating Cost	2	\$2,572	Quantum Cost Estimate	Not cost effective because of estimated 7-year payback period.	Energy Consultant	C

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PI-ME-10	Mechanical	Unit Ventilator Upgrade	Upgrade unit ventilators located in classrooms, library and offices.	Existing unit ventilators in poor condition.	Deficiency	1	\$224,664	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
PI-ME-11 ECM-M1	Mechanical	TAB and Commissioning	Perform air and water testing, adjusting and balancing (TAB) on the mechanical systems. Commission the existing HVAC control system to verify proper operation.	Retroactive TAB and commissioning will improve system operation and reduce energy costs.	Operating Cost	1	\$38,570	Quantum Cost Estimate	Not cost effective because of estimated 2-year payback period.	Energy Consultant R. Thomas	C
PI-ME-12	Mechanical	Water Quality Improvements	Replace plumbing at 21 sinks in classrooms. Replace 4 drinking fountains. Replace bubblers at 21 classrooms.	Water quality tests at one drinking fountain, some classroom sinks and some classroom bubblers exceeded EPA water quality standards for lead or copper.	Health / Safety	1	\$79,966	Quantum Cost Estimate	Not needed. Further testing revealed water quality standards being met.	B. Kenworthy	C
PI-EL-01	Electrical	Ceiling Mounted LCD Projector Addition	Provide ceiling mounted LCD projector and associated AV and power outlets in each classroom with connection to teacher's work station.	Ceiling mounted projectors desired for ease of use, to reduce theft, and to protect equipment and cables from damage.	Enhancement	1	\$480,566	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Luke R. Thomas M. Newman	C
PI-EL-02	Electrical	Data Communications Equipment Upgrade	Upgrade data communications equipment filter, router, switch, traffic shaping and connectivity speed.	Existing filter, router, switch, traffic shaping and connectivity speed do not meet district's minimum standards.	Deficiency	1	\$134,161	ASD Cost Estimate	Minor deficiency.	N. Vien	C
PI-EL-03	Electrical	Data Outlet Addition at Teacher's Work Station	Provide data outlets for computers and AV equipment at teacher's work station in each classroom.	Classrooms do not have AV outlets at teacher's work station and do not have floor box with data outlets at front of classroom.	Enhancement	2	\$259,182	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Luke M. Newman	C
PI-EL-05	Electrical	Data Outlet Addition at Library	Provide additional data outlets at computer area in library.	Library does not have a data outlet for each computer so splitters are being used.	Deficiency	2	\$27,770	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
PI-EL-06	Electrical	Electrical Outlet Additions	Provide additional electrical outlets in classrooms, corridors, offices and workroom.	Classrooms, corridors, offices and workroom do not have enough electrical outlets and do not meet district's minimum standards.	Deficiency	3	\$102,850	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
PI-EL-07	Electrical	Electrical Service Metering	Provide electronic meter for electrical service connected to energy management system.	Electronic meter will allow remote monitoring of electrical service and improve potential for reducing electrical use.	Operating Cost	3	\$24,941	Quantum Cost Estimate	Minor need at elementary school and long-term payback period.	R. Thomas	C
PI-EL-08 ECM-L2	Electrical	Exit Sign Replacement	Replace incandescent and compact fluorescent exit signs with LED exit signs.	Exit sign replacement will reduce energy consumption and energy costs.	Operating Cost	1	\$12,857	Quantum Cost Estimate	Not cost effective because of estimated 4-year payback period.	Energy Consultant	C
PI-EL-09	Electrical	Exterior Lighting Level Improvements	Provide additional illumination at front entry, bus area, delivery area, and pathways.	Existing lighting at front entry, bus and delivery area, and pathways lacks adequate illumination levels and is below district's minimum standards.	Health / Safety & Deficiency	4	\$26,741	Quantum Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	B. Kenworthy	C
PI-EL-10	Electrical	Gym Sound System Addition	Provide built-in sound system in gym.	Existing sound system is a portable system and does not meet district's minimum standards.	Deficiency	1	\$55,539	Quantum Cost Estimate	Minor deficiency.	B. Kenworthy	C
PI-EL-11	Electrical	Interior Lighting Level Improvements	Provide additional illumination at classrooms, corridors, some emergency lighting, kitchen, library, restrooms and support spaces.	Existing lighting at interior areas lacks adequate illumination levels, is below the district's minimum standards and many light fixtures have discolored lenses.	Health / Safety & Deficiency	4	\$128,563	Quantum Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	B. Kenworthy	C
PI-EL-12 ECM-L1	Electrical	Interior Lighting Upgrade	Retrofit or replace T-12 fixtures, magnetic ballast and incandescent fixtures with T-8, electronic ballast and compact fluorescent technology.	Fixture replacement or retrofit will reduce energy costs.	Operating Cost	2	\$141,420	Quantum Cost Estimate	Not cost effective because of estimated 7-year payback period.	Energy Consultant R. Thomas	C

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PI-EL-14	Electrical	Intrusion Alarm Audible Signal Upgrade	Upgrade intrusion alarm system to provide audible alarm.	Use of audible alarm could reduce intrusions and false alarms.	Enhancement	4	\$46,026	Quantum Cost Estimate	Minor need.	M. Newman	C
PI-EL-15 ECM-L3	Electrical	Occupancy Sensor Lighting Control Addition	Install occupancy sensor in gym and library to turn off lights when the spaces are unoccupied.	Occupancy sensors will reduce energy consumption and energy costs.	Operating Cost	2	\$10,285	Quantum Cost Estimate	Not cost effective because of estimated 6-year payback period.	Energy Consultant	C
PI-EL-16	Electrical	Surveillance Camera Addition	Provide surveillance camera system to monitor parking lots and areas around building.	Surveillance cameras could reduce vandalism and theft around building.	Enhancement	3	\$107,993	Quantum Cost Estimate	Minor need.	M. Newman	C
PI-EL-17	Electrical	Telephone System Upgrade	Upgrade telephone system to provide voice mail.	Existing telephone system does not have voice mail feature and does not meet district's minimum standards.	Deficiency	4	\$226,141	Quantum Cost Estimate	Minor deficiency.	R. Thomas	C
PI-MD-02	Modernization	Building Appearance Upgrade	Improve building appearance.	Buildings do not have a prominent front entry and have a dated and unattractive appearance on the interior and exterior.	Deficiency	1	\$1,968,605	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy M. Newman	C
PI-MD-03	Modernization	Building Enclosure Modernization	Provide access to all parts of building within enclosed space.	School consists of separate buildings connected by covered walkways. This inhibits supervision, requires students and staff to go outdoors to travel between buildings, and does not meet district's minimum standards.	Deficiency	3	\$2,355,908	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
PI-MD-04	Modernization	Classroom Addition	Provide a pre-school classroom and special education classroom.	School has 21 classrooms which is two less than district's minimum standard. School does not have special education classroom with restroom, changing table area and testing room. School does not have pre-school classroom with restroom and changing table area.	Deficiency	1	\$1,035,101	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
PI-MD-19	Modernization	Primary Classroom Restroom Addition	Provide restrooms in first and second grade classrooms.	Restrooms needed in these classrooms to allow students to use toilet facilities during class without leaving classroom. Existing student restrooms are accessible from the main corridor in the primary classroom wing.	Deficiency	1	\$322,888	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
PI-MD-27	Modernization	Student Restroom Modernization	Modernize non-classroom student restrooms to provide ceramic tile floors, 7' high wainscot, gypsum wallboard ceiling, new toilet partitions and ADA compliant toilet stalls, grab bars, toilets and sinks.	Non-classroom student restrooms have damaged ceramic floor tile, glue-on acoustical ceiling tile, toilets and sinks in poor condition, toilets and sinks with high water use, deteriorated toilet partitions, and plumbing fixtures, grab bars and toilet stalls are not ADA compliant.	Deficiency	3	\$268,020	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas B. Kenworthy ADA Consultant	C
PI-MD-29	Modernization	AV Storage / Custodial / Library Workroom / Telecommunications Modernizations & Additions	Provide a dedicated library workroom. Modernize and expand AV storage, custodial and telecommunications rooms.	See Improvement Justifications for PI-MD-01, 06, 13 and 28.	Deficiency	1	\$256,941	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	N. Vein B. Kenworthy	C
PI-MD-30	Modernization	Health Area / Main Office Area / Restrooms Modernizations & Additions	Provide public restrooms in main building area and small conference room. Modernize and expand health area, mail room, main office area and staff restrooms.	See Improvement Justifications for PI-MD-09, 15, 16, 20, 21 and 24.	Deficiency	2	\$570,202	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	D. Gary B. Kenworthy ADA Consultant	C

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PI-MD-31	Modernization	Kitchen / PE Office / Stage / Storage Modernizations & Additions	Provide community, emergency and general storage rooms. Provide PE office and stage. Modernize and expand kitchen, serving area and gym restrooms.	See Improvement Justifications for PI-MD-05, 07, 08, 12, 17, 25 and 26.	Health / Safety & Deficiency	2	\$2,754,507	BLRB Cost Estimate		D. Gary B. Kenworthy R. Thomas M. Newman E. Boutin ADA Consultant	C
PI-MD-32	Modernization	Kiln Room / Itinerant Office Additions	Provide kiln room and itinerant office.	See Improvement Justifications for PI-MD-10 and 11.	Deficiency	4	\$65,285	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy D. Gary	C
PI-MD-33	Modernization	Kitchen Improvements	Provide two-burner cooktop, floor mixer, combi-oven, and associated electrical service. Provide an additional food prep work table. Replace dishwasher and 2-compartment sink with 3-compartment sink. Provide electrical power and data outlets at work desk area. Provide epoxy paint at walls and ceiling.	Additional equipment and power / data outlets needed to accommodate food service program and meet minimum standards. Replacement equipment needed for for equipment past life expectancy.	Deficiency	1	\$474,376	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	E. Boutin	C
PI-SI-02	Site	Box Hockey Additions	Provide four box hockey games.	School does not have box hockey games.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Kenworthy	NA
PI-SI-15	Site	On-Site Sidewalk Improvements	Provide additional sidewalk width at sidewalk to west property line and sidewalk at south side of bus loop.	Existing sidewalks at south and west sides of building are less than the district's minimum standard of 5' wide .	Deficiency	NA	NA	No Cost Estimate	Minor deficiency.	B. Kenworthy	NA
PI-EX-03	Exterior	Exterior Painting	Paint areas of exterior wood.	Existing paint is in poor condition is some areas and some repainted areas do not match color of other areas.	Deficiency	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Thomas D. Gary	NA
PI-IN-10	Interior	Interior Painting	Paint building interior.	Existing paint is in fair condition.	Enhancement	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Thomas D. Gary	NA
PI-EQ-05	Equipment	Instructional Equipment Upgrade	Replace one laser printer in classroom.	Laser printer over 8 years old and past life expectancy.	Deficiency	NA	NA	No Cost Estimate	Obtained with Technology Levy funds.	R. Luke	NA
PI-EL-04	Electrical	Data Outlet Addition at Classrooms	Provide two more data outlets in each classroom for student use.	Classrooms have 4 data outlets for student use and 6 are required by districts minimum standards.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency. Outlets can be added by district using splitter and existing data wiring.	B. Kenworthy	NA
PI-EL-13	Electrical	Internet Connection Upgrade	Increase bandwidth of school's internet connection.	Increased bandwidth desired to provide long-term and efficient access for information technology via the internet.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency. Existing internet connection meets district's minimum standard.	R. Luke	NA
PI-MD-01	Modernization	AV Storage Expansion	Provide addition space for AV storage and locate room with easy access to corridor.	Existing AV storage room undersized, 48 SF or 40% smaller than the district's minimum standard, and does not have direct access to a corridor.	Deficiency	4	NA	BLRB Cost Estimate	Costs included in PI-MD-29.	B. Kenworthy	NA
PI-MD-05	Modernization	Community Storage Room Addition	Provide space for community storage.	Building does not have a community storage room.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in PI-MD-31.	B. Kenworthy	NA

# PROPOSED FACILITY IMPROVEMENTS

# PIONEER ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
PI-MD-06	Modernization	Custodial Room Modernization	Provide larger custodial rooms and provide custodial room near kitchen.	Existing custodial rooms are undersized, not adequate to use as a work area and store supplies, and not present near the kitchen.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in PI-MD-29.	B. Kenworthy	NA
PI-MD-07	Modernization	Emergency Storage Room Addition	Provide space within building for storage of emergency supplies.	Building does not have space for storage of emergency supplies. Existing supplies kept in exterior storage container.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in PI-MD-31.	B. Kenworthy R. Thomas	NA
PI-MD-08	Modernization	Gym Restroom Modifications	Provide ADA compliant toilet stalls and plumbing fixtures at gym restrooms.	Existing gym restrooms are not ADA compliant.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in PI-MD-31.	B. Kenworthy ADA Consultant	NA
PI-MD-09	Modernization	Health Area Modernization	Modernize health room area with a designated nurse's office, exhaust fan, and restroom that is ADA compliant.	Existing health room lacks an adequate exhaust fan and separate nurses office, and has an undersized restroom that is not ADA compliant.	Health / Safety & Deficiency	1	NA	BLRB Cost Estimate	Costs included in PI-MD-30.	B. Kenworthy ADA Consultant	NA
PI-MD-10	Modernization	Itinerant Office Addition	Provide office for itinerant staff.	Building does not have office for itinerant staff. Itinerant staff currently uses large conference room.	Deficiency	4	NA	BLRB Cost Estimate	Costs included in PI-MD-32.	B. Kenworthy D. Gary	NA
PI-MD-11	Modernization	Kiln Room Addition	Provide kiln and room for kiln.	Building does not have a kiln or a kiln room.	Deficiency	4	NA	BLRB Cost Estimate	Costs included in PI-MD-32.	B. Kenworthy	NA
PI-MD-12	Modernization	Kitchen and Serving Area Modernization	Relocate, expand and modernize kitchen and serving area to meet district's standards.	Existing kitchen is undersized 80 SF or 10%, has a low ceiling, and not centrally located. Designated serving area not provided. Instead, serving is done within kitchen and next to dishwasher and ovens. Students must walk and line up outside for access to serving area. Storage space and walk-in cooler and freezer are undersized. Kitchen manager work area with desk, data and POS outlets and telephone not provided. Two-burner cook top, combi-oven, mixer and three-compartment sink not provided. Dishwasher is beyond recommended life expectancy. Work space and table area for food prep is not adequate.	Health / Safety & Deficiency	1	NA	BLRB Cost Estimate	Costs included in PI-MD-31.	D. Gary B. Kenworthy E. Boutin M. Newman R. Thomas	NA
PI-MD-13	Modernization	Library Workroom Addition	Provide library workroom with direct access to library with TV headend equipment.	Building does not have a library workroom and TV headend equipment is located in the MC telecommunications room. Librarian uses staff workroom which is adjacent to library but does not have visual connection of TV headend equipment.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in PI-MD-29.	B. Kenworthy	NA
PI-MD-14	Modernization	Locker Additions	Provide lockers for students in corridors.	School does not have student lockers. Existing corridors not wide enough to accommodate lockers.	Deficiency	NA	NA	No Cost Estimate	Not feasible. There is not adequate corridor space to accommodate lockers.	B. Kenworthy R. Thomas	NA
PI-MD-15	Modernization	Mail Room Modernization	Provide mail room located adjacent to main office with mailboxes that will accommodate tote trays.	Existing mail boxes in a corridor that is not convenient for use by main office staff and the mail slots are too small for tote trays.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in PI-MD-30.	B. Kenworthy	NA
PI-MD-16	Modernization	Main Office Area Modernization	Modernize main office area to provide larger reception and office area, dedicated work room, visual link to front entry and principals office, and direct access to mail boxes and work area within main office area.	Existing office and reception area undersized and 215 SF or 38% below the district's minimum standard, visual link to front entry and principal's office not provided, work area with staff mail boxes not directly accessible and visually connected to office area.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in PI-MD-30.	B. Kenworthy D. Gary	NA
PI-MD-17	Modernization	PE Office Addition	Provide office for PE instructor.	Existing workstation for PE instructor is located in PE storage room and does not meet district's minimum standards.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in PI-MD-31.	B. Kenworthy R. Thomas D. Gary	NA

# PROPOSED FACILITY IMPROVEMENTS

# PIONEER ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
PI-MD-18	Modernization	Pre-School Classroom Addition	Provide pre-school classrooms with restroom and changing table.	Building does not have classrooms with restroom and changing table for preschool classes.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in PI-MD-04.	B. Kenworthy D. Gary	NA
PI-MD-20	Modernization	Public Restroom Addition	Provide public restrooms in main building area.	Public restrooms are not provided in main building which requires public to use gym, staff or student restrooms.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in PI-MD-30.	B. Kenworthy	NA
PI-MD-21	Modernization	Small Conference Room Addition	Provide small conference room.	Building does not have a small conference room.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in PI-MD-30.	B. Kenworthy	NA
PI-MD-22	Modernization	Special Education Classroom Addition	Provide special education classroom with restroom and testing room.	Building does not have classrooms with restroom and testing room for special education classes.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in PI-MD-04.	B. Kenworthy D. Gary	NA
PI-MD-23	Modernization	Staff Lounge Modification	Locate staff lounge close to kitchen with a telephone room for staff use.	Existing staff lounge does not have convenient access to kitchen and does not have a telephone room.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency.	B. Kenworthy D. Gary	NA
PI-MD-24	Modernization	Staff Restroom Modernization	Provide larger, additional and ADA compliant staff restrooms.	Building has only one men's and one women's staff restrooms. These restrooms are undersized, not ADA compliant, have only a single toilet fixture, are not located in each classroom wing, and do not have floor and wall surfaces complying with district's minimum standards.	Health / Safety & Deficiency	1	NA	BLRB Cost Estimate	Costs included in PI-MD-30.	B. Kenworthy ADA Consultant	NA
PI-MD-25	Modernization	Stage Addition	Provide permanent stage connected to gymnasium.	Permanent stage not present at school. Existing retractable stage uses up seating area for assemblies and programs, lacks adequate stage lighting, is difficult to operate, and does not provide an additional permanent area for instrumental music classes.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in PI-MD-31.	B. Kenworthy D. Gary	NA
PI-MD-26	Modernization	Storage Space Addition	Provide additional space for furniture, miscellaneous items, and maintenance equipment.	Building does not have dedicated rooms for storage of furniture, miscellaneous items, and maintenance equipment.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in PI-MD-31.	B. Kenworthy	NA
PI-MD-28	Modernization	Telecommunication Rooms Modernization	Provide dedicated MC and HC rooms each with independent mechanical ventilation and cooling systems.	Existing HC and MC rooms are undersized, lack independent HVAC systems, and are also used as mechanical and storage rooms.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in PI-MD-29.	N. Vein B. Kenworthy	NA



# PROPOSED FACILITY IMPROVEMENTS

# TERMINAL PARK ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
TP-SI-09	Site	Curb Ramp Addition	Provide curb ramp at sidewalk at bus loading area.	Curb ramp needed for wheelchair access.	Deficiency	1	\$4,570	BLRB Cost Estimate		ADA Consultant	A
TP-SI-17	Site	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars, and directional arrows. Provide restriping at all other pavement markings at parking lot. Provide striping for basketball court and box hockey games at hard surface play area.	Thermo-plastics markings are needed in critical locations and restriping of all other pavement markings in parking lot are needed because existing painted markings have worn away or are no longer visible. Hard surface play area does not have basketball court and box hockey game lines.	Deficiency	3	\$2,285	BLRB Cost Estimate		R. Thomas B. Kenworthy	A
TP-SI-26	Site	Traffic Control Sign Additions	Provide signs for bus loading and delivery areas.	Bus loading and delivery areas do not have signs to restrict traffic at these areas.	Deficiency	1	\$1,467	BLRB Cost Estimate		B. Kenworthy	A
TP-NW-01	New	Replacement Facility	Demolish existing building and site improvements and build new school facility.	Existing site and building have extensive program and facility component deficiencies. Many of these deficiencies cannot be corrected unless significant portions of the facility were demolished and rebuilt in a new configuration.	Deficiency	1	\$28,621,827	BLRB Cost Estimate		M. Newman	A
TP-SI-18	Site	Playground Equipment Additions	Provide one additional basketball backboard at playshed, one more backboard at hard surface play area, and one more tether ball pole.	Existing playground equipment does not meet district's minimum standards.	Deficiency	4	\$15,152	BLRB Cost Estimate		B. Kenworthy	B
TP-EQ-01	Equipment	Building Furniture Upgrade	Replace staff and student furniture in classrooms, library and offices.	Existing furniture is worn and does not meet district's minimum standards.	Deficiency	2	\$173,980	ASD Cost Estimate		B. Kenworthy	B
TP-EQ-02	Equipment	Computer Furniture Upgrade	Provide furniture designed for computer and other technology equipment use.	Existing furniture used for computer and technology equipment is lacking and in many cases not designed for this use.	Deficiency	2	\$24,634	ASD Cost Estimate		R. Luke	B
TP-SI-11	Site	Exterior Bench Additions	Provide exterior bench at front entry and at hard surface playground area.	Exterior benches not provided where needed at front entry and playground area.	Deficiency	4	\$29,325	BLRB Cost Estimate		R. Thomas B. Kenworthy	B+
TP-SI-13	Site	Exterior Waste Receptacle Upgrade	Provide ornamental waste receptacle at front entry and waste receptacles with push door tops at playground.	Existing exterior waste receptacles are galvanized cans without covers and are not provided at all areas where needed.	Deficiency	4	\$6,280	BLRB Cost Estimate		R. Thomas B. Kenworthy	B+
TP-SI-01	Site	ADA Site Improvements	Provide miscellaneous site improvements to comply non-mandatory ADA standards.	School was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous site areas, which do not significantly affect access to the building, could be improved to comply with current ADA standards. Site improvements needed to provide ADA required program access are identified separately.	Enhancement	2	\$60,299	BLRB Cost Estimate	Minor need and non-mandatory improvements.	ADA Consultant	C
TP-SI-02	Site	Asphalt Play Area Upgrade	Patch and repair asphalt at area west of music room.	Existing asphalt west of music room is uneven and has settled in areas. Remaining asphalt play area is in good condition.	Deficiency	4	\$9,051	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
TP-SI-03	Site	Bicycle Rack Expansion	Provide additional bike racks.	Existing bike racks will accommodate 20 bikes and district's minimum standards require 24.	Deficiency	4	\$2,933	BLRB Cost Estimate	Minor need.	B. Kenworthy	C
TP-SI-04	Site	Bus Loading Area Expansion	Provide additional parking spaces for buses.	Bus loading area has space or 8 stalls and district's minimum standards require 10 stalls.	Deficiency	1	\$252,064	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C

# PROPOSED FACILITY IMPROVEMENTS

# TERMINAL PARK ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
TP-SI-05	Site	Chainlink Fence Improvements	Provide 6' high chainlink fence at south portion of west property line and larger fence gate at northwest corner of grass playground.	Existing fence at portion of west property line is 1' shorter and northwest gate 2' narrower than district's minimum standards.	Deficiency	3	\$48,630	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
TP-SI-06	Site	Climbing Equipment Curb Addition	Provide concrete curb around perimeter of climbing equipment areas.	Existing wood curb is in fair condition.	Enhancement	3	\$45,574	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
TP-SI-07	Site	Climbing Equipment Area Drainage Improvements	Provide sub-drain system at climbing equipment areas.	Existing wood chip climbing equipment areas drain poorly and are saturated with water much of the school year.	Enhancement	3	\$321,047	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
TP-SI-08	Site	Climbing Equipment Ground Surface Upgrade	Provide engineered wood fiber for ground surface at climbing equipment areas.	Existing wood chips used for ground surface are sharp and can cause slivers.	Deficiency	3	\$52,392	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
TP-SI-10	Site	Dumpster Area Addition	Provide designated area with screen walls for dumpster storage.	Dumpsters are located in a parking lot without a designated area or screen walls.	Deficiency	2	\$39,926	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
TP-SI-12	Site	Exterior Stair Improvements	Provide wider stairs and handrails at exterior steps at building entrances.	Exterior steps at building entrances are not 5' wide and do not have handrails in compliance with district's minimum standards.	Deficiency	2	\$37,692	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
TP-SI-14	Site	Hard Surface Play Area Additions	Provide additional asphalt play area.	Existing hard surface play area is undersized and 10,000 SF or 21% below the district's minimum standard.	Deficiency	2	\$303,994	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
TP-SI-15 ECM-W2	Site	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station and add a rain gauge.	Connection to the EMS and the addition of a rain gauge will reduce water consumption and utility costs.	Operating Cost	1	\$7,715	Quantum Cost Estimate	Not cost effective because of estimated 4-year payback period.	Energy Consultant R. Thomas	C
TP-SI-16	Site	On-Site Sidewalk Improvements	Provide additional sidewalk width at on-site sidewalks.	Existing sidewalks around building are less than the district's minimum standard of 5' wide .	Deficiency	2	\$6,441	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
TP-SI-19	Site	Playground Supervision Improvements	Convert play areas at north side of building and courtyard play area to landscaped areas.	The courtyard and north playground areas remote and partially surrounded by buildings and street making the areas difficult to supervise.	Deficiency	1	\$35,408	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	T. Carstens B. Kenworthy	C
TP-SI-20	Site	Ramp Additions	Provide ramp at south doors to gym and door to north classroom wing.	Ramps needed for wheelchair access. Steps without ramps present at these locations.	Deficiency	1	\$45,688	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	ADA Consultant	C
TP-SI-21	Site	Retaining Wall Improvement	Rebuild or replace retaining wall at asphalt play area at north property line.	Existing retaining wall is in poor condition.	Deficiency	2	\$33,123	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
TP-SI-22	Site	Site Sign Addition	Provide site sign that includes school address.	School does not have a site sign to identify school and address.	Deficiency	4	\$61,095	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
TP-SI-23	Site	Staff and Visitor Parking Expansion	Provide designated parking stalls for visitors and increase parking for staff and visitors.	School does not have designated area for visitor parking and the combined visitor and staff parking at 23 stalls does not meet district's minimum standard of 70 stalls.	Deficiency	1	\$812,828	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	T. Carstens B. Kenworthy L. Cowan M. Newman	C
TP-SI-25	Site	Student Drop Off Area Addition	Convert bus loading area to student pick up and drop off area.	School does not have an area for student pick up and drop off which does not meet district's minimum standard of 20 stalls.	Deficiency	1	\$2,285	BLRB Cost Estimate	Not feasible unless new and separate bus loading area added.	T. Carstens B. Kenworthy R. Thomas	C

# PROPOSED FACILITY IMPROVEMENTS

# TERMINAL PARK ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
TP-ST-01	Structural	Backing Wall Additions	Provide backing walls anchored to the floor, wall, and roof structure not provided in 1997.	Backing walls will provide seismic support for unreinforced masonry walls.	Deficiency	2	\$6,414	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
TP-ST-02	Structural	Gym Plywood Sheathing Addition	Provide plywood sheathing to the existing stud wall at roof step of gymnasium.	Plywood sheathing will provide seismic support at roof step of gymnasium.	Deficiency	2	\$6,011	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
TP-ST-03	Structural	Wall Plywood Sheathing Additions	Provide plywood sheathing to existing interior stud walls between classrooms and at portions of corridor walls with connection at roof and floor.	Plywood sheathing on existing stud walls will improve shear resistance at classroom and corridor walls.	Deficiency	2	\$197,945	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
TP-ST-04	Structural	Clerestory Infill Additions	Infill portion of clerestory windows with plywood shear panels at 1951 building.	Infilling a portion of the clerestory windows will improve seismic support of roof diaphragm.	Deficiency	2	\$11,730	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
TP-ST-05	Structural	CMU Shear Wall Additions	Add CMU shear walls in longitudinal direction at 1951 building.	Additional CMU shear walls will improve seismic support of the structure.	Deficiency	2	\$31,770	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
TP-ST-06	Structural	Masonry Wall Anchoring	Add capacity to existing out-of-plane connection at joists at 1945 and 1948 buildings.	Additional anchorage will improve seismic support for masonry walls at diaphragm.	Deficiency	2	\$23,168	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
TP-ST-07	Structural	Masonry Shear Wall Connection Additions	Provide shear transfer connection from roof diaphragm to existing masonry walls at 1945 and 1948 buildings.	New connections will provide shear transfer from roof diaphragm to existing masonry walls.	Deficiency	2	\$43,206	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
TP-ST-08	Structural	Steel Strap Additions	Provide steel strapping at edge of roof and tension ties at transitions between framing members.	Steel strapping will act as chords at edge of roof and tension ties at transitions between framing members.	Deficiency	2	\$59,260	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
TP-ST-09	Structural	Playshed Roof Anchoring	Provide additional out-of-plane capacity at roof level at playshed.	Additional anchorage will improve seismic support for masonry walls at diaphragm.	Deficiency	2	\$15,786	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
TP-ST-10	Structural	Masonry Crack Repair	Repair masonry cracks.	Cracks in joints and loose units should be repaired to seal the cracks and prevent future damage.	Deficiency	2	\$25,660	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
TP-ST-11	Structural	Mechanical Equipment Anchoring	Anchor equipment in mechanical room.	Anchoring mechanical equipment in accordance with current code requirements will reduce potential for equipment and structural damage.	Deficiency	2	\$2,445	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
TP-ST-12	Structural	Masonry Chimney Anchoring	Provide roof blocking and tension ties into the masonry chimney.	Securing the masonry chimney to the roof structure will reduce the potential for damage to chimney and roof.	Deficiency	2	\$6,061	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C

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TP-ST-14	Structural	Gym Beam Anchoring	Anchor beams to columns and column to foundations at gym.	Columns need to be anchored to beams and foundations with connection hardware to resist uplift loads.	Deficiency	2	\$3,910	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
TP-ST-16	Structural	Masonry Wall Tie Additions	Verify spacing and condition and add wall tie anchors at masonry walls.	Masonry wall tie additions are needed to maintain seismic support.	Deficiency	2	\$27,785	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
TP-EX-01	Exterior	Automatic Door Opener Addition	Provide automatic door opener at front entry doors.	Building does not have automatic door opener at main entry doors.	Enhancement	1	\$13,440	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	J. Trauffer	C
TP-EX-02	Exterior	Exterior Asbestos Containing Material Removal	Remove approximately 4,500 SF of cement asbestos board at build exterior.	Existing exterior cement board panels contain asbestos. All asbestos is encapsulated within the wall panels and is not friable.	Deficiency	1	\$118,216	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
TP-EX-03	Exterior	Exterior Door Hardware Upgrade	Replace exterior door lock cylinders with Primus cylinders.	Primus lock cylinders will improve building security.	Enhancement	3	\$5,938	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
TP-EX-05 ECM-G1	Exterior	Exterior Window and Wall Panel Replacement	Replace single-pane exterior windows with dual glazing and replace associated wall panel system with insulated wall system.	Window and wall panel replacement will reduce energy costs and will remove asbestos containing wall panels.	Operating Cost	3	\$385,688	Quantum Cost Estimate	Not cost effective because of long-term payback period.	Energy Consultant R. Thomas	C
TP-EX-06	Exterior	Exterior Window / Wall Panel and Window Covering Replacement	Replace single-pane exterior windows with dual glazing and integral blinds, and replace associated wall panel system with insulated wall system.	Window and wall panel replacement will reduce energy costs and will remove asbestos containing wall panels. Installation of integral blinds will reduce damage to and maintenance of window blinds.	Operating Cost	2	\$577,262	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
TP-EX-07	Exterior	Masonry Water Repellant Application	Provide application of water repellant at exterior masonry.	Existing masonry lacks a water repellant coating to protect against moisture penetration.	Deficiency	2	\$30,670	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
TP-EX-08	Exterior	Roof Membrane and Insulation Upgrade	Replace built-up roof system with single-ply Hypolon and add roof insulation at areas of original building construction.	Existing built-up roofing is past its recommended life expectancy. Roof insulation does not meet district's minimum standards except at library addition.	Operating Cost & Deficiency	2	\$1,367,948	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy R. Thomas	C
TP-EX-09	Exterior	Roof Canopy Additions	Provide roof canopies at four main exterior doors.	Roof canopies needed at main entry and exit doors at south and west sides of building to provide rain protection.	Deficiency	2	\$61,095	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
TP-EX-10	Exterior	Roof Fall Arrest Anchors Addition - Playshed	Provide fall arrest system at pitched roof at playshed.	Pitched roof at playshed does not have fall arrest safety system.	Health / Safety	1	\$9,714	BLRB Cost Estimate	Minor deficiency.	R. Thomas	C
TP-IN-01	Interior	ADA Building Improvements	Provide miscellaneous building improvements to comply non-mandatory ADA standards.	School was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous building areas, which do not significantly affect access within the building, could be improved to comply with current ADA standards. Improvements needed to provide ADA required program access within the building are identified separately.	Enhancement	1	\$262,874	BLRB Cost Estimate	Minor need and non-mandatory improvements.	ADA Consultant	C
TP-IN-02	Interior	Classroom Ceiling Upgrade	Provide suspended acoustical ceilings in classrooms.	Classrooms have exposed pipes at ceiling level in some areas and surface-applied acoustical ceiling tile that is in fair condition.	Enhancement	1	\$205,574	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C

# PROPOSED FACILITY IMPROVEMENTS

# TERMINAL PARK ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
TP-IN-03	Interior	Display Case Addition	Provide built-in display case at front entry area.	Building does not have 8' of built-in display cases at front entry in compliance with the district's minimum standard.	Deficiency	4	\$9,775	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
TP-IN-04	Interior	Interior Asbestos Containing Material Removal	Remove approximately 6,000 SF of vinyl asbestos tile and asbestos tile mastic and 100 pipe insulation joints throughout building.	Existing vinyl tile, mastic and pipe insulation joints contain asbestos. All of the mastic is covered with tile. Most of vinyl asbestos tile is covered with carpet. All asbestos is encapsulated within the material and is not friable.	Deficiency	1	\$83,088	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
TP-IN-05	Interior	Interior Door Hardware Upgrade	Replace interior door handles with ADA compliant lever handles at two locations.	Existing door handles not ADA compliant at rooms 300 and 304.	Enhancement	3	\$1,076	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
TP-IN-07	Interior	Walk Off Mat Upgrade	Provide larger walk off mats at building entrances.	Larger mats will improve dirt control and reduce maintenance and carpet wear.	Enhancement	4	\$38,123	BLRB Cost Estimate	Not cost effective until building carpet replaced.	R. Thomas	C
TP-IN-08	Interior	Operable Wall Addition	Provide operable wall between stage and gym.	Operable wall between stage and gym will protect stage curtain and allow the stage to be used during PE classes as a meeting room or small teaching station.	Deficiency	1	\$53,518	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
TP-EQ-03	Equipment	Fiber Optic Connection Addition	Provide data communications equipment to accommodate installation of a leased fiber optic circuit.	Equipment needed when school upgrades its internet connection with a fiber optic circuit leased from Qwest.	Enhancement	2	\$11,410	ASD Cost Estimate	Minor need.	N. Vein	C
TP-EQ-05	Equipment	Projection Screen Upgrade	Provide larger and motorized projection screen in gymnasium and larger projection screen in library.	Existing projection screen in gymnasium is undersized and manually operated. Projection screen in library is undersized.	Deficiency	1	\$24,496	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
TP-EQ-07	Equipment	Window Covering Upgrade	Replace fabric curtains at exterior windows with coated fabric or roller shades.	Some exterior windows do not have window covering. Existing fabric curtains at other exterior windows are not durable and do not adequately block day light.	Deficiency	1	\$34,414	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
TP-ME-01 ECM-M2	Mechanical	Automatic Controls Upgrade	Upgrade the control system front end equipment and software to the district standard - BacNet compatible, web based.	BACnet controls will reduce EMS maintenance and service costs.	Operating Cost	2	\$38,570	Quantum Cost Estimate	Not cost effective because of estimated 10-year payback period.	R. Thomas Energy Consultant	C
TP-ME-03 ECM-M3	Mechanical	Boiler Replacement	Replace boiler with high efficiency condensing boiler.	Boiler replacement will reduce energy costs.	Operating Cost	3	\$205,700	Quantum Cost Estimate	Not cost effective because of estimated 6-year payback period.	R. Thomas Energy Consultant	C
TP-ME-04 ECM-M5	Mechanical	CO2 Control Addition	Provide CO2 sensors in air handlers serving areas of fluctuating occupancy to maintain proper minimum outdoor air settings based on CO2.	CO2 sensors will reduce energy costs.	Operating Cost	1	\$10,285	Quantum Cost Estimate	Not cost effective because of estimated 12-year payback period.	Energy Consultant	C
TP-ME-05 ECM-M6	Mechanical	Domestic Water Heater Replacement	Replace domestic water heater in the north classroom unit with a new high efficiency water heater.	Existing water heater is failing and past its life expectancy. New water heater will reduce energy costs.	Operating Cost	3	\$16,713	Quantum Cost Estimate	Not cost effective because of estimated 6-year payback period.	Energy Consultant	C
TP-ME-06 ECM-M7	Mechanical	Domestic Water Piping Replacement	Replace domestic water piping. The annex would be prioritized, and point-of use hot water heaters would be considered.	Existing domestic water piping is failing. Replacement work should consider conversion to point-of-use hot water heaters.	Operating Cost	3	\$218,557	Quantum Cost Estimate	Not cost effective because of estimated 15-year payback period.	Energy Consultant	C
TP-ME-07	Mechanical	Fire Sprinkler System Addition	Provide fire sprinkler system throughout school.	Buildings are not protected with a fire sprinkler system.	Deficiency	1	\$437,062	Quantum Cost Estimate	Not cost effective.	R. Thomas	C
TP-ME-08	Mechanical	Mechanical Cooling Addition	Provide mechanical cooling at main office area and library.	Library overheats at times during school year and main office area overheats during summer use.	Enhancement	1	\$45,254	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C

# PROPOSED FACILITY IMPROVEMENTS

# TERMINAL PARK ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
TP-ME-09	Mechanical	Natural Gas System Metering	Provide electronic meter for natural gas system connected to energy management system.	Electronic meter will allow remote monitoring of gas service and improve potential for reducing natural gas use.	Operating Cost	1	\$22,370	Quantum Cost Estimate	Minor need at elementary school and long-term payback period.	R. Thomas	C
TP-ME-10 ECM-M4	Mechanical	Occupancy Sensor Temperature Control Addition	Install occupancy sensors in gym and library to set back the spaces when they are unoccupied.	Occupancy sensors will reduce energy consumption and energy costs.	Operating Cost	1	\$25,713	Quantum Cost Estimate	Not cost effective because of estimated 6-year payback period.	Energy Consultant	C
TP-ME-11	Mechanical	Plumbing Fixture Replacement	Replace plumbing fixtures throughout school.	Existing plumbing fixtures are in poor condition, lack water saving features, and do not meet district's minimum standards. Water quality at 47% of fixtures tested exceeded EPA standards for lead or copper.	Operating Cost & Deficiency	1	\$249,026	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	T. Carstens R. Thomas	C
TP-ME-12 ECM-W1	Mechanical	Plumbing Fixture Retrofit Review	Review water saving opportunities including retrofit or replacement of sinks, urinals and water closets.	A reduction in water use will reduce utility costs.	Operating Cost	1	\$38,570	Quantum Cost Estimate	Not cost effective because of estimated 5-year payback period.	Energy Consultant	C
TP-ME-13 EMC-M1	Mechanical	TAB and Commissioning	Perform air and water testing, adjusting and balancing (TAB) on the mechanical systems. Commission the existing HVAC control system to verify proper operation.	Retroactive TAB and commissioning will improve system operation and reduce energy costs.	Operating Cost	1	\$38,570	Quantum Cost Estimate	Not cost effective because of estimated 4-year payback period.	Energy Consultant R. Thomas	C
TP-ME-14	Mechanical	Unit Ventilator Upgrade	Upgrade unit ventilators located in classrooms, library and offices.	Existing unit ventilators in poor condition.	Deficiency	1	\$107,993	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
TP-ME-15	Mechanical	Water Quality Improvements	Replace plumbing at sinks in kitchen (2), library workroom and one classroom. Replace 6 drinking fountains. Replace bubbler in one classroom.	Water quality tests at 4 sinks, some drinking fountains, and one classroom bubblers exceeded EPA water quality standards for lead or copper.	Health / Safety	1	\$25,969	Quantum Cost Estimate	Not needed. Further testing revealed water quality standards being met except at one fixture that will be replaced by Maint. Dept.	B. Kenworthy	C
TP-EL-01	Electrical	Ceiling Mounted LCD Projector Addition	Provide ceiling mounted LCD projector and associated AV and power outlets in each classroom with connection to teacher's work station.	Ceiling mounted projectors desired for ease of use, to reduce theft, and to protect equipment and cables from damage.	Enhancement	2	\$503,452	Quantum Cost Estimate	Not cost effective because of estimated 8-year life of facility.	R. Luke R. Thomas M. Newman	C
TP-EL-02	Electrical	Data Communications Equipment Upgrade	Upgrade data communications equipment filter, router, switch, traffic shaping and connectivity speed.	Existing filter, router, switch, traffic shaping and connectivity speed do not meet district's minimum standards.	Deficiency	2	\$126,050	ASD Cost Estimate	Minor deficiency.	N. Vien	C
TP-EL-03	Electrical	Data Outlet Addition at Teacher's Work Station	Provide data outlets for computers and AV equipment at teacher's work station in each classroom.	Classrooms do not have AV outlets at teacher's work station and do not have floor box with data outlets at front of classroom.	Enhancement	2	\$271,524	Quantum Cost Estimate	Not cost effective.	R. Luke M. Newman	C
TP-EL-05	Electrical	Data Outlet Additions at Support Spaces	Provide additional data outlets at staff lounge and other support spaces where computers are used.	Data outlets are not present at staff lounge and other support spaces where it is desirable to use computers.	Deficiency	2	\$15,428	Quantum Cost Estimate	Minor deficiency.	B. Kenworthy	C
TP-EL-06 ECM-L4	Electrical	Daylighting Control Addition	Provide daylighting control to the fixtures in areas where sufficient ambient light is available	Daylight controls will reduce lighting where sufficient ambient light is available and reduce energy costs.	Operating Cost	2	\$6,428	Quantum Cost Estimate	Not cost effective because of estimated 8-year payback period.	Energy Consultant	C
TP-EL-07	Electrical	Electrical Outlet Additions	Provide additional electrical outlets in classrooms, corridors, offices and workroom.	Classrooms, corridors, offices and workroom do not have enough electrical outlets and do not meet district's minimum standards.	Deficiency	1	\$102,850	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C

# PROPOSED FACILITY IMPROVEMENTS

# TERMINAL PARK ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
TP-EL-08	Electrical	Electrical Service Metering	Provide electronic meter for electrical service connected to energy management system.	Electronic meter will allow remote monitoring of electrical service and improve potential for reducing electrical use.	Operating Cost	1	\$24,941	Quantum Cost Estimate	Minor need at elementary school and long-term payback period.	R. Thomas	C
TP-EL-09 ECM-L2	Electrical	Exit Sign Replacement	Replace incandescent and compact fluorescent exit signs with LED exit signs.	Exit sign replacement will reduce energy consumption and energy costs.	Operating Cost	1	\$12,857	Quantum Cost Estimate	Not cost effective because of estimated 4-year payback period.	Energy Consultant	C
TP-EL-10	Electrical	Exterior Lighting Level Improvements	Provide additional illumination at front entry, bus area, delivery area, parking lot, and pathways.	Existing lighting at front entry, bus and delivery area, parking lot and pathways lacks adequate illumination levels and is below district's minimum standards.	Health / Safety & Deficiency	1	\$126,506	Quantum Cost Estimate	Minor deficiency.	B. Kenworthy	C
TP-EL-11	Electrical	Interior Lighting Level Improvements	Provide additional illumination at classrooms, corridors, kitchen, library, restrooms and support spaces.	Existing lighting at interior areas lacks adequate illumination levels, is below the district's minimum standards and many light fixtures have discolored lenses.	Health / Safety & Deficiency	1	\$128,563	Quantum Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	B. Kenworthy	C
TP-EL-12 ECM-L1	Electrical	Interior Lighting Upgrade	Retrofit or replace T-12 fixtures, magnetic ballast and incandescent fixtures with T-8, electronic ballast and compact fluorescent technology.	Fixture replacement or retrofit will reduce energy costs.	Operating Cost	2	\$141,420	Quantum Cost Estimate	Not cost effective because of estimated 6-year payback period.	Energy Consultant B. Kenworthy R. Thomas	C
TP-EL-14	Electrical	Intrusion Alarm Audible Signal Upgrade	Upgrade intrusion alarm system to provide audible alarm.	Use of audible alarm could reduce intrusions and false alarms.	Enhancement	2	\$46,026	Quantum Cost Estimate	Minor need.	M. Newman	C
TP-EL-15 ECM-L3	Electrical	Occupancy Sensor Lighting Control Addition	Install occupancy sensor in areas with fluctuating occupancy to turn off lights when the spaces are unoccupied.	Occupancy sensors will reduce energy consumption and energy costs.	Operating Cost	2	\$12,857	Quantum Cost Estimate	Not cost effective because of estimated 10-year payback period.	Energy Consultant	C
TP-EL-16	Electrical	Surveillance Camera Addition	Provide surveillance camera system to monitor parking lots and areas around building.	Surveillance cameras could reduce vandalism and theft around building.	Enhancement	1	\$107,993	Quantum Cost Estimate	Minor need.	M. Newman	C
TP-EL-17	Electrical	Telephone System Upgrade	Upgrade telephone system to provide voice mail.	Existing telephone system does not have voice mail feature and does not meet district's minimum standards.	Deficiency	1	\$202,101	Quantum Cost Estimate	Minor deficiency.	R. Thomas	C
TP-MD-01	Modernization	Building Appearance Upgrade	Improve building exterior and interior appearance and provide prominent front entry.	The metal panels installed at the upper section of the classroom windows, gym addition at southwest side, and classroom addition at north side detract from the classic and historic exterior appearance of the building. The building interior has a dated appearance with low ceilings in corridors and minimal day light exposure at main corridor. The building does not have a prominent front entry.	Enhancement	1	\$978,544	BLRB Cost Estimate	Not cost effective.	T. Carstens B. Kenworthy	C
TP-MD-03	Modernization	Classroom Sink Area Additions	Provide sinks and associated cabinets and floor tile area at classrooms in main building.	Classrooms in main building, except kindergarten classroom, do not have sinks.	Deficiency	1	\$62,682	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	T. Carstens B. Kenworthy	C
TP-MD-17	Modernization	Locker Additions	Provide lockers for students in corridors.	School does not have student lockers. Existing corridors may not be wide enough to accommodate lockers.	Deficiency	2	\$120,965	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	T. Carstens B. Kenworthy	C
TP-MD-35	Modernization	Stair Modifications	Provide wider stairway to storage area above stage and additional illumination.	Existing stairway to stage storage area is narrow and poorly lit.	Deficiency	2	\$37,390	BLRB Cost Estimate	Minor deficiency.	T. Carstens B. Kenworthy	C

# PROPOSED FACILITY IMPROVEMENTS

# TERMINAL PARK ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
TP-MD-38	Modernization	Electrical Room / Kiln Room / HC Room Modernizations & Additions	Provide dedicated electrical distribution, kiln and HC telecommunications rooms.	See Improvement Justifications for TP-MD-07, 13 and 37.	Deficiency	2	\$89,381	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	N. Vein T. Carstens B. Kenworthy	C
TP-MD-39	Modernization	Classroom / Custodial / Health Area / Library / Main Office / Restroom / Staff Areas / Storage Modernizations & Additions	Provide three additional classrooms, community storage room, south custodial room, public restrooms, and small conference room. Expand and modernize health area, library, main office area, staff restrooms and workroom, and MC telecommunications room.	See Improvement Justifications for TP-MD-02, 04, 06, 10, 11, 14, 16, 18, 25, 26, 27, 31, 33 and 37.	Health / Safety & Deficiency	1	\$10,336,165	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	N. Vein T. Carstens B. Kenworthy M. Newman ADA Consultant	C
TP-MD-40	Modernization	Custodial / Gym / Kitchen / Maintenance Office / PE Office / Staff Areas / Storage Modernizations & Additions	Provide south custodial room, emergency and PE storage, PE office, and general storage space. Expand and modernize gym, kitchen and serving area, maintenance office, mechanical room, staff restrooms and lounge, and stage.	See Improvement Justifications for TP-MD-06, 08, 09, 15, 19, 20, 23, 24, 29, 31, 32, 34 and 36.	Health / Safety & Deficiency	1	\$6,477,896	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas T. Carstens B. Kenworthy M. Newman ADA Consultant	C
TP-MD-41	Modernization	Itinerant Office / OT-PT Room / Special Education Classroom Additions	Provide itinerant office, OT / PT room and special education classroom.	See Improvement Justifications for TP-MD-12, 22 and 28.	Deficiency	1	\$100,246	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	T. Carstens B. Kenworthy	C
TP-MD-42	Modernization	Kitchen Improvements	Provide hot food wells, two-burner cooktop, floor mixer, combi-oven, and associated electrical and gas service. Enlarge hood to accommodate cooktop and combi-oven. Provide two food prep work tables. Replace tilting kettle, dishwasher and 2-compartment sink with 3-compartment sink. Provide electrical power and data outlets at work desk area. Provide epoxy paint at walls.	Additional equipment and power / data outlets needed to accommodate food service program and meet minimum standards. Replacement equipment needed for for equipment past life expectancy.	Deficiency	1	\$474,376	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	E. Boutin	C
TP-SI-24	Site	Street Frontage Sidewalk Improvement	Provide wider sidewalk at 12th St. SE at south side of school property.	Existing sidewalk at 12th St. SE is 4' wide and 1' less in width than district's minimum standards.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency.	B. Kenworthy	NA
TP-ST-13	Structural	Retaining Wall Repair	Repair retaining wall at south end of site.	Retaining wall repairs are needed to maintain seismic support of retaining wall and prevent future damage.	Deficiency	2	NA	PCS Cost Estimate	Costs included in TP-SI-21.	Structural Engineer	NA
TP-ST-15	Structural	Gym Beam Bearing Support	Provide redundant vertical support at beam bearing locations at unreinforced masonry at gym.	Beam bearing support was determined to be adequate.	Deficiency	NA	NA	PCS Cost Estimate	Additional investigations revealed improvement not needed.	Structural Engineer	NA
TP-EX-04	Exterior	Exterior Painting	Paint areas of exterior wood.	Existing exterior paint is in fair condition at most areas and in poor condition at playshed, north retaining wall, CMU at south wall of 300 unit, and door frame at Corridor 13.	Enhancement	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Thomas B. Kenworthy	NA
TP-IN-06	Interior	Interior Painting	Paint building interior.	Existing interior paint is in fair condition.	Enhancement	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Thomas	NA



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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
TP-EQ-04	Equipment	Instructional Equipment Upgrade	Replace 11 laser printers in classrooms and add 12 computers in library.	Laser printer over 8 years old and past life expectancy. Additional computers needed in library for student use but space on available for these.	Deficiency	NA	NA	No Cost Estimate	Obtained with Technology Levy funds.	R. Luke	NA
TP-EQ-06	Equipment	Restroom Accessory Additions	Provide tampon dispensers and sanitary napkin receptacles in women's staff restrooms.	Women's restrooms do not have tampon dispensers and sanitary napkin receptacles.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	T. Carstens B. Kenworthy	NA
TP-ME-02	Mechanical	Automatic Controls Upgrade	Upgrade the control system front end equipment and software to the district standard - BacNet compatible, web based.	BACnet controls will reduce EMS maintenance and service costs.	Operating Cost	2	NA	Quantum Cost Estimate	Included in item TP-ME-01, ECM-M2	R. Thomas Energy Consultant	NA
TP-EL-04	Electrical	Data Outlet Addition at Classrooms	Provide two more data outlets in each classroom for student use.	Classrooms have 4 data outlets for student use and 6 are required by districts minimum standards.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency. Outlets can be added by district using splitter and existing data wiring.	B. Kenworthy	NA
TP-EL-13	Electrical	Internet Connection Upgrade	Increase bandwidth of school's internet connection.	Increased bandwidth desired to provide long-term and efficient access for information technology via the internet.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency. Existing internet connection meets district's minimum standard.	R. Luke	NA
TP-MD-02	Modernization	Classroom Addition	Provide three additional classrooms.	School has 20 classrooms which is three less than district's minimum standard.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in TP-MD-39.	B. Kenworthy	NA
TP-MD-04	Modernization	Community Storage Room Addition	Provide space for community storage.	Building does not have a community storage room.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in TP-MD-39.	B. Kenworthy	NA
TP-MD-05	Modernization	Corridor Improvements	Increase ceiling height, conceal or remove exposed pipes, and provide day light to main corridor.	Main corridor has a low ceiling, exposed pipes, and no windows resulting in a dark and confining space.	Deficiency	NA	NA	BLRB Cost Estimate	Not cost effective.	T. Carstens B. Kenworthy	NA
TP-MD-06	Modernization	Custodial Room Modernization	Provide additional and larger custodial rooms.	Building has one undersized custodial room. Additional rooms needed close to kitchen and at each classroom wing.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in TP-MD-39 and 40.	T. Carstens B. Kenworthy	NA
TP-MD-07	Modernization	Electrical Distribution Room Addition	Provide a designated space for the main electrical distribution equipment.	The existing main electrical distribution equipment is located in the boiler room that includes a custodial sink and source of water.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in TP-MD-38.	T. Carstens B. Kenworthy	NA
TP-MD-08	Modernization	Emergency Storage Room Addition	Provide space within building for storage of emergency supplies.	Building does not have space for storage of emergency supplies. Existing supplies kept in exterior storage container.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in TP-MD-40.	B. Kenworthy R. Thomas	NA
TP-MD-09	Modernization	Gym Modernization	Modernize gym to provide larger space with upgraded floor, two retractable and four fixed basketball backboards, 20' high ceiling, and ADA access to exterior.	Existing gym is oversized and 400 SF or 11% below district's minimum standard. Gym has a rubber floor in fair condition, does not have an adequate number of basketball backboards, and has a low ceiling that interferes with volleyball play, and does not have ADA access to exterior.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in TP-MD-40.	T. Carstens B. Kenworthy	NA
TP-MD-10	Modernization	Health Restroom Expansion	Provide ADA compliant and larger health restroom.	Existing health restroom is not ADA compliant and is undersized at 15 SF or 30% less than district's minimum standard.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in TP-MD-39.	T. Carstens B. Kenworthy ADA Consultant	NA
TP-MD-11	Modernization	Health Room Expansion	Provide larger health room.	Existing health room is undersized and 25 SF or 20% less than district's minimum standard.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in TP-MD-39.	T. Carstens B. Kenworthy	NA

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
TP-MD-12	Modernization	Itinerant Office Addition	Provide office for itinerant staff.	Building does not have office for itinerant staff. Itinerant staff currently uses large conference room.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in TP-MD-41.	T. Carstens B. Kenworthy	NA
TP-MD-13	Modernization	Kiln Room Addition	Provide dedicated room, ventilation system, and fire protection system for kiln.	Existing kiln is located in boiler room and does not have ventilation or fire protection system.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in TP-MD-38.	B. Kenworthy	NA
TP-MD-14	Modernization	Kindergarten Classroom Modernization	Provide a kindergarten classroom with a restroom within the classroom.	Building has only one classroom that meets district's minimum standards for kindergarten space.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in TP-MD-39.	T. Carstens B. Kenworthy	NA
TP-MD-15	Modernization	Kitchen and Serving Area Modernization	Relocate and modernize kitchen and serving area to provide large spaces that meet district's standards.	Existing kitchen is undersized 180 SF or 22%, has a low ceiling, and not centrally located. Designated serving area not provided. Wall and floor surfaces do not meet district's minimum standards. Storage space and walk-in cooler and freezer are undersized. Kitchen manager work area with desk, data and POS outlets and telephone not provided. Two-burner cook top, combi-oven, mixer, hot food wells, and three-compartment sink not provided. Tilting steam kettle is inefficient to use. Dishwasher is beyond recommended life expectancy. Work space and table area for food prep is not adequate.	Health / Safety & Deficiency	1	NA	BLRB Cost Estimate	Costs included in TP-MD-40.	T. Carstens B. Kenworthy E. Boutin M. Newman R. Thomas	NA
TP-MD-16	Modernization	Library Area Modernization	Expand and modernize library, library workroom, computer work area and AV storage to meet district's standards.	Existing library is undersized and 500 SF or 23% smaller than district's minimum standard. Circulation area does not have a designated teaching area and an adequate amount of bookshelves. Ceiling at north end of room is low. Library workroom is a shared office space with PE instructor, is not close to entrance, and does not have adequate visual connection to circulation area. Circulation desk is not located near library entrance. Computer work area is undersized and will only accommodate 10 computer stations and district's minimum standards requires 26 stations. AV storage room is undersized and not located close to library entrance and a corridor.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in TP-MD-39.	T. Carstens B. Kenworthy M. Newman	NA
TP-MD-18	Modernization	Main Office Area Modernization	Modernize and relocate main office area to provide larger reception and office area, central location and directly adjacent to main entry, dedicated work room, visual link to front entry and principal's office, direct access to mail boxes, and work area within main office area.	Existing office is undersized and 42 SF or 10% below the district's minimum standard, does not have a dedicated reception area (instead the adjacent corridor is used), does not have a visual link to front entry and principal's office, and work area with staff mail boxes not directly accessible and visually connected to office area.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in TP-MD-39.	T. Carstens B. Kenworthy M. Newman	NA
TP-MD-19	Modernization	Maintenance Office Relocation	Provide a maintenance office that is adjacent to a corridor and close to a delivery area.	Existing maintenance office is only accessible through boiler room and is not close to delivery area.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in TP-MD-40.	T. Carstens B. Kenworthy	NA
TP-MD-20	Modernization	Mechanical Room Upgrade	Remodel mechanical room to eliminate electrical distribution panels and kiln within this space. Enlarge access doors.	Existing use of room for main distribution electrical panels and kiln conflict with mechanical equipment use. Access doors not large enough to accommodate replacement of mechanical equipment.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in TP-MD-38.	B. Kenworthy	NA

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
TP-MD-21	Modernization	Music Room Relocation	Provide music room that is close to gym.	Existing music room is not close to gym which is inconvenient when moving instruments and piano to gym stage for performances.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency.	T. Carstens	NA
TP-MD-22	Modernization	OT / PT Room Addition	Provide OT / PT room.	Building does not have a designated room for OT/PT. OT / PT staff currently share large conference room with other itinerant staff.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in TP-MD-41.	T. Carstens B. Kenworthy	NA
TP-MD-23	Modernization	PE Equipment Storage Expansion	Provide larger storage room with double doors for PE equipment.	Existing PE storage room is undersized and 200 SF or 67% less than district's minimum standards. Existing room has a single door which makes access difficult for carts and equipment.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in TP-MD-40.	T. Carstens B. Kenworthy	NA
TP-MD-24	Modernization	PE Office Addition	Provide office for PE instructor.	Building does not have a PE office. PE instructor currently shares office with librarian.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in TP-MD-40.	T. Carstens B. Kenworthy	NA
TP-MD-25	Modernization	Pre-School Classroom Addition	Provide pre-school classrooms with restroom and changing table.	Building does not have classrooms with restroom and changing table for preschool classes.	Deficiency	4	NA	BLRB Cost Estimate	Costs included in TP-MD-39.	B. Kenworthy	NA
TP-MD-26	Modernization	Public Restroom Addition	Provide public restrooms in main building area and convenient to gym.	Public restrooms are not provided in main building which requires public to use gym, staff or student restrooms.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in TP-MD-39.	T. Carstens B. Kenworthy	NA
TP-MD-27	Modernization	Small Conference Room Addition	Provide small conference room.	Building does not have a small conference room.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in TP-MD-39.	T. Carstens B. Kenworthy	NA
TP-MD-28	Modernization	Special Education Classroom Modernization	Provide special education classroom with restroom and testing room.	Building does not have classrooms with restroom and testing room for special education classes.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in TP-MD-41.	T. Carstens B. Kenworthy	NA
TP-MD-29	Modernization	Staff Lounge Modification	Provide larger staff lounge and locate staff lounge close to kitchen..	Existing staff lounge is 15 SF and slightly smaller than district's minimum standard and does not have convenient access to kitchen.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in TP-MD-40.	T. Carstens B. Kenworthy	NA
TP-MD-30	Modernization	Staff Parking Access Improvement	Provide direct building access from staff parking lot.	Existing staff parking lot does not have direct building access except through the gym which makes building access inconvenient and less safe at night.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in TP-SI-23.	T. Carstens	NA
TP-MD-31	Modernization	Staff Restroom Modernization	Provide larger, additional and ADA compliant staff restrooms.	Building has only one men's and one women's staff restrooms. These restrooms are undersized, are not ADA compliant, have only a single toilet fixture, and are not located in each classroom wing.	Health / Safety & Deficiency	1	NA	BLRB Cost Estimate	Costs included in TP-MD-39 and 40.	T. Carstens B. Kenworthy ADA Consultant	NA
TP-MD-32	Modernization	Staff Telephone Room Modernization	Provide large staff telephone room with a ventilation system.	Existing staff telephone room is undersized and 25 SF or 60 % less than district's minimum standard, and does not have a ventilation system.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in TP-MD-40.	T. Carstens B. Kenworthy	NA
TP-MD-33	Modernization	Staff Workroom Modernization	Modernize staff workroom to provide additional storage space, cabinets and electrical outlets.	Existing staff workroom lacks adequate storage space and cabinets because a portion of the room is used for staff mail boxes. Workroom does not have adequate electrical outlets to accommodate required equipment.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in TP-MD-39.	T. Carstens	NA

# PROPOSED FACILITY IMPROVEMENTS

# TERMINAL PARK ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
TP-MD-34	Modernization	Stage Modernization	Provide larger stage that is ADA accessible with direct access from corridor and operable wall to separate room from gym.	Existing stage is undersized and 500 SF or 55% smaller than district's minimum standards, is not ADA accessible, is only accessible through gym, and does not have an operable wall to provide acoustical and physical separation from gym.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in TP-MD-40.	T. Carstens B. Kenworthy ADA Consultant	NA
TP-MD-36	Modernization	Storage Space Addition	Provide additional space for storage of furniture, general equipment and supplies, instructional material, miscellaneous items, and maintenance equipment.	Building does not have dedicated rooms for storage of furniture, miscellaneous items, and maintenance equipment. Existing storage rooms for general equipment and instructional materials are undersized and 100 SF or 33% less than the district's minimum standard.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in TP-MD-40.	T. Carstens B. Kenworthy	NA
TP-MD-37	Modernization	Telecommunication Rooms Modernization	Provide dedicated MC and HC rooms each with independent mechanical ventilation and cooling systems.	Existing HC and MC rooms are undersized, lack independent HVAC systems, and are also used as custodial and AV storage rooms.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in TP-MD-38 and 39.	N. Vein T. Carstens B. Kenworthy	NA

# PROPOSED FACILITY IMPROVEMENTS

# WASHINGTON ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
WA-SI-12 ECM-W2 ECM-M6	Site	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station and add a rain gauge.	Connection to the EMS and the addition of a rain gauge will reduce water consumption and utility costs.	Operating Cost	1	\$7,715	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant R. Thomas	A
WA-SI-14	Site	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars, directional arrows, and bus stall numbers. Add striping for bus stalls, basketball court in playshed, one pickleball court, and one more box hockey game. Restripe all existing painted pavement markings.	Thermo-plastic markings needed at critical areas that quickly wear away. New striping needed at bus stalls, playshed, one pickleball court and one box hockey game. Existing painted lines are worn, difficult to see, and require repainting.	Deficiency	1	\$2,285	BLRB Cost Estimate		P. Thomas B. Kenworthy	A
WA-SI-17	Site	Traffic Signage Improvements	Provide signage to designate visitor parking stalls and student drop off and pick up area.	Signs needed to control and restrict traffic at visitor parking stalls and student drop off and pick up area.	Deficiency	3	\$685	BLRB Cost Estimate		B. Kenworthy	A
WA-EQ-03	Equipment	Gym Basketball Backboard Addition	Provide 4 additional backboards at sidewalls in gym.	Gym does not have enough backboards to meet district's minimum standards and to accommodate PE classes.	Deficiency	4	\$23,220	BLRB Cost Estimate		B. Kenworthy	A
WA-ME-01 ECM-M2	Mechanical	Automatic Controls Upgrade	Upgrade the control system front end equipment and software to the district standard - BacNet compatible, web based.	BACnet controls will reduce EMS maintenance and service costs.	Operating Cost	2	\$38,570	Quantum Cost Estimate	Estimated 10-year payback period.	R. Thomas Energy Consultant	A
WA-ME-02 ECM-M3	Mechanical	CO2 Control Addition	Expand Alerton control system to add CO2 control to the main air handling systems in the gym and library.	CO2 control will regulate the amount of outside air being delivered to the occupied spaces based on CO2 levels and reduce energy usage.	Operating Cost	1	\$10,285	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant	A
WA-ME-05 ECM-M5	Mechanical	Heat Pump Addition	Provide new rooftop heat pumps for the gymnasium classrooms.	Existing gym classrooms 501 and 502 overheat, have poor ventilation, and lack adequate temperature control.	Operating Cost & Deficiency	3	\$179,988	Quantum Cost Estimate	Estimated 12-year payback period.	Energy Consultant	A
WA-ME-07 ECM-M4	Mechanical	Occupancy Sensor Temperature Control Addition	Install occupancy sensors in gym and library to set back the spaces when they are unoccupied.	Occupancy sensors will reduce energy consumption and energy costs.	Operating Cost	1	\$19,285	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant	A
WA-ME-08 ECM-M1	Mechanical	TAB and Commissioning	Perform air and water testing, adjusting and balancing (TAB) on the mechanical systems. Commission the existing HVAC control system to verify proper operation.	Retroactive TAB and commissioning will improve system operation and reduce energy costs.	Operating Cost	1	\$38,570	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant R. Thomas	A
WA-ME-09 ECM-W1	Mechanical	Plumbing Fixture Retrofit Review	Review water saving opportunities including retrofit or replacement of sinks, urinals and water closets.	A reduction in water use will reduce utility costs.	Operating Cost	1	\$38,570	Quantum Cost Estimate	Estimated 5-year payback period.	Energy Consultant	A
WA-EL-05 ECM-L2	Electrical	Exit Sign Replacement	Replace incandescent and compact fluorescent exit signs with LED exit signs.	Exit sign replacement will reduce energy consumption and energy costs.	Operating Cost	1	\$12,857	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant	A
WA-EL-06	Electrical	Exterior Lighting Level Improvements	Provide additional illumination at front entry, bus area, delivery area, parking lots and pathways.	Existing lighting at exterior area lacks adequate illumination levels and is below minimum standards.	Health / Safety & Deficiency	3	\$126,506	Quantum Cost Estimate		P. Thomas B. Kenworthy	A
WA-EL-09 ECM-L1	Electrical	Interior Lighting Upgrade	Retrofit or replace T-12 fixtures, magnetic ballast and incandescent fixtures with T-8, electronic ballast and compact fluorescent technology.	Fixture replacement or retrofit will reduce energy costs.	Operating Cost	2	\$141,420	Quantum Cost Estimate	Estimated 6-year payback period.	Energy Consultant B. Kenworthy R. Thomas	A
WA-SI-03	Site	Climbing Equipment Curb Addition	Provide concrete curb around perimeter of climbing equipment areas.	Existing wood curb is in fair condition.	Enhancement	2	\$39,977	BLRB Cost Estimate		R. Thomas	B

# PROPOSED FACILITY IMPROVEMENTS

# WASHINGTON ELEMENTARY SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
WA-SI-05	Site	Climbing Equipment Ground Surface Upgrade	Provide engineered wood fiber for ground surface at climbing equipment areas.	Existing wood chips used for ground surface are sharp and can cause splinters.	Deficiency	1	\$50,131	BLRB Cost Estimate		R. Thomas	B
WA-SI-06	Site	Climbing Equipment Upgrade	Expand climbing equipment, replace wood climbing structures with non-wood structures and add equipment suitable for special needs students.	The quantity of existing climbing equipment does not meet school district's minimum standards. Some of the existing wood climbing structures are poor condition. Existing climbing equipment is not suitable for special needs children attending the school.	Deficiency	1	\$87,948	BLRB Cost Estimate		P. Thomas B. Kenworthy	B
WA-SI-15	Site	Playground Equipment Additions	Provide 4 additional basketball hoops in playshed, post and nets for one pickle ball court, and one box hockey game.	Existing playground does not meet standards for basketball hoops, pickle ball and box hockey equipment.	Deficiency	3	\$27,756	BLRB Cost Estimate		B. Kenworthy	B
WA-SI-09	Site	Exterior Bench Addition	Provide 8 benches at playground area.	Exterior benches are not provided where needed at playground.	Deficiency	2	\$21,930	BLRB Cost Estimate		R. Thomas B. Kenworthy	B+
WA-SI-10	Site	Exterior Waste Receptacle Upgrade	Provide ornamental waste receptacle at front entry and waste receptacles with push door tops at playground and parking lot.	An ornamental waste receptacle is desired at front entry and push door covers are needed at existing waste receptacles at playground and parking lot.	Enhancement	3	\$6,751	BLRB Cost Estimate		R. Thomas B. Kenworthy	B+
WA-SI-01	Site	ADA Site Improvements	Provide miscellaneous site improvements to comply with ADA standards that do not significantly affect access to building.	Miscellaneous site areas, which do not significantly affect access to the building, could be improved to comply with current ADA standards.	Enhancement	4	\$44,367	BLRB Cost Estimate	Minor need and non-mandatory improvements.	ADA Consultant	C
WA-SI-02	Site	Bicycle Rack Addition	Provide addition bike rack.	Existing bike rack will accommodate 12 bikes and district's minimum standard identifies 24 bikes.	Deficiency	3	\$2,933	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
WA-SI-04	Site	Climbing Equipment Area Drainage Improvements	Provide sub-drain system at climbing equipment areas.	Existing wood chip climbing equipment areas drain poorly and are saturated with water much of the school year.	Enhancement	1	\$324,336	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
WA-SI-07	Site	Delivery Area Improvements	Modify delivery area to add a second delivery stall and to locate delivery stalls adjacent to kitchen.	Delivery area will only accommodate a single delivery vehicle and is not adjacent to kitchen which requires additional handling of delivery items.	Deficiency	4	\$1,142	BLRB Cost Estimate		B. Kenworthy	C
WA-SI-08	Site	Vehicle Gate Additions	Provide vehicle gate at staff parking lot and delivery area.	Staff parking lot and delivery area do not have vehicle gates to restrict access after school hours.	Deficiency	4	\$10,280	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
WA-SI-11	Site	Hard Surface Play Area Expansion	Provide larger hard surface play area.	Existing hard surface play area is undersized by 17,500 SF and 36% smaller than district's minimum standard.	Deficiency	2	\$545,880	BLRB Cost Estimate	Not cost effective and would result in a reduction of grass play area.	B. Kenworthy	C
WA-SI-13	Site	Parking and Access Improvements	Modify, expand and improve staff and visitor parking, bus loading and student drop off area.	Staff parking, visitor parking, bus loading area and student drop off areas are undersized. Staff parking will accommodate 38 vehicles which is 22 less than district's minimum standard. Seven visitor stalls are provided which is 3 less than district's minimum standard. Bus loading area will accommodate 3 buses which is 7 less than district's minimum standard. Student drop off area will accommodate 7 vehicles which is 13 less than the district's minimum standard. Currently, visitors and parent pick up vehicles use staff parking lot and where buses also load. This creates significant congestion.	Deficiency	2	\$1,288,568	BLRB Cost Estimate	Not cost effective and would result in a reduction of hard surface play area and landscape area.	P. Thomas B. Kenworthy	C

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
WA-SI-16	Site	Site Sign Upgrade	Replace site sign with concrete or masonry sign that includes school address.	Existing site sign is made of wood, not durable and does not identify school address.	Deficiency	3	\$57,110	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
WA-EX-01	Exterior	Exterior Window Addition	Provide additional or larger windows at two classroom in 500 unit.	Existing windows at 500 unit classrooms are undersized do not meet district's minimum standard.	Deficiency	3	\$23,985	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
WA-EX-03	Exterior	Roof Fall Arrest Anchors Addition	Provide fall arrest system at pitched roof areas.	Pitched roofs do not have fall arrest safety system.	Health / Safety	4	\$90,804	BLRB Cost Estimate	Minor deficiency.	R. Thomas	C
WA-EX-04	Exterior	Roof Insulation Upgrade	Increase roof insulation at low slope roof at 500 unit.	Existing roof insulation at low slope roof at north side of 500 building is R-9 and does not meet district's R-19 minimum standard.	Operating Cost	4	\$6,436	BLRB Cost Estimate	Not feasible because of location and type of existing insulation.	B. Kenworthy	C
WA-IN-01	Interior	ADA Building Improvements	Provide miscellaneous building improvements to comply with ADA standards that do not significantly affect access within the building.	Miscellaneous building areas, which do not significantly affect access within the building, could be improved to comply with current ADA standards.	Enhancement	2	\$80,067	BLRB Cost Estimate	Minor need and non-mandatory improvements.	ADA Consultant	C
WA-IN-02	Interior	Gym Floor Upgrade	Provide wood floor in gym.	Existing rubber floor is in good condition but does not meet district's recommended standard for wood floor.	Enhancement	1	\$136,915	BLRB Cost Estimate	Minor need.	R. Thomas	C
WA-EQ-01	Equipment	Computer Furniture Upgrade	Provide furniture designed for computer and other technology equipment use.	Existing furniture used for computer and technology equipment is lacking and in many cases not designed for this use.	Deficiency	2	NA	ASD Cost Estimate	Existing computer furniture is adequate.	R. Luke	C
WA-EQ-02	Equipment	Fiber Optic Connection Addition	Provide data communications equipment to accommodate installation of a leased fiber optic circuit.	Equipment needed when school upgrades its internet connection with a fiber optic circuit leased from Qwest.	Enhancement	2	\$11,410	ASD Cost Estimate	Minor need.	N. Vein	C
WA-EQ-04	Equipment	Gym Projection Screen Upgrade	Provide larger and motorized projection screen in gym.	Existing projection screen in gym is undersized and manually operated.	Deficiency	1	\$13,061	BLRB Cost Estimate	Minor need.	P. Thomas B. Kenworthy	C
WA-EQ-07	Equipment	Wireless Computer Station Additions	Provide wireless computer equipment and workstation furniture for use at front of each classroom.	Wireless computer equipment will allow teachers to use ceiling mounted LCD projectors from work station and front of classroom in lieu of adding power and data outlets in floor at much higher cost.	Enhancement	1	NA	No Cost Estimate	Obtained with Technology Levy funds.	R. Luke M. Newman	C
WA-ME-03	Mechanical	Fire Sprinkler System Bracing	Provide additional seismic bracing to existing fire sprinkler system in compliance with FM Global standards.	Additional bracing will reduce risk of broken fire sprinkler lines during an earthquake.	Enhancement	3	\$102,850	Quantum Cost Estimate	Not cost effective.	M. Newman	C
WA-ME-04	Mechanical	Heating and Ventilation System Improvements	Improve the heating and ventilation system at two classrooms and gym in 500 unit.	Existing gym and classrooms 501 and 502 overheat, have poor ventilation, and lack adequate temperature control.	Deficiency	1	NA	Quantum Cost Estimate	Costs included in WA-ME-05.	P. Thomas	C
WA-ME-06	Mechanical	Natural Gas System Metering	Provide electronic meter for natural gas system connected to energy management system.	Electronic meter will allow remote monitoring of gas service and improve potential for reducing natural gas use.	Operating Cost	4	\$22,370	Quantum Cost Estimate	Minor need at elementary school and long-term payback period.	R. Thomas	C
WA-ME-10	Mechanical	Water Quality Improvements	Replace plumbing at sink library workroom.	Water quality tests at sink in library workroom exceeded EPA water quality standards for lead or copper.	Health / Safety	4	\$2,572	Quantum Cost Estimate	Not needed. Further testing revealed water quality standards being met.	B. Kenworthy	C

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
WA-EL-01	Electrical	Ceiling Mounted LCD Projector Addition	Provide ceiling mounted LCD projector and associated AV and power outlets in each classroom with connection to teacher's work station.	Ceiling mounted projectors desired for ease of use, to reduce theft, and to protect equipment and cables from damage.	Enhancement	1	\$526,335	Quantum Cost Estimate	Not cost effective.	R. Luke R. Thomas M. Newman	C
WA-EL-03	Electrical	Data Communications Equipment Upgrade	Upgrade data communications equipment filter, router, switch, traffic shaping and connectivity speed.	Existing filter, router, switch, traffic shaping and connectivity speed do not meet district's minimum standards.	Deficiency	2	\$126,050	ASD Cost Estimate	Minor need.	N. Vien	C
WA-EL-04	Electrical	Electrical Service Metering	Provide electronic meter for electrical service connected to energy management system.	Electronic meter will allow remote monitoring of electrical service and improve potential for reducing electrical use.	Operating Cost	3	\$24,941	Quantum Cost Estimate	Minor need at elementary school and long-term payback period.	R. Thomas	C
WA-EL-08	Electrical	Interior Lighting Level Improvements	Provide additional illumination at some locations in corridors and restrooms.	Existing lighting at some interior areas lacks adequate illumination levels and is below the district's minimum standard.	Health / Safety & Deficiency	3	\$38,570	Quantum Cost Estimate		B. Kenworthy	C
WA-EL-10	Electrical	Intrusion Alarm Audible Signal Upgrade	Upgrade intrusion alarm system to provide audible alarm.	Use of audible alarm could reduce intrusions and false alarms.	Enhancement	3	\$46,026	Quantum Cost Estimate	Minor need.	M. Newman	C
WA-EL-11 ECM-L3	Electrical	Occupancy Sensor Lighting Control Addition	Install occupancy sensor in areas with fluctuating occupancy to turn off lights when the spaces are unoccupied.	Occupancy sensors will reduce energy consumption and energy costs.	Operating Cost	2	\$10,285	Quantum Cost Estimate	Estimated 8-year payback period.	Energy Consultant	C
WA-EL-12	Electrical	Surveillance Camera Addition	Provide surveillance camera system to monitor parking lots and areas around building.	Surveillance cameras could reduce vandalism and theft around building.	Enhancement	3	\$107,993	Quantum Cost Estimate	Minor need.	M. Newman L. Cowan	C
WA-EL-13	Electrical	Teacher's Work Station Data Outlet Addition	Provide data outlets for computers and AV equipment at teacher's work station in each classroom.	Classrooms do not have AV outlets at teacher's work station and do not have floor box with data outlets at front of classroom.	Enhancement	2	\$283,866	Quantum Cost Estimate	Not cost effective.	R. Luke M. Newman	C
WA-MD-05	Modernization	Health Area Modernization	Expand nurses office and health restroom.	Existing nurse's office and health restroom are undersized. Nurse's office is 10% smaller and restroom is 20% smaller than district's minimum standard and..	Deficiency	4	\$34,908	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
WA-MD-09	Modernization	Library Natural Daylight Improvements	Provide daylight at Library.	Library does not have exterior windows or skylight for natural daylight.	Deficiency	3	\$47,058	BLRB Cost Estimate	Not cost effective.	B. Kenworthy	C
WA-MD-13	Modernization	PE Equipment Storage Expansion	Provide larger storage room with double doors for PE equipment.	Existing PE storage room is undersized by 50 SF and is 17% smaller than district's minimum standards. Existing room has a single door which makes access difficult for carts and equipment.	Deficiency	4	\$59,690	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
WA-MD-16	Modernization	Staff Restroom Upgrade	Provide larger and additional staff restrooms.	Existing staff restrooms in two classroom wings are uni-sex, undersized and have a single toilet fixture. No designated staff restrooms in other parts of building. Instead staff use public restroom near main office.	Deficiency	4	\$150,168	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
WA-MD-18	Modernization	Storage Space Improvements	Provide additional space for storage of community and emergency supplies and furniture. Relocate and provide wider door to maintenance storage room.	Building does not have space or dedicated rooms for storage of community supplies, emergency supplies, and furniture. Maintenance storage room requires access through gym and door is 3' wide. Wider door would improve access for equipment and carts.	Deficiency	2	\$14,734	BLRB Cost Estimate	Minor deficiency.	P. Thomas B. Kenworthy	C



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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
WA-MD-20	Modernization	Main Office / Conference Room Modernizations & Additions	Provide a large conference room. Expand and modernize main office area.	See Improvement Justifications for WA-MD-07 and 10.	Deficiency	4	\$386,373	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
WA-MD-21	Modernization	Community Storage / Maintenance Office Modernizations & Additions	Provide a community storage room. Provide a large maintenance office located in the main building near the delivery area.	See Improvement Justifications for WA-MD-03 and 11.	Deficiency	4	\$43,668	BLRB Cost Estimate	Minor deficiency.	P. Thomas B. Kenworthy	C
WA-MD-22	Modernization	Classroom / Emergency Storage / Office / Library / Stage / Telecommunications Modernizations & Additions	Provide an additional classroom, emergency storage room, itinerant office, and stage. Modernize special education and pre-school classrooms. Modernize and expand library, OT / PT room and MC telecommunications room.	See Improvement Justifications for WA-MD-02, 04, 06, 08, 12, 15, 17 and 19.	Deficiency	4	\$2,160,141	BLRB Cost Estimate	Minor deficiency.	P. Thomas R. Thomas B. Kenworthy N. Vein ADA Consultant	C
WA-SI-18	Site	Grass Play Area Expansion	Provide larger grass play area.	Existing grass play area is undersized by 7,000 SF and 10% less than district's minimum standard. Additional play area desired for recess and community use.	Deficiency	NA	NA	No Cost Estimate	Not cost effective because of site constraints.	R. Thomas	NA
WA-EX-02	Exterior	Roof Access Improvements	Modify areas of building exterior to reduce potential for unauthorized roof access.	Existing building design allows easy roof access which results in vandalism.	Enhancement	NA	NA	No Cost Estimate	Not feasible because of the building design.	M. Newman	NA
WA-EX-05	Exterior	Skylight Upgrade	Replace skylight over playshed with panel system with 300-pound point load capacity.	Existing skylights do not meet district's minimum standard for point load capacity.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency because unauthorized access to roof is difficult.	R. Thomas	NA
WA-EQ-05	Equipment	Office Equipment Upgrade	Provide copy machine and replace FAX machine in main office area.	Copy machine not provided in main office. Office staff uses copier in staff workroom. FAX machine is 10 years old and past life expectancy.	Deficiency	NA	NA	No Cost Estimate	Obtained as leased equipment or with Technology Levy funds.	R. Luke	NA
WA-EQ-06	Equipment	Instructional Equipment Upgrade	Provide additional laser printer in library.	Library has one laser printer which does not meet district's minimum standard for two laser printers.	Deficiency	NA	NA	No Cost Estimate	Obtained with Technology Levy funds.	R. Luke	NA
WA-EL-02	Electrical	Classroom Data Outlet Additions	Provide two additional data outlets for student use in classrooms.	Classrooms have 4 rather than the minimum standard of 6 data outlets in each room for student computers.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency. Outlets can be added by district using splitter and existing data wiring.	B. Kenworthy	NA
WA-EL-07	Electrical	Internet Connection Upgrade	Increase bandwidth of school's internet connection.	Increased bandwidth desired to provide long-term and efficient access for information technology via the internet.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency. Existing internet connection meets district's minimum standard.	R. Luke	NA
WA-MD-01	Modernization	Building Enclosure Modernization	Provide access between 500 unit (gym building) and main building within enclosed space.	School consists of separate main building and gym building connected by covered walkways. This inhibits supervision, requires students and staff to go outdoors to travel between buildings, and does not meet district's minimum standards.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency.	B. Kenworthy	NA
WA-MD-02	Modernization	Classroom Addition	Provide additional classroom..	School has 22 classrooms which is one less than district's minimum standard.	Deficiency	4	NA	BLRB Cost Estimate	Costs included in WA-MD-22.	B. Kenworthy	NA
WA-MD-03	Modernization	Community Storage Room Addition	Provide space for community storage.	Building does not have a community storage room.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in WA-MD-21.	P. Thomas	NA

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
WA-MD-04	Modernization	Emergency Storage Room Addition	Provide space within building for storage of emergency supplies.	Building does not have space for storage of emergency supplies. Existing supplies kept in exterior storage container.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in WA-MD-22.	B. Kenworthy	NA
WA-MD-06	Modernization	Itinerant Office Addition	Provide office for itinerant staff.	Building does not have office for itinerant staff. Itinerant staff currently uses a storage closet.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in WA-MD-22.	J. Trauffer B. Kenworthy	NA
WA-MD-07	Modernization	Large Conference Room Addition	Provide large conference room.	School does not have a large conference room.	Deficiency	4	NA	BLRB Cost Estimate	Costs included in WA-MD-20.	B. Kenworthy	NA
WA-MD-08	Modernization	Library Expansion and Modernization	Expand library, add computer work stations, and add natural lighting.	Existing library study and circulation area does not have natural daylight and is undersized by 500 SF and 23% smaller than district's minimum standard. This results in an undersized computer lab area that does not have enough computers to meet district's minimum standard.	Deficiency	4	NA	BLRB Cost Estimate	Costs included in WA-MD-22.	B. Kenworthy	NA
WA-MD-10	Modernization	Main Office Area Modernization	Expand and modify main office area to provide a larger main office area and mail room, dedicated reception and office workrooms, and visual connection to front entry door.	Existing main office is undersized by 30 SF and 8% smaller than district's minimum standard. Mail room is 40 SF and 33 % below minimum standard. Main office area does not have a workroom area or dedicated reception area. Front entry corridor used as reception area. Not possible to visually supervise front entry door from secretary's area.	Deficiency	4	NA	BLRB Cost Estimate	Costs included in WA-MD-20.	B. Kenworthy	NA
WA-MD-11	Modernization	Maintenance Office Modernization	Provide larger maintenance office and locate office near delivery area.	Existing maintenance office is slightly undersized, is not located in main building, and does not have convenient access to delivery area.	Deficiency	4	NA	BLRB Cost Estimate	Costs included in WA-MD-21.	B. Kenworthy	NA
WA-MD-12	Modernization	OT / PT Office Expansion	Provide larger OT / PT office.	Existing OT / PT office is undersized by 50 SF and 21% smaller than district's minimum standard.	Deficiency	4	NA	BLRB Cost Estimate	Costs included in WA-MD-22.	B. Kenworthy	NA
WA-MD-14	Modernization	Playshed Expansion	Provide larger playshed.	Existing playshed is undersized by 400 SF and 25% smaller than the district's minimum standard.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency.	B. Kenworthy	NA
WA-MD-15	Modernization	Special Education Classroom Modernization	Provide special education classroom with restroom and testing room.	Building does not have a classroom with restroom and testing room for special education classes.	Deficiency	4	NA	BLRB Cost Estimate	Costs included in WA-MD-22.	P. Thomas B. Kenworthy	NA
WA-MD-17	Modernization	Stage Addition	Provide permanent stage connected to gym.	Permanent stage not present at school. Existing retractable stage uses up seating area for assemblies and programs, lacks adequate stage lighting, is difficult to operate, does not have wheelchair access, and does not provide an additional permanent area for instrumental music classes.	Deficiency	4	NA	BLRB Cost Estimate	Costs included in WA-MD-22.	B. Kenworthy ADA Consultant	NA
WA-MD-19	Modernization	Telecommunication Rooms Upgrade	Provide larger MC room and separate HC room each with independent mechanical ventilation and cooling systems.	Existing MC room undersized and existing MC equipment is located in a storage room. Both spaces lack independent HVAC systems.	Deficiency	4	NA	BLRB Cost Estimate	Costs included in WA-MD-22.	N. Vein B. Kenworthy	NA

# PROPOSED FACILITY IMPROVEMENTS

# CASCADE MIDDLE SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
CA-SI-01	Site	Accessible Parking Stall Additions	Change 3 standard parking stalls to 2 handicap stalls at north parking lot. Add signage designating handicap parking stalls.	Three additional handicap parking stalls and associated signage required to comply with ADA.	Deficiency	3	\$2,285	BLRB Cost Estimate		ADA Consultant	A
CA-SI-07	Site	Baseball and Softball Infield Improvements	Add and regrade soil at baseball and softball infields. Add clay block soil amendment to baseball field's pitcher's mound and batter's box.	Existing soil at infields is uneven and clay block is needed at baseball field's pitcher's mound and batter's box to improve drainage.	Deficiency	2	\$93,568	BLRB Cost Estimate		R. Thomas R. Swaim B. Kenworthy	A
CA-SI-09	Site	Cinder Track Upgrade	Add cinders and regrade running track.	Existing track surface is uneven with areas of settlement and ponding water.	Deficiency	3	\$117,074	BLRB Cost Estimate		R. Thomas	A
CA-SI-10	Site	Courtyard Slab Improvement	Replace wood trim expansion joints at courtyard concrete slab.	Existing wood trim pieces are deteriorating.	Deficiency	2	\$9,921	BLRB Cost Estimate		B. Kenworthy	A
CA-SI-11	Site	Curb Ramp Additions	Provide curb ramp at sidewalk at front entrance and at north parking lot.	Ramps needed for wheelchair access.	Deficiency	1	\$9,138	BLRB Cost Estimate		ADA Consultant D. Grad	A
CA-SI-12	Site	Curb Repair	Replace sections of broken curb.	Existing concrete curbs are broken in a limited number of areas.	Deficiency	3	\$2,055	BLRB Cost Estimate		R. Thomas B. Kenworthy	A
CA-SI-21	Site	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station.	Connection to the EMS and a weather station will reduce water consumption and utility costs.	Operating Cost	1	\$6,428	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant R. Thomas	A
CA-SI-23	Site	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars, directional arrows, and bus stall numbers. Restripe all existing painted pavement markings at parking lots. Add thermo-plastic markings at for cross-walks at entry driveways and at staff parking lot at north side of school. Restripe game lines at outdoor play area.	Thermo-plastic markings needed at critical areas that quickly wear away. Additional cross-walk needed at entry driveways and at staff parking lot between street sidewalk and 200 unit. Existing game lines are faded and need to be repainted.	Deficiency	1	\$2,285	BLRB Cost Estimate		R. Thomas B. Kenworthy	A
CA-SI-29	Site	Underground Storage Tank Removal	Remove underground 1,000 gallon starter and 10,000 gallon primary fuel oil storage tank that serves heating system.	Existing underground tanks are not used and present an environmental risk.	Deficiency	1	\$54,985	BLRB Cost Estimate		R. Thomas	A
CA-SI-34	Site	Tennis Court Fence Removal	Remove chainlink fence and posts at tennis courts.	Tennis courts not used and fencing is unattractive and inhibits use of tennis courts for student circulation and outdoor play area.	Deficiency	2	\$13,087	BLRB Cost Estimate		R. Thomas	A
CA-SI-35	Site	Baseball and Softball Outfield Turf Improvements	Aerate, top dress and overseed grass turf baseball and softball outfields.	Existing grass turf at baseball and softball field is rough and in marginal condition.	Deficiency	2	\$331,692	ASD Cost Estimate		R. Thomas R. Swaim B. Kenworthy	A
CA-SI-36	Site	Baseball and Softball Field Backstop Improvements	Install full chainlink hood at baseball backstop. Replace softball backstop with new cone-type backstop and chainlink wing sections each 60' long and 10' high plus dugout fencing.	A hood is needed at baseball field backstop to reduce foul balls being hit into adjacent street. Existing backstop at softball field is undersized and should be replaced with a cone type backstop to reduce foul balls being hit into adjacent street and residences.	Deficiency	3	\$31,476	ASD Cost Estimate		R. Thomas R. Swaim B. Kenworthy	A
CA-ST-01	Structural	Masonry Wall / Roof Anchoring	Provide anchorage between masonry walls and the low roof structure at 500 Unit.	Positive anchorage between masonry walls and low roof structure will improve seismic support of 500 building.	Deficiency	2	\$31,525	PCS Cost Estimate		Structural Engineer	A

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# CASCADE MIDDLE SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
CA-ST-02	Structural	AHIC Plywood Sheathing Addition	Remove existing finishes, provide plywood sheathing and new finishes under the attic east of Room 511.	Plywood sheathing will provide additional shear resistance.	Deficiency	2	\$23,754	PCS Cost Estimate		Structural Engineer	A
CA-ST-03	Structural	Roof Diaphragm Connection Addition	Provide connection at the roof diaphragm joint between the original roof structure and the 1988 addition.	A positive connection between the original roof structure and the 1998 addition roof structure will improve seismic support.	Deficiency	2	\$1,527	PCS Cost Estimate		Structural Engineer	A
CA-ST-04	Structural	Masonry Chimney Anchoring	Provide roof blocking and tension ties into the masonry chimney.	Securing the masonry chimney to the roof structure will reduce the potential for damage to chimney and roof.	Deficiency	2	\$6,061	PCS Cost Estimate		Structural Engineer	A
CA-ST-05	Structural	Commons Column Reinforcement Repair	Repair exposed reinforcing at Commons.	Concrete repair is needed to protect reinforcing from future deterioration.	Deficiency	2	\$9,775	PCS Cost Estimate		Structural Engineer	A
CA-ST-06	Structural	Mechanical Equipment Anchoring	Anchor equipment at mechanical room.	Anchoring mechanical equipment in accordance with current code requirements will reduce potential for equipment and structural damage.	Deficiency	2	\$2,445	PCS Cost Estimate		Structural Engineer	A
CA-ST-07	Structural	Gym Column Reinforcement Repair	Repair exposed reinforcing at concrete column at south side of gym.	Concrete repair is needed to protect reinforcing from future deterioration.	Deficiency	2	\$6,110	PCS Cost Estimate		Structural Engineer	A
CA-ST-08	Structural	Concrete Column Grout Repair	Repair grout at top of concrete columns and under beam bearing plates.	Damaged and missing grout should be replaced to prevent stress concentrations within the columns.	Deficiency	2	\$12,220	PCS Cost Estimate		Structural Engineer	A
CA-EX-01	Exterior	Automatic Door Opener Addition	Provide automatic door opener at front entry doors.	Building does not have automatic door opener at main entry doors.	Enhancement	1	\$19,550	BLRB Cost Estimate		J. Trauffer M. Newman D. Grad	A
CA-EX-08	Exterior	Masonry Water Repellant Application	Provide application of water repellant at exterior masonry.	Existing masonry lacks a water repellant coating to protect against moisture penetration.	Deficiency	3	\$112,277	BLRB Cost Estimate		R. Thomas	A
CA-IN-03	Interior	Carpet Replacement	Replace carpet in 100 unit.	Existing carpet in 100 unit is worn and does not meet district's minimum standards. Carpet in other areas was replaced in 1998 and is in good condition.	Deficiency	2	\$156,706	BLRB Cost Estimate		R. Thomas	A
CA-IN-04	Interior	Ceiling Repairs	Repair or replace areas of damaged ceiling tile in 500 unit.	Areas of existing ceiling tile in 500 unit are damaged.	Deficiency	1	\$52,785	BLRB Cost Estimate		B. Kenworthy	A
CA-IN-09	Interior	Field House Cabinet Addition	Provide locking storage cabinets in field house.	Cabinets with locks needed in field house for secure storage of athletic equipment.	Deficiency	3	\$4,400	BLRB Cost Estimate		R. Swaim	A
CA-IN-10	Interior	Interior Door Hardware Upgrade	Replace interior door handles with ADA compliant lever handles.	Most existing door handles not ADA compliant.	Enhancement	1	\$53,763	BLRB Cost Estimate		R. Thomas	A
CA-IN-15	Interior	PE Storage Cabinet Addition	Provide additional storage cabinets in PE storage room.	Additional cabinets needed for secure storage of PE and gym equipment.	Deficiency	3	\$3,959	BLRB Cost Estimate		R. Swaim	A
CA-EQ-01	Equipment	Classroom Furniture Upgrade	Replace teacher and student furniture in classrooms.	Existing classroom furniture is old and mismatched.	Deficiency	1	\$124,304	ASD Cost Estimate		B. Kenworthy	A
CA-EQ-02	Equipment	Computer Furniture Upgrade	Provide furniture designed for computer and other technology equipment use.	Existing furniture used for computer and technology equipment is lacking and in many cases not designed for this use.	Deficiency	2	\$8,833	ASD Cost Estimate		R. Luke	A
CA-EQ-05	Equipment	Gymnastics Vault Table Addition	Provide gymnastics vault training table.	The existing vault horse is not standard gymnastics equipment and is less safe than a table vault.	Health / Safety	2	\$5,598	ASD Cost Estimate	Vault table can be purchased with school PE funds.	R. Swaim	A
CA-EQ-07	Equipment	Office and Workroom Furniture Upgrade	Replace office and workroom furniture.	Existing office and workroom furniture is old and mismatched.	Deficiency	1	\$816	ASD Cost Estimate		B. Kenworthy	A

# PROPOSED FACILITY IMPROVEMENTS

# CASCADE MIDDLE SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
CA-EQ-10	Equipment	Wrestling Mat Holder Addition	Provide mat holders and associated electrical power and control in auxiliary gym to hang wrestling mats from ceiling.	Mat holders desired to allow off-season ceiling storage of wrestling mats to free up storage space in PE equipment room.	Enhancement	1	\$34,500	BLRB Cost Estimate		R. Swaim	A
CA-ME-01	Mechanical	Art Room Eye Wash Addition	Provide eye wash in art room area.	Eye wash needed for student safety.	Health / Safety	2	\$2,829	Quantum Cost Estimate		D. Grad B. Kenworthy	A
CA-ME-02 ECM-M5	Mechanical	Automatic Controls Upgrade	Upgrade control system front end and software to the district standard - BacNet compatible, web based.	BACnet controls will reduce EMS maintenance and service costs.	Operating Cost	2	\$38,570	Quantum Cost Estimate	Estimated 6-year payback period.	R. Thomas Energy Consultant	A
CA-ME-04	Mechanical	Circulation Pump Replacement	Replace circulation pumps for hot water heating system.	Existing pumps are not reliable.	Deficiency	1	\$25,199	Quantum Cost Estimate		R. Thomas	A
CA-ME-05	Mechanical	Classroom HVAC Improvements	Improve HVAC system at interior classrooms in 300 and 400 units.	HVAC system at interior classrooms in 300 and 400 unit frequently malfunctions and does not always maintain comfortable temperatures.	Deficiency	1	\$22,370	Quantum Cost Estimate		D. Grad	A
CA-ME-06 ECM-M4	Mechanical	CO2 Control Addition - 100 / 200 / 500 Units	Expand control system to add CO2 control to the main air handling systems in commons, gym and stage, industrial technology lab and library.	CO2 control will regulate the amount of outside air being delivered to the occupied spaces based on CO2 levels and reduce energy usage.	Operating Cost	1	\$30,855	Quantum Cost Estimate	Estimated 5-year payback period.	Energy Consultant	A
CA-ME-07 EMC-M10	Mechanical	Dishwasher Booster Heater Replacement	Resize and replace the dishwasher booster heater.	A new and properly sized dishwasher booster heater will reduce energy costs.	Operating Cost	2	\$9,000	Quantum Cost Estimate	Estimated 10-year payback period.	Energy Consultant	A
CA-ME-08	Mechanical	Drinking Fountain Replacement	Replace non-operable drinking fountains in 300 and 400 units and in commons.	Some drinking fountains in school do not function.	Deficiency	1	\$24,427	Quantum Cost Estimate		D. Grad	A
CA-ME-10	Mechanical	Drying Room Heat and Ventilation Upgrade	Provide improved heating and ventilation system for drying room with a bypass timer and controls connected to EMS.	Existing heat and ventilation system in drying room is inadequate, frequently malfunctions, and does not have a bypass timer or remote control from EMS.	Deficiency	1	\$12,085	Quantum Cost Estimate		D. Grad	A
CA-ME-13 EMC-M7	Mechanical	Hot Water Piping Insulation	Insulate the supply and return heating water piping.	Insulation will reduce energy costs and reduce the potential for overheating in spaces where uninsulated heating pipes are located.	Operating Cost	2	\$12,857	Quantum Cost Estimate		Energy Consultant	A
CA-ME-14 EMC-M6	Mechanical	Locker Room Air Handler Improvement	Provide a runaround heat recovery loop for locker room air handlers.	Heat recovery loop will reduce energy consumption and energy costs.	Operating Cost	1	\$51,425	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant	A
CA-ME-15	Mechanical	Mechanical Cooling Addition	Provide mechanical cooling at main office area and library.	Library overheats at times during school year and main office area overheats during summer use.	Enhancement	1	\$44,997	Quantum Cost Estimate		R. Thomas	A
CA-ME-17 EMC-M2	Mechanical	Occupancy Sensor Temperature Control Addition - Classrooms	Expand control system to add occupancy sensor control to the VAV boxes serving in classrooms.	Occupancy sensor control will setback the space temperature and airflow when classrooms are unoccupied and will reduce energy costs.	Operating Cost	2	\$89,995	Quantum Cost Estimate	Estimated 10-year payback period.	Energy Consultant	A
CA-ME-18 EMC-M3	Mechanical	Occupancy Sensor Temperature Control Addition - Non-Classroom Areas	Expand control system to add occupancy sensor control to the VAV boxes serving commons, gym and stage, library, locker rooms, and music rooms.	Occupancy sensor control will setback the space temperature and airflow when rooms are unoccupied and will reduce energy costs.	Operating Cost	2	\$25,713	Quantum Cost Estimate	Estimated 6-year payback period.	Energy Consultant	A
CA-ME-20 ECM-W1	Mechanical	Plumbing Fixture Replacement - Partial	Replace waterclosets and provide aerators for sinks.	A reduction in water use will reduce utility costs.	Operating Cost	1	\$64,282	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant	A

# PROPOSED FACILITY IMPROVEMENTS

# CASCADE MIDDLE SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
CA-ME-21 ECM-M8	Mechanical	Stack Dampers Linkage Reconnection	Reconnect the stack dampers on the heating water boiler to shut off air through the stack when the boiler is not firing.	Stack damper reconnection will reduce energy costs.	Operating Cost	1	\$1,928	Quantum Cost Estimate	Estimated 3-year payback period.	Energy Consultant	A
CA-ME-22 ECM-M1	Mechanical	TAB and Commissioning	Perform air and water testing, adjusting and balancing (TAB) on the mechanical systems. Commission the existing HVAC control system to verify proper operation.	Retroactive TAB and commissioning will improve system operation and reduce energy costs.	Operating Cost	2	\$102,850	Quantum Cost Estimate	Estimated 6-year payback period.	Energy Consultant R. Thomas	A
CA-ME-23	Mechanical	Telecommunication Rooms Cooling and Ventilation Addition	Provide independent mechanical ventilation and cooling system in existing MC room and HC rooms.	Existing MC and HC rooms lack independent HVAC systems needed to keep data equipment from overheating and damaging equipment.	Deficiency	1	\$37,541	Quantum Cost Estimate		N. Vein B. Kenworthy	A
CA-ME-26	Mechanical	CO2 Control Addition - Library	Expand control system to add CO2 control to the main air handling system in library.	CO2 control will regulate the amount of outside air being delivered to the occupied spaces based on CO2 levels and reduce energy usage.	Operating Cost	1	\$7,715	Quantum Cost Estimate	Estimated 5-year payback period.	Energy Consultant	A
CA-EL-08	Electrical	Data Outlet Addition at Library	Provide 18 additional data outlets in library at student computer stations.	Existing student computer lab area has 8 data outlets for 26 computers.	Deficiency	1	\$27,770	Quantum Cost Estimate		B. Kenworthy	A
CA-EL-09	Electrical	Emergency Generator Replacement	Replace emergency generator and transfer switch.	Existing generator does not operate and is not cost effective to repair.	Deficiency	1	\$105,936	Quantum Cost Estimate		R. Thomas	A
CA-EL-10 ECM-L4	Electrical	Exit Sign Replacement	Replace incandescent and compact fluorescent exit signs with new LED exit signs.	Exit light replacement will reduce energy costs.	Operating Cost	1	\$19,285	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant	A
CA-EL-11	Electrical	Exterior Lighting Level Improvements	Provide additional illumination at front entry, bus area, delivery area, pathways, and the north and east parking lots.	Existing exterior lighting at exterior lacks adequate illumination levels and is below district's minimum standards.	Health / Safety & Deficiency	2	\$127,534	Quantum Cost Estimate		B. Kenworthy M. Newman	A
CA-EL-13 ECM-L2	Electrical	Main Gym Lighting Replacement	Replace HID fixtures in the main gym with new fixtures using T-8 or T-5 technology.	Lighting replacement will reduce energy costs.	Operating Cost	2	\$25,713	Quantum Cost Estimate	Estimated 6-year payback period.	Energy Consultant	A
CA-EL-15 ECM-L1	Electrical	Interior Lighting Upgrade	Retrofit or replace T-12 fixtures, magnetic ballast and incandescent fixtures with T-8, electronic ballast and compact fluorescent technology.	Fixture replacement or retrofit will reduce energy costs.	Operating Cost	2	\$231,413	Quantum Cost Estimate	Estimated 6-year payback period.	Energy Consultant R. Thomas	A
CA-EL-18	Electrical	Library Electrical Outlet Additions	Provide 4 electrical outlets at search stations and 18 additional electrical outlets at student computer stations in library.	Existing search stations do not have dedicated electrical outlets and computer lab area has 8 electrical outlets for 26 computers.	Deficiency	1	\$22,627	Quantum Cost Estimate		B. Kenworthy	A
CA-EL-19 ECM-L3	Electrical	Occupancy Sensor Lighting Control Addition	Provide occupancy sensor in areas with fluctuating occupancy to turn off lights when the spaces are unoccupied.	Occupancy sensors will reduce energy costs.	Operating Cost	2	\$12,857	Quantum Cost Estimate	Estimated 7-year payback period.	Energy Consultant	A
CA-MD-11	Modernization	Foods Classroom Modernization	Expand and modernized foods classroom to provide 8 cooking stations.	Existing foods classrooms has only 6 cooking stations which does not adequately accommodate a full class of students.	Deficiency	1	\$10,312	BLRB Cost Estimate		D. Grad B. Kenworthy	A
CA-MD-15	Modernization	Industrial Technology Modernization	Modernize industrial technology classroom and lab.	Existing industrial technology area does not have separate areas for a classroom and lab, does not have operable equipment and sawdust collector, and is not used for industrial technology instruction.	Deficiency	3	\$213,107	BLRB Cost Estimate		D. Grad B. Kenworthy	A

# PROPOSED FACILITY IMPROVEMENTS

# CASCADE MIDDLE SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
CA-MD-23	Modernization	Locker Room Locker Additions	Provide additional lockers in boy's and girl's locker rooms.	Both locker rooms need 50 additional box lockers and 25 additional half-height lockers to meet district's minimum standards and to adequately accommodate PE classes.	Deficiency	1	\$24,438	BLRB Cost Estimate		D. Grad B. Kenworthy	A
CA-MD-24	Modernization	Locker Room Restroom Addition	Provide restrooms that are directly accessible from locker rooms with additional toilet fixtures and ADA compliant.	Existing restrooms at locker rooms are accessible to the public and require students to leave the locker room for access. These restrooms do not have adequate number of toilet fixtures and are not ADA compliant.	Deficiency	2	\$134,011	BLRB Cost Estimate		D. Grad B. Kenworthy	A
CA-MD-26	Modernization	Music Office Improvements	Provide interior window between music office and band and orchestra rooms.	Interior window needed to allow visual supervision of band and orchestra room from music office.	Deficiency	2	\$4,372	BLRB Cost Estimate		B. Kenworthy	A
CA-MD-32	Modernization	Public Restroom Addition	Convert locker room restrooms to public restrooms that are ADA compliant.	Public restrooms are not provided in building. This causes visitors to use staff, student, and locker room restrooms. The locker room restrooms are in the general vicinity of the gym, commons and library but are currently used by students.	Deficiency	2	\$134,011	BLRB Cost Estimate		D. Grad B. Kenworthy	A
CA-MD-34	Modernization	Special Education Classroom Addition	Provide special education classroom that includes a testing room and ADA compliant restroom.	School does not have a special education room. Special education program uses a standard classroom without restroom or testing room.	Deficiency	1	\$57,992	BLRB Cost Estimate		D. Grad B. Kenworthy	A
CA-MD-38	Modernization	Structured Learning Classroom Addition	Provide classroom for structured learning that includes ADA compliant restroom, shower, changing area and testing room.	School does not have a dedicated space for a structured learning program that includes an ADA compliant restroom with changing table, shower and testing room facilities. Currently, this program uses a standard classroom.	Deficiency	1	\$60,376	BLRB Cost Estimate		K. Herren M. Newman J. Trauffer	A
CA-MD-43	Modernization	Visual Communications Classroom Addition	Provide a visual communications classroom.	School does not have a visual communications classroom.	Deficiency	3	\$170,525	BLRB Cost Estimate		D. Grad B. Kenworthy	A
CA-MD-50	Modernization	Auxiliary Gym Improvements	Modernize auxiliary gym by providing 6 side-swing basketball backboards, wall mats below backboards, game line striping on floor, scoreboard and control panel, and new light fixtures. Paint walls and ceiling, and replace operable wall with motorized divider curtain.	Existing auxiliary gym does not have scoreboard, divider curtain and basketball backboards. Operable wall does not function, lighting level is below minimum standards, and light fixtures do not have protective covers.	Deficiency	2	\$332,595			D. Grad B. Kenworthy R. Swaim	A
CA-MD-51	Modernization	Kitchen Improvements	Provide combi-oven and associated electrical and gas service. Enlarge hood to accommodate combi-oven. Replace dishwasher, reach-in coolers, steamer and kettle. Replace existing 110 SF walk-in cooler / freezer with new 160 SF walk-in cooler / freezer that utilizes a portion of the existing storage room 211A. Provide quarry tile floor and epoxy paint at walls and ceilings.	Combi-oven needed to accommodate food service program and meet minimum standards. Replacement equipment needed for for equipment past life expectancy. New and larger walk-in cooler and freezer needed. Floor and wall finishes need to be upgraded.	Deficiency	1	\$807,415	ASD Cost Estimate		E. Boutin D. Grad B. Kenworthy	A
CA-MD-52	Modernization	Kitchen Serving Area Improvement	Provide a third line for serving lunch.	Existing kitchen has two serving lines. A third serving line with associated food service equipment is needed to reduce the amount of time students wait in line to be served.	Enhancement	2	\$105,082	BLRB Cost Estimate		E. Boutin	A

# PROPOSED FACILITY IMPROVEMENTS

# CASCADE MIDDLE SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
CA-SI-03	Site	Asphalt Paving Upgrade	Patch and overlay or replace asphalt at parking lots and outdoor student areas.	Existing asphalt surfaces are cracked and settled in areas.	Deficiency	3	\$516,266	BLRB Cost Estimate		R. Thomas B. Kenworthy	B
CA-SI-22	Site	Landscape Plant Additions	Provide shade and drought resistant shrubs and ground cover in planters adjacent to classroom buildings.	Existing planters have few plants. Most plants have died because they were not suited for the dry and shady conditions where the planters are located. New plants in these areas will significantly improve exterior appearance of school.	Deficiency	2	\$9,921	BLRB Cost Estimate		R. Thomas B. Kenworthy	B
CA-SI-31	Site	Visitor Parking and Student Drop Off Expansion	Provide additional visitor parking with signage and additional student drop off area.	Existing visitor parking has 16 stalls and is 4 less than district's minimum standard. Existing student drop off area will accommodate 10 vehicles and district's minimum standard is 18 vehicles. Signage needed to designate all visitor parking stalls.	Deficiency	2	\$202,244	BLRB Cost Estimate		B. Kenworthy	B
CA-EX-02	Exterior	Covered Walkway Ceiling Upgrade	Replace sheet rock ceilings at covered walkways with MDO plywood.	Existing sheet rock ceilings at covered walkways are easily damaged and susceptible to stains and mold.	Deficiency	1	\$705,755	BLRB Cost Estimate		D. Grad	B
CA-EX-03	Exterior	Exterior Door and Frame Upgrade	Replace exterior wood doors and frames with metal doors and frames.	Existing exterior wood doors and frames are in fair condition but do not meet district's minimum standard for metal doors and frames.	Deficiency	3	\$215,417	BLRB Cost Estimate		R. Thomas B. Kenworthy	B
CA-ME-16	Mechanical	Natural Gas System Metering	Provide electronic meter for natural gas system connected to energy management system.	Electronic meter will allow remote monitoring of gas service and improve potential for reducing natural gas use.	Operating Cost	3	\$22,884	Quantum Cost Estimate		R. Thomas	B
CA-ME-19	Mechanical	Plumbing Fixture Replacement - Full	Replace plumbing fixtures throughout school.	Existing plumbing fixtures are in poor condition, lack water saving features, and do not meet district's minimum standards.	Operating Cost & Deficiency	2	\$109,793	Quantum Cost Estimate		R. Thomas	B
CA-ME-24	Mechanical	Unit Ventilator Replacement	Replace unit ventilators throughout school.	Existing unit ventilators are past life expectancy.	Enhancement	1	\$194,643	Quantum Cost Estimate		R. Thomas	B
CA-EL-17	Electrical	Intrusion Alarm Audible Signal Upgrade	Upgrade intrusion alarm system to provide audible alarm.	Use of audible alarm could reduce intrusions and false alarms.	Enhancement	3	\$69,141	Quantum Cost Estimate		M. Newman	B
CA-EL-20	Electrical	Surveillance Camera Addition	Provide surveillance camera system to monitor parking lots and areas around building.	Surveillance cameras could reduce vandalism and theft around building.	Enhancement	1	\$123,163	Quantum Cost Estimate		M. Newman R. Luke	B
CA-EL-21	Electrical	Telephone System Upgrade	Upgrade telephone system to provide voice mail.	Existing telephone system does not have voice mail feature and does not meet district's minimum standards.	Deficiency	2	\$525,564	Quantum Cost Estimate		R. Thomas	B
CA-SI-14	Site	Exterior Bench Additions	Provide 8 additional exterior benches.	Two exterior benches needed at front entry and 6 needed at courtyard areas.	Deficiency	3	\$23,460	BLRB Cost Estimate		B. Kenworthy	B+
CA-SI-18	Site	Exterior Waste Receptacle Upgrade	Provide ornamental waste receptacle at front entry and waste receptacles with push door tops at other areas.	Existing exterior waste receptacles are galvanized cans and many do not have covers.	Enhancement	2	\$7,222	BLRB Cost Estimate		R. Thomas	B+



# PROPOSED FACILITY IMPROVEMENTS

# CASCADE MIDDLE SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
CA-SI-02	Site	ADA Site Improvements	Provide miscellaneous site improvements to comply non-mandatory ADA standards.	School was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous site areas, which do not significantly affect access to the building, could be improved to comply with current ADA standards. Site improvements needed to provide ADA required program access are identified separately.	Enhancement	1	\$70,674	BLRB Cost Estimate	Minor need and non-mandatory improvements.	ADA Consultant	C
CA-SI-04	Site	Baseball and Softball Backstop Upgrade	Provide new baseball and softball field backstops, increase height backstop fencing, and extend fencing further along first and third base lines.	Larger backstops and fence extensions needed along baselines needed to reduce number of foul balls hit into surrounding streets and neighbor's property.	Health / Safety & Deficiency	2	\$87,389	BLRB Cost Estimate	Not cost effective. See CA-SI-36 for a portion of this improvement.	R. Thomas R. Swaim B. Kenworthy	C
CA-SI-06	Site	Baseball and Softball Dugout Roof Addition	Provide roof at baseball and softball field dugouts.	Roof desired to protect players and equipment from rain.	Enhancement	3	\$24,438	BLRB Cost Estimate	Minor need.	R. Swaim	C
CA-SI-08	Site	Bus Stall Modifications	Increase width of bus stalls from 12' to 16' wide.	Existing bus stalls are too narrow for easy parking and movement of buses. An increase in width of stalls from 12' to 16' would reduce number of bus stalls from 17 to 15.	Deficiency	1	\$916	BLRB Cost Estimate	Minor deficiency.	J. Denton	C
CA-SI-13	Site	Exterior Basketball Backboard Improvements	Replace damaged rims and paint exterior basketball backboards.	Existing exterior backboards and hoops are in old but in adequate condition if painted and damaged rims are replaced.	Deficiency	2	\$4,400	BLRB Cost Estimate	Maintenance item.	R. Thomas B. Kenworthy	C
CA-SI-15	Site	Exterior Bleacher Addition	Provide bleachers for at least 40 spectators at softball field.	Softball field does not have spectator bleachers. District's standards require bleacher seating for 40 to 60 spectators.	Deficiency	2	\$43,988	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
CA-SI-17	Site	Exterior Signage Improvements	Provide new and additional directional signs at building exteriors.	Existing exterior directional signage is limited and not effective for providing directions around campus.	Deficiency	2	\$61,095	BLRB Cost Estimate	Minor deficiency.	D. Grad R. Thomas B. Kenworthy	C
CA-SI-19	Site	Fence Gate Repair	Repair fence gates.	Some fence gates are difficult to operate and have damaged fence fabric.	Deficiency	2	\$1,370	BLRB Cost Estimate	Maintenance item.	D. Grad	C
CA-SI-20	Site	Football Field Synthetic Turf Upgrade	Replace grass turf football field with infill system synthetic turf field.	Existing grass turf field can be used only part of the school year and requires considerable maintenance and irrigation to provide a safe and durable playing surface. Synthetic turf would provide a better surface that could be used all year and cost less to maintain.	Operating Cost & Enhancement	3	\$2,205,660	DA Hogan	Not cost effective.	M. Newman	C
CA-SI-24	Site	Playfield Irrigation Upgrade	Provide new irrigation system at grass turf playfields and connect system to existing well.	Existing playfield irrigation system is in fair condition and uses City water. Use of existing well for this irrigation will reduce utility costs.	Operating Cost	2	\$534,545	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
CA-SI-25	Site	Running Track and Field Event Upgrade	Replace cinder track with rubberized track surface.	Existing cinder track and field event areas do not provide a good running surface, is a source of dust that is objectionable to users of the track and adjacent football / soccer field, requires considerable maintenance and can be used only part of the school year. A rubberized track and field event areas would provide a better surface that could be used all year and cost less to maintain.	Enhancement	3	\$1,346,429	DA Hogan	Not cost effective.	R. Swaim	C
CA-SI-26	Site	Site Sign Addition	Provide monument sign with school name and address.	School does not have a site sign to identify the facility and its address.	Deficiency	2	\$61,095	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C

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CA-SI-27	Site	Street Sidewalk Improvements	Provide sidewalk at west section of 24th St. NE.	A section of the existing street at 24th St. NE does not have a sidewalk.	Deficiency	2	\$67,104	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
CA-SI-28	Site	Tennis Court Fence Replacement	Replace perimeter fence at tennis courts.	Existing fence at tennis courts is in poor condition.	Deficiency	2	\$12,565	BLRB Cost Estimate	Minor need. See CA-SI-34 for a portion of these improvements.	R. Thomas	C
CA-SI-30	Site	Vehicle Gate Additions	Provide pipe rail vehicle gates at entry to staff parking lot.	Staff parking area does not have vehicle gate to restrict vehicle access after school hours.	Deficiency	2	\$34,945	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
CA-SI-32	Site	Synthetic Athletic Surface Additions - Football Field and Track	Replace grass turf football field with infill system synthetic turf field. Replace cinder track, long jump and high jump areas with rubberized surface.	See Improvement Justifications for CA-SI-20 and CA-SI-25. A synthetic turf football field and rubberized track and field event areas would provide better surfaces that could be used all year and cost less to maintain. Constructing these improvements at the same time will cost less than building them separately because a combined underdrain system could be used.	Enhancement	2	\$3,167,535	DA Hogan	Not cost effective.	R. Swaim M. Newman	C
CA-SI-33	Site	Athletic & PE Field Improvements	Relocate and build new cinder track and grass turf football / soccer field at west side of existing playfield area. Replace existing baseball field at same location with new dirt infield, new grass outfield, larger backstop and covered dugouts. Relocate and build softball field at northeast corner of existing playfield area including new dirt infield, new grass outfield, larger backstop and covered dugouts. Provide new irrigation system connected to existing well at all grass turf areas at football / soccer field, baseball field and softball field.	Existing baseball field not usable for baseball games because of short distance between homeplate and track. Existing dirt infield and grass outfield at baseball and softball fields in fair to poor condition. Backstops need to be taller to reduce number of foul balls hit into adjacent streets. Existing irrigation system is 41 years old and is no longer connected to well.	Deficiency	2	\$1,344,411	BLRB Cost Estimate	Not cost effective.	R. Thomas R. Swaim B. Kenworthy	C
CA-EX-05 ECM-G1	Exterior	Exterior Window Replacement	Replace single-pane exterior windows with dual glazing.	Dual glazed windows will improve energy efficiency and reduce energy costs.	Operating Cost & Deficiency	3	\$385,688	Quantum Cost Estimate	Not cost effective because of estimated 15-year payback period.	Energy Consultant	C
CA-EX-06	Exterior	Exterior Window and Window Covering Upgrade	Replace single-pane exterior windows with dual glazing and integral blinds.	Dual glazed windows will improve energy efficiency and integral blinds will reduce damage to and maintenance of window blinds.	Operating Cost & Deficiency	3	\$336,467	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
CA-IN-01	Interior	ADA Building Improvements	Provide miscellaneous building improvements to comply non-mandatory ADA standards.	School was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous building areas, which do not significantly affect access within the building, could be improved to comply with current ADA standards. Improvements needed to provide ADA required program access within the building are identified separately.	Enhancement	1	\$542,915	BLRB Cost Estimate	Minor need and non-mandatory improvements.	ADA Consultant	C
CA-IN-02	Interior	Asbestos Containing Material Removal	Remove approximately 130 SF of cement asbestos board, 6 asbestos-containing sections of wire sheathing, and asbestos containing gaskets, caulking and sealants.	Existing cement board, some wire sheathing, and some gaskets, caulking and sealants contain asbestos. All asbestos is encapsulated within the material and is not friable.	Enhancement	1	\$12,220	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
CA-IN-05	Interior	Classroom Bookshelf Additions	Provide bookshelves in classrooms.	Existing cabinets in classrooms meet district's minimum standards except for a shortage of bookshelves.	Deficiency	3	\$23,093	BLRB Cost Estimate	Minor deficiency.	R. Thomas B. Kenworthy	C
CA-IN-08	Interior	Corridor Tackboard Additions	Provide additional tackboards in corridors.	Additional tackboards needed in corridor for announcements and displays. Placement of additional tackboards will be difficult because nearly all corridor walls have lockers.	Deficiency	3	\$11,242	BLRB Cost Estimate	Not feasible because of limited open wall space in corridors.	R. Thomas	C
CA-IN-17	Interior	Vinyl Tile Replacement	Replace vinyl floor tile in art, science and industrial technology classrooms.	Existing vinyl tile does not contain asbestos but is worn and deteriorated in areas.	Deficiency	2	\$137,241	BLRB Cost Estimate	Minor deficiency.	R. Thomas B. Kenworthy	C
CA-IN-18	Interior	Walk Off Mat Upgrade	Provide walk off mats at all building entrances and larger mats where walk off mats currently located.	Some exterior doors do not have walk off mats. Where mats are present, they should be larger mats for dirt control.	Deficiency	2	\$83,577	BLRB Cost Estimate	Not cost effective until carpeting in corridors is replaced.	R. Thomas	C
CA-EQ-03	Equipment	Fiber Optic Connection Addition	Provide data communications equipment to accommodate installation of a leased fiber optic circuit.	Equipment needed when school upgrades its internet connection with a fiber optic circuit leased from Qwest.	Enhancement	2	\$11,410	ASD Cost Estimate	Minor need.	N. Vein	C
CA-EQ-04	Equipment	Gym Shot Clock Addition	Provide two 3-second shot clocks and associated electrical power and controls in main gym.	Existing gym does not have shot clocks to use during basketball games.	Deficiency	4	\$8,626	BLRB Cost Estimate		B. Kenworthy	C
CA-EQ-06	Equipment	Main Gym Scoreboard Addition	Provide an additional scoreboard and associated electrical power and controls in main gym.	Existing main gym has one scoreboard and meets district's minimum standard. The installation of a second scoreboard will improve visibility for spectators and meet district's recommended standard.	Enhancement	3	\$69,000	BLRB Cost Estimate	Minor need.	R. Swaim	C
CA-EQ-08	Equipment	Toilet Partition Hardware Repair	Repair broken latch hardware at toilet partitions.	Some toilet partitions have broken latches.	Deficiency	NA	NA	No Cost Estimate	Maintenance item. Extent of damage is minor.	D. Grad B. Kenworthy	C
CA-EQ-11	Equipment	Wireless Computer Station Additions	Provide wireless computer equipment and workstation furniture for use at front of each classroom.	Wireless computer equipment will allow teachers to use ceiling mounted LCD projectors from work station and front of classroom in lieu of adding power and data outlets in floor at much higher cost.	Enhancement	1	NA	No Cost Estimate	Obtained with Technology Levy funds.	R. Luke M. Newman	C
CA-ME-03 ECM-M9	Mechanical	Boiler Replacement	Replace boiler with two high efficiency condensing boilers and add a hot water circulation pump.	Boiler replacement and pump addition will reduce energy costs.	Operating Cost	3	\$385,688	Quantum Cost Estimate	Not cost effective because of estimated 12-year payback period.	Energy Consultant R. Thomas	C
CA-ME-09	Mechanical	Domestic Water Pipe Replacement	Replace domestic water pipes.	Existing domestic water pipe is steel and in poor condition.	Deficiency	1	\$642,427	Quantum Cost Estimate	Minor deficiency and not cost effective.	R. Thomas	C
CA-ME-11	Mechanical	Fire Sprinkler System Addition	Provide fire sprinkler system throughout school.	Buildings are not protected with a fire sprinkler system.	Deficiency	1	\$652,326	Quantum Cost Estimate	Not cost effective.	R. Thomas	C
CA-ME-25	Mechanical	Water Quality Improvements	Replace plumbing at 5 sinks. Replace one drinking fountain.	Water quality tests at 5 sinks and one drinking fountain exceeded EPA water quality standards for lead or copper.	Health / Safety	1	\$15,298	Quantum Cost Estimate	Not needed. Further testing revealed water quality standards being met except at 5 fixtures that will be addressed by Maintenance Dept.	B. Kenworthy	C
CA-EL-01	Electrical	Ceiling Mounted LCD Projector Addition	Provide ceiling mounted LCD projector and associated AV and power outlets in each classroom with connection to teacher's work station.	Ceiling mounted projectors desired for ease of use, to reduce theft, and to protect equipment and cables from damage.	Enhancement	2	\$434,799	Quantum Cost Estimate	Not cost effective.	R. Luke R. Thomas M. Newman	C

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
CA-EL-03 ECM-L5	Electrical	Commons Daylight Control Addition	Provide daylighting controls in commons.	Daylighting controls will lighting energy and energy costs in commons where there is sufficient ambient light available at times to reduce electrical lighting.	Operating Cost	2	\$5,143	Quantum Cost Estimate	Estimated 6-year payback period. Improvement included in CA-MD-48.	Energy Consultant	C
CA-EL-04	Electrical	Data Communications Equipment Upgrade	Upgrade data communications equipment filter, router, switch, traffic shaping and connectivity speed.	Existing filter, router, switch, traffic shaping and connectivity speed do not meet district's minimum standards.	Deficiency	1	\$187,393	ASD Cost Estimate	Minor deficiency.	N. Vien	C
CA-EL-05	Electrical	Data Outlet Additions at Teacher's Work Station	Provide data outlets for computers and AV equipment at teacher's work station in each classroom.	Classrooms do not have AV outlets at teacher's work station and do not have floor box with data outlets at front of classroom.	Enhancement	1	\$234,498	Quantum Cost Estimate	Not cost effective.	R. Luke M. Newman	C
CA-EL-12	Electrical	Gym Sound System Improvement	Modify or replace protruding sound system control panel in main gym.	Existing sound system control panel protrudes from wall and creates a safety hazard.	Health & Safety	2	\$62,482	Quantum Cost Estimate	Minor deficiency.	R. Swaim	C
CA-EL-14	Electrical	Interior Lighting Level Improvements	Provide additional illumination at classrooms, corridors, emergency lighting, kitchen, library, restrooms and support spaces.	Existing lighting at interior areas lacks adequate illumination levels, is below the district's minimum standards and many light fixtures have discolored lenses.	Health / Safety & Deficiency	2	\$257,125	Quantum Cost Estimate	Minor deficiency. See CA-EL-15 for a portion of these improvements.	B. Kenworthy M. Newman	C
CA-MD-01	Modernization	Art Area Modernization	Modernize art room 405 to add prep and storage rooms.	Existing art area does not have dedicated areas for art prep work and storage.	Deficiency	3	\$76,367	BLRB Cost Estimate	Minor deficiency.	D. Grad B. Kenworthy	C
CA-MD-03	Modernization	Auxiliary Gym Modernization	Expand and improve or add an auxiliary gym.	Existing auxiliary gym is undersized by 400 SF and 11% smaller than school district's minimum standard. It does not have scoreboards, divider curtain, exterior windows, volleyball inserts, wall mats, protective covers on light fixtures, and basketball backboards. The ceiling is 2' lower than the district's minimum standard and the floor is vinyl tile rather than wood. The small size and lack of equipment inhibits use of existing auxiliary gym for PE classes and athletics.	Deficiency	2	\$2,146,044	BLRB Cost Estimate	Not cost effective. See CA-MD-50 for a portion of these improvements.	D. Grad B. Kenworthy R. Swaim	C
CA-MD-04	Modernization	Building Enclosure Modernization	Provide access to all parts of building within enclosed space.	School consists of separate buildings connected by covered walkways. This inhibits supervision, requires students and staff to go outdoors to travel between buildings, and does not meet district's minimum standards.	Deficiency	3	\$4,492,068	BLRB Cost Estimate	Not cost effective.	B. Kenworthy	C
CA-MD-07	Modernization	Darkroom Upgrade	Provide darkroom that is ADA compliant and adjacent to a new visual communications classroom.	Existing darkroom is located on the second floor, not accessible by wheel chair, and is difficult to supervise.	Deficiency	3	\$61,095	BLRB Cost Estimate	Improvements included in CA-MD-49.	B. Kenworthy	C
CA-MD-08	Modernization	Drama Area Addition	Provide drama classroom and storage area adjacent to permanent stage.	School does not have a drama classroom with necessary cabinets and storage room. New drama classroom should be adjacent to a permanent stage for drama practice with operable wall between classroom and stage.	Deficiency	3	\$522,940	BLRB Cost Estimate	Improvements included in CA-MD-48.	D. Grad B. Kenworthy	C
CA-MD-10	Modernization	Field House Expansion	Provide larger field house with storage area for outdoor PE and athletic equipment, football equipment, and athletic team equipment.	Existing field house storage is undersized by 260 SF and 43% smaller than district's minimum standard. Additional space also needed for football and athletic team equipment. These items currently stored in undersized spaces in main building but can be suitably stored in fieldhouse.	Deficiency	2	\$836,097	BLRB Cost Estimate	Not cost effective.	B. Kenworthy	C
CA-MD-25	Modernization	Maintenance Office Improvements	Provide work counter and sink in maintenance office.	Maintenance office does have a sink or counter for repair work and maintenance office tasks.	Deficiency	2	\$10,899	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
CA-MD-29	Modernization	PE Staff Locker Room Additions	Provide lockers rooms for PE instructors and coaches.	School does not have dedicated space for staff locker rooms. Existing staff locker area is combined with PE offices which creates congestion and are not ADA compliant.	Deficiency	3	\$73,923	BLRB Cost Estimate	Minor deficiency.	D. Grad B. Kenworthy	C
CA-MD-35	Modernization	Staff Restroom Additions and Modernization	Provide additional staff restrooms, replace floor and add grab bars in 100 unit staff restrooms, and modernize 200 unit staff restrooms to be ADA compliant.	School has men's and two women's staff restrooms in the 100 and 200 units. There are no restrooms located in the 300, 400 and 500 unit classroom buildings. 100 unit staff restrooms do not have grab bars and existing floor is bubbled and should be replaced. Staff restrooms in 200 unit are not ADA compliant.	Deficiency	2	\$157,680	BLRB Cost Estimate	Not cost effective. See CA-MD-32 for a the addition of ADA compliant restrooms.	B. Kenworthy	C
CA-MD-37	Modernization	Stage Addition	Provide permanent stage connected to commons.	Permanent stage not present at school. Original retractable stage connected to gym is no longer functional and is not used.	Deficiency	3	\$726,806	BLRB Cost Estimate	Not cost effective.	D. Grad B. Kenworthy L. Cowan	C
CA-MD-39	Modernization	Teaching Station Skylight Additions	Provide skylight at 4 classrooms in 300 building and 2 classrooms in 400 building.	Existing teaching stations do not have exterior windows and exposure to daylight. Window addition not feasible because rooms are interior spaces.	Deficiency	3	\$25,170	BLRB Cost Estimate	Minor deficiency.	D. Grad B. Kenworthy	C
CA-MD-40	Modernization	Teaching Station Window Additions	Provide exterior windows at 3 classrooms in 500 unit and main gym.	Existing rooms do not have exterior windows and exposure to daylight.	Deficiency	2	\$40,645	BLRB Cost Estimate	Not cost effective.	D. Grad B. Kenworthy	C
CA-MD-44	Modernization	Health Area / Instructional Storage / Large Conference Room Modernizations & Additions	Provide dedicated instructional material storage room, and large conference room. Modernize and expand health area.	See Improvement Justifications for CA-MD-06, 18 and 19.	Health / Safety & Deficiency	2	\$517,956	BLRB Cost Estimate	Minor deficiency and not cost effective.	D. Grad B. Kenworthy	C
CA-MD-45	Modernization	Commons / Kitchenette / Kitchen Modernizations & Additions	Provide a kitchenette. Modernize kitchen and serving area. Modernize and expand commons.	See Improvement Justifications for CA-MD-05 and 21.	Health / Safety & Deficiency & Enhancement	2	\$1,366,404	BLRB Cost Estimate	Not cost effective. See CA-MD-51 for a portion of these improvements.	E. Boutin D. Grad B. Kenworthy	C
CA-MD-46	Modernization	Coach's Office / Laundry Room Additions	Provide coach's office in boy's and girl's locker rooms and a laundry room.	See Improvement Justifications for CA-MD-14, 16 and 20.	Deficiency & Enhancement	3	\$306,340	BLRB Cost Estimate	Not cost effective.	D. Grad B. Kenworthy	C
CA-MD-47	Modernization	Music Practice / Storage / Training Room Modernizations & Additions	Provide record storage and training rooms. Modernize music storage room. Modernize and expand music practice rooms.	See Improvement Justifications for CA-MD-27, 28, 33 and 41.	Deficiency	2	\$403,524	BLRB Cost Estimate	Not cost effective.	D. Grad B. Kenworthy	C
CA-MD-48	Modernization	200 Unit Replacement	Demolish existing 24,000 SF 200 unit. Provide new 200 unit that is 32,000 SF and includes kitchen, serving area, commons, stage, drama classroom, staff lounge, main and auxiliary gyms, boy's and girl's locker rooms, main mechanical and electrical rooms, MC room, associated storage spaces, and staff, student and public restrooms.	Existing 200 unit requires expansion and extensive modernization. Replacement of the 200 unit with a new and larger unit will provide improved spaces that will be more cost effective to maintain and operate when compared to an expanded and modernized 200 unit.	Deficiency	2	\$18,467,908	BLRB Cost Estimate	Not cost effective.	E. Boutin D. Grad B. Kenworthy R. Swaim R. Thomas ADA Consultant	C

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
CA-MD-49	Modernization	500 Unit Replacement	Demolish existing 13,400 SF 500 unit. Provide new 500 unit that is 15,000 SF and includes band room, orchestra / choral room, music offices and practice rooms, technology classroom and lab, visual communications room, darkroom, special education classroom, associated storage, and student restrooms.	Existing 500 unit requires expansion and extensive modernization. Replacement of the 500 unit with a new and larger unit will provide improved spaces that will be more cost effective to maintain and operate when compared to an expanded and modernized 500 unit.	Deficiency	3	\$8,189,985	BLRB Cost Estimate	Not cost effective.	E. Boutin D. Grad B. Kenworthy R. Thomas ADA Consultant	C
CA-SI-05	Site	Baseball and Softball Bulpen Additions	Provide chainlink bullpens enclosures at baseball and softball fields.	Fenced bullpens desired to allow pitching practice to occur within a confined area close to the field.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency and not a school district standard.	R. Thomas	NA
CA-SI-16	Site	Exterior Bleacher Relocation	Relocate two sections of portable aluminum bleachers from baseball field to football / soccer field.	School has adequate bleachers for spectator seating at baseball field and football / soccer field but two sections of portable bleachers should be moved from the baseball field to football / soccer field to meet district's seating capacity standards.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	R. Swaim B. Kenworthy	NA
CA-EX-04	Exterior	Exterior Insulation Upgrade	Provide additional insulation at exterior walls and roofs.	Existing insulation at exterior walls and roofs does not meet district's minimum standards. Placement of additional insulation difficult because existing insulation consists of batt insulation concealed in wall and roof framing.	Deficiency	NA	NA	No Cost Estimate	Not cost effective.	R. Thomas	NA
CA-EX-07	Exterior	Exterior Painting	Paint areas of exterior wood.	Existing paint is in fair condition.	Enhancement	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Thomas	NA
CA-IN-06	Interior	Classroom Ceiling Upgrade	Provide higher ceilings in classrooms.	Existing suspended ceilings are 8'-2" high and are 10" lower than district's minimum standard. Original lay-in ceiling tile was replaced in 1998 with impact resistant tile.	Deficiency	NA	NA	No Cost Estimate	Not cost effective to raise ceiling because of conflicts with existing mechanical and electrical equipment.	B. Kenworthy	NA
CA-IN-07	Interior	Corridor Ceiling Upgrade	Provide higher ceilings in corridors.	Existing suspended ceilings are 8'-6" high and are 12" lower than district's minimum standard. Original lay-in ceiling tile was replaced in 1998 with impact resistant tile.	Deficiency	NA	NA	No Cost Estimate	Not cost effective to raise ceiling because of conflicts with existing mechanical and electrical equipment.	B. Kenworthy	NA
CA-IN-11	Interior	Interior Painting	Paint building interior.	Existing paint is in fair condition.	Enhancement	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Thomas	NA
CA-IN-12	Interior	Library Ceiling Upgrade	Provide higher ceilings in classrooms.	Existing suspended ceiling 8' high and are 2' lower than district's minimum standard. Original lay-in ceiling tile was replaced in 1998 with impact resistant tile.	Deficiency	NA	NA	No Cost Estimate	Not cost effective to raise ceiling because of conflicts with existing mechanical and electrical equipment.	B. Kenworthy	NA
CA-IN-13	Interior	Locker Room Acoustical Improvements	Provide sound absorbing material in locker rooms to reduce noise level.	Existing locker rooms have hard surface floors, walls and ceiling which reflect sound and result in a noisy environment.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency. Locker rooms are inherently noisy and sound absorbing materials on walls or ceiling are not desirable because they are susceptible to damage.	R. Swaim	NA

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CA-IN-14	Interior	Music Instrument Storage Upgrade	Replace or repair damaged doors and latches at instrument storage cabinets.	Some of the existing instrument storage cabinets have damaged doors and latches.	Deficiency	NA	NA	No Cost Estimate	Maintenance item. Extent of damage is minor.	R. Thomas B. Kenworthy	NA
CA-IN-16	Interior	Stage Curtain Replacement	Replace curtain at portable stage.	Curtain is in fair condition but past its life expectancy. However, portable stage is no longer used so curtain replacement provides little benefit.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency.	R. Thomas	NA
CA-EQ-09	Equipment	Toilet Partition Upgrade	Replace metal toilet partitions with plastic laminate partitions.	Existing metal toilet partitions are in fair condition but do not meet district's minimum standard for plastic laminate partitions.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency.	R. Thomas	NA
CA-ME-12	Mechanical	Health Room Exhaust Fan Replacement	Provide new exhaust fan for health restroom.	Existing fan does not operate.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	D. Grad	NA
CA-EL-02	Electrical	Classroom Electrical Outlet Additions	Provide an additional electrical outlet at the student computer area in each classroom.	Classrooms have 5 electrical outlets for student use and 6 are required by districts minimum standards.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency.	B. Kenworthy	NA
CA-EL-06	Electrical	Data Outlet Addition at Classrooms	Provide one more data outlets in each classroom for student use.	Classrooms have 5 data outlets for student use and 6 are required by districts minimum standards.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency. Outlets can be added by district using splitter and existing data wiring.	B. Kenworthy	NA
CA-EL-07	Electrical	Data Outlet Addition at Computer Classroom	Provide 3 more data outlets at computer classroom for student use.	Computer classroom has 27 data outlets for student use and 30 are required by districts minimum standards.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency. Outlets can be added by district using splitter and existing data wiring.	B. Kenworthy	NA
CA-EL-16	Electrical	Internet Connection Upgrade	Provide an additional T-1 line for internet connection.	An additional T-1 line is needed to meet district's minimum standard for internet connection.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	R. Luke N. Vien	NA
CA-MD-02	Modernization	Athletic Storage Addition	Provide storage room for athletic equipment.	School does not have dedicated space for storage of athletic equipment. This equipment currently stored with PE equipment which creates congestion and lacks security.	Deficiency	3	NA	No Cost Estimate	Minor deficiency.	D. Grad B. Kenworthy	NA
CA-MD-05	Modernization	Coach's Office Addition	Provide coach's office in boy's and girl's locker rooms.	School does not have dedicated space for coach's offices in locker rooms. Coaches currently use PE instructor's office.	Deficiency	4	NA	BLRB Cost Estimate	Costs included in CA-MD-46.	D. Grad B. Kenworthy	NA
CA-MD-06	Modernization	Commons Modernization	Provide larger commons with prominent entry and locate adjacent to stage.	Existing commons is undersized by 300 SF and 9% smaller than district's minimum standard. Existing location is not adjacent to a stage, does not have a prominent entry, and does not have convenient access from front of school.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in CA-MD-45.	B. Kenworthy	NA
CA-MD-09	Modernization	Emergency Storage Room Addition	Provide space within building for storage of emergency supplies.	Building does not have space for storage of emergency supplies. Existing supplies kept in exterior storage container.	Enhancement	2	NA	BLRB Cost Estimate	Costs included in CA-MD-10.	B. Kenworthy	NA
CA-MD-12	Modernization	Football Equipment Storage Expansion	Provide larger storage room for football equipment.	Existing football equipment storage room is undersized by 50 SF and 29% smaller than district's minimum standard.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in CA-MD-10.	B. Kenworthy	NA
CA-MD-13	Modernization	Gym Assembly Storage Addition	Convert football equipment storage room 203E to assembly storage room. Relocate football equipment storage to fieldhouse.	Gym does not have a storage room for assembly equipment.	Deficiency	2	NA	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	NA

# PROPOSED FACILITY IMPROVEMENTS

# CASCADE MIDDLE SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
CA-MD-14	Modernization	Health Area Modernization	Modernize health area to provide a larger health room, larger nurse's office, ADA compliant restroom, and provide visual connection between health room and attendance office.	Existing nurses office is undersized by 15 SF and 12% smaller than the district's minimum standard. Health room ins undersized by 25 SF and 15% smaller that district's minimum standard. Existing health restroom is not ADA compliant. Existing health room cannot be visually supervised from attendance office.	Health / Safety & Deficiency	1	NA	BLRB Cost Estimate	Costs included in CA-MD-44.	B. Kenworthy	NA
CA-MD-16	Modernization	Instructional Storage Addition	Provide storage room for instructional materials.	School does not have a dedicated room for secure and central storage of instructional materials.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in CA-MD-44.	D. Grad B. Kenworthy	NA
CA-MD-17	Modernization	Isolated Waiting Room Addition	Provide isolate waiting room adjacent to main office area.	Building does not have an isolated waiting room for students who are sent to the main office.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency.	B. Kenworthy	NA
CA-MD-18	Modernization	Kitchenette Addition	Provide kitchenette adjacent to commons.	School does not have a kitchenette for adjacent to commons for event use when kitchen is closed.	Enhancement	2	NA	BLRB Cost Estimate	Improvements included in CA-MD-48.	D. Grad B. Kenworthy	NA
CA-MD-19	Modernization	Kitchen and Serving Area Modernization	Modernize kitchen and serving area to improve serving capacity and supervision, add a third serving line and associated food service equipment, add and replace kitchen equipment, provide a custodial closet, improve flooring, enlarge and improve walk-in cooler and freezer, and enlarge hood at cooking equipment by 16 SF, and enlarge dry storage area.	Existing serving area has two check out lines and does not have a visual connection to the commons. A third serving line with associated food service equipment is needed to reduce the amount of time students wait in line to be served. Interior relite windows needed for supervision between commons and serving area. Floor is in poor condition. Kitchen needs a custodial room with mop sink along with combi oven. Existing steamer and kettle, dishwasher, and reach-in coolers is in poor condition and should be replaced. Existing walk-in freezer and cooler are in marginal condition, have deficient floors, and are undersized. Ventilation hood over cooking equipment is not large enough to accommodate a new combi-oven. Dry storage room is undersized and does not meet district's minimum standard.	Health / Safety & Deficiency	2	NA	BLRB Cost Estimate	Improvements included in CA-MD-48.	E. Boutin D. Grad B. Kenworthy	NA
CA-MD-20	Modernization	Large Conference Room Addition	Provide large conference room in main office area.	School does not have a large conference room for staff use.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in CA-MD-44.	D. Grad B. Kenworthy	NA
CA-MD-21	Modernization	Laundry Room Addition	Provide a laundry room with shelving and a ventilation system.	A laundry room with shelving and ventilation system is desired. Use of a laundry room is desired for washing uniforms. Currently, a washer and dryer are located in a storage room and does not have mechanical ventilation.	Enhancement	2	NA	BLRB Cost Estimate	Costs included in CA-MD-46.	D. Grad B. Kenworthy	NA
CA-MD-22	Modernization	Locker Room Expansion	Provide larger boys' and girls' locker rooms.	Existing locker rooms exceed district's minimum standards by 150 SF each but additional space would provide more room for students when changing clothes and using lockers.	Enhancement	NA	NA	No Cost Estimate	Improvements included in CA-MD-48.	R. Swaim	NA
CA-MD-27	Modernization	Music Practice Room Expansion	Add to and expand music practice rooms.	Existing music ensemble room and small practice room are undersized and do not meet district's minimum standard. An additional small practice room is needed.	Deficiency	2	NA	BLRB Cost Estimate	Improvements included in CA-MD-49.	B. Kenworthy	NA
CA-MD-28	Modernization	Music Storage Upgrade	Provide music storage area that is ADA compliant with convenient and supervised access from music rooms.	Existing music storage room is located on the second floor, not accessible by wheel chair, and is difficult to supervise.	Deficiency	1	NA	BLRB Cost Estimate	Improvements included in CA-MD-49.	B. Kenworthy	NA



# PROPOSED FACILITY IMPROVEMENTS

# CASCADE MIDDLE SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
CA-MD-30	Modernization	Pickleball Court Enclosure	Provide a roof over or fully enclose the 12 exterior pickleball courts.	Covering or enclosing the pickleball courts will provide a PE station and play area that can be used during inclement weather. It will also reduce the need cleaning and moss removal at these outdoor courts.	Enhancement	NA	NA	No Cost Estimate	Minor need.	R. Swaim	NA
CA-MD-31	Modernization	Principal's Office Expansion	Provide larger principal's office.	Existing principal's office is undersized by 40 SF and 17% smaller than the district's minimum standard.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency.	B. Kenworthy	NA
CA-MD-33	Modernization	Record Storage Room Addition	Provide a storage room for student records in main office area.	Building does not have a dedicated storage room for student records.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in CA-MD-47.	B. Kenworthy	NA
CA-MD-36	Modernization	Staff Workroom Modernization	Expand staff workroom and add mailboxes and data outlet for of one of the copy machines.	Existing staff workroom is undersized by 50 SF and 10% smaller than district's minimum standard.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency.	B. Kenworthy	NA
CA-MD-41	Modernization	Training Room Addition	Provide a training room close to gym and locker rooms.	School does not have a training room for PE and athletic use.	Deficiency	2	NA	BLRB Cost Estimate	Minor deficiency.	D. Grad B. Kenworthy	NA
CA-MD-42	Modernization	Vending Machine Alcove Addition	Provide a vending machine area within the building.	Existing vending machines are located in corridors.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency.	B. Kenworthy	NA

# PROPOSED FACILITY IMPROVEMENTS

# MT. BAKER MIDDLE SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
MB-SI-02	Site	Baseball and Softball Backstop Upgrade	Increase height of backstop fencing and extend fencing along baselines at two fields that are adjacent to streets and neighboring property.	Higher backstops and fence extensions along baselines needed to reduce number of foul balls hit into surrounding streets and neighboring property.	Health / Safety & Deficiency	2	\$94,427	BLRB Cost Estimate		R. Thomas	A
MB-SI-03	Site	Baseball and Softball Bullpen Additions	Provide chainlink bullpens enclosures at baseball and softball fields.	Fenced bullpens desired to allow pitching practice to occur within a confined area close to the field.	Enhancement	2	\$28,798	ASD Cost Estimate		R. Thomas	A
MB-SI-07	Site	Cinder Track Upgrade	Add cinders and regrade running track.	Existing track surface in uneven with areas of settlement and ponding water.	Deficiency	2	\$31,068	BLRB Cost Estimate		L. Decker R. Thomas R. Swaim	A
MB-SI-08	Site	Curb Ramp Additions	Provide curb ramps at sidewalks at on-site cross walks, front entry, and building entries at east parking lot.	Curb cuts needed to provide wheelchair access to site and to comply with ADA.	Deficiency	1	\$13,707	BLRB Cost Estimate		ADA Consultant	A
MB-SI-17 ECM-W2	Site	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station.	Connection to the EMS and a weather station will reduce water consumption and utility costs.	Operating Cost	2	\$6,428	Quantum Cost Estimate	Estimated 7-year payback period.	Energy Consultant R. Thomas	A
MB-SI-18	Site	Long Jump Runway Upgrade	Improve drainage and rebuild long jump runway and take-off boards.	Existing long jump area is often saturated with water.	Deficiency	2	\$12,072	BLRB Cost Estimate		R. Swaim	A
MB-SI-19	Site	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars, directional arrows, and bus stall numbers. Provide painted lines at bus stalls. Restripe pickleball courts, basketball courts, cross-walks and parking stall lines.	Thermo-plastic markings needed at critical areas that quickly wear away. Painted lines needed at bus stalls. Existing lines pickleball courts, basketball courts, cross-walks and parking stalls are faded and difficult to see.	Deficiency	1	\$2,285	BLRB Cost Estimate		L. Decker B. Kenworthy	A
MB-SI-22	Site	Sidewalk Improvements	Repair damaged section of sidewalk at building entry near classroom 204 and add crown in sidewalk to improve surface drainage.	Existing section of sidewalk has damaged surface and needs a crown to drain water off of sidewalk.	Deficiency	1	\$2,582	BLRB Cost Estimate		B. Kenworthy	A
MB-SI-25	Site	Baseball & Softball Infield Clayblock Additions	Provide clay block at baseball and softball field pitcher's mound and homeplate.	Clayblock at pitcher's mound and homeplate provides a better playing surface and is easier to maintain.	Deficiency	2	\$20,829	ASD Cost Estimate		R. Thomas	A
MB-EX-01	Exterior	Automatic Door Opener Addition - Main Entrance	Provide automatic door opener at main entrance.	Building does not have automatic door opener at main entry doors.	Enhancement	3	\$19,550	BLRB Cost Estimate		J. Trauffer M. Newman	A
MB-EX-02	Exterior	Exterior Door Hardware Upgrade	Replace exterior door lock cylinders with Primus cylinders.	Primus lock cylinders will improve building security.	Enhancement	2	\$7,919	BLRB Cost Estimate		R. Thomas	A
MB-EX-05	Exterior	Masonry Water Repellant Application	Provide application of water repellant at exterior masonry.	Existing masonry lacks a water repellant coating to protect against moisture penetration.	Deficiency	3	\$84,920	BLRB Cost Estimate		R. Thomas	A
MB-EQ-01	Equipment	ADA Grab Bar Additions	Provide ADA compliant grab bars at toilet stalls in health, staff and student restrooms.	Grab bars needed to assist the disabled and comply with ADA.	Deficiency	1	\$7,374	BLRB Cost Estimate		ADA Consultant	A
MB-EQ-08	Equipment	Kitchen Equipment Upgrade	Provide combi oven and replace convection ovens and dishwasher in kitchen.	Combi oven need for food service program. Existing convection ovens and dishwasher are past life expectancy.	Deficiency	2	\$84,526	BLRB Cost Estimate		E. Boutin	A
MB-EQ-13	Equipment	Volleyball Standards Replacement	Replace volleyball post standards.	Existing post standards are old and pinch fingers.	Deficiency	2	\$3,865	ASD Cost Estimate		R. Swaim	A
MB-ME-01 ECM-M7	Mechanical	Airflow Improvements	Rebalance mechanical units serving the computer room.	Rebalancing will improve airflow and occupant comfort.	Operating Cost	2	\$6,428	Quantum Cost Estimate		Energy Consultant	A

# PROPOSED FACILITY IMPROVEMENTS

# MT. BAKER MIDDLE SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
MB-ME-02	Mechanical	Art Room Eye Wash Addition	Provide eye wash in art room area.	Eye wash needed for student safety.	Health / Safety	2	\$3,342	Quantum Cost Estimate		B. Kenworthy	A
MB-ME-04 ECM-M4	Mechanical	CO2 Control Addition	Expand control system to add CO2 control to the main air handling systems in commons, gym, library, music room, and stage.	CO2 control will regulate the amount of outside air being delivered to the occupied spaces based on CO2 levels and reduce energy usage.	Operating Cost	1	\$30,855	Quantum Cost Estimate	Estimated 5-year payback period.	Energy Consultant	A
MB-ME-05 ECM-M8	Mechanical	Expansion Tank Addition	Add expansion tank to hot water heating system.	Expansion tank needed for improved operation of hot water heating system.	Deficiency	3	\$6,428	Quantum Cost Estimate		Energy Consultant	A
MB-ME-07 ECM-M9	Mechanical	Gym Variable Speed Drive Addition	Provide a variable speed drive on the gym air handling units to reduce airflow during periods of low or no occupancy, as determined by the CO2 and occupancy sensors.	Variable speed drives will reduce energy costs.	Operating Cost	1	\$10,285	Quantum Cost Estimate	Estimated 5-year payback period.	Energy Consultant	A
MB-ME-08	Mechanical	Heating Water Circulation Pump Replacement	Replace heating water circulation pumps.	Existing heating water circulation pumps are past life expectancy.	Enhancement	2	\$15,943	Quantum Cost Estimate		R. Thomas	A
MB-ME-09 ECM-M5	Mechanical	Kiln Hood Damper Addition	Provide a damper on the kiln exhaust system and interlock it to the kiln operation.	Backdraft damper desired to keep cold outside air from entering room through kiln hood and reduce energy costs.	Deficiency	2	\$3,857	Quantum Cost Estimate	Estimated 6-year payback period.	L. Decker R. Thomas Energy Consultant	A
MB-ME-10 ECM-M6	Mechanical	Locker Room Air Handler Improvement	Provide a runaround heat recovery loop for locker room air handlers.	Heat recovery loop will reduce energy consumption and energy costs.	Operating Cost	2	\$102,850	Quantum Cost Estimate	Estimated 8-year payback period.	Energy Consultant	A
MB-ME-12 ECM-M2	Mechanical	Occupancy Sensor Temperature Control Addition - Classrooms	Expand control system to add occupancy sensor control to the VAV boxes serving in classrooms.	Occupancy sensor control will setback the space temperature and airflow when classrooms are unoccupied and will reduce energy costs.	Operating Cost	2	\$89,995	Quantum Cost Estimate	Estimated 10-year payback period.	Energy Consultant	A
MB-ME-13 ECM-M3	Mechanical	Occupancy Sensor Temperature Control Addition	Expand control system to add occupancy sensor temperature control the VAV boxes and air handling units serving the to the commons, drama area, gym, library, locker rooms, music rooms and stage.	Occupancy sensor control will setback the space temperature and airflow when rooms are unoccupied and will reduce energy costs.	Operating Cost	2	\$25,713	Quantum Cost Estimate	Estimated 6-year payback period.	Energy Consultant	A
MB-ME-14 ECM-W1	Mechanical	Plumbing Fixture Retrofit Review	Review water saving opportunities including retrofit or replacement of sinks, urinals and water closets.	A reduction in water use will reduce utility costs.	Operating Cost	1	\$6,428	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant	A
MB-ME-15	Mechanical	Pressure Relief Damper Upgrade	Modify pressure relief dampers at classroom relief air vents.	Existing dampers allow cold air to enter classroom.	Operating Cost & Deficiency	2	\$60,913	Quantum Cost Estimate		R. Thomas	A
MB-ME-16 ECM-M1	Mechanical	TAB and Commissioning	Perform air and water testing, adjusting and balancing (TAB) on the mechanical systems. Commission the existing HVAC control system to verify proper operation. Provide sequence modifications to the discharge air reset strategy to incorporate space conditions into the logic.	Retroactive TAB and commissioning will improve system operation and reduce energy costs.	Operating Cost	2	\$102,850	Quantum Cost Estimate	Estimated 8-year payback period.	Energy Consultant R. Thomas	A
MB-ME-17	Mechanical	Telecommunication Rooms Cooling and Ventilation Addition	Provide independent mechanical ventilation and cooling system in existing MC room and HC rooms.	Existing MC and HC rooms lack independent HVAC systems needed to keep data equipment from overheating and damaging equipment.	Deficiency	2	\$42,915	Quantum Cost Estimate		N. Vein	A

# PROPOSED FACILITY IMPROVEMENTS

# MT. BAKER MIDDLE SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
MB-EL-09 ECM-L2	Electrical	Exterior Lighting Upgrade	Replace HID fixtures on the exterior of the building with compact fluorescent. Retrofit parking lot lights with pulse start metal halide or inductive lighting.	HID and parking lot light fixture replacement will reduce energy costs.	Operating Cost	2	\$25,713	Quantum Cost Estimate	Estimated 10-year payback period.	B. Kenworthy M. Newman B. Talbert	A
MB-EL-11 ECM-L3	Electrical	HID Lighting Replacement	Replace HID fixtures in the gym, foyer, commons, and corridors with new fixtures using T-8 or T-5 technology.	HID lighting replacement will reduce energy costs.	Operating Cost	2	\$46,283	Quantum Cost Estimate	Estimated 7-year payback period.	Energy Consultant	A
MB-EL-13 ECM-L1	Electrical	Interior Lighting Upgrade	Retrofit 3-lamp T-8 fixtures in library and classrooms with 2-lamp fixtures with reflectors.	Fixture retrofit will reduce energy costs.	Operating Cost	2	\$20,570	Quantum Cost Estimate	Estimated 7-year payback period.	Energy Consultant B. Kenworthy R. Thomas	A
MB-EL-16	Electrical	Library Data and Electrical Outlet Additions	Provide 20 additional data and electrical outlets in library for student computers.	Additional data and electrical outlets desired to allow a full class of 30 students to work at computers in library. Existing library has outlets for 10 student computers.	Enhancement	2	\$51,425	Quantum Cost Estimate		R. Luke	A
MB-EL-17 ECM-L4	Electrical	Occupancy Sensor Lighting Control Addition	Provide occupancy sensor in areas with fluctuating occupancy to turn off lights when the spaces are unoccupied.	Occupancy sensors will reduce energy costs.	Operating Cost	2	\$12,857	Quantum Cost Estimate	Estimated 6-year payback period.	Energy Consultant	A
MB-MD-04	Modernization	Kitchen Serving Area Improvement	Provide a third line for serving lunch.	Existing kitchen has two serving lines. A third serving line with associated food service equipment is needed to reduce the amount of time students wait in line to be served.	Enhancement	2	\$105,082	BLRB Cost Estimate		E. Boutin L. Decker	A
MB-SI-04	Site	Baseball and Softball Dugout Roof Addition	Provide roof at baseball and softball field dugouts.	Roof desired to protect players and equipment from rain.	Enhancement	3	\$48,875	BLRB Cost Estimate		R. Swaim	B
MB-IN-05	Interior	Corridor Tackboard Additions	Provide additional tackboards in corridors.	Additional tackboards are desired in corridor for announcements and displays. Some areas of existing tackable wall surface in 100 and 600 units are difficult to use. Placement of additional tackboards in classroom units difficult because most wall areas covered with lockers.	Deficiency	2	\$58,650	BLRB Cost Estimate		R. Thomas B. Kenworthy	B
MB-EQ-02	Equipment	Classroom Furniture Addition	Provide additional classroom furniture for students.	School does not have enough desks, chairs and tables for students in each classroom.	Deficiency	1	\$130,016	ASD Cost Estimate		L. Decker	B
MB-EQ-03	Equipment	Computer Furniture Upgrade	Provide furniture designed for computer and other technology equipment use.	Existing furniture used for computer and technology equipment is lacking and in many cases not designed for this use.	Deficiency	2	\$63,890	ASD Cost Estimate		R. Luke	B
MB-ME-03	Mechanical	Automatic Controls Upgrade	Upgrade control system front end and software to the district standard - BacNet compatible, web based.	BACnet controls will reduce EMS maintenance and service costs.	Operating Cost	2	\$64,282	Quantum Cost Estimate		R. Thomas	B
MB-ME-11	Mechanical	Natural Gas System Metering	Provide electronic meter for natural gas system connected to energy management system.	Electronic meter will allow remote monitoring of gas service and improve potential for reducing natural gas use.	Operating Cost	3	\$22,884	Quantum Cost Estimate		R. Thomas	B
MB-EL-15	Electrical	Intrusion Alarm Audible Signal Upgrade	Upgrade intrusion alarm system to provide audible alarm.	Use of audible alarm could reduce intrusions and false alarms.	Enhancement	2	\$84,594	Quantum Cost Estimate		M. Newman	B
MB-EL-19	Electrical	Surveillance Camera Addition	Provide surveillance camera system to monitor parking lots and areas around building.	Surveillance cameras could reduce vandalism and theft around building.	Enhancement	1	\$107,993	Quantum Cost Estimate		M. Newman R. Luke	B

# PROPOSED FACILITY IMPROVEMENTS

# MT. BAKER MIDDLE SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
MB-EL-22	Electrical	Wireless Gym Scoreboard and Sound System Control Addition	Provide wireless controls for scoreboard, shot clocks and sound system at bleachers at east side of main gym.	Existing controls are located at bleachers at west side of gym. Controls are desired at east bleachers to allow these to be used for events when only one set of bleachers needed. This will improve supervision and provide easier access for spectators because entry doors are at east side of gym.	Enhancement	2	\$30,855	ASD Cost Estimate		R. Swaim	B
MB-EL-07	Electrical	Electrical Service Metering	Provide electronic meter for electrical service connected to energy management system.	Electronic meter will allow remote monitoring of electrical service and improve potential for reducing electrical use.	Operating Cost	2	\$49,883	Quantum Cost Estimate		R. Thomas	B
MB-SI-10	Site	Exterior Bench Additions	Provide 2 ribbon-metal exterior benches at front entry.	Exterior benches needed at front entry for students and visitors to use when waiting to be picked up.	Deficiency	2	\$5,865	BLRB Cost Estimate		B. Kenworthy	B+
MB-SI-12	Site	Exterior Waste Receptacle Upgrade	Provide ornamental waste receptacle at front entry and waste receptacles with push door tops at other areas.	Existing exterior waste receptacles are galvanized cans and many do not have covers.	Enhancement	2	\$11,926	BLRB Cost Estimate		R. Thomas	B+
MB-SI-01	Site	ADA Site Improvements	Provide miscellaneous site improvements to comply with ADA standards that do not significantly affect access to building.	Miscellaneous site areas, which do not significantly affect access to the building, could be improved to comply with current ADA standards.	Enhancement	3	\$99,921	BLRB Cost Estimate	Minor deficiency.	ADA Consultant	C
MB-SI-05	Site	Baseball and Softball Infield Improvements	Add and regrade soil at baseball and softball infields. Add clay block soil amendment to baseball field's pitcher's mound and batter's box.	Existing soil at infields is uneven and clay block is needed at baseball field's pitcher's mound and batter's box to improve drainage.	Deficiency	2	\$56,309	BLRB Cost Estimate	See MB-SI-25 for a portion of these improvements.	R. Thomas	C
MB-SI-09	Site	Dumpster Screen Wall Addition	Provide masonry screen wall between dumpsters and exterior windows at classrooms 211 and 502.	Existing dumpsters and loading area are located directly outside of classroom windows and are unsightly.	Deficiency	2	\$39,222	BLRB Cost Estimate	Minor deficiency.	L. Decker B. Kenworthy	C
MB-SI-11	Site	Exterior Bleacher Addition	Provide additional bleachers for 75 spectators at football / soccer field.	Existing bleachers at football / soccer field seat 75 spectators. Additional bleachers needed to accommodate district's minimum standard of 150.	Deficiency	2	\$43,988	BLRB Cost Estimate	Minor deficiency.	L. Decker R. Swaim	C
MB-SI-14	Site	Football Field Grass Turf Upgrade	Improve grass turf football field and drainage system.	Existing field has uneven and worn grass turf with poor drainage. Some areas of poor drainage smell like sewage.	Deficiency	2	\$142,202	BLRB Cost Estimate	Minor deficiency.	R. Swaim	C
MB-SI-15	Site	Football Field Synthetic Turf Upgrade	Replace grass turf football field with infill system synthetic turf field.	Existing field has uneven and worn grass turf with holes and an inadequate irrigation system. Field can be used only part of the school year and requires considerable maintenance and irrigation to provide a safe and durable playing surface. Synthetic turf would provide a better surface that could be used all year and cost less to maintain.	Operating Cost & Enhancement	3	NA	DA Hogan	Costs included in MB-SI-24.	M. Newman R. Swaim	C
MB-SI-16	Site	Football Field Scoreboard Addition	Provide electronic scoreboard at football field.	Electronic scoreboard desired for use during competition football games.	Enhancement	3	\$85,532	BLRB Cost Estimate	Minor need and not a school district standard.	R. Swaim	C

# PROPOSED FACILITY IMPROVEMENTS

# MT. BAKER MIDDLE SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
MB-SI-21	Site	Running Track and Field Event Upgrade	Replace cinder track, long jump and high jump areas with rubberized surface.	Existing cinder track and field event areas do not provide a good running surface, is a source of dust that is objectionable to users of the track and adjacent football / soccer field, requires considerable maintenance and can be used only part of the school year. A rubberized track and field event areas would provide a better surface that could be used all year and cost less to maintain.	Enhancement	2	NA	DA Hogan	Costs included in MB-SI-24.	R. Swaim	C
MB-SI-23	Site	Student Pick-Up / Drop-Off Expansion	Provide larger area for student drop off and pick up.	Existing student drop off area will accommodate 7 vehicles and district's minimum standard identifies 18 vehicles.	Deficiency	1	\$16,448	BLRB Cost Estimate	Minor deficiency.	L. Decker B. Kenworthy	C
MB-SI-24	Site	Synthetic Athletic Surface Additions - Football Field and Track	Replace grass turf football field with infill system synthetic turf field. Replace cinder track, long jump and high jump areas with rubberized surface.	See Improvement Justifications for MB-SI-15 and MB-SI-21. A synthetic turf football field and rubberized track and field event areas would provide better surfaces that could be used all year and cost less to maintain. Constructing these improvements at the same time will cost less than building them separately because a combined underdrain system could be used.	Enhancement	2	\$3,167,535	DA Hogan	Not cost effective.	R. Swaim M. Newman	C
MB-EX-06	Exterior	Roof Upgrade - Shingles	Replace composition shingles.	Existing composition shingles in fair condition.	Enhancement	2	\$1,922,314	BLRB Cost Estimate	Minor need.	R. Thomas	C
MB-EX-07	Exterior	Roof Upgrade - Metal	Replace composition shingle roof with metal roofing.	Existing asphalt shingle roof is in poor condition Metal roof will reduce long-term maintenance costs.	Enhancement	3	\$4,154,681	BLRB Cost Estimate	Minor need.	R. Thomas	C
MB-EX-08	Exterior	Roof Fall Arrest Anchors Addition	Provide fall arrest system at roof.	Pitched roofs do not have fall arrest safety system.	Health / Safety	4	\$330,273	BLRB Cost Estimate	Minor deficiency.	R. Thomas	C
MB-IN-01	Interior	ADA Building Improvements	Provide miscellaneous building improvements to comply with ADA standards that do not significantly affect access within the building.	Miscellaneous building areas, which do not significantly affect access within the building, could be improved to comply with current ADA standards.	Enhancement	2	\$342,834	BLRB Cost Estimate	Minor deficiency.	ADA Consultant	C
MB-IN-02	Interior	Carpet Replacement	Replace carpet throughout school.	Existing carpet is in good condition.	Enhancement	2	\$1,191,292	BLRB Cost Estimate	Minor need.	R. Thomas B. Kenworthy	C
MB-IN-04	Interior	Classroom Wainscot Addition	Provide protective wainscot at exterior and back walls in classrooms.	Existing sheet rock walls in classrooms are susceptible to and damaged in areas from normal wear and tear. Exterior walls and back walls, opposite of front of classroom, are most vulnerable because they have the greatest exposure to student's chairs. Other walls in rooms usually have computers, teacher's desk and whiteboards. Wainscot installation will reduce damage and maintenance costs.	Enhancement	2	\$263,925	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
MB-IN-07	Interior	Special Education Testing Room Wainscot Addition	Provide 4' high wainscot at walls in special education testing rooms.	Wainscot needed to protect sheet rock walls from furniture damage in these small rooms.	Deficiency	1	\$8,357	BLRB Cost Estimate	M aintenance item.	B. Kenworthy	C
MB-EQ-04	Equipment	Fiber Optic Connection Addition	Provide data communications equipment to accommodate installation of a leased fiber optic circuit.	Equipment needed when school upgrades its internet connection with a fiber optic circuit leased from Qwest.	Enhancement	3	\$11,410	ASD Cost Estimate	Minor need.	N. Vein	C

# PROPOSED FACILITY IMPROVEMENTS

# MT. BAKER MIDDLE SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
MB-EQ-06	Equipment	Gym Wall Padding Additions	Provide additional wall pads in auxiliary gym.	Additional wall pads desired to reduce potential for injuries especially during wrestling and gymnastics activities.	Enhancement	2	\$24,840	BLRB Cost Estimate	Minor need.	R. Swaim	C
MB-EQ-07	Equipment	Gymnastics Vault Table Addition	Provide gymnastics vault training table.	The existing vault horse is not standard gymnastics equipment and is less safe than a table vault.	Health / Safety	2	\$5,598	ASD Cost Estimate	Vault table can be purchased with school PE funds.	R. Swaim	C
MB-EQ-12	Equipment	Pull Up Peg Board Addition	Provide a pull up peg board in auxiliary gym.	Pull up peg board desired for PE use.	Enhancement	3	\$1,294	BLRB Cost Estimate	Peg board can be purchased with school PE funds.	R. Swaim	C
MB-EQ-14	Equipment	Wrestling Mat Holder Addition	Provide mat holders and associated electrical power and control in auxiliary gym to hang wrestling mats from ceiling.	Mat holders desired to allow off-season ceiling storage of wrestling mats to free up storage space in PE equipment room.	Enhancement	2	\$34,500	BLRB Cost Estimate	Minor need.	R. Swaim	C
MB-ME-06	Mechanical	Fire Sprinkler System Bracing	Provide additional seismic bracing to existing fire sprinkler system in compliance with FM Global standards.	Additional bracing will reduce risk of broken fire sprinkler lines during an earthquake.	Enhancement	3	\$205,700	Quantum Cost Estimate	Minor need and not cost effective.	M. Newman	C
MB-ME-18	Mechanical	Water Quality Improvements	Replace plumbing at 3 sinks in kitchen. Replace 10 drinking fountains.	Water quality tests at 3 sinks and some drinking fountain exceeded EPA water quality standards for lead or copper.	Health / Safety	1	\$57,853	Quantum Cost Estimate	Not needed. Further testing revealed water quality standards being met except at one fixture that will be corrected by Maintenance Dept.	B. Kenworthy	C
MB-EL-01	Electrical	Auxiliary Gym Sound System Addition	Provide sound system in auxiliary gym.	Sound system needed for PE classes and assembly events.	Deficiency	2	\$49,625	Quantum Cost Estimate	Minor deficiency.	B. Kenworthy	C
MB-EL-02	Electrical	Ceiling Mounted LCD Projector Addition	Provide ceiling mounted LCD projector and associated AV and power outlets in each classroom with connection to teacher's work station.	Ceiling mounted projectors desired for ease of use, to reduce theft, and to protect equipment and cables from damage.	Enhancement	3	\$640,756	Quantum Cost Estimate	Not cost effective.	R. Luke R. Thomas M. Newman	C
MB-EL-03	Electrical	Classroom Electrical Outlet Additions	Provide 4 additional electrical outlets at the student computer area in each classrooms.	Classrooms have 2 electrical outlets for student use and 6 are required by districts minimum standards.	Deficiency	3	\$115,192	Quantum Cost Estimate	Minor deficiency.	B. Kenworthy	C
MB-EL-04	Electrical	Data Communications Equipment Upgrade	Upgrade data communications equipment filter, router, switch, traffic shaping and connectivity speed.	Existing filter, router, switch, traffic shaping and connectivity speed do not meet district's minimum standards.	Deficiency	1	\$196,391	ASD Cost Estimate	Minor deficiency.	N. Vien	C
MB-EL-05	Electrical	Data Outlet Addition at Teacher's Work Station	Provide data outlets for computers and AV equipment at teacher's work station in each classroom.	Classrooms do not have AV outlets at teacher's work station and do not have floor box with data outlets at front of classroom.	Enhancement	3	\$345,576	Quantum Cost Estimate	Not cost effective. See MB-EQ-16 for an alternate approach using wireless work station.	R. Luke M. Newman	C
MB-EL-08	Electrical	Exterior Lighting Level Improvements	Provide additional illumination at front entry, bus area, delivery area, and pathways.	Existing exterior lighting at exterior areas lacks adequate illumination levels and is below district's minimum standards.	Health / Safety & Deficiency	1	\$53,482	Quantum Cost Estimate	Minor deficiency. A portion of improvements included in MB-EL-09.	B. Kenworthy M. Newman B. Talbert	C

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MB-EL-10	Electrical	Gym Scoreboard and Sound System Control Addition	Provide controls for scoreboard, shot clocks and sound system at bleachers at east side of main gym.	Existing controls are located at bleachers at west side of gym. Controls are desired at east bleachers to allow these to be used for events when only one set of bleachers needed. This will improve supervision and provide easier access for spectators because entry doors are at east side of gym.	Enhancement	2	\$66,004	Quantum Cost Estimate	Not cost effective. See MB-EL-22 for an alternate method.	R. Swaim	C
MB-EL-12	Electrical	Interior Lighting Level Improvements	Provide additional illumination at auxiliary gym, kitchen and library.	Existing lighting at interior areas lacks adequate illumination levels, is below the district's minimum standards.	Health / Safety & Deficiency	2	\$64,282	Quantum Cost Estimate	Minor deficiency and a portion of improvements included in MB-EL-13.	B. Kenworthy	C
MB-EL-20	Electrical	Telephone Equipment Upgrade	Provide wireless telephone headsets for office manager and clerical staff.	Wireless headsets desired to allow office staff to move around when on the telephone.	Enhancement	2	\$2,057	ASD		L. Decker	C
MB-EL-21	Electrical	Telephone System Upgrade	Upgrade telephone system to provide voice mail.	Existing telephone system does not have voice mail feature and does not meet district's minimum standards.	Deficiency	1	\$519,444	Quantum Cost Estimate	Not cost effective.	R. Thomas	C
MB-MD-01	Modernization	Computer Classroom Addition	Provide an addition computer classroom.	Existing computer classrooms meet district's standards. Additional computer classroom desired to accommodate computer instruction at current over-capacity enrollment level.	Enhancement	2	\$170,634	BLRB Cost Estimate	Minor need.	L. Decker	C
MB-MD-05	Modernization	Special Education Classroom Addition	Provide an additional special education classroom with restroom and testing room.	Existing school has two special education classrooms which meets district's standards. A third special education classroom is desired to accommodate current enrollment of special education students.	Enhancement	3	\$70,382	BLRB Cost Estimate	Minor need.	L. Decker	C
MB-MD-07	Modernization	Teaching Station Window Additions	Provide exterior windows at auxiliary gym, main gym, and band room.	Existing rooms do not have exterior windows and exposure to daylight.	Enhancement	3	\$67,721	BLRB Cost Estimate	Minor need.	L. Decker B. Kenworthy	C
MB-MD-08	Modernization	Fieldhouse Storage Expansion	Provide additional space at fieldhouse for storage of emergency supplies and general building storage.	See Improvement Justifications for MB-MD-02 and 03.	Deficiency	2	\$226,596	BLRB Cost Estimate	Minor deficiency.	L. Decker B. Kenworthy	C
MB-SI-06	Site	Baseball and Softball Field Scoreboard Additions	Provide electronic scoreboards at baseball and softball fields.	Electronic scoreboards desired for use during competition baseball and softball games.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency. Scoreboards at middle school baseball and softball fields are not a district standard.	R. Swaim	NA
MB-SI-13	Site	Event Parking Addition	Provide additional parking for large after-school events.	Additional parking is desired for large events because attendees exceed available parking and must use basketball court for overflow parking.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency. Existing event parking exceeds district's standards, events requiring additional parking are infrequent, and additional overflow parking available at outdoor basketball courts.	L. Decker	NA
MB-SI-20	Site	Pipe Rail Gate Improvement	Provide reflective tape on pipe rail vehicle gates.	Existing pipe rail gates do not have reflective tape and can be difficult to see at night.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Kenworthy	NA
MB-EX-03	Exterior	Exterior Painting	Paint areas of exterior wood.	Existing paint is in fair condition.	Enhancement	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Thomas	NA



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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
MB-EX-04	Exterior	Exterior Window Upgrade	Replace dual-glazed thermal pane windows with dual-glazed windows with integral blinds.	Integral blinds will reduce damage to and maintenance of window blinds.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency and not cost effective.	R. Thomas	NA
MB-IN-03	Interior	Carpet Seam Repair	Repair open seam in carpet in classroom 212.	Carpet seam has separated in classroom 212.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Kenworthy	NA
MB-IN-06	Interior	Interior Painting	Paint building interior.	Existing paint is in good condition.	Enhancement	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Thomas	NA
MB-EQ-05	Equipment	Gym Basketball Backboard Padding Replacement	Replace damaged and missing padding at basketball backboards in main and auxiliary gyms.	Existing padding is missing or damaged in areas.	Health / Safety	NA	NA	No Cost Estimate	Maintenance item.	R. Swaim	NA
MB-EQ-09	Equipment	Library Equipment Additions	Provide 20 additional computers for student use in library.	Existing library has 10 computers at student work stations. An additional 20 computers desired to set up a full computer lab in library.	Enhancement	NA	NA	No Cost Estimate	Obtained with Technology Levy funds.	R. Luke	NA
MB-EQ-10	Equipment	Library Equipment Upgrade	Replace TV / DVD / VCR player.	Existing TV / DVD / VCR player is over 10 years old and exceeds life expectancy.	Deficiency	NA	NA	No Cost Estimate	Obtained with Technology Levy funds.	R. Luke	NA
MB-EQ-11	Equipment	Office Equipment Upgrade	Replace 5 laser printers at office areas.	Existing laser printers are over 10 years old and exceed life expectancy.	Deficiency	NA	NA	No Cost Estimate	Obtained with Technology Levy funds.	R. Luke	NA
MB-EQ-15	Equipment	Wrestling Mat Replacement	Replace wrestling mats.	Existing wrestling mats are old and ripped in areas.	Deficiency	NA	NA	No Cost Estimate	General fund expenditure. Not an eligible Capital Projects expenditure because it is replacement equipment.	R. Swaim	NA
MB-EQ-16	Equipment	Wireless Computer Station Additions	Provide wireless computer equipment and workstation furniture for use at front of each classroom.	Wireless computer equipment will allow teachers to use ceiling mounted LCD projectors from work station and front of classroom in lieu of adding power and data outlets in floor at much higher cost.	Enhancement	1	NA	No Cost Estimate	Obtained with Technology Levy funds.	R. Luke M. Newman	NA
MB-EL-06	Electrical	Data Outlet Addition at Classrooms	Provide two more data outlets in each classroom for student use.	Classrooms have 4 data outlets for student use and 6 are required by districts minimum standards.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency. Outlets can be added by district using splitter and existing data wiring.	L. Decker B. Kenworthy	NA
MB-EL-14	Electrical	Internet Connection Upgrade	Provide an additional T-1 line for internet connection.	An additional T-1 line is needed to meet district's minimum standard for internet connection.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	R. Luke N. Vien	NA
MB-EL-18	Electrical	Stage Lighting Additions	Provide production -level stage lighting.	Production-level stage lighting desired for use during student theater productions.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency.	L. Decker	NA
MB-MD-02	Modernization	Emergency Storage Room Addition	Provide space within building for storage of emergency supplies.	Building does not have space for storage of emergency supplies. Existing supplies kept in exterior storage container.	Enhancement	2	NA	BLRB Cost Estimate	Costs included in MB-MD-08.	B. Kenworthy	NA
MB-MD-03	Modernization	Instructional Material Storage Addition	Provide additional storage space for instructional materials.	Additional space desired for storage of instructional materials.	Enhancement	2	NA	BLRB Cost Estimate	Costs included in MB-MD-08.	L. Decker	NA

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
MB-MD-06	Modernization	Teaching Station Skylight Additions	Provide skylight at orchestra classroom and technology classroom 604.	Existing rooms do not have exterior windows and exposure to daylight. Window addition not feasible because these rooms are interior spaces. Adding skylights difficult because of high roofs or mechanical attics above these spaces.	Enhancement	NA	NA	No Cost Estimate	Minor defect and not cost effective.	L. Decker B. Kenworthy	NA

# PROPOSED FACILITY IMPROVEMENTS

# OLYMPIC MIDDLE SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
OL-NW-01	New	Facility Replacement	Demolish existing building and site improvements and build new school facility.	Existing site and building have extensive program and facility component deficiencies. Many of these deficiencies cannot be corrected unless significant portions of the facility were demolished and rebuilt in a new configuration.	Deficiency	1	\$50,107,424	BLRB Cost Estimate		M. Newman	A
OL-SI-16	Site	Exterior Bench Additions	Provide 8 additional exterior benches.	Two exterior benches needed at front entry and 6 needed at courtyard areas.	Deficiency	3	\$23,460	BLRB Cost Estimate		R. Thomas	B
OL-SI-19	Site	Exterior Waste Receptacle Upgrade	Provide ornamental waste receptacle at front entry and waste receptacles with push door tops at other areas.	Existing exterior waste receptacles are galvanized cans and many do not have covers.	Enhancement	2	\$11,926	BLRB Cost Estimate		R. Thomas	B
OL-EQ-01	Equipment	Classroom Furniture Upgrade	Replace teacher and student furniture in classrooms.	Existing classroom furniture is worn and teacher's desks and student chairs do not meet district's minimum standards.	Deficiency	1	\$457,384	ASD Cost Estimate		B. Kenworthy	B
OL-EQ-02	Equipment	Computer Furniture Upgrade	Provide furniture designed for computer and other technology equipment use.	Existing furniture used for computer and technology equipment is lacking and in many cases not designed for this use.	Deficiency	2	\$27,870	ASD Cost Estimate		R. Luke	B
OL-EQ-11	Equipment	Office Furniture Upgrade	Replace office furniture.	Existing office furniture is worn and desks do not meet district's minimum standards.	Deficiency	2	\$25,610	ASD Cost Estimate		B. Kenworthy	B
OL-SI-01	Site	ADA Site Improvements	Provide miscellaneous site improvements to comply non-mandatory ADA standards.	School was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous site areas, which do not significantly affect access to the building, could be improved to comply with current ADA standards. Site improvements needed to provide ADA required program access are identified separately.	Enhancement	1	\$76,099	BLRB Cost Estimate	Minor need and non-mandatory improvements.	ADA Consultant	C
OL-SI-02	Site	Asphalt Paving Upgrade	Patch and overlay asphalt at east parking lot. Replace asphalt and subgrade at west parking lot and student courtyard areas.	Existing asphalt surfaces are in poor condition and have settled in areas.	Deficiency	3	\$923,115	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
OL-SI-03	Site	Baseball and Softball Backstop Upgrade	Provide new baseball and softball field backstops, increase height backstop fencing, and extend fencing along north baselines.	Existing fencing has holes and is curling at bottom edge. Larger backstops and fence extension along north baselines needed to reduce number of foul balls hit into surrounding streets.	Health / Safety & Deficiency	3	\$101,465	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas R. Swaim	C
OL-SI-06	Site	Baseball and Softball Dugout Roof Addition	Provide roof at baseball and softball field dugouts.	Roof desired to protect players and equipment from rain.	Enhancement	4	\$24,438	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Swaim	C
OL-SI-07	Site	Baseball and Softball Dugout Slab Addition	Provide concrete slab at baseball and softball field dugouts.	Existing dirt floor dugouts need concrete slab to eliminate mud and ponding water that collects in dugout.	Deficiency & Enhancement	4	\$11,730	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Swaim	C
OL-SI-08	Site	Baseball and Softball Field Location Improvement	Relocate baseball and softball fields to be closer to locker rooms and further away from road.	Baseball and softball fields are a considerable distance away from locker rooms which requires more class time for students to reach and return from fields. Both fields are adjacent to a road allowing foul balls to be hit into traffic.	Health / Safety & Deficiency	4	\$1,130,765	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Douglas	C

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
OL-SI-09	Site	Baseball and Softball Infield Improvements	Add and regrade soil at baseball and softball infields. Add clay block soil amendment to baseball field's pitcher's mound and batter's box.	Existing soil at infields is uneven and clay block is needed at baseball field's pitcher's mound and batter's box to improve drainage.	Deficiency	3	\$92,613	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas R. Swaim B. Kenworthy	C
OL-SI-10	Site	Baseball and Softball Field Grass Turf Upgrade	Improve irrigation system and grass turf at baseball and softball outfields.	Existing field has uneven and worn grass turf with holes and an inadequate irrigation system. Regrading and new grass turf and irrigation system needed over the entire field.	Health / Safety & Deficiency	3	\$83,927	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Swaim	C
OL-SI-12	Site	Cinder Track Upgrade	Add cinders and regrade running track.	Existing track surface is uneven with areas of settlement and ponding water.	Deficiency	2	\$161,505	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
OL-SI-13	Site	Concrete Sidewalk Improvements	Replace sections of broken and uneven concrete sidewalks at front of school.	Portions of the existing concrete walking surfaces at front of school are broken and uneven.	Deficiency	2	\$19,419	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
OL-SI-15	Site	Exterior Basketball Court Addition	Provide an additional exterior basketball court.	Existing student courtyard area has one basketball court and district's minimum standards identify two courts.	Deficiency	3	\$82,649	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
OL-SI-17	Site	Exterior Bleacher Addition	Provide additional bleachers for 90 spectators at football / soccer field.	Existing bleachers at football / soccer field seat 60 spectators. Additional bleachers needed to meet district's minimum standard 150.	Deficiency	2	\$87,975	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas R. Swaim	C
OL-SI-18	Site	Exterior Signage Improvements	Provide new and additional directional signs at building exteriors.	Existing exterior directional signage is limited and not effective for providing directions around campus.	Deficiency	2	\$61,095	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
OL-SI-20	Site	Fence Gate Replacement	Replace rolling fence gates with swing-type gates.	Existing roll type gates are heavy and difficult to operate.	Deficiency	2	\$21,995	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
OL-SI-21	Site	Football Field Grass Turf Upgrade	Improve grass turf football field and irrigation system.	Existing field has uneven and worn grass turf with holes and an inadequate irrigation system. Regrading and new grass turf and irrigation system needed over the entire field.	Deficiency	3	\$96,616	BLRB Cost Estimate	Minor need.	R. Swaim	C
OL-SI-23	Site	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station.	Connection to the EMS and a weather station will reduce water consumption and utility costs.	Operating Cost	1	\$30,083	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
OL-SI-24	Site	Parking and Access Improvements	Modify, expand and improve staff and visitor parking, bus loading and student drop off area.	Staff, visitor and event parking are undersized. Dedicated areas not provided for student drop off and pick up. All asphalt parking lots and driveways have areas of settlement and deterioration. Staff parking will accommodate 54 vehicles which is 21 less than district's minimum standard. Visitor parking will accommodate 6 vehicles which is 14 less than district's minimum standard. Event parking, which is the combined capacity of staff and visitor parking will accommodate 60 vehicle which is 40 less than district's minimum standard. Currently, parent drop off and pick up students in bus, staff and visitor parking lots which creates significant congestion. A delivery area is not provided near the front of the school so delivery vehicles often block access in the east parking lot when making deliveries to main office.	Deficiency	1	\$519,787	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas P. Douglas M. Newman	C

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
OL-SI-25	Site	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars, directional arrows, and bus stall numbers. Restripe all existing painted pavement markings at parking lots.	Thermo-plastic markings needed at critical areas that quickly wear away. Existing painted lines are worn, difficult to see, and require repainting.	Deficiency	1	\$2,285	BLRB Cost Estimate	Maintenance item.	R. Thomas B. Kenworthy	C
OL-SI-26	Site	Pickleball Court Additions	Provide posts, nets and striping for 4 pickleball courts at event parking lot.	Pickleball courts needed for PE classes. Event parking area not present on site for these courts. Courts could be placed at bus loading area but would be less accessible.	Deficiency	3	\$24,438	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
OL-SI-29	Site	Shrub and Tree Improvements	Prune and replace overgrown shrubs and trees around 100 and 200 units.	Existing shrubs and trees located around perimeter of 100 and 200 units are overgrown and unsightly.	Enhancement	3	\$15,014	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
OL-SI-30	Site	Site Sign Upgrade	Replace site sign with concrete or masonry sign that includes school address.	Existing site sign is made of wood, not durable and does not identify school address.	Deficiency	2	\$61,095	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
OL-SI-31	Site	Soccer Field Grass Turf Upgrade	Improve grass turf soccer field and irrigation system.	Existing field has uneven and worn grass turf with holes and an inadequate irrigation system. Regrading and new grass turf and irrigation system needed over the entire field.	Health / Safety & Deficiency	3	\$219,103	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Swaim	C
OL-SI-33	Site	Storm Drainage Improvements	Provide storm drain lines to connect existing roof down spouts to storm drain system.	Existing downspouts drain water to ground surface which creates saturated ground surface areas and storm water drainage across walkways.	Deficiency	1	\$80,524	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
OL-SI-34	Site	Stump Removal	Remove large stump at regrade surrounding grass turf area at south end of football field.	Existing stump looks unattractive and interferes with use of grass turf area.	Enhancement	4	\$2,933	BLRB Cost Estimate	Minor need.	P. Douglas R. Thomas	C
OL-SI-36	Site	Vehicle Gate Additions	Provide pipe rail vehicle gates at entry to staff parking lot.	Staff parking area does not have vehicle gate to restrict vehicle access after school hours.	Deficiency	1	\$29,325	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
OL-SI-37	Site	Synthetic Athletic Surface Additions - Football Field and Track	Replace grass turf football field with infill system synthetic turf field. Replace cinder track, long jump and high jump areas with rubberized surface.	See Improvement Justifications for OL-SI-22 and OL-SI-28. Constructing these improvements at the same time will cost less than building them separately because a combined underdrain system could be used.	Enhancement	2	\$3,167,535	DA Hogan	Not cost effective.	R. Swaim	C
OL-SI-38	Site	Natural Gas Service Line Replacement	Replace 1200 LF of existing secondary underground gas service lines located outside of buildings with primary lines and 3 additional gas meters.	Existing underground natural gas lines beyond the existing gas meter do not comply with current regulations and require maintenance and annual testing by the school district. Installation of new lines and gas meters will allow the gas company to maintain and test underground lines.	Operating Cost & Deficiency	1	\$76,855	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
OL-ST-01	Structural	Gym Plywood Shear Wall Addition	Provide plywood shear wall at wall between the gym and commons.	Plywood shear wall will reduce potential for damage to the diaphragm and walls.	Deficiency	2	\$49,266	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
OL-ST-02	Structural	700 Unit Plywood Sheathing Addition	Provide plywood sheathing to portion of north lobby wall of the 700 Unit.	Plywood sheathing at north lobby wall of 700 Unit will improve shear resistance.	Deficiency	2	\$25,660	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
OL-ST-03	Structural	500 Unit Plywood Sheathing Addition	Remove existing finishes, provide plywood sheathing and new finishes to two interior walls between classrooms at 500 Unit.	Plywood sheathing over wood interior walls will improve seismic support of 500 Unit.	Deficiency	2	\$26,393	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
OL-ST-04	Structural	200 Unit Plywood Sheathing and Strap Additions	Remove existing finishes, provide plywood sheathing and new finishes to corridor walls and two interior walls between classrooms. Provide straps and blocking at ends of shear walls. Provide strapping at re-entrant corners.	Plywood sheathing over wood interior walls, straps, and blocking will improve seismic support of 200 Unit.	Deficiency	2	\$61,387	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
OL-ST-05	Structural	Plywood Sheathing Addition & Roof Replacement	Replace roof membrane and insulation and provide plywood sheathing over the areas containing diagonal roof sheathing.	Plywood sheathing will improve the overall performance of the structure, and help to limit damage caused during a seismic event.	Deficiency	2	\$2,625,810	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
OL-ST-06	Structural	Roof Strap Additions	Provide strapping across joists, top plates, sheathing or beams near edge of roof diaphragms at 100, 700, and 900 Units.	Creation of a continuous chord element with strapping will improve the seismic support of the roof diaphragms.	Deficiency	2	\$29,815	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
OL-ST-07	Structural	Wood Column Anchor Additions	Provide connection to the foundation consisting of hold-down anchors at each column at 1956 and 1960 buildings.	Addition of hold-down anchors at columns will provide needed resistance to uplift.	Deficiency	2	\$17,840	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
OL-ST-08	Structural	Mechanical Equipment Anchoring	Anchor equipment in mechanical room.	Anchoring mechanical equipment in accordance with current code requirements will reduce potential for equipment and structural damage.	Deficiency	2	\$2,445	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
OL-ST-09	Structural	Masonry Chimney Anchoring	Provide roof blocking and tension ties into the masonry chimney.	Securing the masonry chimney to the roof structure will reduce the potential for damage to chimney and roof.	Deficiency	2	\$6,061	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
OL-ST-10	Structural	Covered Walkway Bracing	Provide shear panels or cross bracing between the covered walks.	Shear panels or cross bracing will provide lateral support for covered walks.	Deficiency	2	\$3,910	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
OL-ST-11	Structural	Masonry Wall Tie Additions	Verify presence of and provide masonry veneer ties.	Masonry wall tie additions are needed to maintain seismic support.	Deficiency	2	\$37,164	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
OL-ST-12	Structural	Mortar Joint Replacement	Re-point deteriorated mortar joints at 600 Unit.	Deteriorated mortar joints should be re-pointed to prevent future damage.	Deficiency	2	\$19,550	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
OL-ST-13	Structural	Masonry Wall Crack Repair	Seal the cracks in the masonry walls.	Cracks should be sealed to prevent future damage.	Deficiency	2	\$20,772	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
OL-EX-01	Exterior	Automatic Door Opener Addition	Provide automatic door opener at front entry doors.	Building does not have automatic door opener at main entry doors.	Enhancement	3	\$26,882	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	J. Trauffer M. Newman	C

# PROPOSED FACILITY IMPROVEMENTS

# OLYMPIC MIDDLE SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
OL-EX-04 ECM-G1	Exterior	Exterior Window Replacement	Replace the remaining single pane windows with new thermal pane windows.	Window replacement will reduce energy costs.	Operating Cost	3	\$385,688	Quantum Cost Estimate	Not cost effective because of estimated 15-year payback period.	Energy Consultant	C
OL-EX-05	Exterior	Exterior Window and Window Covering Upgrade	Replace single-pane exterior windows with dual glazing and integral blinds.	Dual glazed windows will improve energy efficiency and integral blinds will reduce damage to and maintenance of window blinds.	Operating Cost & Deficiency	1	\$1,765,634	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
OL-EX-06	Exterior	Masonry Water Repellant Application	Provide application of water repellant at exterior masonry.	Existing masonry lacks a water repellant coating to protect against moisture penetration.	Deficiency	1	\$92,252	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
OL-EX-07	Exterior	Roof Membrane, Flashing and Insulation Upgrade	Replace single-ply roof membrane and flashing and add roof insulation.	Existing roof flashing is in poor condition. Existing roof membrane is in good condition but will exceed its life expectancy within 10 years. Existing roof insulation meets district's minimum standard in most areas but additional insulation is desired to reduce heat loss and energy costs.	Deficiency & Enhancement	1	\$2,899,510	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas B. Kenworthy	C
OL-EX-08	Exterior	Roof Fall Arrest Anchors Addition	Provide fall arrest system at 100 unit roof.	Pitched roof at 100 unit does not have fall arrest safety system.	Health / Safety	1	\$19,428	BLRB Cost Estimate	Minor deficiency.	R. Thomas	C
OL-IN-01	Interior	ADA Building Improvements	Provide miscellaneous building improvements to comply non-mandatory ADA standards.	School was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous building areas, which do not significantly affect access within the building, could be improved to comply with current ADA standards. Improvements needed to provide ADA required program access within the building are identified separately.	Enhancement	1	\$682,831	BLRB Cost Estimate	Minor need and non-mandatory improvements.	ADA Consultant	C
OL-IN-02	Interior	Asbestos Containing Material Removal	Remove approximately 27,164 SF of vinyl asbestos tile and asbestos tile mastic, 1,420 SF of sheet vinyl and asbestos mastic, 9,100 SF of cement asbestos board, and 306 SF of asbestos containing counter tops throughout building.	Existing vinyl tile, sheet vinyl, floor mastic, cement board, and science room 305 counter tops contain asbestos. All of the mastic is covered with tile. Much of the vinyl tile and sheet vinyl is covered by carpeting. All asbestos is encapsulated within the material and is not friable.	Enhancement	1	\$372,099	BLRB Cost Estimate	Minor need.	B. Kenworthy	C
OL-IN-03	Interior	Classroom Cabinet Upgrade	Replace wood cabinets and add cabinets to match district standards in all general classrooms except 200 unit.	Existing wood cabinets are in poor condition and classrooms need additional cabinets except in 200 unit.	Deficiency	2	\$301,803	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
OL-IN-04	Interior	Classroom Ceiling Upgrade	Provide new ceilings in classrooms.	Existing glue-on acoustical ceiling tile in classrooms is stained and damaged.	Deficiency	1	\$560,840	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
OL-IN-05	Interior	Corridor Tackboard Additions	Provide additional tackboards in corridors.	Additional tackboards are desired in corridor for announcements and displays. Placement of additional tackboards will be difficult because nearly all corridor walls have lockers.	Enhancement	2	\$3,422	BLRB Cost Estimate	Minor need.	R. Thomas	C
OL-IN-06	Interior	Door Closure Replacement	Replace all door closures.	Existing closures are in poor condition.	Deficiency	2	\$284,085	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
OL-IN-07	Interior	Gym Floor Restriping and Refinishing	Restripe and refinish floor in main gym.	Existing game lines and floor finish are worn and some game lines do not meet current standards for basketball courts.	Deficiency	2	\$79,960	BLRB Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	P. Douglas R. Thomas	C

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# OLYMPIC MIDDLE SCHOOL

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OL-IN-08	Interior	Interior Painting	Paint building interior.	Existing paint is in fair condition.	Enhancement	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Thomas	C
OL-IN-09	Interior	Library Carpet Replacement	Replace carpet in library.	Existing carpet in library is old and does not meet district's minimum standards. Carpet in other areas was replaced in 2001 and is in good condition.	Deficiency	2	\$70,978	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
OL-IN-10	Interior	Main Office Visibility Improvement	Provide relite windows for visual connection between front entry foyer and main office.	Front entry foyer not visible from main office.	Deficiency	2	\$8,743	BLRB Cost Estimate	Minor deficiency and will result in loss of display case.	P. Douglas	C
OL-IN-11	Interior	Music Instrument Storage Upgrade	Provide locking cabinets for storage of music instruments.	Locking cabinets needed to protect valuable instruments from theft or improper usage.	Enhancement	1	\$79,422	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Douglas	C
OL-IN-12	Interior	Office Relite Window Additions	Provide relite windows where not present at offices.	Some offices do not have interior relite windows to allow visual connection to corridor or adjacent room.	Deficiency	1	\$30,603	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
OL-IN-13	Interior	Walk Off Mat Upgrade	Provide larger walk off mats at building entrances.	Existing walk off mats are 6' long at corridors. Larger mats will improve dirt control.	Enhancement	2	\$67,448	BLRB Cost Estimate	Not cost effective until carpeting in building is replaced.	R. Thomas	C
OL-EQ-03	Equipment	Fiber Optic Connection Addition	Provide data communications equipment to accommodate installation of a leased fiber optic circuit.	Equipment needed when school upgrades its internet connection with a fiber optic circuit leased from Qwest.	Enhancement	1	\$11,410	ASD Cost Estimate	Minor need.	N. Vein	C
OL-EQ-04	Equipment	Foods Classroom Equipment Replacement	Replace range / ovens and exhaust fans at 8 cooking stations in foods classroom.	Existing range / ovens are in fair condition but past life expectancy.	Enhancement	2	\$47,956	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
OL-EQ-05	Equipment	Gym Basketball Backboard Upgrade	Relocate or replace basketball backboards to match new game lines that meet current regulations for basketball courts.	Existing basketball courts are narrow and do not meet current regulations.	Deficiency	2	\$45,023	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	M. Newman	C
OL-EQ-06	Equipment	Gym Bleacher Upgrade	Provide new telescoping bleachers in gym.	Existing telescoping bleachers are past life expectancy and not ADA compliant.	Deficiency	2	\$258,750	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
OL-EQ-12	Equipment	Replace Stage Curtain	Replace curtain at portable stage.	Existing curtain is in fair condition.	Enhancement	2	\$14,836	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
OL-EQ-13	Equipment	Wrestling Mat Holder Addition	Provide mat holders and associated electrical power and control in auxiliary gym to hang wrestling mats from ceiling.	Mat holders desired to allow off-season ceiling storage of wrestling mats to free up storage space in PE equipment room.	Enhancement	2	\$34,500	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Swain	C
OL-ME-01	Mechanical	Art Room Eye Wash Addition	Provide eye wash in art room area.	Eye wash needed for student safety.	Health / Safety	1	\$3,342	Quantum Cost Estimate	Minor deficiency.	B. Kenworthy	C
OL-ME-02 ECM-M5	Mechanical	Automatic Controls Upgrade	Upgrade control system front end and software to the district standard - BacNet compatible, web based.	BACnet controls will reduce EMS maintenance and service costs.	Operating Cost	2	\$38,570	Quantum Cost Estimate	Not cost effective because of estimated 6-year payback period.	R. Thomas Energy Consultant	C
OL-ME-03 ECM-M9	Mechanical	Boiler Replacement	Replace boilers with two high efficiency condensing boilers and add a hot water circulation pump.	Boiler replacement and pump addition will reduce energy costs.	Operating Cost	3	\$385,688	Quantum Cost Estimate	Not cost effective because of estimated 12-year payback period.	R. Thomas Energy Consultant	C



# PROPOSED FACILITY IMPROVEMENTS

# OLYMPIC MIDDLE SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
OL-ME-04 ECM-M11	Mechanical	Ceiling Unit Ventilator Valve Improvements	Provide control valves at heating coils at ceiling mounted unit ventilators and eliminate face and by-pass valves.	Valve modifications will reduce energy costs.	Operating Cost	3	\$25,713	Quantum Cost Estimate	Not cost effective because of estimated 12-year payback period.	Energy Consultant	C
OL-ME-05 ECM-M4	Mechanical	CO2 Control Addition	Expand control system to add CO2 control to the main air handling systems in commons, gym and library.	CO2 control will regulate the amount of outside air being delivered to the occupied spaces based on CO2 levels and reduce energy usage.	Operating Cost	1	\$30,855	Quantum Cost Estimate	Not cost effective because of estimated 5-year payback period.	Energy Consultant	C
OL-ME-06 ECM-M7	Mechanical	Domestic and Heating Water Pipe Insulation Addition	Insulate the supply and return domestic and heating water piping.	Insulation will reduce energy costs and reduce the potential for overheating in spaces where uninsulated heating pipes are located.	Operating Cost	1	\$6,428	Quantum Cost Estimate	Not cost effective because of estimated 4-year payback period.	Energy Consultant	C
OL-ME-07	Mechanical	Domestic Water Pipe Replacement	Replace domestic water pipes and insulation.	Existing steel pipes leak in areas, cause discolored water, and are past life expectancy. Existing insulation is damaged in areas and does not meet district's minimum standard for insulation value.	Deficiency	1	\$742,834	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
OL-ME-08	Mechanical	Fire Sprinkler System Addition	Provide fire sprinkler system throughout school.	Buildings are not protected with a fire sprinkler system.	Deficiency	1	\$733,115	Quantum Cost Estimate	Not cost effective.	R. Thomas	C
OL-ME-09	Mechanical	Heating Pipe and Pump Replacement	Replace hydronic pipes, pipe insulation and pumps at heating system.	Existing pipes leak in areas and are past life expectancy. Existing insulation is damaged in areas and does not meet district's minimum standard for insulation value. Existing pumps are not reliable.	Deficiency	1	\$712,237	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
OL-ME-10	Mechanical	Heat Pump Upgrade	Replace heat pumps with higher capacity equipment.	Existing heat pumps are not able to keep rooms at set point temperatures during extreme cold days and equipment is past life expectancy.	Deficiency	1	\$298,008	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
OL-ME-11 ECM-M1	Mechanical	HVAC Control System Commissioning	Commission the HVAC control system to verify proper operation.	Commissioning will improve system operation and efficiency.	Operating Cost	2	\$64,282	Quantum Cost Estimate	Not cost effective because of estimated 6-year payback period.	Energy Consultant R. Thomas	C
OL-ME-12 ECM-M6	Mechanical	Kitchen and Dishwasher Hood Control Addition	Connect the EMS control system to the kitchen and dishwasher hoods.	EMS control connection will allow operation of hood to be scheduled so it will not operate when kitchen not in use and will reduce energy costs.	Operating Cost	2	\$6,428	Quantum Cost Estimate	Not cost effective because of estimated 7-year payback period.	Energy Consultant	C
OL-ME-13	Mechanical	Natural Gas System Metering	Provide electronic meter for natural gas system connected to energy management system.	Electronic meter will allow remote monitoring of gas service and improve potential for reducing natural gas use.	Operating Cost	1	\$114,420	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
OL-ME-15 EMC-M2	Mechanical	Occupancy Sensor Temperature Control Addition - Classrooms	Expand control system to add occupancy sensor control to the VAV boxes serving in classrooms.	Occupancy sensor control will setback the space temperature and airflow when classrooms are unoccupied and will reduce energy costs.	Operating Cost	2	\$89,995	Quantum Cost Estimate	Not cost effective because of estimated 10-year payback period.	Energy Consultant	C
OL-ME-16 EMC-M3	Mechanical	Occupancy Sensor Temperature Control Addition - Non-Classroom Areas	Expand control system to add occupancy sensor control to the VAV boxes serving commons, gym, library, locker rooms, and music rooms.	Occupancy sensor control will setback the space temperature and airflow when rooms are unoccupied and will reduce energy costs.	Operating Cost	2	\$25,713	Quantum Cost Estimate	Not cost effective because of estimated 6-year payback period.	Energy Consultant	C
OL-ME-17	Mechanical	Plumbing Fixture Replacement	Replace plumbing fixtures throughout school.	Existing plumbing fixtures are in poor condition, lack water saving features, and do not meet district's minimum standards.	Operating Cost & Deficiency	1	\$155,946	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
OL-ME-18 ECM-W1	Mechanical	Plumbing Fixture Retrofit Review	Review water saving opportunities including retrofit or replacement of sinks, urinals and water closets.	A reduction in water use will reduce utility costs.	Operating Cost	2	\$64,282	Quantum Cost Estimate	Not cost effective because of estimated 6-year payback period.	Energy Consultant	C

# PROPOSED FACILITY IMPROVEMENTS

# OLYMPIC MIDDLE SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
OL-ME-19	Mechanical	Roof Mounted Ductwork and Equipment Replacement	Replace roof mounted mechanical equipment and ductwork with equipment and ductwork within building.	Existing roof mounted equipment and ductwork has inconvenient service access and are exposure to weather creating premature wear and potential for indoor air quality problems.	Deficiency	1	\$1,002,016	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas B. Kenworthy	C
OL-ME-20	Mechanical	Shop Building Heating Upgrade	Improve heating system at 800 unit shop building.	Existing heating system frequently fails and not energy efficient.	Deficiency	2	\$36,769	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	M. Newman	C
OL-ME-21 ECM-M8	Mechanical	Stack Dampers Linkage Reconnection	Reconnect the stack dampers on the heating water boiler to shut off air through the stack when the boiler is not firing.	Stack damper reconnection will reduce energy costs.	Operating Cost	1	\$1,285	Quantum Cost Estimate	Not cost effective because of estimated 3-year payback period.	Energy Consultant	C
OL-ME-22	Mechanical	Telecommunication Rooms Cooling and Ventilation Addition	Provide independent mechanical ventilation and cooling system in existing MC room and HC rooms.	Existing MC and HC rooms lack independent HVAC systems needed to keep data equipment from overheating and damaging equipment.	Deficiency	1	\$40,883	Quantum Cost Estimate	Minor deficiency.	N. Vein B. Kenworthy	C
OL-ME-23	Mechanical	Unit Ventilator Replacement	Replace unit ventilator throughout school.	Existing unit ventilators are past life expectancy.	Enhancement	1	\$555,133	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
OL-ME-24	Mechanical	Water Quality Improvements	Replace plumbing at sinks in health room, kitchen (3), staff workroom, science classrooms (12), and classroom 701. Replace 10 drinking fountains. Replace bubblers at classrooms in 200, 400, and 500 units (28).	Water quality tests at some sinks, some drinking fountains and, and some bubblers exceeded EPA water quality standards for lead or copper.	Health / Safety	1	\$97,964	Quantum Cost Estimate	Not needed. Further testing revealed water quality standards being met except at four fixtures that will be corrected by Maintenance Dept.	B. Kenworthy	C
OL-ME-25	Mechanical	Refrigeration Equipment Upgrade	Replace and relocate refrigeration equipment at walk-in cooler and freezer in kitchen.	Existing refrigeration equipment for walk-in cooler and freezer is located within a confined ceiling space which causes the equipment to overheat, causes premature wear and tear, and is difficult to service.	Deficiency	2	\$40,112	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
OL-EL-01	Electrical	Baseball and Softball Field Power Addition	Provide electrical power to baseball and softball fields.	Existing electrical power to these field does not operate. Power needed for pitching machines and other electrical equipment.	Enhancement	3	\$50,653	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Swaim	C
OL-EL-02	Electrical	Ceiling Mounted LCD Projector Addition	Provide ceiling mounted LCD projector and associated AV and power outlets in each classroom with connection to teacher's work station.	Ceiling mounted projectors desired for ease of use, to reduce theft, and to protect equipment and cables from damage.	Enhancement	1	\$915,365	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Luke R. Thomas M. Newman	C
OL-EL-03	Electrical	Data Communications Equipment Upgrade	Upgrade data communications equipment filter, router, switch, traffic shaping and connectivity speed.	Existing filter, router, switch, traffic shaping and connectivity speed do not meet district's minimum standards.	Deficiency	1	\$202,074	ASD Cost Estimate	Minor deficiency.	N. Vien	C
OL-EL-04	Electrical	Data Outlet Addition at Teacher's Work Station	Provide data outlets for computers and AV equipment at teacher's work station in each classroom.	Classrooms do not have AV outlets at teacher's work station and do not have floor box with data outlets at front of classroom.	Enhancement	1	\$493,680	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Luke M. Newman	C
OL-EL-05	Electrical	Data Outlet Addition at Classrooms	Provide one more data outlets in each classroom for student use.	Classrooms have 5 data outlets for student use and 6 are required by districts minimum standards.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency. Outlets can be added by district using splitter and existing data wiring.	B. Kenworthy	C
OL-EL-06	Electrical	Electrical Service Metering	Provide electronic meter for electrical service connected to energy management system.	Electronic meter will allow remote monitoring of electrical service and improve potential for reducing electrical use.	Operating Cost	1	\$49,883	Quantum Cost Estimate	Not cost effective.	R. Thomas	C

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
OL-EL-07 ECM-L4	Electrical	Exit Sign Replacement	Replace incandescent and compact fluorescent exit signs with new LED exit signs.	Exit light replacement will reduce energy costs.	Operating Cost	1	\$12,857	Quantum Cost Estimate	Not cost effective because of estimated 4-year payback period.	Energy Consultant	C
OL-EL-08	Electrical	Exterior Lighting Level Improvements	Provide additional illumination at front entry, bus area, delivery area, parking lots and pathways.	Existing exterior lighting at exterior lacks adequate illumination levels and is below district's minimum standards.	Health / Safety & Deficiency	2	\$203,130	Quantum Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	B. Kenworthy M. Newman	C
OL-EL-09	Electrical	Gym Scoreboard and Sound System Control Addition	Provide controls for scoreboard, shot clocks and sound system at bleachers at east side of main gym.	Existing controls are located at open floor area at west side of gym. Controls are desired at east bleachers to allow scorekeepers to be seated in the bleachers and to eliminate a score table at the west side which will provide more out-of-bounds space.	Enhancement	2	\$42,940	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Swaim	C
OL-EL-10	Electrical	Gym Sound System Upgrade	Replace sound system in main gym.	Existing sound system in gym has poor sound quality.	Deficiency	3	\$56,773	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Swaim	C
OL-EL-11 ECM-L2	Electrical	Industrial Technology Lighting Replacement	Replace HID fixtures in the industrial technology lab with new fixtures using T-8 or T-5 technology.	Lighting replacement will reduce energy costs.	Operating Cost	2	\$19,285	Quantum Cost Estimate	Not cost effective because of estimated 6-year payback period.	Energy Consultant	C
OL-EL-12	Electrical	Interior Lighting Level Improvements	Provide additional illumination at classrooms, corridors, emergency lighting, kitchen, library, restrooms and support spaces.	Existing lighting at interior areas lacks adequate illumination levels, is below the district's minimum standards and many light fixtures have discolored lenses.	Health / Safety & Deficiency	1	\$257,125	Quantum Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	B. Kenworthy	C
OL-EL-13 ECM-L1	Electrical	Interior Lighting Upgrade	Retrofit or replace T-12 fixtures, magnetic ballast and incandescent fixtures with T-8, electronic ballast and compact fluorescent technology.	Fixture replacement or retrofit will reduce energy costs.	Operating Cost	2	\$231,413	Quantum Cost Estimate	Not cost effective because of estimated 6-year payback period.	Energy Consultant B. Kenworthy R. Thomas	C
OL-EL-15	Electrical	Intrusion Alarm Audible Signal Upgrade	Upgrade intrusion alarm system to provide audible alarm.	Use of audible alarm could reduce intrusions and false alarms.	Enhancement	1	\$83,565	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	M. Newman	C
OL-EL-16	Electrical	Library Electrical Outlet Additions	Provide 12 additional electrical outlets in library at student computer stations.	Additional electrical outlets needed to accommodate student computers.	Deficiency	1	\$12,342	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
OL-EL-17 ECM-L3	Electrical	Occupancy Sensor Lighting Control Addition	Provide occupancy sensor in areas with fluctuating occupancy to turn off lights when the spaces are unoccupied.	Occupancy sensors will reduce energy costs.	Operating Cost	2	\$10,285	Quantum Cost Estimate	Not cost effective because of estimated 8-year payback period.	Energy Consultant	C
OL-EL-18	Electrical	Surveillance Camera Addition	Provide surveillance camera system to monitor parking lots and areas around building.	Surveillance cameras could reduce vandalism and theft around building.	Enhancement	1	\$151,705	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	M. Newman R. Luke	C
OL-EL-19	Electrical	Telephone System Upgrade	Upgrade telephone system to provide voice mail.	Existing telephone system does not have voice mail feature and does not meet district's minimum standards.	Deficiency	1	\$487,766	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
OL-MD-04	Modernization	Building Appearance Upgrade	Improve appearance of interior and exterior of buildings.	School does not have a prominent front entry and has a poor quality, worn, dated and unattractive appearance on the interior and exterior.	Deficiency	1	\$3,219,275	BLRB Cost Estimate	Not cost effective.	P. Douglas	C
OL-MD-05	Modernization	Building Enclosure Modernization	Provide access to all parts of building within enclosed space.	School consists of separate buildings connected by covered walkways. This inhibits supervision, requires students and staff to go outdoors to travel between buildings, and does not meet district's minimum standards.	Deficiency	1	\$5,330,088	BLRB Cost Estimate	Not cost effective.	P. Douglas	C

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OL-MD-07	Modernization	Conference Room Improvement	Provide permanent wall in large conference room to provide two conference rooms.	Existing large conference room is large enough to be divided into two conference rooms. Existing room has a divider curtain that does not provide adequate acoustical separation between rooms. Instead, a permanent wall is needed.	Deficiency	1	\$14,663	BLRB Cost Estimate	Not cost effective because of short-term life of facility.		C
OL-MD-10	Modernization	Field House Storage Expansion	Provide larger field house storage area for outdoor PE and athletic equipment.	Existing field house storage is undersized by 250 SF and 42% smaller than district's minimum standard.	Deficiency	3	\$3,670,025	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
OL-MD-15	Modernization	Industrial Technology Upgrade	Modernized industrial technology classroom and lab.	Existing industrial technology area is in an old building with floor settlement, inadequate mechanical and electrical systems, and does not have separate areas for a classroom and lab.	Deficiency	2	\$204,053	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
OL-MD-16	Modernization	Isolated Waiting Room Addition	Provide isolate waiting room adjacent to main office area.	Building does not have an isolated waiting room for students who are sent to the main office.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency.	P. Douglas	C
OL-MD-18	Modernization	Kiln Room Addition	Provide dedicated room, ventilation system, and fire protection system for kiln.	Existing kilns are located in the art classroom not have ventilation or fire protection system.	Deficiency	2	\$41,545	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
OL-MD-23	Modernization	Locker Room Modernization	Enlarge and improve boy's and girl's locker rooms.	Existing locker rooms are both undersized by 200 SF and 13% smaller than the district's minimum standard. This causes crowding when used for PE classes. Both locker rooms need additional lockers and toilet fixtures. Girl's locker room does not have relite window between coach's office and locker area.	Deficiency	2	\$81,743	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Douglas B. Kenworthy	C
OL-MD-24	Modernization	Main Gym Modernization	Modernize main gym to meet district's standards.	Existing main gym meets district's minimum size standard but has an efficient shape that results in basketball courts not meeting regulation size and providing inadequate out-of-bounds space. In the main gym, the lighting level appears low, there are no exterior windows, bleachers are past life expectancy, divider curtain is torn and malfunctions, locations of the basketball backboards and game lines need to be changed to meet current court size regulations, sound system has poor sound quality, scoreboards malfunction, and the floor finish is worn.	Deficiency	2	\$1,664,694	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Swaim P. Douglas M. Newman	C
OL-MD-26	Modernization	Music Area Modernization	Modernize band and orchestra classroom areas to provide shared office and music practice rooms, uniform storage area, and new storage cabinets with locks for instruments.	Existing band and orchestra rooms have undersized and separate offices and practice rooms. Practice rooms lack adequate acoustical insulation and are difficult to supervise. Storage space is not provided for band uniforms. Music offices and practice rooms should be combined and shared to improve use and supervision. Existing instrument storage cabinets are in poor condition and need locks to prevent theft and improper use of valuable instruments.	Deficiency	2	\$474,394	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Douglas R. Thomas	C
OL-MD-28	Modernization	Outdoor Equipment Storage Room Addition	Provide a storage room for equipment used by students during lunch.	A designated storage room, convenient to the exterior, is desired for storage of equipment used by students during lunch break.	Enhancement	2	\$36,190	BLRB Cost Estimate	Minor need.	P. Douglas	C

# PROPOSED FACILITY IMPROVEMENTS

# OLYMPIC MIDDLE SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
OL-MD-30	Modernization	Record Storage Room Addition	Provide a storage room for student records in main office area.	Building does not have a dedicated storage room for student records. Records are stored in other areas away from main office which is inconvenient and a supervision problem.	Deficiency	1	\$18,455	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Douglas	C
OL-MD-31	Modernization	Science Prep Room Modernization	Enlarge and improve science prep room to provide work counters, acid storage cabinet, and emergency shower.	Existing science prep in undersized by 40 SF and is 28% smaller than district's minimum standard. Prep room has storage cabinets but does not provide work counter space needed for prep activities, and does not have special storage cabinets for acids and an emergency shower.	Deficiency	1	\$12,611	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Douglas B. Kenworthy	C
OL-MD-32	Modernization	Science Room Addition	Provide another science classroom and associated science prep room.	School has two science classrooms. Three are needed for instructional program and to meet district's minimum standard.	Deficiency	1	\$265,392	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Douglas	C
OL-MD-33	Modernization	Shop Building Classroom Modernization	Modernize 800 unit shop building for use as a general classroom, visual communications classroom, science classroom, special education classroom, and staff and student restrooms.	Existing shop building has minimal use because it is not being used for industrial technology instruction. Conversion to a classroom building would be a more effective use of the building.	Enhancement	2	\$2,775,490	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	M. Newman	C
OL-MD-34	Modernization	Special Education Classroom Addition	Provide special education classroom that is close to the bus loading area and includes a testing room and ADA compliant restroom.	School does not have a special education room. Special education program uses a standard classroom without restroom or testing room.	Deficiency	1	\$196,505	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Douglas	C
OL-MD-36	Modernization	Staff Telephone Room Modernization	Expand and improve staff telephone room.	Existing staff telephone room is undersized by 25 SF and is 62% smaller than district's minimum standard. Telephone room is not ADA compliant and does not have ventilation.	Deficiency	1	\$28,715	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
OL-MD-38	Modernization	Student Restroom Modernization	Modernize student restrooms to provide new surface finishes, plumbing fixtures, ventilation system, and toilet partitions.	Existing student restrooms are in poor condition with worn surface finishes, old and non-ADA compliant toilet partitions, damaged louvers, old mirrors and other accessories, poor ventilation, offensive odors, and old sinks and toilets.	Deficiency	1	\$670,052	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Douglas M. Newman	C
OL-MD-42	Modernization	Health Area / Office / Restroom Modernizations & Additions	Provide Itinerant office, OT / PT room, public restrooms and teacher's planning offices. Modernize and expand health area,	See Improvement Justifications for OL-MD-14, 17, 27, 29 and 39.	Health / Safety & Deficiency	1	\$1,182,326	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Douglas B. Kenworthy	C
OL-MD-43	Modernization	Commons / Gym Areas / Kitchen / Stage / Storage Modernizations & Additions	Provide assembly, drama, furniture and gym storage rooms. Provide kitchenette, laundry room, stage and vending machine alcove. Modernize kitchen, serving area and maintenance storage room. Modernize and expand auxiliary gym and commons.	See Improvement Justifications for OL-MD-01, 03, 06, 08, 12, 13, 19, 20, 21, 25, 37 and 40.	Health / Safety & Deficiency & Enhancement	1	\$7,133,855	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Douglas B. Kenworthy R. Swaim E. Boutin	C
OL-MD-44	Modernization	Staff Restroom / Visual Communications Area Additions	Provide additional staff restrooms, visual communications classroom and dark room.	See Improvement Justifications for OL-MD-35 and 41.	Health / Safety & Deficiency	1	\$791,444	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Douglas B. Kenworthy	C
OL-MD-45	Modernization	Structured Learning Classroom Addition	Provide classroom for structured learning that includes ADA compliant restroom, shower, changing area and testing room.	School does not have a dedicated space for a structured learning program that includes an ADA compliant restroom with changing table, shower and testing room facilities. Currently, this program uses a standard classroom.	Deficiency	1	\$193,487	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	K. Herren M. Newman J. Trauffer	C

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# OLYMPIC MIDDLE SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
OL-SI-04	Site	Baseball and Softball Base Peg Replacement	Replace base pegs and home plate at baseball and softball fields.	Existing base pegs and home plate are difficult to secure in place, come loose, and create a safety hazard.	Health / Safety & Deficiency	NA	NA	No Cost Estimate	Maintenance item.	R. Swaim	NA
OL-SI-05	Site	Baseball and Softball Bullpen Additions	Provide chainlink bullpens enclosures at baseball and softball fields.	Fenced bullpens desired to allow pitching practice to occur within a confined area close to the field.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency and not a school district standard.	R. Thomas	NA
OL-SI-11	Site	Bus Stall Modifications	Increase width of bus stalls from 12' to 16' wide.	Existing bus stalls are too narrow for easy parking and movement of buses. An increase in width of stalls from 12' to 16' would reduce number of bus stalls from 17 to 15.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	J. Denton	NA
OL-SI-14	Site	Dumpster Area Addition	Provide designated area with screen walls for dumpster storage.	Dumpsters are located in west parking lot without a designated area or screen walls.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency. Existing dumpsters located at backside of building and not close to classrooms.	B. Kenworthy	NA
OL-SI-22	Site	Football Field Synthetic Turf Upgrade	Replace grass turf football field with infill system synthetic turf field.	Existing field has uneven and worn grass turf with holes and an inadequate irrigation system. Field can be used only part of the school year and requires considerable maintenance and irrigation to provide a safe and durable playing surface. Synthetic turf would provide a better surface that could be used all year and cost less to maintain.	Operating Cost & Enhancement	3	NA	DA Hogan	Costs included in OL-SI-37.	M. Newman	NA
OL-SI-27	Site	Pipe Rail Gate Improvement	Provide reflective tape on pipe rail vehicle gates at west parking lot.	Existing pipe rail gates do not have reflective tape and can be difficult to see at night.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Kenworthy	NA
OL-SI-28	Site	Running Track and Field Event Upgrade	Replace cinder track, long jump and high jump areas with rubberized surface.	Existing cinder track is not wide enough. Cinder track and field event areas do not provide a good running surface, is a source of dust that is objectionable to users of the track and adjacent football / soccer field, requires considerable maintenance and can be used only part of the school year. A rubberized track and field event areas would provide a better surface that could be used all year and cost less to maintain.	Enhancement	2	NA	DA Hogan	Costs included in OL-SI-37.	R. Swaim	NA
OL-SI-32	Site	Street Improvements	Provide sidewalk and street improvements at H Street.	Existing street is not built to City standards and does not have a sidewalk. Students and pedestrians walk on gravel at road shoulder.	Enhancement	NA	NA	No Cost Estimate	Sidewalk improvements being completed by City of Auburn. Street improvements will be addressed by City as part of an LID.	L. Cowan	NA
OL-SI-35	Site	Underground Storage Tank Removal	Remove underground fuel oil storage tank that serves heating system.	Existing underground tank is not used and presents environmental risk.	Deficiency	NA	NA	No Cost Estimate	Underground tank has been removed.	R. Thomas	NA
OL-EX-02	Exterior	Exterior Painting	Paint areas of exterior wood.	Existing paint is in fair condition.	Enhancement	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Thomas	NA

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
OL-EX-03	Exterior	Exterior Wall Surface Upgrade	Replace or cover areas of exposed wood at building exterior with pre-finished metal.	Large areas of exposed wood at exterior walls are costly to maintain.	Operating Cost & Enhancement	NA	NA	No Cost Estimate	Not cost effective because of the variations and extensive areas where wood structure, trim and siding is present.	R. Thomas	NA
OL-EQ-07	Equipment	Instructional Equipment Upgrade	Replace 2 laser printers in classrooms and TV/DVD/VCR in library.	Equipment past life expectancy. Laser printers over 8 years old and TV/DVD/VCR over 10 years old.	Deficiency	NA	NA	No Cost Estimate	Obtained with Technology Levy funds.	R. Luke	NA
OL-EQ-08	Equipment	Library Equipment Upgrade	Replace TV / DVD / VCR in library.	TV / DVD / VCR is over 10 years old and exceeds life expectancy.	Deficiency	NA	NA	No Cost Estimate	Obtained with Technology Levy funds.	R. Luke	NA
OL-EQ-09	Equipment	Locker Repair	Repair or replace inoperable or damaged hardware at student lockers.	A limited number of lockers have damaged or inoperable hardware. Locker doors and frames are in fair condition.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Kenworthy	NA
OL-EQ-10	Equipment	Office Equipment Upgrade	Replace small copy machine and 3 laser printers in offices and workroom.	Equipment past life expectancy. Copier over 8 years old and laser printers past 10 years old.	Deficiency	NA	NA	No Cost Estimate	Obtained as leased equipment or with Technology Levy funds.	R. Luke	NA
OL-ME-14	Mechanical	Natural Gas Underground Pipe Upgrade	Replace underground secondary natural gas piping between buildings with new separate service lines and a meter at each building.	Existing underground secondary gas lines do not meet current regulations and require maintenance and inspections by district. New direct service lines and meter to each building will provide underground gas lines that PSE is responsible to maintain.	Deficiency	1	NA	Quantum Cost Estimate	Costs included in OL-SI-38.	R. Thomas	NA
OL-EL-14	Electrical	Internet Connection Upgrade	Provide an additional T-1 line for internet connection.	An additional T-1 line is needed to meet district's minimum standard for internet connection.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	R. Luke N. Vien	NA
OL-MD-01	Modernization	Assembly Storage Addition	Provide assembly storage room adjacent to commons.	Building does not have a dedicated storage room for assembly items that are needed in the commons.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in OL-MD-43.	P. Douglas	NA
OL-MD-02	Modernization	Athletic Storage Expansion	Provide additional space with cabinets and shelving for storage of baseball team equipment.	Existing athletic storage room is larger than district's recommended standard but additional space with associated cabinets are desired for storage of baseball team equipment.	Enhancement	2	NA	BLRB Cost Estimate	Costs included in OL-MD-10.	P. Douglas	NA
OL-MD-03	Modernization	Auxiliary Gym Modernization	Expand and improve auxiliary gym.	Existing auxiliary gym is undersized by 700 SF and 20% smaller than school district's minimum standard. It does not have scoreboards, divider curtain, volleyball inserts, and all required basketball backboards. Existing floor is vinyl composition tile rather than wood. The lighting level appears low. The ventilation system is inadequate and results in poor air circulation and odors. Wall pads are needed to accommodate use of gym for wrestling and gymnastics. The small size and lack of equipment inhibits use of existing auxiliary gym for PE classes and athletics.	Health / Safety & Deficiency	2	NA	BLRB Cost Estimate	Costs included in OL-MD-43.	R. Swaim P. Douglas	NA
OL-MD-06	Modernization	Commons Modernization	Provide larger commons and locate at front entry to school and adjacent to stage and exterior courtyard.	Existing commons is undersized by 300 SF and 9% smaller than district's minimum standard. Existing location is not adjacent to a stage and does not have convenient access to front entry and exterior courtyard.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in OL-MD-43.	B. Kenworthy	NA
OL-MD-08	Modernization	Drama Storage Addition	Provide drama storage room.	Building does not have a storage room for drama equipment and supplies.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in OL-MD-43.	P. Douglas	NA

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# OLYMPIC MIDDLE SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
OL-MD-09	Modernization	Emergency Storage Room Addition	Provide space within building for storage of emergency supplies.	Building does not have space for storage of emergency supplies. Existing supplies kept in exterior storage container.	Enhancement	2	NA	BLRB Cost Estimate	Costs included in OL-MD-10.	P. Douglas B. Kenworthy	NA
OL-MD-11	Modernization	Football Equipment Storage Modernization	Provide dedicated storage room for football equipment.	Existing football equipment storage is combined with the drying room. This interferes with access to football equipment and creates odors in the equipment storage room.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in OL-MD-10.	B. Kenworthy	NA
OL-MD-12	Modernization	Furniture Storage Room Addition	Provide furniture storage room.	Building does not have dedicated room for furniture storage. Currently, extra furniture is stored with different areas along with building supplies and equipment.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in OL-MD-43.	P. Douglas B. Kenworthy	NA
OL-MD-13	Modernization	Gym Storage Expansion	Provide additional storage space for gym equipment and assembly items.	Existing gym equipment storage room is undersized by 300 SF and is 50% smaller than the district's minimum standard. Building does not have a room for storage of assembly items used in the gym.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in OL-MD-43.	P. Douglas	NA
OL-MD-14	Modernization	Health Area Modernization	Modernize health room area to provide a larger nurse's office that is adjacent to the health room and has visibility between the nurses office and health room.	Existing nurses office is undersized by 20 SF and 20% smaller than the district's minimum standard. Nurses office is across hall from health room and does not have a direct connection or visual supervision.	Health / Safety & Deficiency	2	NA	BLRB Cost Estimate	Costs included in OL-MD-42.	P. Douglas	NA
OL-MD-17	Modernization	Itinerant Office Addition	Provide a dedicated office for shared use by psychologist and speech therapist itinerant staff.	OT / PT staff at this school needs full time use of OT / PT space so it is not available for shared use by other itinerant staff. This requires an additional office for full-time shared use by psychologist and speech therapist.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in OL-MD-42.	B. Kenworthy	NA
OL-MD-19	Modernization	Kitchenette Addition	Provide kitchenette adjacent to commons.	School does not have a kitchenette for adjacent to commons for event use when kitchen is closed.	Enhancement	2	NA	BLRB Cost Estimate	Costs included in OL-MD-43.	B. Kenworthy	NA
OL-MD-20	Modernization	Kitchen and Serving Area Modernization	Modernize kitchen and serving area, add a third serving line and associated food service equipment, add and replace kitchen equipment, provide a custodial closet, improve flooring, and improve walk-in cooler and freezer.	Existing serving area is open to the commons and has two serving lines. A third serving line with associated food service equipment is needed to reduce the amount of time students wait in line to be served. Serving area should be separated from commons for security and control and have three check out lines. Floor is in poor condition. Kitchen needs a custodial room with mop sink along with combi oven, tilting kettle and three-compartment sink. Existing steamer is in poor condition and should be replaced. Existing walk-in freezer and cooler are undersized and access to freezer requires walking through cooler. Cooler and freezer should be larger and have separate doors that open into kitchen area.	Health / Safety & Deficiency	2	NA	BLRB Cost Estimate	Costs included in OL-MD-43.	E. Boutin P. Douglas	NA
OL-MD-21	Modernization	Laundry Room Addition	Provide a laundry room.	A laundry room with shelving and ventilation system is desired. Currently, a washer and dryer are located in a storage room and does not have mechanical ventilation.	Enhancement	2	NA	BLRB Cost Estimate	Costs included in OL-MD-43.	P. Douglas	NA
OL-MD-22	Modernization	Library Natural Daylight Upgrade	Provide additional daylight at Library.	Existing windows at Library are small and provide limited natural light.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency.	P. Douglas	NA



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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
OL-MD-25	Modernization	Maintenance Storage Modernization	Provide dedicated space for storage of maintenance supplies and equipment.	Existing maintenance supplies and equipment are stored in maintenance office, boiler room and mezzanine that requires by a stairway. This storage arrangement is inconvenient and conflicts with other uses occurring in these spaces.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in OL-MD-43.	B. Kenworthy	NA
OL-MD-27	Modernization	OT / PT Room Addition	Provide a dedicated space for OT / PT.	OT / PT staff currently uses an undersized spare office that does not meet district standards for OT / PT. A dedicated office is needed.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in OL-MD-33 and 42.	P. Douglas	NA
OL-MD-29	Modernization	Public Restroom Addition	Provide public restrooms near the main office.	Public restrooms are not provided in building except near the gym, which are not usually open. This causes visitors to use staff and student restrooms. The gym restrooms are suitable for use during events in the gym but not during school hours because of their location and difficulty to supervise.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in OL-MD-42.	P. Douglas	NA
OL-MD-35	Modernization	Staff Restroom Additions	Provide additional staff restrooms.	School has only one men's and one women's staff restrooms. These restrooms are not centrally located and are not provided in each classroom wing.	Health / Safety & Deficiency	1	NA	BLRB Cost Estimate	Costs included in OL-MD-33 and 44.	P. Douglas	NA
OL-MD-37	Modernization	Stage Addition	Provide permanent stage connected to commons.	Permanent stage not present at school. Existing retractable stage in gym lacks adequate stage lighting, is difficult to operate, and does not provide an additional permanent area for drama classes.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in OL-MD-43.	P. Douglas	NA
OL-MD-39	Modernization	Teacher's Planning Office Addition	Provide three planning offices.	Planning offices needed as a work space for teachers who do not have dedicated classrooms.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in OL-MD-42.	B. Kenworthy	NA
OL-MD-40	Modernization	Vending Machine Alcove Addition	Provide a vending machine area within the building.	Existing vending machine area is located at the building exterior which creates maintenance and supervision problems.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in OL-MD-43.	B. Kenworthy	NA
OL-MD-41	Modernization	Visual Communications Classroom Addition	Provide a visual communications classroom.	School does not have a visual communications classroom.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in OL-MD-33 and 44.	B. Kenworthy	NA

# PROPOSED FACILITY IMPROVEMENTS

# RAINIER MIDDLE SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
RA-SI-01	Site	Accessible Parking Stall Additions	Change 3 standard parking stalls to one handicap stall and two van accessible stalls. Add signage designating handicap parking stalls at these three locations.	Three additional handicap parking stalls and associated signage required to comply with ADA.	Deficiency	2	\$3,788	BLRB Cost Estimate		ADA Consultant	A
RA-SI-12	Site	Cinder Track Upgrade	Add cinders and regrade running track.	Existing track surface is uneven with areas of settlement and ponding water.	Deficiency	3	\$128,496	BLRB Cost Estimate		R. Thomas	A
RA-SI-19 ECM-W2	Site	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station.	Connection to the EMS and a weather station will reduce water consumption and utility costs.	Operating Cost	1	\$6,428	Quantum Cost Estimate	Estimated 3-year payback period.	Energy Consultant R. Thomas	A
RA-SI-20	Site	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars, directional arrows, and bus stall numbers. Add thermo-plastic directional arrows at west parking lot. Provide painting lines at bus stalls and courtyard basketball courts. Restripe pickleball court lines.	Thermo-plastic markings needed at critical areas that quickly wear away. Painted lines needed at bus stalls and outdoor basketball courts. Existing lines pickleball courts are faded and difficult to see.	Deficiency	1	\$2,285	BLRB Cost Estimate		B. Talbert B. Kenworthy	A
RA-SI-26	Site	Traffic Control Sign Additions	Provide traffic control signs at west parking lot.	Additional signage needed at west parking lot to control parking.	Deficiency	1	\$1,467	BLRB Cost Estimate		B. Talbert	A
RA-SI-28	Site	Baseball & Softball Infield Clayblock Additions	Provide clay block at baseball and softball field pitcher's mound and homeplate.	Clayblock at pitcher's mound and homeplate provides a better playing surface and is easier to maintain.	Deficiency	2	\$20,829	ASD Cost Estimate		R. Thomas	A
RA-EX-01	Exterior	Automatic Door Opener Addition - Main Entrance	Provide automatic door opener at main entrance.	Building does not have automatic door opener at main entry doors.	Enhancement	1	\$13,440	BLRB Cost Estimate		J. Trauffer M. Newman	A
RA-EX-03	Exterior	Exterior Door Hardware Upgrade	Replace exterior door lock cylinders with Primus cylinders.	Primus lock cylinders will improve building security.	Enhancement	1	\$9,238	BLRB Cost Estimate		R. Thomas	A
RA-EX-06	Exterior	Masonry Water Repellent Application	Provide application of water repellent at exterior masonry.	Existing masonry lacks a water repellent coating to protect against moisture penetration.	Deficiency	2	\$112,780	BLRB Cost Estimate		R. Thomas	A
RA-EX-07	Exterior	Roof Replacement - Shingles	Replace composition shingles.	Existing composition shingles in poor condition.	Deficiency	1	\$1,723,455	BLRB Cost Estimate	See RA-EX-08. Metal roof recommended over shingle roof for greater longevity and reduced maintenance costs.	R. Thomas	A
RA-EX-09	Exterior	Roof Fall Arrest Anchors Addition	Provide fall arrest system at roof.	Pitched roofs do not have fall arrest safety system.	Health / Safety	2	\$294,656	BLRB Cost Estimate		R. Thomas	A
RA-IN-02	Interior	Carpet Replacement	Replace carpet in main office area, computer classrooms and library.	Existing carpet in main office, computer classrooms and library is worn, past life expectancy and does not meet district's minimum standard for quality.	Deficiency	1	\$165,937	BLRB Cost Estimate		R. Thomas B. Kenworthy	A
RA-IN-03	Interior	Classroom Tackboard Additions	Provide additional tackboards in classrooms.	Existing tackboard area in classrooms is less than the district's minimum standard.	Deficiency	1	\$3,910	BLRB Cost Estimate		R. Thomas B. Kenworthy	A

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
RA-IN-05	Interior	Coiling Door Modifications	Connect coiling fire doors at kitchen and industrial technology to local smoke detector for activation.	Existing coiling fire doors are connected to fire alarm system and shut during all fire alarms and power outages. When this occurs, the doors must be manually retracted and reset which requires a considerable amount of work. Connection of the coiling doors to a local smoke alarm will eliminate activation of the doors during false alarms and power outages.	Operating Cost & Enhancement	1	\$5,092	Quantum Cost Estimate		R. Thomas	A
RA-IN-07	Interior	Door Hardware Upgrade	Replace 28 door handles with ADA compliant lever handles.	Existing door handles at 28 locations are not ADA compliant.	Enhancement	4	\$15,054	BLRB Cost Estimate		ADA Consultant	A
RA-EQ-01	Equipment	Classroom Furniture Addition	Provide additional classroom furniture for students.	School does not have enough desks, chairs and tables for students in each classroom.	Deficiency	1	\$19,298	ASD Cost Estimate		B. Talbert	A
RA-EQ-02	Equipment	Computer Furniture Upgrade	Provide furniture designed for computer and other technology equipment use.	Existing furniture used for computer and technology equipment is lacking and in many cases not designed for this use.	Deficiency	1	\$6,385	ASD Cost Estimate		R. Luke	A
RA-EQ-04	Equipment	Foods Classroom Equipment Replacement	Replace range / ovens and microwave ovens at student stations in foods classroom.	Existing cooking equipment sometimes breaks down and is past life expectancy.	Enhancement	1	\$24,926	BLRB Cost Estimate		B. Talbert	A
RA-EQ-05	Equipment	Gym Volleyball Post Addition	Provide power volleyball posts and nets for use at main court in main gym.	Power volleyball posts and nets needed for competition volleyball games.	Deficiency	2	\$3,865	ASD Cost Estimate		B. Talbert	A
RA-EQ-08	Equipment	Kitchen Equipment Upgrade	Provide combi oven and replace convection ovens and dishwasher in kitchen.	Combi oven need for food service program. Existing convection ovens and dishwasher are past life expectancy.	Deficiency	1	\$106,519	BLRB Cost Estimate		E. Boutin B. Talbert	A
RA-ME-01 ECM-M12	Mechanical	Art Room Storage Return Air Addition	Provide a return air grille at the art room storage area.	Installation of a return air grille will reduce overheating caused by transformer located in room and will reduce energy costs.	Operating Cost	1	\$1,285	Quantum Cost Estimate	Estimated 3-year payback period.	Energy Consultant	A
RA-ME-02 ECM-M2	Mechanical	Automatic Controls Upgrade	Upgrade control system front end and software to the district standard - BacNet compatible, web based.	BACnet controls will reduce EMS maintenance and service costs.	Operating Cost	2	\$38,570	Quantum Cost Estimate	Estimated 8-year payback period.	R. Thomas Energy Consultant	A
RA-ME-03 ECM-M9	Mechanical	Boiler and Hot Water Heater Demand Limiting Addition	Provide controls at the heating boilers and domestic water heaters to take over step control of the heating elements with the EMS to reduce electrical demand charges.	Demand limiting controls will reduce energy costs.	Operating Cost	1	\$10,285	Quantum Cost Estimate	Estimated 5-year payback period.	Energy Consultant	A
RA-ME-04 ECM-M3	Mechanical	CO2 Control Addition	Expand control system to add CO2 control to the main air handling systems in commons, gym and library.	CO2 control will regulate the amount of outside air being delivered to the occupied spaces based on CO2 levels and reduce energy usage.	Operating Cost	1	\$15,428	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant	A
RA-ME-05 ECM-M10	Mechanical	Electric Hot Water Heater Replacement	Replace electric hot water heaters with heat pump water heaters	Water heater replacement will reduce energy costs.	Operating Cost	2	\$102,850	Quantum Cost Estimate	Estimated 7-year payback period.	Energy Consultant	A
RA-ME-07 ECM-M5	Mechanical	Gym Variable Speed Drive Addition	Provide a variable speed drive on the gym air handling units to reduce airflow during periods of low or no occupancy, as determined by the CO2 and occupancy sensors.	Variable speed drives will reduce energy costs.	Operating Cost	1	\$19,285	Quantum Cost Estimate	Estimated 5-year payback period.	Energy Consultant	A
RA-ME-08 ECM-M7	Mechanical	Heat Pump Replacement - Boilers	Replace air-to-water heat pumps with high efficiency boilers.	Existing heat pumps are not reliable, are expensive to maintain, and do not provide comfortable room temperatures on a consistent basis.	Deficiency	1	\$578,532	Quantum Cost Estimate		R. Thomas B. Talbert M. Newman	A

# PROPOSED FACILITY IMPROVEMENTS

# RAINIER MIDDLE SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
RA-ME-10	Mechanical	Heating System Control Valve Replacement	Replace heating system control valves.	Existing valves leak and are not reliable.	Deficiency	1	\$62,225	Quantum Cost Estimate		R. Thomas	A
RA-ME-11 ECM-M1	Mechanical	HVAC Control System Commissioning	Commission the HVAC control system to verify proper operation.	Commissioning will improve system operation and efficiency.	Operating Cost	1	\$64,282	Quantum Cost Estimate	Estimated 2-year payback period.	Energy Consultant R. Thomas	A
RA-ME-13 ECM-M4	Mechanical	Occupancy Sensor Temperature Control Addition	Expand control system to add occupancy sensor temperature control to the commons, drama area, gym, library, locker rooms, and music rooms.	Occupancy sensor control will setback the space temperature and airflow when rooms are unoccupied and will reduce energy costs.	Operating Cost	1	\$20,570	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant	A
RA-ME-14 ECM-M11	Mechanical	Overhead Door Switch Addition	Provide control switch at overhead door in industrial technology lab that disables heat when door is open.	Door switch will reduce energy costs.	Operating Cost	1	\$6,428	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant	A
RA-ME-15 ECM-W1	Mechanical	Plumbing Fixture Retrofit Review	Review water saving opportunities including retrofit or replacement of sinks, urinals and water closets.	A reduction in water use will reduce utility costs.	Operating Cost	1	\$89,995	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant	A
RA-ME-16	Mechanical	Refrigerant Piping Modification	Modify refrigerant piping serving walk-in cooler and freezer.	Existing refrigerant piping, which is located in walls and above ceilings, is causing condensation within these spaces.	Deficiency	1	\$40,627	Quantum Cost Estimate		R. Thomas	A
RA-ME-17	Mechanical	Telecommunication Rooms Cooling and Ventilation Addition	Provide independent mechanical ventilation and cooling system in existing MC room and HC rooms.	Existing MC and HC rooms lack independent HVAC systems needed to keep data equipment from overheating and damaging equipment.	Deficiency	3	\$32,655	Quantum Cost Estimate		N. Vein B. Kenworthy	A
RA-ME-18 ECM-M6	Mechanical	VAV Unit Variable Speed Drive Addition	Provide a variable speed drives and replace inlet vanes on all VAV air handling equipment serving 300, 400, and 600 units along with office and drama areas.	Variable speed drives will reduce energy costs.	Operating Cost	1	\$115,707	Quantum Cost Estimate	Estimated 5-year payback period.	Energy Consultant	A
RA-EL-10 ECM-L2	Electrical	Exit Sign Replacement	Replace incandescent and compact fluorescent exit signs with new LED exit signs.	Exit light replacement will reduce energy costs.	Operating Cost	1	\$19,285	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant	A
RA-EL-12 ECM-L3	Electrical	Exterior Lighting Upgrade	Replace HID fixtures on the exterior of the building with compact fluorescent. Retrofit parking lot lights with pulse start metal halide or inductive lighting.	HID and parking lot light fixture replacement will reduce energy costs.	Operating Cost	2	\$25,713	Quantum Cost Estimate	Estimated 10-year payback period.	Energy Consultant	A
RA-EL-13	Electrical	Fire Alarm Smoke Detector Replacement	Replace fire alarm smoke detectors.	Existing smoke detectors are obsolete and replacement parts are not readily available.	Health / Safety & Deficiency	1	\$239,787	Quantum Cost Estimate		R. Thomas	A
RA-EL-14	Electrical	Gym and Commons Sound System Upgrade	Replace sound systems in main gym and commons.	Existing sound system in gym and commons has poor sound quality.	Deficiency	3	\$82,023	Quantum Cost Estimate		B. Talbert R. Swaim	A
RA-EL-15 ECM-L4	Electrical	HID Lighting Replacement	Replace HID fixtures in the gym and commons with new fixtures using T-8 or T-5 technology.	Light fixture replacement will reduce energy costs.	Operating Cost	2	\$25,713	Quantum Cost Estimate	Estimated 7-year payback period.	Energy Consultant	A
RA-EL-16	Electrical	Industrial Technology Data and Electrical Outlet Addition	Provide 5 data and electrical outlets in industrial technology classroom for student computers.	Existing classroom does not have data and electrical outlets for student computers as required by districts minimum standards for specialty classrooms.	Deficiency	1	\$12,857	Quantum Cost Estimate		B. Talbert	A
RA-EL-18 ECM-L1	Electrical	Interior Lighting Upgrade	Retrofit or replace T-12 fixtures, magnetic ballast and incandescent fixtures with T-8, electronic ballast and compact fluorescent technology.	Fixture replacement or retrofit will reduce energy costs.	Operating Cost	2	\$231,413	Quantum Cost Estimate	Estimated 6-year payback period.	Energy Consultant R. Thomas	A

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
RA-EL-21	Electrical	Library Data and Electrical Outlet Addition	Provide 30 data and electrical outlets in library for student computers.	Data and electrical outlets desired to allow a full class of 30 students to work at computers in library. Existing library does not have data outlets for student computer workstations.	Enhancement	1	\$77,138	Quantum Cost Estimate		R. Luke	A
RA-EL-22	Electrical	Library Search Station Electrical Outlet Addition	Provide 7 additional electrical outlets at search stations in library.	Existing library has one electrical outlet for 8 computerized search stations.	Deficiency	1	\$7,200	Quantum Cost Estimate		B. Kenworthy	A
RA-EL-23 ECM-L5	Electrical	Occupancy Sensor Lighting Control Addition	Provide occupancy sensor in areas with fluctuating occupancy to turn off lights when the spaces are unoccupied.	Occupancy sensors will reduce energy costs.	Operating Cost	2	\$25,713	Quantum Cost Estimate	Estimated 6-year payback period.	Energy Consultant	A
RA-MD-03	Modernization	Health Restroom Modernization	Provide larger and ADA compliant restroom at health room.	Existing restroom is undersized by 20 SF and 40% smaller than district's minimum standard, and is not ADA compliant.	Deficiency	2	\$18,144	BLRB Cost Estimate		ADA Consultant B. Kenworthy	A
RA-MD-05	Modernization	Kitchen Serving Area Improvement	Provide a third line for serving lunch.	Existing kitchen has two serving lines. A third serving line with associated food service equipment is needed to reduce the amount of time students wait in line to be served.	Enhancement	2	\$105,082	BLRB Cost Estimate		E. Boutin	A
RA-MD-17	Modernization	Staff Restroom / Storage Modernizations & Additions	Provide storage rooms for emergency supplies, furniture and records. Modernize and expand staff restrooms.	See Improvement Justifications for RA-MD-01, 02, 07 and 10.	Deficiency	1	\$101,096	BLRB Cost Estimate		B. Talbert ADA Consultant B. Kenworthy	A
RA-SI-04	Site	Baseball and Softball Field Drainage Improvements	Provide underdrain system at baseball and softball field infield and outfield areas.	Existing baseball and softball fields drain poorly and are saturated with water for much of the school year.	Enhancement	2	\$14,663	BLRB Cost Estimate		B. Talbert R. Swaim	B
RA-SI-05	Site	Baseball and Softball Dugout Roof Addition	Provide roof at baseball and softball field dugouts.	Roof desired to protect players and equipment from rain.	Enhancement	3	\$24,438	BLRB Cost Estimate		R. Swaim	B
RA-IN-06	Interior	Corridor Tackboard Additions	Provide additional tackboards in corridors.	Additional tackboards are desired in corridor for announcements and displays. Some areas of existing tackable wall surface in 100 and 600 units are difficult to use. Placement of additional tackboards in classroom units difficult because most wall areas covered with lockers.	Deficiency	1	\$14,663	BLRB Cost Estimate		B. Talbert R. Thomas B. Kenworthy	B
RA-EQ-06	Equipment	Gym Wall Padding Additions	Provide additional wall pads in auxiliary gym.	Additional wall pads desired to reduce potential for injuries especially during wrestling and gymnastics activities.	Health / Safety	1	\$25,668	BLRB Cost Estimate		B. Talbert R. Swaim	B
RA-ME-12	Mechanical	Natural Gas System Metering	Provide electronic meter for natural gas system connected to energy management system.	Electronic meter will allow remote monitoring of gas service and improve potential for reducing natural gas use.	Operating Cost	3	\$22,370	Quantum Cost Estimate		R. Thomas	B
RA-EL-09	Electrical	Electrical Service Metering	Provide electronic meter for electrical service connected to energy management system.	Electronic meter will allow remote monitoring of electrical service and improve potential for reducing electrical use.	Operating Cost	2	\$49,883	Quantum Cost Estimate		R. Thomas	B
RA-EL-20	Electrical	Intrusion Alarm Audible Signal Upgrade	Upgrade intrusion alarm system to provide audible alarm.	Use of audible alarm could reduce intrusions and false alarms.	Enhancement	3	\$102,337	Quantum Cost Estimate		M. Newman	B
RA-EL-25	Electrical	Surveillance Camera Addition	Provide surveillance camera system to monitor parking lots and areas around building.	Surveillance cameras could reduce vandalism and theft around building.	Enhancement	1	\$177,494	Quantum Cost Estimate		B. Talbert M. Newman R. Luke	B
RA-EL-26	Electrical	Telephone System Upgrade	Upgrade telephone system to provide voice mail.	Existing telephone system does not have voice mail feature and does not meet district's minimum standards.	Deficiency	2	\$485,709	Quantum Cost Estimate		R. Thomas	B

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RA-SI-14	Site	Exterior Bench Additions	Provide 8 additional exterior benches.	One additional exterior benches needed at front entry and 8 needed at student courtyard.	Deficiency	3	\$26,393	BLRB Cost Estimate		B. Talbert B. Kenworthy	B+
RA-SI-16	Site	Exterior Waste Receptacle Upgrade	Provide ornamental waste receptacle at front entry and waste receptacles with push door tops at other areas.	Existing exterior waste receptacles are galvanized cans and many do not have covers.	Enhancement	3	\$11,926	BLRB Cost Estimate		R. Thomas	B+
RA-SI-02	Site	ADA Site Improvements	Provide miscellaneous site improvements to comply non-mandatory ADA standards.	School was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous site areas, which do not significantly affect access to the building, could be improved to comply with current ADA standards. Site improvements needed to provide ADA required program access are identified separately.	Enhancement	2	\$87,914	BLRB Cost Estimate	Minor need and non-mandatory improvements.	ADA Consultant	C
RA-SI-06	Site	Baseball and Softball Infield Improvements	Add and regrade soil at baseball and softball infields. Add clay block soil amendment to baseball field's pitcher's mound and batter's box.	Existing soil at infields is uneven and clay block is needed at baseball field's pitcher's mound and batter's box to improve drainage.	Deficiency	2	\$152,505	BLRB Cost Estimate	Not cost effective. See RA-SI-28 for a portion of these improvements.	R. Thomas	C
RA-SI-08	Site	Baseball Field Netting Addition - NE Field	Provide ball netting at east side of northeast softball field.	Ball netting desired to reduce the number of foul balls from being hit and lost in wooded area beyond ball field fence.	Enhancement	4	\$69,280	BLRB Cost Estimate	Minor need.	B. Talbert R. Swaim R. Thomas	C
RA-SI-09	Site	Baseball Field Netting Addition - SE Field	Provide ball netting at south side of southwest baseball / softball field.	Ball netting desired to reduce the number of foul balls from being hit and lost in wooded area beyond ball field fence.	Enhancement	4	\$174,850	BLRB Cost Estimate	Minor need.	R. Thomas	C
RA-SI-10	Site	Batting Cage Addition	Provide batting cage for baseball and softball teams.	Batting cage desired to contain balls and reduce the number of balls lost over fence into woods during batting practice.	Enhancement	3	\$24,438	BLRB Cost Estimate	Minor need.	B. Talbert	C
RA-SI-15	Site	Exterior Bleacher Addition	Provide additional bleachers for 50 spectators at football / soccer field.	Existing bleachers at football / soccer field seat 100 spectators. Additional bleachers needed to accommodate district's minimum standard of 150.	Deficiency	4	\$43,988	BLRB Cost Estimate	Minor deficiency.	R. Swaim	C
RA-SI-17	Site	Football Field Synthetic Turf Upgrade	Replace grass turf football field with infill system synthetic turf field.	Existing field has uneven and worn grass turf with holes and an inadequate irrigation system. Field can be used only part of the school year and requires considerable maintenance and irrigation to provide a safe and durable playing surface. Synthetic turf would provide a better surface that could be used all year and cost less to maintain.	Operating Cost & Enhancement	1	NA	DA Hogan	Costs included in RA-SI-27.	M. Newman	C
RA-SI-18	Site	Football Field Scoreboard Addition	Provide electronic scoreboards at football field.	Electronic scoreboard desired for use during competition football games.	Enhancement	3	\$85,532	BLRB Cost Estimate	Minor need and not a school district standard.	B. Talbert R. Swaim	C
RA-SI-22	Site	Reader Board Addition	Provide reader board and associated electrical power and controls at street in front of school.	Reader board needed to display school information and is identified in the district's minimum standards.	Deficiency	3	\$61,095	BLRB Cost Estimate	Minor deficiency and can be paid for by fund-raising activities.	B. Talbert B. Kenworthy	C
RA-SI-23	Site	Running Track and Field Event Upgrade	Replace cinder track, long jump and high jump areas with rubberized surface.	Existing cinder track and field event areas do not provide a good running surface, is a source of dust that is objectionable to users of the track and adjacent football / soccer field, requires considerable maintenance and can be used only part of the school year. A rubberized track and field event areas would provide a better surface that could be used all year and cost less to maintain.	Enhancement	2	NA	DA Hogan	Costs included in RA-SI-27.	B. Talbert R. Swaim	C

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
RA-SI-27	Site	Synthetic Athletic Surface Additions - Football Field and Track	Replace grass turf football field with infill system synthetic turf field. Replace cinder track, long jump and high jump areas with rubberized surface.	See Improvement Justifications for RA-SI-17 and RA-SI-23. A synthetic turf football field and rubberized track and field event areas would provide better surfaces that could be used all year and cost less to maintain. Constructing these improvements at the same time will cost less than building them separately because a combined underdrain system could be used.	Enhancement	2	\$3,167,535	DA Hogan		R. Swaim M. Newman	C
RA-EX-02	Exterior	Automatic Door Opener Addition - Secondary Entrances	Provide automatic door opener at 5 secondary entrances.	Automatic door openers desired at entry doors from staff parking lot, student courtyard and bus loading area.	Enhancement	2	\$67,203	BLRB Cost Estimate	Minor need.	B. Talbert	C
RA-EX-08	Exterior	Roof Replacement - Metal	Replace composition shingle roof with metal roofing.	Existing composition shingle roof is in poor condition Metal roof will reduce long-term maintenance costs.	Enhancement	1	\$3,724,885	BLRB Cost Estimate		R. Thomas	C
RA-IN-01	Interior	ADA Building Improvements	Provide miscellaneous building improvements to comply non-mandatory ADA standards.	School was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous building areas, which do not significantly affect access within the building, could be improved to comply with current ADA standards. Improvements needed to provide ADA required program access within the building are identified separately.	Enhancement	3	\$936,309	BLRB Cost Estimate	Minor need and non-mandatory improvements.	ADA Consultant	C
RA-IN-04	Interior	Classroom Wainscot Addition	Provide protective wainscot at classroom exterior walls.	Existing sheet rock walls in classrooms are susceptible to and damaged in areas from normal wear and tear. Exterior walls are most vulnerable because they have the greatest exposure to student's chairs. Other walls in rooms usually have computers, teacher's desk or whiteboards. Wainscot installation will reduce damage and maintenance costs.	Enhancement	3	\$164,953	BLRB Cost Estimate		R. Thomas	C
RA-EQ-03	Equipment	Fiber Optic Connection Addition	Provide data communications equipment to accommodate installation of a leased fiber optic circuit.	Equipment needed when school upgrades its internet connection with a fiber optic circuit leased from Qwest.	Enhancement	1	\$11,410	ASD Cost Estimate	Minor need.	N. Vein	C
RA-EQ-11	Equipment	Wrestling Mat Holder Addition	Provide mat holders and associated electrical power and control in auxiliary gym to hang wrestling mats from ceiling.	Mat holders desired to allow off-season ceiling storage of wrestling mats to free up storage space in PE equipment room.	Enhancement	2	\$43,126	BLRB Cost Estimate	Minor need.	R. Swaim	C
RA-ME-06	Mechanical	Fire Sprinkler System Bracing	Provide additional seismic bracing to existing fire sprinkler system in compliance with FM Global standards.	Additional bracing will reduce risk of broken fire sprinkler lines during an earthquake.	Enhancement	3	\$205,700	Quantum Cost Estimate	Minor need and not cost effective.	M. Newman	C
RA-ME-09 ECM-M8	Mechanical	Heat Pump Replacement - Ground Source Heat Pumps	Replace heat pumps with a new ground source heat pump system.	Existing heat pumps are not reliable, are expensive to maintain, and do not provide comfortable room temperatures on a consistent basis.	Operating Cost	3	\$1,285,625	Quantum Cost Estimate	Not cost effective because of estimated 25-year payback period.	Energy Consultant	C
RA-ME-19	Mechanical	Water Quality Improvements	Replace plumbing at sinks in kitchen (3) and foods classroom (8). Replace one drinking fountain.	Water quality tests at some sinks in kitchen and foods classroom, and one drinking fountain exceeded EPA water quality standards for lead or copper.	Health / Safety	1	\$30,726	Quantum Cost Estimate	Not needed. Further testing revealed water quality standards being met.	B. Kenworthy	C
RA-EL-01	Electrical	Art Room Lighting Addition	Provide track lights in art classroom.	Track lighting desired for accent lighting as identified in district's recommended standards.	Enhancement	4	\$5,658	Quantum Cost Estimate	Minor need.	B. Talbert	C

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RA-EL-03	Electrical	Ceiling Mounted LCD Projector Addition	Provide ceiling mounted LCD projector and associated AV and power outlets in each classroom with connection to teacher's work station.	Ceiling mounted projectors desired for ease of use, to reduce theft, and to protect equipment and cables from damage.	Enhancement	2	\$755,176	Quantum Cost Estimate	Not cost effective.	R. Luke R. Thomas M. Newman B. Talbert	C
RA-EL-05	Electrical	Computer Classroom Master Switch Addition	Provide master shut-off switch for student computers and monitors.	Master shut-off switch needed to allow instructor to control students operational access to computers and to allow computers and monitors to be easily shut off at end of school day.	Deficiency	3	\$6,300	Quantum Cost Estimate	Minor deficiency.	B. Talbert	C
RA-EL-06	Electrical	Data Communications Equipment Upgrade	Upgrade data communications equipment filter, router, switch, traffic shaping and connectivity speed.	Existing filter, router, switch, traffic shaping and connectivity speed do not meet district's minimum standards.	Deficiency	1	\$185,222	ASD Cost Estimate	Minor deficiency.	N. Vien	C
RA-EL-07	Electrical	Data Outlet Addition - Teacher's Work Station	Provide data outlets for computers and AV equipment at teacher's work station in each classroom.	Classrooms do not have AV outlets at teacher's work station and do not have floor box with data outlets at front of classroom.	Enhancement	1	\$407,286	Quantum Cost Estimate	Not cost effective. See RA-EQ-12 for an alternate approach using wireless work station.	R. Luke M. Newman	C
RA-EL-11	Electrical	Exterior Lighting Level Improvements	Provide additional illumination at bus area, delivery area, parking lots and pathways.	Existing exterior lighting at exterior areas lacks adequate illumination levels and is below district's minimum standards.	Health / Safety & Deficiency	3	\$302,894	Quantum Cost Estimate	Minor deficiency. See RA-EL-12 for a portion of improvements.	B. Kenworthy M. Newman	C
RA-EL-17	Electrical	Interior Lighting Level Improvements	Provide additional illumination at classrooms, corridors, emergency lighting, kitchen, library, restrooms and support spaces.	Existing lighting at interior areas lacks adequate illumination levels and is below the district's minimum standards.	Health / Safety & Deficiency	1	\$257,125	Quantum Cost Estimate	Minor deficiency. See RA-EL-18 for a portion of improvements.	B. Kenworthy	C
RA-MD-06	Modernization	Laundry Room Addition	Provide a laundry room with shelving and a ventilation system.	A laundry room with shelving and ventilation system could be used for washing uniforms.	Enhancement	3	\$8,651	BLRB Cost Estimate	Minor need.	B. Talbert	C
RA-MD-08	Modernization	Special Education Restroom Modernization	Provide larger and ADA compliant restroom at special education classrooms 403 and 404.	Existing restrooms are undersized by 12 SF and 24% smaller than district's minimum standard, and are not ADA compliant.	Deficiency	1	\$75,149	BLRB Cost Estimate	Minor deficiency.	ADA Consultant B. Kenworthy	C
RA-MD-11	Modernization	Staff Telephone Room Expansion	Expand one of the staff telephone rooms.	Existing staff telephone rooms are each undersized by 23 SF and is 57% smaller than district's minimum standard, and are not ADA compliant.	Deficiency	3	\$20,528	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
RA-MD-12	Modernization	Student Restroom Improvements	Modify student restrooms to be ADA compliant.	Existing student restrooms are not fully ADA compliant.	Deficiency	3	\$134,011	BLRB Cost Estimate	Minor deficiency because student restrooms are accessible by the disabled.	ADA Consultant B. Kenworthy	C
RA-MD-14	Modernization	Teaching Station Window Additions	Provide exterior windows at auxiliary gym, main gym, and band and technology classrooms.	Existing rooms do not have exterior windows and exposure to daylight.	Enhancement	3	\$61,494	BLRB Cost Estimate	Minor need.	B. Talbert B. Kenworthy	C
RA-SI-03	Site	Baseball and Softball Bullpen Additions	Provide chainlink bullpens enclosures at baseball and softball fields.	Fenced bullpens desired to allow pitching practice to occur within a confined area close to the field.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency and not a school district standard.	R. Thomas	NA
RA-SI-07	Site	Baseball and Softball Field Scoreboard Additions	Provide electronic scoreboards at baseball and softball fields.	Electronic scoreboards desired for use during competition baseball and softball games.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency and not a school district standard.	B. Talbert R. Swaim	NA
RA-SI-11	Site	Bicycle Rack Addition	Provide additional bike racks.	Existing bike rack will accommodate 10 bikes and district's minimum standard identifies space for 24 bikes.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency. Principal reports existing bike racks adequate.	B. Talbert	NA



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RA-SI-13	Site	Exterior Basketball Hoop Addition	Provide an additional exterior basketball hoop at student courtyard area.	Existing student courtyard area has 3 basketball hoops and district's minimum standards identify 4 hoops.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency. Principal reports existing hoops are adequate.	B. Talbert B. Kenworthy	NA
RA-SI-21	Site	Pipe Rail Gate Improvement	Provide reflective tape on pipe rail vehicle gates.	Existing pipe rail gates do not have reflective tape and can be difficult to see at night.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Kenworthy	NA
RA-SI-24	Site	Site Sign Upgrade	Modify or replace site sign to provide school name and address.	Existing site sign does not include school address.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency.	B. Talbert B. Kenworthy	NA
RA-SI-25	Site	Student Pick-Up / Drop-Off Expansion	Provide larger area for student drop off and pick up.	Existing student drop off area will accommodate 14 vehicles and district's minimum standard identifies 18 vehicles.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency. North parking lot has extra capacity that will accommodate student pick up and drop off.	B. Talbert B. Kenworthy	NA
RA-EX-04	Exterior	Exterior Painting	Paint areas of exterior wood.	Existing paint is in good condition.	Enhancement	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Thomas	NA
RA-EX-05	Exterior	Exterior Window Upgrade	Replace dual-glazed thermal pane windows with dual-glazed windows with integral blinds.	Integral blinds will reduce damage to and maintenance of window blinds.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency and not cost effective.	R. Thomas	NA
RA-IN-08	Interior	Interior Painting	Paint building interior.	Existing paint is in fair condition.	Enhancement	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Thomas	NA
RA-IN-09	Interior	Interior Signage Replacement	Replace interior signs that are missing.	Some interior signs have been removed and not replaced.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Talbert	NA
RA-EQ-07	Equipment	Instructional Equipment Upgrade	Replace 6 laser printers used in classrooms.	Laser printers are over 8 years old and past life expectancy.	Deficiency	NA	NA	No Cost Estimate	Obtained with Technology Levy funds.	R. Luke	NA
RA-EQ-09	Equipment	Library Equipment Additions	Provide 30 computers for student use in library.	30 computers desired to set up computer lab in library.	Enhancement	NA	NA	No Cost Estimate	Obtained with Technology Levy funds.	R. Luke	NA
RA-EQ-10	Equipment	Office Equipment Upgrade	Replace and add printers for office staff use.	Existing printers are past life expectancy and additional printers needed to accommodate office staff.	Deficiency	NA	NA	No Cost Estimate	Obtained with Technology Levy funds.	R. Luke	NA
RA-EQ-12	Equipment	Wireless Computer Station Additions	Provide wireless computer equipment and workstation furniture for use at front of each classroom.	Wireless computer equipment will allow teachers to use ceiling mounted LCD projectors from work station and front of classroom in lieu of adding power and data outlets in floor at much higher cost.	Enhancement	1	NA	No Cost Estimate	Obtained with Technology Levy funds.	R. Luke M. Newman	NA
RA-EL-02	Electrical	Band Classroom Speaker Repair	Repair or replace non-functional sound system speakers in band room.	Existing speakers do not operate.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Talbert	NA
RA-E-04	Electrical	Classroom Electrical Outlet Additions	Provide an additional electrical outlet at the student computer area in each classrooms.	Classrooms have 5 electrical outlets for student use and 6 are required by districts minimum standards.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency.	B. Kenworthy	NA
RA-EL-08	Electrical	Data Outlet Addition - Classrooms	Provide one more data outlets in each classroom for student use.	Classrooms have 5 data outlets for student use and 6 are required by districts minimum standards.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency. Outlets can be added by district using splitter and existing data wiring.	B. Kenworthy	NA

# PROPOSED FACILITY IMPROVEMENTS

# RAINIER MIDDLE SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
RA-EL-19	Electrical	Internet Connection Upgrade	Provide an additional T-1 line for internet connection.	An additional T-1 line is needed to meet district's minimum standard for internet connection.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	R. Luke N. Vien	NA
RA-EL-24	Electrical	Stage Lighting Additions	Provide production -level stage lighting.	Production-level stage lighting desired for use during student theater productions.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency.	B. Talbert	NA
RA-MD-01	Modernization	Emergency Storage Room Addition	Provide space within building for storage of emergency supplies.	Building does not have space for storage of emergency supplies. Existing supplies kept in exterior storage container.	Enhancement	1	NA	BLRB Cost Estimate	Costs included in RA-MD-17.	B. Kenworthy	NA
RA-MD-02	Modernization	Furniture Storage Room Addition	Provide furniture storage room.	Building does not have dedicated room for furniture storage. Currently, extra furniture is stored with different areas along with building supplies and equipment.	Deficiency	4	NA	BLRB Cost Estimate	Costs included in RA-MD-17.	B. Kenworthy	NA
RA-MD-04	Modernization	Isolated Waiting Room Addition	Provide isolate waiting room adjacent to main office area.	Building does not have an isolated waiting room for students who are sent to the main office.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency.	B. Talbert	NA
RA-MD-07	Modernization	Record Storage Room Addition	Provide a storage room for student records in main office area.	Building does not have a dedicated storage room for student records.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in RA-MD-17.	B. Talbert	NA
RA-MD-09	Modernization	Staff Lounge Expansion	Provide larger staff lounge.	Existing staff lounge is undersized by 65 SF and 11% smaller than district's minimum standard.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency. Principal reports existing space is adequate.	B. Talbert B. Kenworthy	NA
RA-MD-10	Modernization	Staff Restroom Improvements	Modify staff restrooms to be ADA compliant.	Existing staff restrooms not fully compliant to ADA standards.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in RA-MD-17.	ADA Consultant B. Kenworthy	NA
RA-MD-13	Modernization	Teaching Station Skylight Additions	Provide skylight at orchestra classroom.	Existing room does not have exterior windows and exposure to daylight. Window addition not feasible because orchestra room is an interior space. Skylight addition difficult because of high roof above this classroom.	Enhancement	NA	NA	No Cost Estimate	Minor defect and not cost effective.	B. Talbert	NA
RA-MD-15	Modernization	Vending Machine Alcove Addition	Provide a vending machine area within the building.	Existing vending machines are located in corridors.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency.	B. Kenworthy	NA
RA-MD-16	Modernization	Walk-in Freezer Expansion	Provide larger walk-in freezer.	Existing freezer is undersized by 13 SF and 13% smaller than district's minimum standard.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency.	B. Kenworthy	NA

# PROPOSED FACILITY IMPROVEMENTS

# AUBURN HIGH SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AH-SI-11	Site	Curb Ramp Additions	Provide curb ramps at north entrance to greenhouse, east parking lot entry to building, east entry drive, and building entry at bus loading area.	Curb ramps needed for wheelchair access and required by ADA.	Deficiency	1	\$19,550	BLRB Cost Estimate		P. Harvey	A
AH-SI-14	Site	Disabled Parking Signage Additions	Provide disabled parking signs on posts at 12 handicap parking stalls.	Disabled parking signs not provided at 12 handicap parking stalls to clearly identify these stalls and to comply with ADA.	Deficiency	1	\$4,400	BLRB Cost Estimate		ADA Consultant	A
AH-SI-15	Site	Disabled Parking Stall Modification	Modify pavement striping at disabled parking stalls south of portable classrooms to provide aisle between disabled stalls.	Existing disabled parking stalls do not have an aisle serving both stalls to provide access and comply with ADA.	Deficiency	1	\$855	BLRB Cost Estimate		ADA Consultant	A
AH-SI-36	Site	Traffic Control Sign Upgrade	Provide larger, additional, and more prominently displayed traffic control signs at bus zone, staff parking, student parking, and delivery areas.	Existing traffic control signs are limited and difficult to easily see.	Deficiency	2	\$5,132	BLRB Cost Estimate		P. Harvey	A
AH-SI-44	Site	Water Service Backflow Prevention Additions	Provide backflow prevention devices at three water service meters.	Backflow prevention devices not in place at three water service locations and are needed to protect domestic water system from contamination.	Health / Safety	1	\$3,665	BLRB Cost Estimate		R. Thomas	A
AH-IN-02	Interior	ADA Signage Additions	Provided interior signage identifying spaces accessible for disabled at 7 rooms, 4 wheelchair accessible seats at theater, and at locations of assistive listening devices in theater.	Signage needed to clearly identify location of rooms and seats accessible to the disabled and to comply with ADA.	Deficiency	1	\$2,749	BLRB Cost Estimate		ADA Consultant	A
AH-IN-29	Interior	Theater Carpet Replacement	Replace carpet at theater orchestra pit and balcony areas.	Existing carpet in orchestra pit and balcony is 28 years old and unattractive.	Enhancement	1	\$47,959	BLRB Cost Estimate		P. Smith	A
AH-IN-30	Interior	Theater Disabled Seating Addition	Provide removable or folding arm rests and ADA compliant signage at 11 seats in theater.	Removable or folding arm rests needed at 1% of the seats in the theater for access by the disabled and signage needed to clearly identify location of these seats as required by ADA.	Deficiency	1	\$4,704	BLRB Cost Estimate		ADA Consultant	A
AH-IN-31	Interior	Theater Handrail Additions	Provide handrails at stairs at both sides of front seating area in theater.	Existing stairs serving main seating area are irregular. Hand rails needed to assist users especially when theater lights are dim for a performance.	Health / Safety	1	\$4,277	BLRB Cost Estimate		P. Smith	A
AH-ME-08 ECM-M24	Mechanical	Auto Shop Door Switch Addition	Provide switch connected to EMS at overhead exterior doors in auto shops to disable heating system when the doors are open.	Door switch will reduce energy costs.	Operating Cost	2	\$6,428	Quantum Cost Estimate	Estimated 6-year payback period.	Energy Consultant	A
AH-ME-17 ECM-M23	Mechanical	Compressor Control Addition	Provide EMS control of shop compressors to disable the compressors on weekends and holidays and include a manual override button.	EMS control of compressors will reduce energy costs.	Operating Cost	1	\$6,428	Quantum Cost Estimate	Estimated 5-year payback period.	Energy Consultant	A
AH-ME-18 ECM-M18	Mechanical	Damper Actuator Additions	Provide barometric relief dampers actuators to the relief vents at the theater.	Damper actuators at theater will reduce energy costs.	Operating Cost	1	\$6,428	Quantum Cost Estimate	Estimated 4-year payback period .	Energy Consultant	A
AH-ME-19 ECM-M17	Mechanical	Diffuser Additions	Provide additional diffusers to improve airflow from the two large heat pumps serving the theater and add a return air fan to the north unit.	Additional diffusers will improve comfort and reduce energy costs.	Operating Cost	2	\$38,570	Quantum Cost Estimate	Estimated 8-year payback period.	Energy Consultant	A

# PROPOSED FACILITY IMPROVEMENTS

# AUBURN HIGH SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AH-ME-44 ECM-M19	Mechanical	Occupancy Sensor Addition - Theater	Provide an occupancy sensor and relocate a thermostat for the rear stage area of the theater	Occupancy sensor will allow control of the electric baseboard heat via the EMS and reduce energy costs.	Operating Cost	1	\$11,570	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant	A
AH-ME-61	Mechanical	Waste Line Modifications	Modify waste lines serving foods classroom 127 sinks, theater orchestra pit 601 floor drain, and theater workroom 609 sink to connect to sewer system.	Existing waste lines at food classroom, orchestra pit and theater workroom are connected to storm drain system rather than sewer system. This causes sinks and floor drains to back up during heavy rains.	Health / Safety	1	\$22,370	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas P. Smith	A
AH-EL-13	Electrical	Data Outlet Additions - Theater	Provide 2 data outlets at stage, 2 at orchestra pit and 2 at balcony in theater. Locate adjacent to existing electrical outlets.	Data outlets desired in theater for use during programs and events.	Enhancement	1	\$9,257	Quantum Cost Estimate		P. Smith	A
AH-EL-35 ECM-L6	Electrical	Lighting Retrofit - Theater	Replace or retrofit theater walkway and seat lights to CFL or LED technology, retrofit can fixtures in theater entry to CFL, and investigate an alternate lighting system for house lights for illumination during non-performance periods.	Lighting system retrofit in theater will reduce energy costs.	Operating Cost	2	\$99,635	Quantum Cost Estimate	Estimated 7-year payback period.	Energy Consultant	A
AH-EL-48	Electrical	Theater Electric Pipe Batten Upgrade	Replace electrical cabling at 2 electric pipe battens in theater.	Existing cabling at the electric pipe battens in theater is 28 years old, worn and needs replacement.	Deficiency	1	\$8,743	Quantum Cost Estimate		P. Smith	A
AH-EL-50	Electrical	Theater Lighting Control Improvements	Modify lighting control to provide a separate circuit for seat lights.	A separate circuit for the aisle seats will allow seat lights to be controlled separately which will reduce lighting use, energy costs and bulb replacement.	Operating Cost	2	\$8,743	Quantum Cost Estimate		P. Smith	A
AH-EL-52	Electrical	Theater Pathway Lighting Addition	Provide additional pathway lighting in theater balcony at back wall and behind sound board.	Existing theater balcony lacks adequate pathway lighting at seats along back wall and at area behind sound board located in seating area in front of control booth.	Health / Safety & Deficiency	1	\$14,528	Quantum Cost Estimate		P. Smith	A
AH-EL-54	Electrical	Theater Speaker Upgrade	Modify speaker system in theater to replace single speaker cluster with new speakers at both sides of proscenium opening, replace side fill woofer speakers, and add balcony and lecture bay speakers.	Existing single speaker cluster located above center of proscenium opening causes sound system feed back and has marginal sound distribution. Existing woofer speakers are old and need replacement with higher quality speakers. Additional speakers needed at balcony and lecture bays to improve sound distribution in these areas.	Deficiency	2	\$32,912	Quantum Cost Estimate		P. Smith	A
AH-NW-01	New	New Special Education Transition Center - High School	Provide a 3,500 SF high school transition facility for 18 - 21 year old special education students on a fully developed 1-acre site that includes parking for 16 passenger vehicles and pick up / drop off area for 2 buses and 4 passenger vehicles.	Existing special education transition facility, currently located at Auburn High School, does not have adequate space and equipment to accommodate the program. Construction of a dedicated facility will meet the needs of the program and provide space for growth.	Deficiency	1	\$1,756,150	BLRB Cost Estimate	Location of facility at AH is beneficial but not required.	M. Newman J. Trauffer	A
AH-IN-26	Interior	Main Gym Floor Settlement Repair	Repair a 400 SF section of floor in main gym that has settled approximately 1".	A section of the floor at the northeast corner of main gym has settled and is lower than the surrounding floor area. This occurs at a secondary basketball court and affects basketball play at this court.	Deficiency	1	\$33,235	BLRB Cost Estimate	(Change rank to C if main gym building will be replaced.)	P. Harvey R. Swaim	A*

# PROPOSED FACILITY IMPROVEMENTS

# AUBURN HIGH SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AH-ME-35 ECM-M20	Mechanical	Heat Pump Replacement - Theater	Replace two small heat pumps serving the theater and increase their heat capacity.	Existing heat pumps serving theater do not have adequate capacity, frequently malfunction, are past life expectancy. Replacement with new units will reduce energy costs.	Operating Cost	2	\$179,988	Quantum Cost Estimate	Estimated 12-year payback period and not cost effective because of short-term life of facility.	Energy Consultant R. Thomas	A*
AH-MD-85.1	Modernization	Campus Modernization - Scenario #2C - Major Demolition, Site Expansion and Main St. Addition - 1800 Students	Modernize campus by demolishing all buildings except main gym area, theater area and auto shop. Provide minor modernization of main gym and theater areas. Provide minimal improvements at auto shop. Provide new building facing 4th St. NE to replace a portion of the demolished spaces for a permanent capacity of 1,800 student. Acquire adjacent property and expand site by 1.5 acres for a total site area of 21 acres. Provide site improvements to address current deficiencies.	Existing 300/400 unit, 500 unit and 1950-1979 infill areas are not cost effective to modernize because of structural condition, program deficiencies and facility component deficiencies. 1950 building is not cost effective to modernize because of program area and facility component deficiencies. 1979 buildings need modernization and should be demolished and replaced, except main gym and theater areas, to allow the spaces to be relocated to provide overall campus improvements needed to correct program deficiencies. New building facing Main St. NE should be added to replace spaces that are being demolished. Construction of new building facing Main St. NE will make it easier to phase construction work while school remains in use and may provide space for athletic field. Additional site area needed to address site area deficiency and site improvements needed to correct program and facility component deficiencies.	Health / Safety & Operating Cost & Deficiency	2	\$109,447,424	BLRB Cost Estimate	* Recommended for consideration.	P. Harvey M. Newman R. Swaim R. Thomas B. Kenworthy	A*
AH-MD-86	Modernization	Campus Modernization - Scenario #3 - School Replacement - 1800 Students	Build new 234,000 SF high school on 35 acres at a new location with permanent facilities with a capacity of 1,800 students. Demolish existing high school facility except main gym area, theater area, auto shop and south parking lots. Provide moderate modernization of main gym and theater areas. Provide minor improvements to auto shop. Add site improvements to provide exterior courtyard connection and improved access to main gym, theater and auto shop.	Existing site is 20 acres and not large enough to accommodate site features and buildings needed for a 1,500 to 1,800 student high school. State standards recommend a minimum of 28 acres and district standards recommend 35 acres. Because of undersized site, existing school does not have adequate parking or outdoor athletic and PE facilities. Replacement of buildings on the existing site would not correct deficiencies resulting from lack of property. A replacement school of 234,000 would accommodate 1,800 students. Replacement of school at another location, while maintaining main gym, theater and auto shop as district-shared facilities would allow the existing site to be available for other school district facilities.	Health / Safety & Operating Cost & Deficiency	3	\$147,970,412	BLRB Cost Estimate	* Recommended for consideration.	P. Harvey M. Newman R. Swaim R. Thomas B. Kenworthy	A*
AH-EQ-24	Equipment	Theater Seat Upgrade	Replace 1,100 theater seats with hard-plastic, upholstered seats.	Existing seats are 28 years old, worn and unattractive.	Deficiency	1	\$357,937	BLRB Cost Estimate		P. Smith	B
AH-ME-59 ECM-M25	Mechanical	Variable Speed Drive Addition - Gym 900	Provide a variable speed drive and shutoff dampers at the gym 900 air handling unit to reduce airflow during periods of low or no occupancy.	Variable speed drives at the gym 900 air handling unit will reduce energy costs.	Operating Cost	2	\$25,713	Quantum Cost Estimate	Estimated 6-year payback period and not cost effective because of short-term life of facility.	Energy Consultant	B
AH-SI-07	Site	Baseball Field Synthetic Turf Addition	Provide infill system synthetic turf at baseball field.	Existing grass turf baseball field can be used only part of the school year and requires considerable maintenance and irrigation to provide a safe and durable playing surface. Synthetic turf would provide a better surface that could be used all year and cost less to maintain.	Enhancement	2	\$2,260,327	DA Hogan		R. Swaim	B+

# PROPOSED FACILITY IMPROVEMENTS

# AUBURN HIGH SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AH-SI-01	Site	ADA Site Improvements	Provide miscellaneous site improvements to comply non-mandatory ADA standards.	School was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous site areas, which do not significantly affect access to the building, could be improved to comply with current ADA standards. Site improvements needed to provide ADA required program access are identified separately.	Enhancement	1	\$85,260	BLRB Cost Estimate	Minor deficiency and non-mandatory standards.	ADA Consultant	C
AH-SI-02	Site	Asphalt Parking Surface Upgrade	Provide asphalt overlay and restripe student and staff parking lots, access driveways and service / delivery areas.	Existing asphalt is 28 years old and deteriorated.	Deficiency	2	\$1,076,634	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas B. Kenworthy	C
AH-SI-03	Site	Asphalt Walkway Upgrade	Replace asphalt walkway surfaces with attractive and durable hard surface at areas west of 300 / 400 unit and east of 600 unit.	Existing asphalt walkways west of 300 / 400 unit and east of 600 unit are rough, worn, unattractive and create a stumbling hazard in areas.	Deficiency	1	\$117,300	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Smith	C
AH-SI-05	Site	Baseball Field Drainage Improvements	Provide underdrain system at baseball field infield and outfield areas.	Existing baseball field drains poorly in areas and is saturated with water for much of the school year. Existing underground drainage system is over 20 years old and no longer fully functions.	Enhancement	3	\$253,662	BLRB Cost Estimate	Minor need.	M. Newman R. Swaim	C
AH-SI-08	Site	Bicycle Rack Addition	Provide additional bike racks for 12 bikes.	Existing bike rack will accommodate 18 bikes and district's minimum standard identifies space for 30 bikes.	Deficiency	1	\$5,865	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
AH-SI-09	Site	Bus Area / Student Pick Up and Drop Off Upgrade	Provide bus parking and access area with 20 bus stalls on school property with efficient bus access and exiting and safe access by students. Provide on-site area for 20 to 30 vehicles to pick up and drop off students.	Existing bus parking area is undersized and with constricted access and exiting. The shortage of bus stalls requires some buses to park and load on 4th St. NE, at the kitchen delivery area, and off-site at Washington Elementary school. Buses that park on street displace parents who park on the street to pick up students and causes students to walk between buses to load, creating an unsafe situation when buses exit. Buses parking in the delivery area unsafely interferes with student foot traffic. Existing school does not have an area on-site for student pick up and drop-off. This causes students to be picked up and dropped off in the street which interferes with traffic and creates a potential security hazard.	Health / Safety & Deficiency	1	\$1,266,342	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	J. Denton P. Harvey	C
AH-SI-10	Site	Concrete Walkway Replacement	Replace concrete walkways located at south side of 300 / 400 unit.	Existing concrete is cracked, uneven and creates a potential stumbling hazard.	Deficiency	1	\$40,322	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas B. Kenworthy	C
AH-SI-12	Site	Curb Replacement	Replace sections of broken and damaged concrete curb at east parking lot.	Portions of existing curb are cracked, broken and displaced.	Deficiency	1	\$5,474	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas B. Kenworthy	C
AH-SI-16	Site	Dumpster Area Improvements	Provide dumpster areas that are screened from view with safe and direct vehicle access that is separated from student areas.	Existing dumpsters are not screened from view and are located in areas where there is student foot traffic and vehicle access is difficult. This creates an unattractive and potentially unsafe situation.	Health / Safety & Deficiency	1	\$134,310	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey B. Kenworthy	C
AH-SI-17	Site	Exterior Bench Additions	Provide 2 ribbon-metal exterior benches at front entry.	Exterior benches needed at front entry for students and visitors to use when waiting to be picked up.	Deficiency	2	\$5,865	BLRB Cost Estimate	Minor deficiency.	R. Thomas B. Kenworthy	C

# PROPOSED FACILITY IMPROVEMENTS

# AUBURN HIGH SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AH-SI-19 ECM-W3	Site	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station.	Connection to the EMS and the addition of a rain gauge will reduce water consumption and utility costs.	Operating Cost	2	\$6,428	Quantum Cost Estimate	Estimated 3-year payback period and not cost effective because of short-term life of facility.	Energy Consultant R. Thomas	C
AH-SI-20	Site	Landscape Plant Improvements	Replace deficient plants and provide additional landscape plants around perimeter of buildings and at parking lot islands.	Some of the existing landscape areas are unattractive.	Enhancement	3	\$33,602	BLRB Cost Estimate	Minor need.	R. Thomas	C
AH-SI-21	Site	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars, directional arrows, and bus stall numbers. Repaint existing lines in parking lots.	Thermo-plastic markings needed at critical areas that quickly wear away. Existing painted lines in parking lots are worn and need repainting.	Deficiency	2	\$15,836	BLRB Cost Estimate	Minor deficiency.	R. Thomas B. Kenworthy	C
AH-SI-22	Site	Pipe Rail Gate Addition	Provide a pipe rail gate at east end of bus loading area.	Existing bus loading area has gate at west end. Lack of gate at east end prevents this area from being closed during non-school hours.	Deficiency	1	\$19,550	BLRB Cost Estimate	Minor deficiency.	P. Harvey	C
AH-SI-24	Site	Ramp Handrail Additions	Provide handrails at exterior ramps located at east and west sides of theater, west of classroom 706, east of counseling area, east of auto shop unit 800, north of horticulture classroom 713, south and northwest of main gym 900.	Existing exterior ramps do not have handrails as required by ADA.	Deficiency	1	\$21,213	BLRB Cost Estimate	Minor deficiency.	ADA Consultant	C
AH-SI-25	Site	Sidewalk Addition	Provide 6' wide concrete walkway between student parking lot and south side of 300 / 400 unit.	Sidewalk needed to provide a hard surface for students and staff to walk on. Currently, students and staff walk across lawn area to take shortest route between student parking lot and 300 / 400 unit and portable classroom area.	Enhancement	3	\$21,995	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Smith	C
AH-SI-26	Site	Site Sign Addition	Provide concrete base site sign with school name and address.	Site sign needed to identify school and address.	Deficiency	1	\$61,095	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey	C
AH-SI-30	Site	Street Lighting Improvements	Provide additional street lighting at intersection of 4th St. NE and I St. NE.	Additional street lighting needed for better visibility of students and staff who cross street at this area.	Enhancement	3	\$63,510	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey	C
AH-SI-31	Site	Student Parking Addition	Provide 170 to 245 additional student parking stalls on school premises.	Existing school has 230 student parking stalls on site which is 170 to 230 less than district's standards. Additional student parking stalls also needed to provide additional parking for after-school events.	Deficiency	2	\$1,381,427	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	M. Newman B. Kenworthy	C
AH-SI-33	Site	Tennis Court Net Post Replacement	Replace net posts and net tie-down base at 9 tennis courts.	Existing net posts and net tie-down at center of court are deteriorating and failing.	Deficiency	2	\$43,988	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Swaim	C
AH-SI-34	Site	Tennis Court Surface Upgrade	Repair cracks, replace areas of settlement, and provide new surface coat at 9 concrete tennis courts.	Existing concrete tennis courts have significant cracks, areas of settlement, and the playing surface coat is worn.	Deficiency	1	\$934,771	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	M. Newman R. Swaim R. Thomas B. Kenworthy	C
AH-SI-35	Site	Theater Delivery Area Expansion	Provide additional hard surface parking and delivery area for 4 vehicles adjacent to the theater delivery area.	Additional parking and delivery area desired to accommodate theater staff vehicles and delivery vehicles.	Enhancement	3	\$9,189	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Smith	C

# PROPOSED FACILITY IMPROVEMENTS

# AUBURN HIGH SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AH-SI-37	Site	Underground Fuel Storage Tank Removal	Remove 10,000 gallon underground fuel oil storage tank that serves heating system.	Existing underground tank located in courtyard area west of elevator is not used and presents environmental risk.	Deficiency	1	\$64,760	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
AH-SI-38	Site	Visitor Parking Addition	Provide visitor parking with 20 to 25 stalls located at main entry to building.	School has 6 stalls designated area for visitor parking at lot across the street from school. These stalls are always full. This requires visitors to park on the street which is inconvenient and can be difficult because of limited availability of on-street parking stalls.	Deficiency	2	\$103,224	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey B. Kenworthy	C
AH-SI-42	Site	Street Tree Additions	Provide street trees at Main St. and 4th St. NE.	Street trees not present at Main St. and 4th St. NE street frontage as required by current City of Auburn landscape ordinance. The addition of street trees will improve appearance of facility.	Enhancement	3	\$9,775	BLRB Cost Estimate	Minor need.	R. Thomas	C
AH-SI-43	Site	Underground Waste Oil Tank Removal	Remove underground waste oil holding tank, oil / water separator, and fuel oil storage tanks at auto shop.	Existing underground waste oil tank, oil water separator, and fuel oil tank located south of auto shop are no longer used.	Deficiency	1	\$48,265	BLRB Cost Estimate	Minor deficiency.	R. Thomas	C
AH-SI-45	Site	Softball Field Synthetic Turf Addition	Provide infill system synthetic turf at Fulmer Park softball field.	School uses City of Auburn Fulmer Field for softball team practices and games. Existing grass turf at this field is wet during the early part of the softball season. Installation synthetic turf would provide a better field that is fully usable all year and requires less maintenance and no irrigation. Because Fulmer Field is a large, multi-purpose field, the extent of the synthetic turf would need to be larger than the size of a softball field.	Enhancement	3	\$1,255,248	DA Hogan	Not cost effective.	R. Swaim	C
AH-ST-01 1950A-SR1	Structural	1950 Bldg. Infill Wall Panel Additions	Remove glass block areas and replace with wall infill panels at 1950 two-story building.	Replacement of the glass block areas with windows and infill panels will improve the seismic support of the structure.	Deficiency	2	\$882,626	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
AH-ST-02 1950A-SR2	Structural	1950 Bldg. Roof Replacement and Diaphragm Improvements	Replace existing roof and Install plywood at roof surfaces and upgrade out-of-plane anchorage roof. Provide anchor straps at existing joist ties at floors at 1950 building.	Plywood sheathing and anchor straps are needed to transfer out-of-plane loads from walls to diaphragm.	Deficiency	2	\$1,177,582	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
AH-ST-03 1950A-SR3	Structural	1950 Bldg. Shear Wall Additions	Provide new shear walls by partially infilling existing openings in walls in the east/west directions. In-fill portion of window openings on north and south exterior walls. Construction new interior shear walls from low roof to high roof at east and west ends of library at 1950 building.	New shear walls will improve seismic support.	Deficiency	2	\$171,845	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
AH-ST-05 1950B-SR1	Structural	1950 Gym Infill Wall Panels Additions	Remove glass block areas and replace with wall infill panels at 1950 gym building.	Replacement of the glass block areas with windows and infill panels will improve the seismic support of the structure.	Deficiency	2	\$229,896	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
AH-ST-06 1950B-SR2	Structural	1950 Gym Roof Diaphragm Improvements	Install cross building ties and continuous steel angles at perimeter of roof diaphragms with anchors to walls and to roof decks at 1950 gym building.	Cross building ties and steel angles are needed to transfer diaphragm loads that act parallel or perpendicular to the shear walls.	Deficiency	2	\$113,939	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C



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AH-ST-08 1950B-SR4	Structural	1950 Bldg. Shear Wall Improvements	Install wood stud back-up walls at existing masonry walls and anchor walls at floor slab and existing roof structure at 1950 boy's locker room buildings.	Wood stud back-up walls will improve shear resistance of existing walls in boy's locker room area.	Deficiency	2	\$39,590	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
AH-ST-09 1950B-SR5	Structural	1950 Bldg. Room Sheathing Addition	Provide plywood sheathing over the existing wood roof decking at 1950 girl's locker room building.	Plywood sheathing will improve overall performance of the structure.	Deficiency	2	\$171,491	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
AH-ST-10 1950B-SR6	Structural	1950 Gym Bldg. CMU Shear Wall Additions	Provide CMU shear walls under the concrete mezzanine anchored to walls and mezzanine floor at north side of 1950 gym building.	Shear walls will improve seismic performance of north side of gym building.	Deficiency	2	\$21,995	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
AH-ST-11 1950B-SR7	Structural	Masonry Chimney Anchoring	Provide roof blocking and tension ties into the masonry chimney at 1950 building.	Securing the masonry chimney to the roof structure will reduce the potential for damage to chimney and roof.	Deficiency	2	\$12,220	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
AH-ST-12 1962C-SR1	Structural	1962 PE Bldg. Wall Reinforcement	Install wood framing strong-back anchored to existing masonry walls, roof, and floor slab at 1962 PE building.	Installing wood framing anchored to masonry walls will improve seismic performance of the PE building.	Deficiency	2	\$86,644	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
AH-ST-13 1962C-SR2	Structural	1962 PE Building Roof Diaphragm Improvements	Install cross building ties and continuous steel angles at perimeter of roof diaphragms with anchors to walls and to roof decks at 1962 PE building.	Cross building ties and steel angles are needed to transfer diaphragm loads that act parallel or perpendicular to the shear walls.	Deficiency	2	\$37,805	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
AH-ST-14 1950C-SR1	Structural	1950 Cafeteria Roof Diaphragm Improvements	Install cross building ties and continuous steel angles at perimeter of roof diaphragms with anchors to walls and to roof decks at 1950 cafeteria.	Cross building ties and steel angles are needed to transfer diaphragm loads that act parallel or perpendicular to the shear walls.	Deficiency	2	\$14,882	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
AH-ST-15 1950C-SR2	Structural	1950 Cafeteria Roof Sheathing Addition	Install plywood sheathing over the existing roof sheathing anchored to the new and existing shear walls at 1950 cafeteria.	Plywood sheathing will improve overall performance of the structure.	Deficiency	2	\$274,555	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
AH-ST-16 1950C-SR3	Structural	1950 Cafeteria Roof Blocking & Clip Additions	Install blocking and metal clips at roof structure at 1950 cafeteria.	Blocking and metal clips are needed to resist lateral loads and wind uplift forces.	Deficiency	2	\$9,977	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
AH-ST-17 1962B-SR1	Structural	1962 Kitchen Backing Wall Additions	Provide stud backing walls anchored to the floor, wall and roof structure to brace the masonry walls. Verify tube steel braces at the loading dock at 1962 kitchen.	Stud backing walls and tube steel braces will improve seismic support of the kitchen area walls.	Deficiency	2	\$37,237	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
AH-ST-18 1969-SR1	Structural	1969 Bldg. Lateral Support Additions	Provide lateral support for exterior masonry walls at 1969 building.	Lateral bracing is needed to improve seismic support.	Deficiency	2	\$13,197	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
AH-ST-19 1969-SR2	Structural	1969 Bldg. Roof Strap Additions	Install steel straps at roof along east, west and south exterior walls at 1969 building.	Steel straps are needed to transfer diaphragm loads that act parallel to shear walls.	Deficiency	2	\$8,541	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C

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AH-ST-20 1969-SR3	Structural	1969 Bldg. Roof/Low Wall Anchoring	Provide anchorage between masonry walls and the low roof structure at 1969 building.	Anchorage between masonry walls and roof structure will improve seismic support.	Deficiency	2	\$11,363	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
AH-ST-21 1969-SR4	Structural	1969 Bldg. Wall Sheathing Addition	Remove existing finishes, install plywood sheathing and new finishes on stud walls at 1969 building.	Plywood sheathing will strengthen diaphragm and improve seismic support.	Deficiency	2	\$95,086	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
AH-ST-22 1957-SR1	Structural	1957 Bldg. Wall Sheathing Additions	Provide plywood sheathing on existing walls at north wall of choral room and south wall of band room at 1957 building.	Plywood sheathing will provide a more reliable lateral load path at these walls.	Deficiency	2	\$87,096	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
AH-ST-23 1957-SR2	Structural	1957 Bldg. Wall Sheathing Addition	Provide plywood sheathing to stud walls at 1957 building.	Plywood sheathing is needed on studs walls to provide a more reliable lateral load path.	Deficiency	2	\$35,190	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
AH-ST-24 1957-SR3	Structural	1957 Bldg. Backing Wall Additions	Provide backing walls at unreinforced masonry walls at east and west sides of the classrooms. Provide collector straps on the roof at 1957 building.	Backing walls and collector straps will improve seismic support.	Deficiency	2	\$55,974	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
AH-ST-25 1957-SR4	Structural	1957 Bldg. Roof Diaphragm Improvements	Install cross building ties and continuous steel angles at perimeter of roof diaphragms at 1957 building.	Cross building ties and steel angles are needed to transfer diaphragm loads that act parallel or perpendicular to the shear walls.	Deficiency	2	\$112,950	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
AH-ST-26 1957-SR5	Structural	1957 Bldg. Pilaster Bracing	Brace top of CMU pilasters to the roof diaphragm structure at 1957 building.	Bracing is needed to resist out-of-plane loads.	Deficiency	2	\$14,663	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
AH-ST-27 1957-SR6	Structural	1957 Bldg. Wall Anchoring	Provide backing walls at masonry wall not backed in 1997 renovations. Upgrade anchorage of backing stud walls added in 1997 at 1957 building.	Backing walls and upgraded anchorage of backing walls will improve seismic support.	Deficiency	2	\$57,185	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
AH-ST-28 1962A-SR1	Structural	1962 Clrm. Bldg. Shear Wall Analysis & Additions	Perform a lateral analysis to determine adequacy of the concrete columns and add CMU shear walls at 1962 SE classroom building.	Upgrades to the concrete columns are needed to improve seismic support.	Deficiency	2	\$381,225	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
AH-ST-29 1962A-SR2	Structural	1962 Clrm. Bldg. Load Balancing	Correct unbalanced vertical loads at roof plates at 1962 classroom building.	Correcting unbalanced vertical loads at roof plates will improve seismic support.	Deficiency	2	NA	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
AH-ST-30 1962A-SR3	Structural	1962 Clrm. Bldg. Pilaster Bracing	Verify adequacy of the pilasters and brace tops of CMU walls, backing walls, or strong-backs.	Bracing is needed to resist out-of-plane loads.	Deficiency	2	\$21,995	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
AH-ST-31 1978B-SR1	Structural	1978 LRC Bldg. Shear Wall Analysis & Additions	Perform a lateral analysis to determine adequacy of the concrete columns and add CMU shear walls at 1978 LRC building.	Upgrades to the concrete columns are needed to improve seismic support.	Deficiency	2	\$19,579	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
AH-ST-32 1978B-SR2	Structural	1978 LRC Bldg. Beam Bracing	Add braces at ends of the beams and roof structure at 1978 LRC building.	Braces will resist lateral load perpendicular to the length of the beam.	Deficiency	2	\$30,913	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C

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AH-ST-33 1978B-SR3	Structural	1978 LRC Bldg. Joist Connection Additions	Add connection hardware to ends of joists at 1978 LRC building.	Connection hardware will provide a clear load path to transfer uplift forces and lateral forces perpendicular to the beam.	Deficiency	2	\$14,663	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
AH-ST-34 1978-SR1	Structural	1978 Bldg. Wall Panel Connection Upgrade	Provide reinforcement at precast wall panel connections at 1987 buildings.	Wall panel connection upgrades will improve seismic support.	Deficiency	2	NA	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
AH-ST-35 1978-SR1	Structural	1978 Bldg. Wall Panel Connection Repair	Repair two wall panel connections at 1978 building.	Wall panel connection repairs will correct connectors that have deteriorated.	Deficiency	2	\$2,445	PCS Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	Structural Engineer	C
AH-EX-01	Exterior	Automatic Door Opener Additions	Provide automatic door opener at building entrances at front of school, gym lobby, theater lobby and door serving bus area.	Building does not have automatic door opener at main entry doors.	Enhancement	2	\$78,200	BLRB Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	J. Trauffer M. Newman B. Kenworthy	C
AH-EX-04	Exterior	Concrete Wall Repair	Repair broken concrete at exterior wall of elevator.	Existing concrete is broken and unsightly but structurally sound.	Deficiency	3	\$7,332	BLRB Cost Estimate	Maintenance item.	R. Thomas	C
AH-EX-06	Exterior	Exterior Coiling Door Replacement	Replace exterior coiling door at theater loading dock.	Existing coiling door at theater loading dock is 28 years old, in marginal condition, and does not operate reliably.	Deficiency	2	\$20,650	BLRB Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	R. Thomas	C
AH-EX-10 ECM-G1	Exterior	Exterior Window Upgrade - Dual Glazing	Replace single-pane exterior windows with dual-glazing thermal windows.	Many existing exterior windows have single-pane windows. Replacement with dual-glazing will reduce energy costs and improve comfort.	Operating Cost & Enhancement	1	\$689,100	BLRB Cost Estimate	Not cost effective.	Energy Consultant R. Thomas B. Kenworthy	C
AH-EX-12	Exterior	Glass Block Repair	Replace exterior glass block that are broken at gym 907.	Some of the glass block at the old gym 907 is broken and unsightly.	Deficiency	2	\$102,638	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
AH-EX-14	Exterior	Sunscreen Upgrade	Replace vertical sunscreen at south side of 100 / 200 unit with horizontal sunscreen.	Existing fiberglass horizontal sunscreen at south side of 100 / 200 unit is in poor condition and creates a roosting area for pigeons directly outside of classroom windows.	Health / Safety & Deficiency	1	\$260,149	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
AH-EX-15	Exterior	Roof Upgrade - Single Ply	Provide single ply roof membrane over roofs at main gym, 100 / 200, 300 / 400, 500 units and portion of 800 unit.	Existing built-up roofing at main gym, 100 / 200, 300 / 400, 500 units and portion of 800 unit is 22 years old and will exceed its life expectancy within 5 years.	Enhancement	2	\$5,557,394	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
AH-IN-01	Interior	ADA Building Improvements	Provide miscellaneous building improvements to comply non-mandatory ADA standards.	School was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous building areas, which do not significantly affect access within the building, could be improved to comply with current ADA standards. Improvements needed to provide ADA required program access within the building are identified separately.	Enhancement	1	\$1,374,023	BLRB Cost Estimate	Minor deficiency and non-mandatory standards.	ADA Consultant	C

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AH-IN-03	Interior	Asbestos Containing Material Removal	Remove approximately 18,300 SF of asbestos containing sheet vinyl, vinyl tile and tile mastic; 700 SF of cement asbestos board; 102 SF of asbestos-containing chalkboards; 1,300 LF of asbestos-containing base molding; asbestos fire curtain theater stage; and 1,670 SF of asbestos-containing counter tops in science classrooms.	Some of the existing vinyl floor tile, cement board, chalkboards, base molding, counter tops and the theater fire curtain contain asbestos. All asbestos is encapsulated within the material and is not friable.	Enhancement	3	\$228,876	BLRB Cost Estimate	Not cost effective.	B. Kenworthy	C
AH-IN-04	Interior	Auxiliary Gym 912 Floor Upgrade	Provide wood floor in auxiliary gym 912.	Existing seamless rubber floor is 28 years old, has gouges and hardened, and does not meet district's standards. Installation of a wood floor provides a gym floor surface suitable for a high school facility and complies with district's standards.	Deficiency	2	\$242,910	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Swaim	C
AH-IN-05	Interior	Cabinet Additions - Art Room 412	Provide lockable student storage cabinets in art 412 where existing student storage drawers located.	Existing student storage drawers not large enough for student projects. Locked individual storage cabinets desired to accommodate student projects and materials.	Enhancement	3	\$13,257	BLRB Cost Estimate	Minor need.	R. Swaim	C
AH-IN-06	Interior	Cabinet Additions - Band Room	Provide locking storage cabinets for instruments at perimeter walls of band rooms.	Existing musical instrument storage room is crowded, does not have cabinets that lock and fit all instruments, and is difficult to supervise.	Deficiency	2	\$58,650	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey B. Kenworthy	C
AH-IN-07	Interior	Cabinet Additions - Career Choices Classrooms	Provide additional storage cabinets in classrooms 101 and 103.	Additional storage cabinets needed in career choices classrooms for instructional materials.	Deficiency	3	\$13,416	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Swaim	C
AH-IN-08	Interior	Cabinet Additions - General Classrooms	Provide additional cabinets in general classrooms for a minimum of 6 LF of tall bookshelves, 3 LF of tall storage and 3 LF of wardrobe cabinet plus an additional 12 LF of tall bookshelves in ten classrooms for language arts storage.	Existing cabinets in many general classrooms is inadequate for storage of instructional materials and does not meet district's standards.	Deficiency	3	\$434,816	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas B. Kenworthy	C
AH-IN-09	Interior	Cabinet Additions - Marketing	Provide additional storage shelving in marketing classroom area 707.	Additional shelving needed in marketing classroom for classroom and marketing materials.	Enhancement	3	\$7,551	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Swaim	C
AH-IN-10	Interior	Cabinet Additions - Orchestra Room	Provide locking storage cabinets for instruments at perimeter walls of orchestra / choral room.	Existing musical instrument storage room is crowded, does not have cabinets that lock and fit all instruments, and is difficult to supervise.	Deficiency	1	\$95,307	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey B. Kenworthy	C
AH-IN-11	Interior	Cabinet Upgrades - Offices	Replace wood cabinets and shelving in offices with plastic laminate surface cabinets and shelving that meets district's standard for quantity.	Some existing cabinets and shelf unit are made of wood and are up to 50 years old. These cabinets and shelves are worn and beyond repair.	Enhancement	3	\$7,332	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas B. Kenworthy	C
AH-IN-12	Interior	Carpet Replacement	Replace carpet at library, theater balcony and orchestra pit, and all classrooms and corridors with carpet installed prior to 1998.	Existing carpet is 10 to 28 years old in some areas. This carpeting is worn, too dirty to fully clean, and has failing seams.	Deficiency	1	\$1,649,775	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey R. Thomas B. Kenworthy	C

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AH-IN-14	Interior	Classroom Wainscot Addition	Provide protective wainscot at exterior and back walls in classrooms.	Existing sheet rock walls in classrooms are susceptible to and damaged in areas from normal wear and tear. Exterior walls and back walls, opposite of front of classroom, are most vulnerable because they have the greatest exposure to student's chairs. Other walls in rooms usually have computers, teacher's desk and whiteboards. Wainscot installation will reduce damage and maintenance costs.	Enhancement	3	\$265,574	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
AH-IN-15	Interior	Commons Carpet Addition	Provide carpeting in commons room 149, Café Auburn.	Carpet desired in Café Auburn to improve acoustics and atmosphere.	Enhancement	3	\$67,142	BLRB Cost Estimate	Minor need.	R. Swaim	C
AH-IN-16	Interior	Corridor and Stair Wainscot Addition	Provide addition wainscot in corridors and stairways where walls not protected by lockers or existing wainscot.	Additional wainscot desired to protect walls from damage.	Enhancement	3	\$78,810	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas B. Kenworthy	C
AH-IN-17	Interior	Culinary Arts Floor Upgrade	Replace seamless floor in culinary arts kitchen with quarry tile.	Existing seamless floor in culinary arts kitchen is slippery, patched, unattractive, and difficult to keep clean.	Deficiency	1	\$53,030	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey	C
AH-IN-18	Interior	Display Case Additions	Provide 16 LF of display case at front entry and 8 LF at art area.	Display cases needed at front entry and art area to display awards, program information and student work.	Deficiency	3	\$29,325	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
AH-IN-19	Interior	Display Case Upgrade	Replace wood display cases with plastic laminate surface display cases.	Existing wood display cases are over 30 years old and in fair condition. Plastic laminate surface display cases are more durable and meet district's standards.	Deficiency	1	\$6,720	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey	C
AH-IN-20	Interior	Door Hardware Upgrade	Replace interior door handles at 80 locations with ADA compliant lever handles.	Some existing door handles not ADA compliant.	Enhancement	2	\$43,010	BLRB Cost Estimate	Minor deficiency and not cost effective because of short-term life of facility.	R. Thomas	C
AH-IN-21	Interior	Gym 907 Floor Upgrade	Provide wood floor in the old gym 907.	Existing seamless rubber floor is over 35 years old, has hardened, does not provide a suitable gym floor surface, and does not meet district's standards. Installation of a wood floor provides a gym floor surface suitable for a high school facility and complies with district's standards.	Deficiency	1	\$322,208	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Swaim	C
AH-IN-22	Interior	Gym 907 Storage Fence Upgrade	Replace chainlink fence at storage enclosure in old gym 907 with more durable fencing.	Existing fencing is old with damaged and protruding fence material in areas. This fence enclosure is vulnerable to damage from gym activities and should be replaced with durable material.	Deficiency	1	\$39,003	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Swaim	C
AH-IN-23	Interior	Interior Door and Frame Upgrade	Refinish all interior wood door frames, refinish 50% of interior wood doors and replace 50% of interior wood doors.	The surface finish on the interior wood doors and frames is worn and needs to be refinished. The surfaces on about half of the wood doors is permanently damaged and these doors should be replaced.	Deficiency	1	\$46,675	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
AH-IN-25	Interior	Kitchen Locker Removal	Remove student lockers in kitchen. Patch wall surface and leave area open for cart storage.	Student lockers not used.	Enhancement	3	\$4,277	BLRB Cost Estimate	Minor need.	P. Harvey	C
AH-IN-27	Interior	Main Gym Wainscot Upgrade	Replace slatted vent wood material at main gym walls with painted MDO wainscot.	Existing vent wood wall material in main gym is vulnerable to damage and difficult to repair.	Enhancement	2	\$25,017	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C

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AH-IN-28	Interior	Orchestra / Choral Uniform Storage Cabinet Addition	Provide uniform storage cabinets in orchestra / choral room.	Uniforms stored at location separate from orchestra / choral room. Cabinets needed to allow storage and access within orchestra / choral room.	Enhancement	3	\$9,530	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey	C
AH-IN-32	Interior	Theater Lobby Flooring Upgrade	Replace or cover exposed aggregate floor at theater lobby with a durable and attractive surface.	Existing exposed aggregate floor in theater lobby is permanently discolored, dark and unattractive.	Enhancement	2	\$197,945	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Smith	C
AH-IN-33	Interior	Theater Lobby Window Covering Additions	Provide roller shades at window wall at west side of theater lobby.	Window coverings desired at large expanse of windows at west side of theater lobby to eliminate light bleed into theater during daytime performances.	Enhancement	3	\$11,144	BLRB Cost Estimate	Minor need.	P. Smith	C
AH-IN-34	Interior	Vinyl Flooring Replacement	Replace vinyl floor tile and sheet vinyl in all areas except student commons / lunch room, auto shop and art rooms.	Existing vinyl tile and sheet vinyl is 28 to 50 years old, worn, and cracked in areas.	Enhancement	1	\$619,368	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas B. Kenworthy	C
AH-IN-35	Interior	Walk Off Mat Upgrade	Provide larger walk off mats at building entrances.	Larger mats will improve dirt control and reduce maintenance and carpet wear.	Enhancement	3	\$141,127	BLRB Cost Estimate	Not cost effective until carpeting in corridors is replaced.	R. Thomas B. Kenworthy	C
AH-IN-36	Interior	Weight Room Floor Replacement	Replace rubber flooring in weight room 905.	Existing rubber floor in weight room is 20 years old, hardened, worn and damaged in areas.	Enhancement	2	\$96,040	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Swaim	C
AH-IN-37	Interior	Window Covering Upgrade	Provide curtains or roller shades where missing at exterior windows. Provide mini-blinds where missing at interior relite windows at offices where privacy is needed. Replace window curtains that are vinyl or are fabric without a coating.	Window curtains, roller shades or mini-blinds needed in some locations where missing to block light, for privacy or nighttime security. Existing curtains that are vinyl or uncoated fabric are in poor condition and do not meet district standards.	Deficiency	1	\$35,190	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas B. Kenworthy	C
AH-IN-38	Interior	Wood Door and Frame Upgrade	Repair, refinish and replace wood doors and frames.	Existing wood doors and frames are 28 to 50 years old. These doors and frames are worn and in some cases scratched and gouged beyond repair. Some doors and frames can be repaired and refinished and others require replacement.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in AH-IN-23.	R. Thomas B. Kenworthy	C
AH-EQ-01	Equipment	Art Furniture Upgrade	Replace existing tables in jewelry art room with durable lab tables.	Durable lab tables needed for art activities.	Enhancement	2	\$8,855	ASD Cost Estimate	Minor need.	R. Swaim	C
AH-EQ-02	Equipment	Baseball Field Bleacher Addition	Provide one section of additional aluminum bleachers at baseball field, 21' long x 8 rows deep, with covered scorekeeping area.	Additional bleachers needed to accommodate more spectators. Covered area needed to keep scorekeepers dry.	Enhancement	3	\$31,050	BLRB Cost Estimate	Minor need.	R. Swaim M. Newman	C
AH-EQ-03	Equipment	Chemical Storage Cabinet Additions	Provide an acid storage cabinet in chemical storage room 208.	Existing chemical storage room does not have an acid storage cabinet for proper storage of acid containers.	Deficiency	1	\$1,739	ASD Cost Estimate	Minor deficiency.	P. Harvey	C
AH-EQ-04	Equipment	Clothing Classroom Equipment Addition	Provide 15 portable sewing machines for clothing and child development classroom.	Existing classroom does not have sewing machines. Sewing machines needed for instructional program.	Deficiency	1	\$8,492	ASD Cost Estimate	Minor deficiency.	P. Harvey	C
AH-EQ-05	Equipment	Commons Table Replacement	Replace dining tables in commons.	Existing tables are worn.	Enhancement	3	\$53,532	ASD Cost Estimate	Minor need.	P. Harvey	C
AH-EQ-06	Equipment	Computer Furniture Upgrade	Provide furniture designed for computer and other technology equipment use.	Existing furniture used for computer and technology equipment is lacking and in many cases not designed for this use.	Deficiency	1	\$190,153	ASD Cost Estimate	Minor deficiency.	R. Luke	C

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AH-EQ-07	Equipment	Foods Classroom Equipment Upgrade	Replace 6 range / ovens at student cooking stations. Replace residential reach-in refrigerator and freezer units with commercial grade reach-in equipment.	Existing range / ovens are in fair condition but 25 years old and past life expectancy. Newer, larger and better quality reach-in refrigerator and freezers needed for cold food storage.	Enhancement	2	\$38,123	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Phillips R. Swaim	C
AH-EQ-08	Equipment	Furniture Upgrade - Classrooms	Provide new furniture in classrooms that do not meet district's standards.	Some of the existing classroom furniture is over 20 years old, worn and in poor condition.	Deficiency	1	NA	ASD Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
AH-EQ-09	Equipment	Furniture Upgrade - Library	Provide new furniture in library to meet district's standards.	Some of the existing library furniture is over 20 years old, worn and in poor condition.	Deficiency	1	\$176,142	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
AH-EQ-10	Equipment	Furniture Upgrade - Offices and Support Spaces	Provide new furniture in offices and support spaces that do not meet district's standards.	Some of the existing office and support space furniture is over 20 years old, worn and in poor condition.	Deficiency	1	\$24,156	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
AH-EQ-11	Equipment	Gym 907 Divider Curtain Upgrade	Provide new motorized divider curtain in auxiliary gym 907.	Existing curtain in gym 907 is in disrepair, cannot be fully retracted to ceiling, and is beyond its life expectancy.	Deficiency	1	\$35,363	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Swaim	C
AH-EQ-12	Equipment	Horticulture Equipment Upgrade	Provide new reach-in flower coolers, locking chemical storage cabinet, and new lab tables for horticulture classroom 717.	Existing reach-in coolers operate adequately but are past life expectancy. Chemical storage cabinet needed for secure and proper storage of chemicals. Durable lab tables needed in lieu of existing standards classroom tables.	Enhancement	3	\$19,445	ASD Cost Estimate	Not cost effective because of short-term life of facility.	R. Swaim	C
AH-EQ-13 ECM-W2	Equipment	Ice Machine Replacement	Replace water cooled ice machines in the training room and the kitchen with new, energy efficient machines.	Ice machine replacement will reduce energy costs.	Operating Cost	1	\$63,526	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant	C
AH-EQ-15	Equipment	Main Gym Bleacher Handrail Additions	Retrofit bleachers to provide handrails in aisles at existing bleachers in main gymnasium.	Handrails desired to assist people when walking up and down bleachers.	Enhancement	3	\$8,626	BLRB Cost Estimate	Minor need and not cost effective.	L. Cowan	C
AH-EQ-17	Equipment	Main Gym Bleacher Replacement	Replace telescoping bleachers in main gym.	Existing bleachers are in good condition but are 28 years old and do not meet ADA requirements.	Enhancement	1	\$276,000	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
AH-EQ-18	Equipment	Marker Board Upgrade	Replace chalkboards with marker boards in girl's locker room 906, music rooms 507 and 508, and 10 classrooms in 200 unit.	Some existing classrooms have chalkboards which create chalk dust, are inconvenient to use, and do not meet district's standards.	Deficiency	1	\$4,295	BLRB Cost Estimate	Minor deficiency.	P. Harvey B. Kenworthy	C
AH-EQ-20	Equipment	Tackboard Addition - Horticulture Classroom	Provide additional tackboards in horticulture classroom.	Additional tackboards desired for posting information and displays.	Enhancement	3	\$552	BLRB Cost Estimate	Minor need.	P. Harvey	C
AH-EQ-21	Equipment	Tackboard Upgrade	Replace existing wood tackboards and cork tackboards with vinyl covered cork boards.	Existing cork tackboards are over 30 years out and in poor condition. Existing wood tackboards are difficult to use and worn.	Deficiency	1	\$63,826	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey B. Kenworthy	C
AH-EQ-23	Equipment	Theater Orchestra Furniture Upgrade	Provide new chairs and music stands for orchestra performers.	Existing orchestra chairs and music stands are 28 years old and worn.	Enhancement	3	\$19,837	ASD Cost Estimate	Minor need.	P. Smith	C
AH-EQ-25 ECM-M26	Equipment	Washing Machine Upgrade	Replace 4 washing machines with horizontal axis, high efficiency units.	Washing machine replacement will reduce energy costs.	Operating Cost	1	\$7,260	Quantum Cost Estimate	Estimated 4-year payback period and not cost effective because of short-term life of facility.	Energy Consultant	C
AH-EQ-26	Equipment	Weight Room Equipment Replacement	Replace weight room equipment.	Some of the existing fitness equipment old, in disrepair, and past its life expectancy.	Enhancement	3	\$74,248	ASD Cost Estimate	Minor need.	R. Swaim	C

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AH-EQ-27	Equipment	Window Covering Upgrade	Replace existing window covering with curtains or roller shades that meet district standards.	Some of the existing window coverings are old, do not match, and are in poor condition.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in AH-IN-37.	P. Harvey	C
AH-EQ-28	Equipment	Wrestling Mat Upgrade	Replace and expand wrestling mats in auxiliary gym 908.	Existing wrestling mats are in poor condition and do not fully cover floor area. Full floor coverage is needed to provide a space room for wrestling practice.	Deficiency	1	\$32,947	BLRB Cost Estimate	Minor deficiency.	R. Swaim	C
AH-ME-01	Mechanical	100 Unit Waste Line Replacement	Reroute and replace waste lines located in service tunnels below 100 unit.	Existing waste lines located in 100 unit service tunnels are in marginal condition and some are connected to storm drain system.	Deficiency	1	\$88,048	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
AH-ME-02	Mechanical	Air Handling Equipment Replacement - 100 / 200 and 500 Units	Replace air handling units at 100 / 200 and 500 units that are older than 1980.	Existing air handling units in some areas operate but are past life expectancy.	Enhancement	2	\$531,940	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
AH-ME-03	Mechanical	Air Handling Equipment Replacement - Metal Shop 712	Replace outside air handling units at 100 / 200 and 500 units that are older than 1980.	Existing air handling units in some areas operate but are past life expectancy.	Enhancement	2	\$43,428	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
AH-ME-04 ECM-M21	Mechanical	Air Handling Equipment Replacement - Girl's Locker Room	Replace air handling unit serving Girls Locker Room with new unit with heat recovery unit.	AHU is past life expectancy and will reduce energy costs.	Operating Cost	2	\$51,425	Quantum Cost Estimate	Estimated 10-year payback period and not cost effective because of short-term life of facility.	Energy Consultant	C
AH-ME-05	Mechanical	Art Room Plumbing Fixture Additions	Provide an eyewash and additional sink in 2-D art room 412.	Eyewash needed for student use. Additional sink needed to accommodate the instructional program.	Health / Safety	1	NA	No Cost Estimate	Minor need.	B. Kenworthy	C
AH-ME-06 ECM-M2	Mechanical	Automatic Controls Upgrade	Upgrade control system front end and software to the district standard - BacNet compatible, web based.	BACnet controls will reduce EMS maintenance and service costs.	Operating Cost	2	\$38,570	Quantum Cost Estimate	Estimated 8-year payback period and not cost effective because of short-term life of facility.	Energy Consultant	C
AH-ME-09 ECM-M9	Mechanical	Boiler Control Modification	Modify boiler sequence to reduce operating hours.	Boiler sequence modifications will reduce energy costs.	Operating Cost	1	\$2,572	Quantum Cost Estimate	Estimated 4-year payback period and not cost effective because of short-term life of facility.	Energy Consultant	C
AH-ME-10	Mechanical	Boiler Upgrade	Replace steam boilers with high efficiency hot water boilers.	Boiler replacement will reduce energy costs.	Operating Cost	1	\$1,593,629	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
AH-ME-11	Mechanical	Business Education Sink Additions	Provide sink in two business education classrooms.	Sinks needed in business education classrooms for cleaning equipment.	Enhancement	3	\$21,418	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Swaim	C
AH-ME-12	Mechanical	Chemical Storage Ventilation Improvement	Improve ventilation system in science chemical storage room 208.	Additional ventilation desired in chemical storage room to reduce heat gain and chemical odors.	Enhancement	1	\$36,655	Quantum Cost Estimate	Minor need.	P. Harvey	C
AH-ME-13	Mechanical	Classroom HVAC Cooling Improvements	Provide mechanical cooling improvements at south facing classrooms, interior classrooms, and computer classrooms that overheat.	Existing south facing classrooms overheat in fall and spring from sun exposure. Interior classrooms overheat because of heat gain from surrounding spaces. Computer, business education and electronic classrooms overheat because of heat generating equipment used in the classrooms.	Deficiency	1	\$2,034,116	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	M. Newman P. Harvey	C



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AH-ME-14 ECM-M3	Mechanical	CO2 Control Addition - Large Spaces	Expand the existing control system to add CO2 control to the main air handling systems serving the gyms, wrestling room, weight room, library, theater and lobby, commons, and locker rooms.	CO2 control will regulate the amount of outside air being delivered to the occupied spaces based on CO2 levels and reduce energy costs.	Operating Cost	1	\$92,565	Quantum Cost Estimate	Estimated 5-year payback period and not cost effective because of short-term life of facility.	Energy Consultant	C
AH-ME-15 ECM-M4	Mechanical	CO2 Control Addition - Offices and Classrooms	Expand the existing control system to add CO2 control to the main air handling systems serving the standard classrooms, science classrooms, shops and offices with dedicated air handling units.	CO2 control will regulate the amount of outside air being delivered to the occupied spaces based on CO2 levels and reduce energy costs.	Operating Cost	2	\$205,700	Quantum Cost Estimate	Estimated 8-year payback period and not cost effective because of short-term life of facility.	Energy Consultant	C
AH-ME-16	Mechanical	Compressed Air Addition	Provide compressed air at 8 workstations in electronics classroom 708.	Compressed air needed for electronics work.	Deficiency	1	\$23,656	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey B. Kenworthy	C
AH-ME-20 ECM-M27	Mechanical	Dishwasher Hood Interlock Addition	Provide an interlock to disable the dishwasher hood in the kitchen when the dishwasher is not operating.	Dishwasher hood interlock will reduce energy costs.	Operating Cost	1	\$1,285	Quantum Cost Estimate	Estimated 4-year payback period and not cost effective because of short-term life of facility.	Energy Consultant	C
AH-ME-21	Mechanical	Domestic Water Circulation Pump Replacement	Replace heating water circulation pumps.	Existing heating water circulation pumps are unreliable and past life expectancy.	Enhancement	3	\$11,229	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
AH-ME-22	Mechanical	Domestic Water Pipe Replacement	Replace existing steel domestic water pipes with copper piping in the 100, 200 and 500 units.	Existing domestic water lines in buildings built before 1980 are old, corroded, and need replacement.	Deficiency	1	\$558,867	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	M. Newman R. Thomas	C
AH-ME-23	Mechanical	Double Detector Check Valve Additions	Add double detector check valves on the fire suppression system at four locations.	Four sections of the existing fire suppression system do not have double detector check valves to protect from water contamination.	Health / Safety & Deficiency	1	\$115,192	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
AH-ME-24	Mechanical	Drinking Fountain Upgrade - Theater Lobby	Replace two drinking fountains in theater lobby with two sets of ADA compliant, refrigerated drinking fountains.	Existing drinking fountains in theater lobby leak, malfunction frequently, are not refrigerated or ADA compliant. Refrigerated water is desired to contribute to a high quality theater facility.	Deficiency	1	\$17,485	Quantum Cost Estimate	Minor deficiency.	P. Smith	C
AH-ME-25 ECM-M28	Mechanical	Ductwork Upgrade - Metal Shop 712	Increase the size of the outside air ductwork serving fan in metal shop.	Existing ductwork is undersized and inadequate for proper indoor air quality.	Health / Safety & Deficiency	1	\$3,857	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	Energy Consultant	C
AH-ME-26	Mechanical	Ductwork Upgrade - Roof Mounted	Replace roof mounted ductwork with ductwork located within building envelope.	Existing roof mounted equipment and ductwork has inconvenient service access and are exposure to weather creating premature wear and potential for indoor air quality problems.	Deficiency	2	\$614,477	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
AH-ME-27	Mechanical	Emergency Shower Additions	Provide emergency shower and floor drain at six science prep rooms.	Emergency showers needed for student and staff safety.	Deficiency	1	\$79,451	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
AH-ME-28	Mechanical	Fire Sprinkler Bracing Addition	Provide additional seismic bracing to existing fire sprinkler system in theater 601, main gym 900, library 304 and 800 unit in compliance with FM Global standards.	Additional bracing will reduce risk of broken fire sprinkler lines during an earthquake.	Enhancement	2	\$359,975	Quantum Cost Estimate	Not cost effective.	M. Newman	C

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AH-ME-29	Mechanical	Fire Sprinkler System Addition	Provide fire sprinkler system throughout school except where existing systems are located in theater 601, main gym 900, library 304 and 800 unit.	Most of the school lacks fire sprinkler protection.	Enhancement	1	\$1,247,057	Quantum Cost Estimate	Not cost effective.	R. Thomas	C
AH-ME-30 ECM-M8	Mechanical	Heat Pump Addition - MC Room 011A	Provide a dedicated heat pump to serve MC room 011A.	Heat pump needed to provide mechanical cooling at MC room. Existing room overheats significantly and causes potential damage to telecommunications equipment.	Deficiency	2	\$38,570	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	Energy Consultant	C
AH-ME-31 ECM-M22	Mechanical	Heat Recovery System Addition	Provide a air-air heat recovery system or runabout coil at boy's locker room.	Heat recovery system or roundabout coil at boy's locker room will reduce energy costs.	Operating Cost	2	\$25,713	Quantum Cost Estimate	Estimated 8-year payback period and not cost effective because of short-term life of facility.	Energy Consultant	C
AH-ME-32	Mechanical	Heating Water Circulation Pump Replacement	Replace heating water circulation pumps.	Existing heating water circulation pumps are unreliable and past life expectancy.	Enhancement	2	\$38,004	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
AH-ME-33 ECM-M13	Mechanical	Heat Pump Replacement - Culinary Arts 144	Replace roof top heat pump serving culinary arts kitchen 144.	Existing heat pump serving room 144 frequently malfunctions and is past life expectancy. Replacement with new unit will reduce energy costs.	Operating Cost	3	\$64,282	Quantum Cost Estimate	Estimated 12-year payback period and not cost effective because of short-term life of facility.	Energy Consultant	C
AH-ME-34 ECM-M12	Mechanical	Heat Pump Replacement - 300/400 Unit and Staff Lounge 155	Replace roof top heat pumps serving 300/400 unit and staff lounge 155.	Existing heat pumps serving 300 / 400 unit and room 155 frequently malfunction and are past life expectancy. Replacement with new units will reduce energy costs.	Deficiency	3	\$899,938	Quantum Cost Estimate	Estimated 10-year payback period and not cost effective because of short-term life of facility.	Energy Consultant R. Thomas	C
AH-ME-36	Mechanical	Horticulture Sink Upgrade	Replace existing counter sink with large sink with bubbler and soil trap.	Large sink with soil trap needed for horticulture classroom activities.	Deficiency	3	\$7,971	Quantum Cost Estimate	Minor deficiency.	R. Swaim	C
AH-ME-37 ECM-M14	Mechanical	Hot Water Boiler and Heating System Upgrade	Replace the steam boilers with high efficiency, condensing hot water boilers. Replace steam heating systems and equipment with hot water system in rooms 143 and 149, and 500 unit.	Replacement of steam boilers and steam heating systems will replace old equipment that is past its expected life and reduce energy costs.	Operating Cost	3	\$1,306,195	Quantum Cost Estimate	Estimated 12-year payback period and not cost effective because of short-term life of facility.	Energy Consultant	C
AH-ME-38	Mechanical	Hydronic Water Pipe Replacement	Replace underground hydronic water pipes at 300 / 400 unit.	Existing underground hydronic water pipes at 300 / 400 unit are deteriorated and leaking.	Deficiency	2	\$222,156	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
AH-ME-39	Mechanical	Mechanical Cooling Addition	Provide mechanical cooling to serve the main office area, library, computer classrooms 205, 207, 307D, business education classrooms 101, 103, 104, 105, and other spaces with high heat gain.	Main office area needs mechanical cooling because the office is used during summer months. Other spaces in the building, with high heat gain, need cooling to maintain comfortable temperatures and a conducive learning environment at all times.	Deficiency	1	\$784,232	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
AH-ME-40	Mechanical	Metals Shop Air Quality Improvement	Modify ventilation system at welding booths in metal shop 712 to improve air quality.	Existing ventilation system at welding booths does not adequately remove smoke and fumes generated by welding booths.	Health / Safety & Deficiency	1	\$45,769	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas R. Swaim	C
AH-ME-41	Mechanical	Natural Gas System Metering	Provide electronic meter for natural gas system connected to energy management system.	Electronic meter will allow remote monitoring of gas service and improve potential for reducing natural gas use.	Operating Cost	2	\$50,912	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C

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AH-ME-42 ECM-M5	Mechanical	Occupancy Sensor Addition - Large Spaces	Provide occupancy sensors in areas with fluctuating occupancy to set back heating, shut off lights and reduce air flow the spaces when spaces are unoccupied. Areas include the gyms, wrestling room, weight room, library, theater and lobby, theater lounge and work room, commons, and locker rooms.	Occupancy sensors will allow heating system, lights and ventilation systems to be set back when the spaces are unoccupied which will reduce energy costs.	Operating Cost	1	\$115,707	Quantum Cost Estimate	Estimated 4-year payback period and not cost effective because of short-term life of facility.	Energy Consultant	C
AH-ME-43 ECM-M6	Mechanical	Occupancy Sensor Addition - Offices and Classrooms	Provide occupancy sensors in areas with fluctuating occupancy to set back the spaces when they are unoccupied. Heating will be setback, lights shut off, and airflow reduced during unoccupied periods. Areas include the classrooms, science rooms, shops, and offices. Occupancy sensors for shops would not be tied to lights.	Occupancy sensors will allow heating system, lights and ventilation systems to be set back when the spaces are unoccupied which will reduce energy costs.	Operating Cost	1	\$192,845	Quantum Cost Estimate	Estimated 4-year payback period and not cost effective because of short-term life of facility.	Energy Consultant	C
AH-ME-45 ECM-M15	Mechanical	Pipe Insulation Additions	Provide insulation at hot water and condensate piping in boiler room and tunnels.	Pipe insulation will reduce energy costs.	Operating Cost	2	\$51,425	Quantum Cost Estimate	Estimated 4-year payback period and not cost effective because of short-term life of facility.	Energy Consultant	C
AH-ME-46	Mechanical	Plumbing Fixture Replacement	Replace existing plumbing fixtures.	Existing plumbing fixtures throughout the school are old, are not water efficient, and many are in poor condition.	Deficiency	3	\$534,048	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
AH-ME-47 ECM-W1	Mechanical	Plumbing Fixture Retrofit Review	Review water saving opportunities including retrofit or replacement of sinks, urinals and water closets.	A reduction in water use will reduce utility costs.	Operating Cost	1	\$257,125	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	Energy Consultant	C
AH-ME-49 ECM-M10	Mechanical	Return Air System Addition	Provide a return air system at rooms 104 and 204. Connect existing hood to EMS and operate outdoor air based on hood and CO2 sensor. Add a general space ventilation switch to control exhaust fan in room 204.	Air system additions and modifications will reduce energy costs.	Operating Cost	2	\$32,140	Quantum Cost Estimate	Estimated 7-year payback period and not cost effective because of short-term life of facility.	Energy Consultant	C
AH-ME-51	Mechanical	Silk Screen Wash Booth Addition	Provide wash booth with exhaust hood in silk screen room.	Wash booth with exhaust fan needed to clean silk screens.	Deficiency	3	\$23,064	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey B. Kenworthy	C
AH-ME-52	Mechanical	Sink Upgrade - Concession Stand	Provide 3-compartment sink in concession stand 905A in gym lobby.	Existing sink is 2-compartment. Health department requires 3-compartment sink.	Deficiency	2	\$9,449	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
AH-ME-53	Mechanical	Sink Upgrade - Student Store	Provide 3-compartment sink in student store 603.	Existing sink is a single compartment. Health department requires 3-compartment sink.	Deficiency	2	\$9,449	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
AH-ME-54 ECM-M16	Mechanical	Steam Trap Replacement	Replace or retrofit steam traps.	Steam trap replacement will reduce energy costs.	Operating Cost	1	\$38,570	Quantum Cost Estimate	Estimated 4-year payback period and not cost effective because of short-term life of facility.	Energy Consultant	C
AH-ME-55 ECM-M1	Mechanical	TAB and Commissioning	Perform air and water testing, adjusting and balancing (TAB) on the mechanical systems. Commission the existing HVAC control system to verify proper operation.	Retroactive TAB and commissioning will improve system operation and reduce energy costs.	Operating Cost	1	\$192,845	Quantum Cost Estimate	Estimated 4-year payback period and not cost effective because of short-term life of facility.	Energy Consultant	C

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AH-ME-56	Mechanical	Theater Waste Line Modifications	Modify waste lines serving sink in theater workroom 609 and floor drain in orchestra pit to connect to sewer system.	Existing waste lines in theater area are connected to storm drain system. During heavy rains, water backs up at the theater work shop sink and orchestra pit floor drain.	Health / Safety & Deficiency	2	\$11,570	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	P. Smith	C
AH-ME-57	Mechanical	Unit Ventilator Replacement	Replace unit ventilators at exterior classrooms in 300 / 400 unit and two classrooms at 500 unit.	Existing unit ventilators in 300 / 400 and 500 units are over 50 years old, difficult to repair, and past life expectancy.	Deficiency	2	\$194,387	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
AH-ME-58 ECM-M7	Mechanical	Variable Speed Drive Additions - 100 Unit Offices	Provide a variable speed drive on the air handling unit serving the 100 unit offices and at VAV boxes in each zone. Review benefits of adding hot water reheat at this area.	Variable speed drives in the 100 unit will reduce energy costs.	Operating Cost	2	\$89,995	Quantum Cost Estimate	Estimated 8-year payback period and not cost effective because of short-term life of facility.	Energy Consultant	C
AH-ME-60 ECM-M11	Mechanical	Ventilation Control Additions	Add CO2 sensors, exhaust fan and hood fan interlocks to the EMS at art rooms 314 and 412 to operate the air handler in return air mode with minimum OSA based on CO2 sensor unless the exhaust fan is enabled.	Ventilation control additions will reduce energy costs.	Operating Cost	1	\$15,428	Quantum Cost Estimate	Estimated 5-year payback period and not cost effective because of short-term life of facility.	Energy Consultant	C
AH-ME-62	Mechanical	Waste Line Replacement - Underslab	Replace sections of waste line below kitchen and locker rooms that have settled.	Existing waste lines below kitchen and locker rooms have settled and the cast iron joints are beginning to separate. Further joint separation could result in failure of the waste line and shut down areas served by the failed line.	Deficiency	1	\$42,245	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
AH-ME-63	Mechanical	Water Quality Improvements	Replace plumbing at 8 sinks and one drinking fountain.	Water quality tests at 8 sinks and one drinking fountain exceeded EPA water quality standards for lead or copper.	Health / Safety	1	\$25,842	Quantum Cost Estimate	Not needed. Further testing revealed water quality standards being met except at 3 fixtures that will be corrected by Maintenance Dept.	B. Kenworthy	C
AH-ME-65	Mechanical	Wrestling Area Sink Upgrade	Provide large and easily accessible mop sink close to wrestling room 908.	Existing mop sink in custodial closet not easily accessible for use in cleaning wrestling mats. Easy access is needed because of the frequent cleaning required for sanitation of wrestling mats.	Enhancement	1	\$8,459	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Swaim	C
AH-ME-66	Mechanical	Exhaust Fan Upgrade	Replace existing exhaust fans with new and more energy efficient models.	Existing exhaust fans are in fair to poor condition, require frequent maintenance, and are not energy efficient.	Operating Cost & Deficiency	2	\$328,607	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
AH-ME-67	Mechanical	Sawdust Collection System Upgrade	Replace sawdust collector equipment with new and more energy efficient model.	Existing sawdust collection equipment at wood shop is 28 years old, has water leaks, is not energy efficient and requires frequent maintenance.	Operating Cost & Deficiency	2	\$56,054	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
AH-ME-68	Mechanical	Waste System Modifications	Modify the waste system piping to separate the general waste system from the chemical waste piping at the 100 / 200 unit and install new acid neutralization tank.	Portions of the general waste and chemical waste system are connected to common waste lines which allows some chemical waste to discharge into the sanitary sewer system without acid neutralization treatment and allows some general waste to discharge into the acid neutralization tank. Existing acid neutralization tank is 28 years old and should be replaced with an upgraded model.	Deficiency	1	\$56,001	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C

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AH-ME-69	Mechanical	Waste Line Replacement - Tunnels	Replace waste line located in tunnels and crawl space below the 100 unit.	Existing waste lines located in the tunnels and crawl space are in poor condition and some areas lack adequate slope. This results in areas of blockage and reverse flow.	Health / Safety & Deficiency	1	\$88,048	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
AH-EL-01	Electrical	Art Area Track Lighting Upgrade	Provide improved track lighting in art classrooms 314 and 412.	Improved track lighting desired to provide more accent and project lighting in art rooms.	Enhancement	3	\$4,782	Quantum Cost Estimate	Minor need.	R. Swaim	C
AH-EL-02	Electrical	Baseball Field Lighting Addition	Provide exterior lights at baseball field.	Exterior lights would allow teams to play night games which will expand field availability and improve attendance by parents and umpires.	Enhancement	3	\$320,120	Quantum Cost Estimate	Minor need.	R. Swaim	C
AH-EL-03	Electrical	Business Education Master Switch Addition	Provide master shut-off switch for student computers and monitors in two business education classrooms.	Master shut-off switch needed to allow instructor to control students operational access to computers and to allow computers and monitors to be easily shut off at end of school day.	Enhancement	3	\$9,462	Quantum Cost Estimate	Minor need.	R. Swaim	C
AH-EL-04	Electrical	Ceiling Mounted LCD Projector Addition - Classrooms	Provide ceiling mounted LCD projector and associated AV and power outlets in each classroom with connection to teacher's work station.	Ceiling mounted projectors desired for ease of use, to reduce theft, and to protect equipment and cables from damage.	Enhancement	1	\$1,830,730	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Luke R. Thomas M. Newman P. Harvey R. Swaim	C
AH-EL-05	Electrical	Ceiling Mounted LCD Projector Addition - Conference Rooms	Provide ceiling mounted LCD projector and associated AV and power outlets in three large conference rooms.	Ceiling mounted projectors desired for audio-visual use in conference rooms.	Enhancement	1	\$68,653	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey M. Newman	C
AH-EL-06	Electrical	Data Communications Equipment Upgrade	Upgrade data communications equipment filter, router, switch, traffic shaping and connectivity speed.	Existing filter, router, switch, traffic shaping and connectivity speed do not meet district's minimum standards.	Deficiency	1	\$382,711	ASD Cost Estimate	Minor deficiency.	N. Vien	C
AH-EL-07	Electrical	Data Outlet Additions - Business Education Classrooms	Provide three data outlets each at back wall of two business education classrooms.	Additional data outlets needed to allow teacher's work station to be located at back of classroom.	Enhancement	2	\$9,257	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Swaim	C
AH-EL-08	Electrical	Data Outlet Additions - Commons	Provide 4 data outlets in PAC lobby and 4 at south lunch room.	Data outlets desired for use during special programs and events.	Enhancement	2	\$12,342	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey	C
AH-EL-10	Electrical	Data Outlet Additions - Orchestra / Choral	Provide 6 data outlets in orchestra / choral room.	Data outlets desired for use by students for music composition and for instructional flexibility.	Enhancement	2	\$9,257	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey	C
AH-EL-11	Electrical	Data Outlet Additions - Offices	Provide 4 data outlets in men's PE office 215 and six data outlets each in office areas 105, 117 and 125.	Additional data outlets needed to accommodate existing staff computer equipment.	Deficiency	2	\$33,941	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey B. Kenworthy	C
AH-EL-12	Electrical	Data Outlet Additions - Teacher's Work Station	Provide data outlets for computers and AV equipment at teacher's work station in each classroom.	Classrooms do not have AV outlets at teacher's work station and do not have floor box with data outlets at front of classroom.	Enhancement	1	\$987,360	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Luke M. Newman	C
AH-EL-15	Electrical	Electrical Outlet Additions - Library Computer Lab	Provide 16 additional electrical outlets in library computer lab 304D.	Additional electrical outlets needed to accommodate existing computer equipment.	Deficiency	1	\$16,456	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey	C
AH-EL-16	Electrical	Electrical Outlet Additions - Offices	Provide additional electrical circuits and 6 electrical outlets each in office areas 105, 117 and 125.	Existing office areas 105, 117 and 125 do not have enough electrical outlets for needed office equipment. This causes existing circuits to be overloaded and trip breakers.	Defiance	2	\$18,770	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey B. Kenworthy	C

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AH-EL-17	Electrical	Electrical Outlet Additions - Student Store	Provide additional electrical circuits and 10 electrical outlets student store 602 / 603.	Additional electrical outlets desired to accommodate refrigeration and food preparation equipment used in student store.	Enhancement	2	\$22,370	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey	C
AH-EL-18	Electrical	Electrical Outlet Additions - Theater	Provide additional electrical circuit and 6 electrical outlets in theater lobby.	Existing lobby lacks outlets and electrical capacity for portable equipment used during performances such as coffee makers and foot warmers.	Enhancement	3	\$20,057	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	P. Smith	C
AH-EL-19	Electrical	Electrical Outlet Additions - Wood Shop	Provide additional electrical circuits and 12 electrical outlets in wood shop 713.	Additional electrical outlets needed to accommodate fixed and portable equipment in wood shop.	Enhancement	2	\$24,427	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Swaim	C
AH-EL-20	Electrical	Electronic Readerboard Addition - 4th St. NE	Provide electronic readerboard at 4th St. NE.	Electronic readerboard desired to display school information and announcements. Existing readerboard at Auburn Memorial Stadium at 4th St. NE is an older model with incandescent light fixtures which is energy inefficient and difficult to use because control board is located inside the stadium.	Enhancement	3	\$102,850	Quantum Cost Estimate	Minor need.	B. Kenworthy	C
AH-EL-21	Electrical	Electronic Readerboard Addition - Main Street	Provide electronic readerboard at both sides of existing concrete theater sign at Main Street. Provide full color model with control station in PAC theater office.	Electronic reader board desired to display theater announcements, schedules, and event notices. Existing readerboard for theater requires signage to be changed manually which is inefficient and not suitable for displaying information about theater events.	Enhancement	3	\$174,588	Quantum Cost Estimate	Minor need.	P. Smith	C
AH-EL-22	Electrical	Electrical Service Metering	Provide electronic meter for electrical service connected to energy management system.	Electronic meter will allow remote monitoring of electrical service and improve potential for reducing electrical use.	Operating Cost	1	\$49,883	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
AH-EL-23 ECM-L2	Electrical	Exit Sign Replacement	Replace incandescent and compact fluorescent exit signs with new LED exit signs.	Exit light replacement will reduce energy costs.	Operating Cost	1	\$25,713	Quantum Cost Estimate	Estimated 4-year payback period and not cost effective because of short-term life of facility.	Energy Consultant	C
AH-EL-24 ECM-L4	Electrical	Exterior Lighting Control Upgrade	Connect exterior lighting controls and a new photocell to the EMS.	Exterior lighting control additions will reduce energy costs.	Operating Cost	1	\$38,570	Quantum Cost Estimate	Estimated 5-year payback period and not cost effective because of short-term life of facility.	Energy Consultant	C
AH-EL-25	Electrical	Exterior Lighting Level Improvements	Provide additional illumination at bus area, front entry, delivery area at kitchen, parking lots, and pathways.	Existing exterior lighting lacks adequate illumination levels and is below district's minimum standards.	Health / Safety & Deficiency	1	\$143,579	Quantum Cost Estimate	Minor deficiency.	B. Kenworthy	C
AH-EL-26 ECM-L3	Electrical	Exterior Lighting Upgrade	Replace HID fixtures on the exterior of the building with compact fluorescent. Retrofit parking lot lights with pulse start metal halide or inductive lighting.	HID and parking lot light fixture replacement will reduce energy costs.	Operating Cost	2	\$38,570	Quantum Cost Estimate	Estimated 10-year payback period and not cost effective because of short-term life of facility.	Energy Consultant B. Kenworthy	C
AH-EL-27	Electrical	Gym 907 Sound System Addition	Provide sound system in old gym 907.	Built-in sound system needed in old gym 907 for use during PE classes, athletic events and programs. Existing portable system does not provide adequate sound.	Deficiency	3	\$50,912	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Swaim	C
AH-EL-28	Electrical	Hand Dryer Replacement Addition	Replace electric hand dryers in restrooms and locker rooms.	Existing hand dryer operate properly but sometimes need repair. Some hand dryers have worn surfaces. When hand dryers malfunction they are repaired by maintenance department.	Enhancement	2	\$9,257	Quantum Cost Estimate	Minor need.	R. Swaim	C

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AH-EL-29 ECM-L5	Electrical	HID Lighting Replacement	Replace HID light fixtures in gyms 907 and 912, and auto shop with new fixtures using T-8 or T-5 technology.	Replacement of HID light fixtures with T-8 or T-5 technology will reduce energy costs.	Operating Cost	2	\$128,563	Quantum Cost Estimate	Estimated 7-year payback period and not cost effective because of short-term life of facility.	Energy Consultant	C
AH-EL-30	Electrical	Interior Lighting Level Improvements	Provide additional illumination classrooms, corridors, emergency lighting fixtures, gyms, kitchen, library, restrooms and support spaces.	Existing lighting at building interior lacks adequate illumination levels and is below the district's minimum standards.	Health / Safety & Deficiency	2	\$385,688	Quantum Cost Estimate	Minor deficiency.	B. Kenworthy	C
AH-EL-31	Electrical	Intrusion Alarm Audible Signal Upgrade	Upgrade intrusion alarm system to provide audible alarm.	Use of audible alarm could reduce intrusions and false alarms.	Enhancement	1	\$97,194	Quantum Cost Estimate	Not cost effective.	M. Newman	C
AH-EL-33	Electrical	Library Audio Visual and Electrical Outlet Additions	Provide audio visual and electrical power outlets at two locations in library with connections for cart mounted LCD projector and computer.	Audio visual stations needed in library for audio visual presentations.	Deficiency	3	\$5,143	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey	C
AH-EL-34 ECM-L1	Electrical	Lighting Retrofit - General Buildings	Retrofit T-12 light fixtures, magnetic ballasts, and incandescent fixtures throughout buildings with T-8 fixtures, electronic ballasts and compact fluorescent technology.	Lighting system retrofit throughout buildings will reduce energy costs.	Operating Cost	2	\$449,970	Quantum Cost Estimate	Estimated 6-year payback period and not cost effective because of short-term life of facility.	Energy Consultant	C
AH-EL-36 ECM-L7	Electrical	Occupancy Sensor Lighting Control Addition	Provide occupancy sensors in areas with fluctuating occupancy to turn off lights when the spaces are unoccupied.	Occupancy sensors for lighting control will reduce energy costs.	Operating Cost	2	\$25,713	Quantum Cost Estimate	Estimated 6-year payback period and not cost effective because of short-term life of facility.	Energy Consultant	C
AH-EL-37	Electrical	Softball Field Scoreboard Addition	Provide electronic scoreboard at Fulmer softball field.	Scoreboard needed to display score and game information for softball games.	Deficiency	3	\$100,021	Quantum Cost Estimate	Minor need.	R. Swaim B. Kenworthy	C
AH-EL-38	Electrical	Sound System Addition - Auxiliary Gym	Provide built-in sound system at auxiliary gym.	Built-in system needed for PE classes and events.	Deficiency	3	\$81,767	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
AH-EL-39	Electrical	Sound System Addition - Band Room	Provide built-in sound system at band room.	Existing band room has portable sound system. Built-in system needed for recording and sound transmission.	Deficiency	3	\$46,026	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey	C
AH-EL-40	Electrical	Surveillance Camera Addition	Provide surveillance camera system to monitor parking lots and areas around building with monitoring capability at each administrator's desk.	Existing surveillance camera coverage is minimal. A new surveillance camera system will improve campus supervision and could reduce vandalism and theft.	Enhancement	1	\$164,047	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	M. Newman R. Luke P. Harvey	C
AH-EL-41	Electrical	Telephone System Upgrade	Upgrade telephone system to voice over internet protocol system.	Telephone system upgrade to VoIP system will allow a reduction in telephone lines and reduction in monthly telephone system charges.	Operating Cost	1	\$1,613,747	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey R. Thomas	C
AH-EL-42	Electrical	Television System Addition	Provide cable television system with head end equipment in library and outlet in each classroom, library, theater, and commons.	Cable television system needed for instructional programs, news programs, and special events,	Deficiency	3	\$488,024	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey	C
AH-EL-45	Electrical	Theater Closed Circuit TV System Addition	Provide closed circuit television system with sound feed that shows images of the stage on monitors in the control booth, green room, lobby, and PAC office.	Closed circuit television system with sound feed desired to allow staff and performers to monitor performances from control booth, green room and PAC office, and to allow audience to monitor performance from lobby.	Enhancement	3	\$81,767	Quantum Cost Estimate	Minor need.	P. Smith	C

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AH-EL-46	Electrical	Theater Dimmer System Upgrade	Replace theater dimmer system which controls the house lights, non-dimming lights, work lights and 50 amp circuits at the catwalks.	Existing dimming system is out-dated and past its life expectancy.	Enhancement	3	\$60,168	Quantum Cost Estimate	Minor need.	P. Smith	C
AH-EL-49	Electrical	Theater Lighting Board Upgrade	Replace lighting control board.	Existing lighting control board is adequate and in good condition but will exceed its life expectancy within 10 years. A new control board will also have new technology and provide enhanced lighting control.	Enhancement	2	\$62,225	Quantum Cost Estimate	Improvements have been completed.	P. Smith	C
AH-EL-51	Electrical	Theater Lobby Sound System Upgrade	Provide new sound system in theater lobby.	Existing sound system is old and has poor sound quality. An improved sound system could be used during school day and during theater events.	Enhancement	3	\$57,853	Quantum Cost Estimate	Minor need.	P. Smith	C
AH-EL-53	Electrical	Theater Sound Board Upgrade	Replace sound control board.	Existing sound control board is adequate and in good condition but will exceed its life expectancy within 10 years. A new control board will also have new technology and provide enhanced sound control.	Enhancement	3	\$117,764	Quantum Cost Estimate	Improvements have been completed.	P. Smith	C
AH-EL-55	Electrical	Electrical Panel Upgrade	Replace fuse-type electrical panels that are present in some areas with circuit breaker panels.	Some existing electrical panels utilize fuses rather than circuit breakers. These are more expensive to maintain and do not meet district's minimum standards.	Deficiency	2	\$37,747	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
AH-EL-56	Electrical	Emergency Generator Replacement	Replace emergency generator with new model that includes a sound attenuation enclosure.	Existing emergency generator is in poor condition, not reliable, requires frequent maintenance, and is noisy.	Health / Safety & Deficiency	1	\$808,658	Quantum Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
AH-MD-03	Modernization	Audio Lab Window and Door Additions	Provide interior relite window and door with sound seal at audio room 700C.	Relite window needed between audio room 700C and visual communications classroom 700 to allow visual supervision of audio room from viscom classroom. Door with sound seal needed to allow recording to occur in audio room without noise from adjacent viscom classroom.	Deficiency	2	\$7,149	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Swaim B. Kenworthy	C
AH-MD-05	Modernization	Building Appearance Upgrade	Improve appearance of interior and exterior of buildings.	School does not have a prominent front entry and has a poor quality, worn, dated and unattractive appearance on the interior and exterior.	Deficiency	2	\$8,116,954	BLRB Cost Estimate	Not cost effective.	M. Newman T. Cummings	C
AH-MD-08	Modernization	Career Center Modernization	Modernize career center in room 128 to provide an office for career counselor, storage closet, and data and power outlets for 15 student computers.	Existing career center does not have an office for career counselor for secure storage of records and to meet with students, does not have a storage closet for secure storage of standardized test material, and does not have adequate outlets needed for student computer stations.	Deficiency	1	\$136,252	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey B. Kenworthy	C
AH-MD-10	Modernization	Classroom Addition	Provide 12 additional classrooms to replace portable classrooms.	Existing school is 282,093 SF, not counting portable classrooms, and exceeds district's recommended size standard by 87,093 SF. Construction of additional permanent classrooms desired to replace 12 portable classrooms.	Enhancement	1	\$6,380,351	BLRB Cost Estimate	Minor need.	P. Harvey L. Cowan	C
AH-MD-12	Modernization	Clothing / Child Development Modernization	Modernize clothing / child development classroom 130 to provide dressing room with mirror, 14 built-in sewing cabinets, sink with counter work space, and 6 student computer stations.	Existing clothing / child development class uses a standard classroom that does not provide the features needed for the instructional program.	Deficiency	2	\$215,356	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Swaim P. Harvey	C



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AH-MD-14	Modernization	Computer Lab Modernization	Provide computer lab that is close to building entry and convenient for after-school use.	Existing computer labs are on second floor and not convenient for after-school use by community members and evening classes.	Enhancement	2	\$175,950	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey	C
AH-MD-18	Modernization	Covered Courtyard Area Addition	Provide covered area in a student courtyard.	Covered area desired to provide an outdoor area for students to use during lunch time that is protected from rain.	Enhancement	3	\$113,137	BLRB Cost Estimate	Minor need.	P. Harvey	C
AH-MD-19	Modernization	Custodial Room Modernizations	Provide dedicated custodial rooms with protective wainscot, adequate ventilation and separate from electrical panels.	Existing custodial rooms are also used for storage and a maintenance office, do not have wainscot to protect walls from cart damage, and have poor ventilation. Some custodial rooms have electrical panels which can be blocked by carts and should not be in same room with custodial mop sinks.	Health / Safety & Deficiency	1	\$174,531	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
AH-MD-24	Modernization	Drama Classroom Modernization	Provide two small dressing rooms, make-up mirror with counter, and sink in drama classroom 139.	Existing drama classroom needs dressing rooms for changing costumes and a mirror with counter and sink for make-up application done as part of drama program.	Deficiency	3	\$25,170	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey	C
AH-MD-25	Modernization	Drama Office Addition	Provide a 100 SF office with relites in a drama classroom 139.	An office is desired in the drama classroom to allow the instructor's computer equipment and work area to be secured when classroom is used as a green room by community organizations.	Enhancement	3	\$18,328	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
AH-MD-26	Modernization	Elevator Addition	Provide an elevator for access to the second floor gymnasium area.	Existing second floor gymnasium area, rooms 901-904, does not have elevator access. This restricts access by the disabled students and event spectators.	Deficiency	1	\$273,822	BLRB Cost Estimate	Minor deficiency.	ADA Consultant B. Kenworthy	C
AH-MD-27	Modernization	Elevator Upgrade	Replace existing elevator serving 100 / 200 unit with newer equipment, a larger cab and an ADA compliant elevator door.	Existing elevator at the 100 / 200 unit does not operate reliably and is past life expectancy. Larger cab desired for improved access for maintenance carts and equipment. Existing elevator door is 32" wide and does not meet ADA requirement of 36".	Deficiency	2	\$122,188	BLRB Cost Estimate	Minor deficiency.	P. Harvey R. Thomas B. Kenworthy	C
AH-MD-28	Modernization	Exterior Window Additions	Provide exterior windows at main gym, auxiliary gyms 906 and 912, metals shop 712 and wood shop 713.	Existing rooms do not have exterior windows and exposure to daylight.	Enhancement	3	\$184,630	BLRB Cost Estimate	Minor need.	P. Harvey	C
AH-MD-29	Modernization	Exterior Window Upgrade	Provide larger exterior windows at 19 classrooms.	Existing windows at classrooms 220-229, 700-702, 704-707, 806 and 810 do not meet district's minimum standard to 48 SF of exterior window.	Deficiency	1	\$168,443	BLRB Cost Estimate	Not cost effective.	B. Kenworthy	C
AH-MD-30	Modernization	Foods Classroom Modernization	Provide two additional cooking stations at foods classroom (with one of the stations ADA compliant), evacuation exhaust system with manual control timer, and washer / dryer alcove with electrical power and dryer exhaust vent.	Existing foods classroom does not meet district's standards and needs additional features to meet program needs.	Deficiency	1	\$42,033	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey B. Swaim B. Kenworthy	C

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AH-MD-32	Modernization	Greenhouse Improvements	Provide concrete floor slab with floor drains, laundry sink, motorized shade system, new misting equipment, data outlet, and computerized control of HVAC system at greenhouse.	Existing greenhouse needs concrete slab rather than gravel for a cleanable and ADA accessible work area, laundry sink for washing equipment and materials, motorized shade system for sun control, mist systems to replace non-operable equipment, data outlet for computer and POS work, and computerized control of heating and ventilation system to allow HVAC control from horticulture office.	Deficiency	2	\$149,070	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey B. Kenworthy	C
AH-MD-33	Modernization	Greenhouse Replacement	Replace greenhouse with new 2,400 SF unit with a laundry tub sink, concrete slab, computerized HVAC system, sunscreen, and irrigation and misting systems.	Existing greenhouse meets district's size standards but is in marginal condition and lacks features needed to effectively operate horticulture program.	Enhancement	2	\$835,548	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Thomas	C
AH-MD-36	Modernization	Kitchen Equipment Upgrade	Replace convection ovens, dishwashers, and refrigeration systems at walk-in cooler and freezer in kitchen.	Existing dishwashers and convection ovens past life expectancy. Refrigeration systems at walk-in cooler and freezer malfunction and cause ice build up.	Enhancement	1	\$114,857	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Swaim	C
AH-MD-39	Modernization	Kitchen Walk-in Cooler and Freezer Expansion	Provide larger walk-in cooler and freezer in kitchen.	Existing walk-in cooler and freezer are undersized. More space is needed to accommodate cold food storage.	Deficiency	1	\$164,953	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Swaim B. Kenworthy	C
AH-MD-48	Modernization	Metals Shop Modifications	Remove, add and relocate metal shop equipment to better match instructional program, improve safety and supervision. Modify storage systems in storage rooms to improve efficiency.	Additional space needed between welding and machining work areas. Additional wire feed and welding stations needed. A computer station needed with connection to CNC machine. Unused equipment should be removed to provide space for other equipment and better supervision. Storage room modifications needed to improve storage capabilities.	Deficiency	1	\$494,576	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Swaim	C
AH-MD-49	Modernization	Music Library Addition	Provide music library.	Music library desired to provide a dedicated space for storage of sheet music. Existing music files stored in music equipment room with inconvenient access.	Enhancement	2	\$36,657	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey	C
AH-MD-50	Modernization	Music Practice Room Modernization	Relocate small practice rooms and provide two medium size music practice rooms.	Existing small practice rooms are located in a main corridor that is accessible to all students and difficult to supervise from band and orchestra / choral room. Two medium size practice rooms needed for use by band and orchestra students.	Deficiency	2	\$53,851	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey B. Kenworthy	C
AH-MD-51	Modernization	Office Interior Window Additions	Provide interior relite windows at offices where these are not present.	Some offices do not have interior relite windows needed to provide a visual connection to adjacent space or corridor.	Deficiency	2	\$99,544	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
AH-MD-53	Modernization	PE Staff Locker Room Modernization	Modernize men's PE staff locker room to eliminate one shower, add lockers, improve ventilation, and provide ADA compliant toilet stall.	Existing men's PE staff locker room is of adequate size but needs modernization to meet district's standards.	Deficiency	1	\$73,313	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey	C

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AH-MD-56	Modernization	Science Room Modernizations	Expand and modernize four science classrooms. Modernize two science rooms within existing space.	Four existing science rooms are undersized and do not include work stations, cabinets, equipment, plumbing fixtures and electrical systems that meet district's standards. Two additional science rooms are adequate size but do not include work stations, cabinets, equipment, plumbing fixtures and electrical systems that meet district's standards.	Deficiency	1	\$3,384,838	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
AH-MD-58	Modernization	Skylight Additions	Provide skylights at 5 classrooms.	Existing classrooms 304D, 306, 308, 310 and 312 do not have exterior windows and exposure to daylight. Window addition not feasible because these are interior spaces.	Enhancement	1	\$125,853	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey	C
AH-MD-60	Modernization	Softball Storage Shed Addition	Provide storage shed at softball field located at Fulmer Park.	Existing softball field used by the school does not have a storage shed for team and field equipment.	Deficiency	1	\$35,894	BLRB Cost Estimate	Minor deficiency,	B. Kenworthy	C
AH-MD-61	Modernization	Special Education Restroom Addition	Provide restroom in special education classroom unit 700 with changing table and sink within restroom.	Restroom needed for diaper changing and for direct access by and supervision of students.	Deficiency	1	\$118,670	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey M. Newman J. Trauffer	C
AH-MD-63	Modernization	Special Education 18-21 Transitional Program Addition	Provide a dedicated and independent space for a special education transitional program for students 18-21 years old.	A dedicated space on campus is needed for instruction and training of 18-21 year old special education students. This space requires student and staff areas that are not available in the current school.	Deficiency	1	\$0	BLRB Cost Estimate	Cost included in AH-NW-01.	K. Herren J. Trauffer M. Newman	C
AH-MD-64	Modernization	Special Education Testing Room Additions	Provide testing rooms in each special education classroom.	Testing rooms needed to provide a quiet space for individual students and for a student to work one-on-one with and aid or teacher.	Deficiency	1	\$82,785	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey J. Trauffer	C
AH-MD-65	Modernization	Sports Medicine Classroom Modernization	Modify and existing standard classroom close adjacent to training room to provide sports medicine classroom that meets district's standards.	Existing sports medicine classroom is undersized and does not have features needed for the instructional program and identified in district's standards. Classroom needs to be adjacent to training room with relite windows between to allow students to work in both areas with visual supervision by instructor of both rooms.	Deficiency	1	\$98,908	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Swaim B. Kenworthy	C
AH-MD-67	Modernization	Staff Telephone Room Addition	Provide two telephone rooms in staff lounge for staff use.	Existing lounge has telephone booths that are open to the lounge area that do not provide privacy are not ADA compliant.	Deficiency	2	\$14,663	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey	C
AH-MD-69	Modernization	Student Restroom Modernization	Modernize student restrooms to replace out-dated and inefficient plumbing fixtures, replace old toilet partitions and restroom accessories, provide wainscot at walls, improve room finishes and appearance, enhance ventilation system, and make ADA compliant.	Existing student restrooms are old and need improved fixtures, accessories, surfaces and appearance, and need to be fully ADA compliant.	Deficiency	1	\$1,407,109	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey M. Newman B. Kenworthy	C

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AH-MD-70	Modernization	Student Store Modernization	Modernize student store area to combine separate rooms 602 and 603 into a single store that has additional and more organized cashier stands, code compliant sinks, and meets district's standards. Replace one-way glass at window to adjacent office with standard glass.	Size of existing student store area exceeds district's recommended standard but needs re-configuration to operate more efficiently, meet district's standards, and to comply with health department code. Existing one-way glass not needed.	Deficiency	2	\$130,436	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey R. Swaim	C
AH-MD-73	Modernization	Theater Lobby Restroom Addition	Provide additional women's restroom facilities at theater lobby that includes 14 additional water closets.	Existing men's restroom facilities meet current need and current code. Fourteen additional toilet stalls needed for women to accommodate theater users during intermission and to meet current building code.	Health / Safety & Deficiency	3	\$67,006	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Smith	C
AH-MD-74	Modernization	Theater Lobby Vending Machine Enclosures	Provide alcoves with motorized coiling doors to enclose vending machines in theater lobby.	Vending machine enclosures needed to close vending machines from use during theater events and other after-school activities.	Deficiency	3	\$25,660	BLRB Cost Estimate	Minor need.	P. Smith	C
AH-MD-77	Modernization	Theater Technician's Office Addition	Provide a 100 SF office in theater workroom 609 for theater technician.	Theater technician currently has a work desk area in theater workroom. A dedicated space for technician's office needed to provide a secure area that can be closed off from workroom activities.	Deficiency	2	\$18,328	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
AH-MD-78	Modernization	Training Room Modernization	Modernize training room to provide larger space that is located adjacent to sports medicine classroom and meets district's standards.	Existing training room meets district's minimum size standard but is 250 SF smaller than recommended standard. Existing room lacks features identified in district's standards and is an interior space without relite windows to corridor for supervision.	Deficiency	1	\$100,062	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Swaim B. Kenworthy	C
AH-MD-79	Modernization	Vending Machine Alcove Addition	Provide alcove with electrical power for two vending machines in gym lobby area.	Alcove needed to allow placement of vending machines in a dedicated location. Existing vending machines in gym area are located in lobby circulation area.	Deficiency	3	\$27,860	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C
AH-MD-80	Modernization	Video Lab Interior Window Addition	Provide an interior relite window between video lab and adjacent visual communications classroom.	Interior window desired between video lab and viscom classroom to allow instructor to visually supervise students in video lab.	Enhancement	2	\$7,149	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	R. Swaim	C
AH-MD-82	Modernization	Women's Staff Locker Room Modernization	Provide larger PE women's staff locker room that has 20 lockers and is ADA compliant.	Existing PE women's staff locker room is undersized by 75 SF and 29% smaller than district's minimum standard. Existing room needs more lockers for general staff use and is not ADA compliant.	Deficiency	1	\$127,014	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	B. Kenworthy	C

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AH-MD-83	Modernization	Campus Modernization - Scenario #1 - Partial Demolition - 1800 Students	Modernize campus by demolishing 300/400 unit, 500 unit, 1950-1979 infill area. Provide major modernization of 1950 building, minor modernization of 1979 main gym and theater buildings, and minimal improvements at 1986 auto shop building. Provide new building to replace a portion of the demolished spaces for a permanent capacity of 1,800 students. Provide site improvements to address current deficiencies.	Existing 300/400 unit, 500 unit and 1950-1979 infill areas are not cost effective to modernize because of structural condition, program deficiencies and facility component deficiencies. 1950 building needs major modernization improvements to correct program area and facility component deficiencies. Minor modernization improvements needed at 1979 buildings to address facility component deficiencies. New building needed to replace spaces that are being demolished. Site improvements needed to correct program and facility component deficiencies.	Health / Safety & Operating Cost & Deficiency	3	\$83,254,117	BLRB Cost Estimate	Not cost effective because of the marginal condition and cost to modernize of the 100 / 200 unit.	P. Harvey M. Newman R. Swaim R. Thomas B. Kenworthy	C
AH-MD-84	Modernization	Campus Modernization - Scenario #2A - Major Demolition and 4th St. Addition - 1800 Students	Modernize campus by demolishing all buildings except main gym area, theater area and auto shop. Provide minor modernization of main gym and theater areas. Provide minimal improvements at auto shop. Provide new building facing 4th St. NE to replace a portion of the demolished spaces for a permanent capacity of 1,800 students. Provide site improvements to address current deficiencies.	Existing 300/400 unit, 500 unit and 1950-1979 infill areas are not cost effective to modernize because of structural condition, program deficiencies and facility component deficiencies. 1950 building is not cost effective to modernize because of program area and facility component deficiencies. 1979 buildings need modernization and should be demolished and replaced, except main gym and theater areas, to allow the spaces to be relocated to provide overall campus improvements needed to correct program deficiencies. New building facing 4th St. NE should be added to replace spaces that are being demolished. Construction of new building facing 4th St. NE will allow it to be integrated with main gym and theater while preserving existing site features at south side of site along Main St. NE. Site improvements needed to correct program and facility component deficiencies.	Health / Safety & Operating Cost & Deficiency	2	\$100,253,083	BLRB Cost Estimate	Not cost effective because the modernized facility will be limited to a 20 acre site.	P. Harvey M. Newman R. Swaim R. Thomas B. Kenworthy	C
AH-MD-85	Modernization	Campus Modernization - Scenario #2B - Major Demolition and Main St. Addition - 1800 Students	Modernize campus by demolishing all buildings except main gym area, theater area and auto shop. Provide minor modernization of main gym and theater areas. Provide minimal improvements at auto shop. Provide new building facing 4th St. NE to replace a portion of the demolished spaces for a permanent capacity of 1,800 students. Provide site improvements to address current deficiencies.	Existing 300/400 unit, 500 unit and 1950-1979 infill areas are not cost effective to modernize because of structural condition, program deficiencies and facility component deficiencies. 1950 building is not cost effective to modernize because of program area and facility component deficiencies. 1979 buildings need moderate modernization and should be demolished and replaced, except main gym and theater areas, to allow the spaces to be relocated to provide overall campus improvements needed to correct program deficiencies. New building facing Main St. NE should be added to replace spaces that are being demolished. Construction of new building facing Main St. NE will make it easier to phase construction work while school remains in use and may provide space for athletic field. Site improvements needed to correct program and facility component deficiencies.	Health / Safety & Operating Cost & Deficiency	1	\$102,599,083	BLRB Cost Estimate	Not cost effective because the modernized facility will be limited to a 20 acre site.	P. Harvey M. Newman R. Swaim R. Thomas B. Kenworthy	C

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AH-MD-87	Modernization	Activities / Attendance / Commons / Counseling / Main Office / Staff Restrooms / Telecommunications / Theater Office Modernization & Additions	Modernize activities area, attendance area, counseling area, health area, main office, and security office. Modernize and expand commons, record storage, telecommunications rooms, theater office and staff restrooms 121, 122, 166, 167.	See Improvement Justifications for AH-MD-01, 02, 13, 17, 34, 44, 47, 55, 57, 66, 71 and 75.	Deficiency & Enhancement	2	\$3,408,809	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey R. Thomas B. Kenworthy M. Newman P. Smith ADA Consultant	C
AH-MD-88	Modernization	Maintenance Areas / Staff Restroom Modernizations	Modernize maintenance office, maintenance storage, receiving room and staff restrooms 153 and 154.	See Improvement Justifications for AH-MD-45, 46, 54 and 66.	Deficiency	2	\$646,785	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey B. Kenworthy M. Newman ADA Consultant	C
AH-MD-89	Modernization	Graphics Computer Lab / Library / Lift Storage / OT-PT / SLC / Staff Restrooms / Visual Communications Modernizations & Additions	Provide graphics computer lab, OT / PT room, and structured learning classroom area. Modernize darkroom, library, and visual communications. Modernize and expand staff restrooms 324 and 325.	See Improvement Justifications for AH-MD-20, 31, 41, 42, 52, 62, 66 and 81.	Deficiency & Enhancement	2	\$5,054,095	BLRB Cost Estimate	Not cost effective because of short-term life of facility.	P. Harvey J. Trauffer B. Kenworthy M. Newman R. Swaim ADA Consultant	C
AH-MD-90	Modernization	Outdoor Concession, Restrooms and Storage Shed Additions	Provide an outdoor concession stand, public restroom and tennis equipment storage shed by the baseball field and tennis courts.	See Improvement Justifications for AH-MD-15 and 72.	Deficiency & Enhancement	2	\$336,015	BLRB Cost Estimate	Minor deficiency.	P. Harvey B. Kenworthy R. Swaim	C
AH-MD-91	Modernization	Portable Classroom Removal	Remove 12 portables from school campus.	Existing portable classrooms are in poor condition and are unattractive. Existing school is 87,093 SF larger than district's recommended standard and has enough classrooms to accommodate enrollment without portable classrooms.	Enhancement	1	\$92,467	BLRB Cost Estimate	Minor deficiency.	P. Harvey	C
AH-SI-04	Site	Backstop / Dugout Removal	Remove chainlink backstop and dugouts at northeast corner of baseball field.	Existing backstop and dugout at northeast corner of baseball field are not needed and are no longer usable because of the addition of outfield fence.	Enhancement	NA	NA	No Cost Estimate	Completed by AHS Baseball Club.	R. Thomas	NA
AH-SI-06	Site	Baseball Field Fence Addition	Provide fence at baseball field outfield.	Outfield fence desired to provide a home run fence and to contain balls hit into outfield.	Enhancement	NA	NA	No Cost Estimate	Completed by AHS Baseball Club.	M. Newman	NA
AH-SI-13	Site	Delivery Area Improvements	Improve delivery access and loading, and eliminate conflicts with other site activities.	Primary delivery and dumpster area is located next to the kitchen and within the campus where students walk between buildings and special education buses load. Delivery access to PAC and east dumpsters is also located within the campus and conflicts with students. These are unsafe situations that create congestion for delivery and refuse vehicles, students and special education buses. No designated delivery parking area at front entry. This requires delivery trucks to park in bus loading zone. Access roads serving delivery areas are narrow and have minimum space for vehicles to turn around.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in AH-MD-83, 84 and 85.	P. Harvey	NA
AH-SI-18	Site	Exterior Bleacher Upgrade	Provide additional exterior bleachers and add safety railings to existing bleachers at baseball field.	Existing bleacher quantity exceeds district's recommended standard. Existing bleachers do not have safe railing but are low and only 5 rows high.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency.	R. Swaim	NA

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AH-SI-23	Site	Pipe Rail Gate Improvement	Provide reflective tape on pipe rail vehicle gates.	Existing pipe rail gates do not have reflective tape and can be difficult to see at night.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Kenworthy	NA
AH-SI-27	Site	Softball Field Addition	Provide softball field on school premises with storage shed.	School does not have a softball field on the premises for use by PE classes and softball team. Softball team must walk three blocks to parks department field for practices and games. Storage shed needed for softball field and team equipment.	Deficiency	NA	NA	No Cost Estimate	Not feasible because there is not adequate space available on or adjacent to the school property to accommodate a softball field.	P. Harvey	NA
AH-SI-28	Site	Staff Parking Consolidation	Provide a single staff parking lot with adequate lighting and located on school property with capacity for the entire staff.	Existing number of staff parking stalls meets district's standards but have poor lighting and are located in 8 separate parking areas with one parking area across the street from the school.	Enhancement	3	NA	BLRB Cost Estimate	Costs included in AH-MD-83, 84 and 85.	P. Harvey B. Kenworthy	NA
AH-SI-29	Site	Staff Parking Access Improvements	Improve pedestrian access and exterior lighting at staff parking lots.	Existing number of staff parking stalls meets district's standards but are located in three separate parking areas with inadequate exterior lighting. One parking area is across the street from the school.	Deficiency	NA	NA	No Cost Estimate	Parking lot access is a minor deficiency. Exterior lighting improvements included in AH-EL-25.	P. Harvey	NA
AH-SI-32	Site	Student Pick Up / Drop Off Addition	Provide on-site area for 20 to 30 vehicles to pick up and drop off students.	Existing school does not have an area on-site for student pick up and drop-off. This causes students to be picked up and dropped off in the street which interferes with traffic and creates a potential security hazard.	Deficiency	2	NA	BLRB Cost Estimate	Costs included in AH-SI-09.	P. Harvey	NA
AH-SI-39	Site	Natural Gas Service Line Replacement	Replace existing natural gas service lines.	Existing natural gas service lines do not comply with current regulations and create a potential safety risk.	Health / Safety & Enhancement	NA	NA	No Cost Estimate	Further investigation confirmed existing gas line in compliance with current regulations.	R. Thomas	NA
AH-SI-40	Site	Sanitary Sewer Line Replacement	Replace sections of sanitary sewer line that are in poor condition or have inadequate slope.	Portions of existing sanitary sewer lines are in poor condition and some areas lack adequate slope. This results in areas of blockage and reverse flow.	Deficiency	1	NA	Quantum Cost Estimate	Costs included in AH-ME-69.	R. Thomas	NA
AH-SI-41	Site	Storm Line Replacement	Replace sections of storm drain lines that are in poor condition or are undersized.	Portions of existing storm drain lines are in poor condition and some lines are undersized. This results in storm water back up during heavy rains especially in theater loading dock area.	Deficiency	1	NA	Quantum Cost Estimate	Costs included in AH-ME-61.	R. Thomas	NA
AH-ST-04 1950A-SR4	Structural	1950 Library Roof Diaphragm Improvements	Install plywood sheathing over existing roof sheathing. Add shear walls at the east and west sides of the original 1950 library.	New plywood sheathing and shear walls will decrease the diaphragm spans and eliminate the stepped diaphragm at the pop-up roof.	Deficiency	NA	NA	PCS Cost Estimate	Costs included in AH-ST-02.	Structural Engineer	NA
AH-ST-07 1950B-SR3	Structural	1950 Gym Roof Nailing	Provide 8d nailing at 6" on center at the gym roof structure to transfer loads to shear walls at 1950 gym building.	Nailing can be addressed when roof is replaced.	Deficiency	NA	NA	PCS Cost Estimate	Minor deficiency that can be addressed in future when roof is replaced.	Structural Engineer	NA
AH-EX-02	Exterior	Auto Shop Door Seal Replacement	Replace coiling door seal at auto shop engine cleaning room 812.	Door seal at coiling door is deteriorated and allows water to enter the room.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	R. Swaim	NA
AH-EX-03	Exterior	Building Insulation Additions	Provide additional insulation at exterior walls and roofs.	Most exterior walls and roofs do not have insulation meeting district standards. Adding insulation would be difficult because lack of cavity space.	Operating Cost	NA	NA	No Cost Estimate	Not cost effective.	R. Thomas	NA

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AH-EX-05	Exterior	Door Frame Removable Mullion Additions	Modify or replace exterior metal door frames at double doors to provide removable center mullions.	Removable mullions are desired for ease of moving furniture and equipment in and out of building.	Enhancement	NA	NA	No Cost Estimate	Not cost effective.	R. Thomas	NA
AH-EX-07	Exterior	Exterior Door and Frame Upgrade	Replace exterior wood doors and frames with hollow metal doors and frames.	Some existing exterior doors and frames are wood and do not meet district's standard for hollow metal.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency. Wood exterior doors only present at portable classrooms.	B. Kenworthy	NA
AH-EX-08	Exterior	Exterior Painting	Paint building exterior.	Existing exterior paint is in fair condition.	Enhancement	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Thomas	NA
AH-EX-09	Exterior	Exterior Plaster Maintenance	Inspect exterior stucco plaster walls, repair cracks, clean surface and apply waterproof sealer.	Existing stucco plaster walls have cracked in areas that need repair. All stucco walls need an application of waterproof sealer to protect walls from moisture penetration.	Deficiency	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Thomas	NA
AH-EX-11	Exterior	Exterior Window Upgrade - Dual Glazing and Integral Blinds	Replace all single and dual-glazed windows with dual-glazed windows with integral blinds.	Integral blinds will reduce damage to and maintenance of window blinds.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency and not cost effective.	R. Thomas	NA
AH-EX-13	Exterior	Roof Upgrade - Metal	Provide pitched metal roofs over existing buildings.	Existing buildings have low-slope roofs with built-up or single-ply roofing. Existing roofing in good condition. Pitched metal roofs would reduce maintenance costs but would be difficult to install because of existing building configurations and roof top mounted equipment.	Enhancement	NA	NA	No Cost Estimate	Not cost effective.	R. Thomas	NA
AH-IN-13	Interior	Ceiling Tile Replacement	Replace suspended ceiling panels that are stained or damaged.	Some existing suspected ceiling tile throughout the building are stained or damaged.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Kenworthy	NA
AH-IN-24	Interior	Interior Painting	Paint building interior.	Existing paint is in fair condition and has unattractive colors in some areas.	Enhancement	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	P. Harvey R. Thomas B. Kenworthy	NA
AH-IN-39	Interior	Wood Trim Repair	Repair areas of damaged wood trim and window sills.	Some areas of wood trim and window sills are scratched and gouged.	Enhancement	NA	NA	No Cost Estimate	Maintenance item. Extend to damage is minor.	R. Thomas	NA
AH-EQ-14	Equipment	Library Media Security System Upgrade	Provide new library media security system.	Existing media security system in library is old and not accessible by all staff members.	Deficiency	1	NA	ASD Cost Estimate	New system installed last year per librarian Sherri Bowe.	P. Harvey	NA
AH-EQ-16	Equipment	Main Gym Bleacher Repair	Inspect and repair damaged parts on bleachers in main gym.	Existing bleachers need complete inspection and repair or replacement of damaged parts.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	R. Swaim	NA
AH-EQ-19	Equipment	Staff Workroom Equipment Addition	Provide an additional small copy machine for self-service photocopying.	A second self-service copy machine desired for staff use.	Enhancement	NA	NA	No Cost Estimate	Obtained as leased equipment.	P. Harvey	NA
AH-EQ-22	Equipment	Theater Office Equipment Upgrade	Provide new LCD projector, lap top computer, 3 desktop computers, laser printer, fax / copy machine.	Existing office equipment and portable LCD projector are adequate but will exceed life expectancy within 5 years.	Enhancement	NA	NA	No Cost Estimate	Obtained with Technology Levy funds.	P. Smith	NA
AH-ME-07	Mechanical	Auto Shop Compressor Replacement	Replace two compressors in auto shop.	Compressors are wearing out and have difficulty maintain pressure for vehicle hoists.	Deficiency	NA	NA	No Cost Estimate	Completed by Maintenance Department.	R. Swaim	NA



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AH-ME-48	Mechanical	Refrigerant Piping Modification	Modify refrigerant piping serving walk-in cooler and freezer.	Existing refrigerant piping, which is located in walls and above ceilings, is causing condensation within these spaces.	Deficiency	NA	NA	No Cost Estimate	Completed by Maintenance Department.	R. Thomas	NA
AH-ME-50	Mechanical	Roof Mounted Equipment and Ductwork Replacement	Replace existing roof mounted mechanical equipment and ductwork with equipment and ductwork within building.	Existing roof mounted ,equipment and ductwork has exposure to weather creating premature wear and potential for indoor air quality problems.	Deficiency	NA	NA	No Cost Estimate	Not cost effective because of existing building constraints.	R. Thomas B. Kenworthy	NA
AH-ME-64 ECM-W1	Mechanical	Water Retrofit Review	Review water saving opportunities including retrofit or replacement of sinks, wash fountains, urinals and water closets.	Plumbing fixture upgrades will reduce maintenance and utility costs.	Operating Cost	1	NA	Quantum Cost Estimate	Costs included in AH-ME-47.	Energy Consultant	NA
AH-EL-09	Electrical	Data Outlet Additions - General Classrooms	Provide one or two more data outlets in general classrooms for student use.	Classrooms have 4 or 5 data outlets for student use and district's standards identify 6 outlets.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency. Outlets can be added by district using splitter and existing data wiring.	P. Harvey B. Kenworthy	NA
AH-EL-14	Electrical	Electrical Outlet Additions - Classrooms	Provide one or two additional electrical outlets at the student computer area in classrooms where there are less than 6 outlets.	Some classrooms have 4 or 5 electrical outlets at the student computer area and district's minimum standard identifies 6 outlets.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency.	B. Kenworthy	NA
AH-EL-32	Electrical	Intrusion Alarm System Improvements	Improve intrusion alarm system to reduce false alarms.	Existing intrusion alarm system operates properly with false alarms caused by occasional failure of sensors and frequently caused by occupants entering protected areas without disabling the system.	Enhancement	NA	NA	No Cost Estimate	Replacement of faulty sensors a maintenance item. Reduction in false alarms caused by occupants is a building operation item.	P. Harvey	NA
AH-EL-43	Electrical	Theater Audio Visual Outlet Additions	Provide audio visual outlet on stage connected to outlet in control booth to allow computer on stage to display images on LCD projector in control booth.	Audio visual outlets needed to allow presentations controlled from the stage to be projected on a screen with an LCD projector.	Enhancement	NA	NA	No Cost Estimate	Completed by Maintenance Department.	P. Smith	NA
AH-EL-44	Electrical	Theater Circuit Breaker Maintenance	Provide inspection and maintenance of main 800 amp circuit breaker in theater workroom and 50 amp circuit breakers at catwalks.	Existing 800 amp circuit breaker in workroom generates excessive heat and makes abnormal noise. Existing 50 amp circuit breakers at catwalk are old and may need replacement.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	P. Smith	NA
AH-EL-47	Electrical	Theater Electrical Circuit Maintenance	Inspect and provide needed maintenance and replacement of the lighting system circuitry and cabling.	Existing lighting system circuits and cabling and 28 years old and should have a thorough inspection and maintenance upgrade as needed to correct any deficiencies discovered.	Enhancement	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	P. Smith	NA
AH-MD-01	Modernization	Activities Area Modernization	Modernize activities area to locate adjacent bookkeeper, provide larger offices for activities and athletic directors, and provide activities storage room.	Existing activities area needs to be located near main office and adjacent to bookkeeper's office because of common work and financial transactions. Existing offices for activities and athletic director's undersized and a storage space for supplies and materials not provided.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in AH-MD-87.	P. Harvey B. Kenworthy	NA
AH-MD-02	Modernization	Attendance Area Modernization	Modernize attendance area to provide a dedicated reception area, larger secretary area, more organized work area, and locate adjacent to counseling area.	Existing attendance area does not have a reception area which requires students to stand in corridor for assistance which interferes with student using corridor. Secretary's work area is undersized and inefficiently organized. Attendance office has frequent contact with counselors but is not located near counseling area.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in AH-MD-87.	P. Harvey	NA

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AH-MD-04	Modernization	Band Storage Room Expansion	Provide additions space for storage of band equipment and uniforms.	Existing band storage room is undersized by 122 SF and 40% smaller than district's minimum standard.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency because there are two additional small storage rooms in band room.	P. Harvey	NA
AH-MD-06	Modernization	Building Enclosure Modernization	Provide access to all parts of building within enclosed space.	School consists of separate buildings connected by covered walkways. This inhibits supervision and building security, requires students and staff to go outdoors to travel between buildings, and does not meet district's minimum standards.	Deficiency	NA	NA	No Cost Estimate	Not cost effective because of existing building locations.	P. Harvey B. Kenworthy	NA
AH-MD-07	Modernization	Campus Access and Security Improvements	Modify buildings and campus configuration to provide prominent main entry, fewer and more secure campus entry points, greater ability to visually supervise campus, and fewer conflicts with passenger and delivery vehicles.	Existing buildings are spread out over a large area without a prominent main entry for visitors. Existing campus has multiple entries which inhibits building security and supervision. Student circulation areas conflict with some of the staff parking areas, delivery areas for kitchen and PAC, dumpster pick-up areas, and special education bus area. This creates conflicts and potential safety hazards.	Deficiency	1	NA	BLRB Cost Estimate	Costs included in AH-MD-83, 84 and 86.	P. Harvey	NA
AH-MD-09	Modernization	Ceiling Height Improvements	Provide higher ceilings in some classrooms, corridors and kitchen.	Some ceilings are lower than 9' in classrooms, 9'-6" in corridors, and 10' in kitchen. These low ceilings create confining spaces, are vulnerable to damage and do not meet district's minimum standards.	Deficiency	NA	NA	No Cost Estimate	Not cost effective because of existing building constraints.	B. Kenworthy	NA
AH-MD-11	Modernization	Classroom Size Expansion	Provide 18 larger standard classrooms.	Larger standard classrooms desired to better accommodate 30 students. Eighteen existing standard classrooms are smaller than the district's minimum standard of 840 SF.	Deficiency	NA	NA	BLRB Cost Estimate	Not cost effective because of building structure constraints.	P. Harvey B. Kenworthy	NA
AH-MD-13	Modernization	Commons Area Modernization	Provide larger commons within a single space that is attractive, conducive for eating lunch, suitable for assembly use, with audio visual infrastructure and sound system, includes small rooms for a sound system and storage, includes a microwave alcove, is adjacent to exterior courtyard, and close to main office area.	Existing school does not have a dedicated commons area. Instead, there are 3 separate but contiguous rooms used by students to eat lunch. The combined area of these lunch rooms is 500 SF to 2,000 SF smaller than school district standards for a commons. These rooms are remote from main office area with walls in between making the space difficult to supervise. These rooms lack AV infrastructure, sound system, microwave alcove, storage space and windows. Existing rooms are confining, noisy and not conducive for eating lunch. Because of this, many students leave campus for lunch or spend lunch time in other areas of the campus which creates noise and distraction for classrooms. A dedicated commons area directly adjacent to an exterior courtyard would provide a better place for lunch and a valuable assembly space.	Deficiency	1	NA	BLRB Cost Estimate	Cost included in AH-MD-87.	P. Harvey B. Kenworthy	NA
AH-MD-15	Modernization	Concession Stand / Restroom Building Addition	Provide a concession stand and restroom building near tennis courts and baseball field.	A concession stand where food can be prepared and sold is desired near the tennis courts and baseball fields to raise funds and provide concessions to spectators. A restroom facility desired to provide toilet facilities for athletes and spectators at tennis courts and baseball field.	Enhancement	3	NA	BLRB Cost Estimate	Cost included in AH-MD-90.	R. Swaim	NA

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# AUBURN HIGH SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AH-MD-16	Modernization	Corridor Width Improvements	Increase corridor width where existing secondary corridors are less than 10' wide.	Some existing secondary corridors are less than 10' wide which is less than the district's minimum standard and creates congestion.	Deficiency	NA	NA	No Cost Estimate	Not cost effective because of existing building constraints.	B. Kenworthy	NA
AH-MD-17	Modernization	Counseling Area Modernization	Provide counseling area close to main entry.	Existing counseling area is located at the center of the campus making it inconvenient and difficult to find for visitors, parents, and new students.	Deficiency	1	NA	BLRB Cost Estimate	Cost included in AH-MD-87.	P. Harvey	NA
AH-MD-20	Modernization	Darkroom Modernization	Convert darkroom 700B to a digital photography lab with 12 computer stations and open to visual communications classroom 700.	Digital photography lab desired to better meet needs of instructional program. Digital lab will also eliminate use of hazardous chemicals and allow better supervision of room.	Enhancement	3	NA	BLRB Cost Estimate	Cost included in AH-MD-89.	P. Harvey R. Swaim	NA
AH-MD-21	Modernization	Daycare Center Addition	Provide on-site day care center.	On-site day care center desired to provide instructional opportunities for students in the careers with children program.	Enhancement	NA	NA	No Cost Estimate	Not a school district standard.	R. Swaim	NA
AH-MD-22	Modernization	Drafting Classroom Expansion	Provide larger drafting classroom.	Size of existing drafting classroom meets district's recommended standard. Larger room desired to add work stations beyond those needed to meet district's standards.	Enhancement	3	NA	No Cost Estimate	Minor deficiency and existing space meets district's recommended standards.	P. Harvey	NA
AH-MD-23	Modernization	Drama Classroom Addition	Provide a drama classroom, with associated restrooms and changing rooms, close to the theater.	Existing drama classroom located away from theater. It is desired to have the drama classroom close to the theater for more convenient use of theater for drama and stage crew instruction.	Enhancement	NA	NA	No Cost Estimate	Not cost effective. Room 607 is adjacent to theater and designed as a drama classroom but is not used for this purpose.	P. Harvey	NA
AH-MD-31	Modernization	Graphics Computer Lab Addition	Provide graphics computer lab with 30 workstations, located close to art classrooms, and located adjacent to visual communications classroom with relite window between rooms.	Existing graphics computer lab has only 14 computer stations and is not located close to art rooms or adjacent to visual communications classroom. This makes it difficult for art and viscom students to use this computer lab.	Deficiency	2	NA	BLRB Cost Estimate	Cost included in AH-MD-89.	P. Harvey	NA
AH-MD-34	Modernization	Health Area Modernization	Provide larger health room with exhaust fan, larger nurses office with relite window to health room and counseling area, and ADA compliant restroom with exhaust fan.	Existing health area rooms, including nurse's office, are undersized, lack an exhaust fan to remove odors when students get sick, and restroom is not ADA compliant.	Deficiency	1	NA	BLRB Cost Estimate	Cost included in AH-MD-87.	P. Harvey B. Kenworthy	NA
AH-MD-35	Modernization	Kitchen Custodial Room Expansion	Provide larger kitchen custodial room.	Existing kitchen custodial room is undersized and difficult to use because of its confined space.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency.	B. Kenworthy	NA
AH-MD-37	Modernization	Kitchen Scullery Modernization	Relocate and expand kitchen scullery area.	Existing scullery area is located in the middle of the kitchen without direct access and a pass through window to commons. This makes access difficult. The space is undersized with a low ceiling creating a confining and hot work space.	Deficiency	NA	NA	No Cost Estimate	Not cost effective because of space limitations.	B. Kenworthy	NA
AH-MD-38	Modernization	Kitchen Serving Area Modernization	Modify serving area to require payment prior to receiving food.	Pre-payment desired to reduce theft.	Enhancement	NA	NA	No Cost Estimate	Not feasible because food service lines will not move fast enough with pre-payment system.	R. Swaim	NA

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AH-MD-40	Modernization	Instructional Storage Upgrade	Provide additional space for instructional material storage with storage room located in each classroom wing.	Size of existing centralized instructional storage room exceeds district's recommended standard. Expansion of this storage area is desired to provide instructional storage in each classroom wing for more convenient access.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency.	P. Harvey	NA
AH-MD-41	Modernization	Library Modernization	Relocate library to provide convenient and secure access during after-school hours. Modernize library to provide exterior windows, enclosed reserved material area, enclosed librarian's office and work area, group study room, and computer lab within library study / circulation area.	Existing library does not have convenient access and is difficult for visitors and community members to find. When opened after school, it allows visitors access to much of the campus. It does not have windows or skylights for daylight. Librarian's work and reserve material areas are open to library so these areas and materials are not secure when library is used during non-school hours. A group study room is not provided and the student computer area is in an adjacent room which is difficult to supervise from the library.	Deficiency	1	NA	BLRB Cost Estimate	Cost included in AH-MD-88.	P. Harvey B. Kenworthy	NA
AH-MD-42	Modernization	Lift Storage Room Addition	Provide storage room for maintenance lift.	Storage room desired to provide dedicated space for lift storage.	Enhancement	3	NA	BLRB Cost Estimate	Cost included in AH-MD-89.	P. Harvey	NA
AH-MD-43	Modernization	Lost and Found Addition	Provide small room in main office area for storage of lost and found items.	School does not have a room for storage of lost and found items. Currently, lost and found items stored in cabinet in main office area.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency.	B. Kenworthy	NA
AH-MD-44	Modernization	Main Office Area Modernization	Modernize main office area to provide larger offices for principal and assistant principals; provide two small conference rooms, lost and found room, and mail receiving room; provide larger work and mail rooms; provide addition electrical capacity; locate office area close to counseling, registrar, records storage, security office, health and activities areas; locate in a prominent manner that is easy for visitors to find.	Main office area has undersized mail room, workroom and offices for principal and assistant principals. A dedicated mail receiving room not provided so large deliveries are left unsecured in mail room corridor. Two small conference rooms and lost and found room needed. Workroom will not accommodate free-standing copy machine. Existing electrical outlets are overloaded and frequently trip. Main office has frequent contact with counselor's area, registrar, security officer, records storage, and health room and need to be close to these spaces. Existing main office is difficult for visitors to find.	Deficiency	1	NA	BLRB Cost Estimate	Cost included in AH-MD-87.	P. Harvey B. Kenworthy	NA
AH-MD-45	Modernization	Maintenance Office Modernization	Provide dedicated space for maintenance office that is close to main delivery area.	Existing maintenance office is not close to delivery area and is also used as a custodial and storage rooms.	Deficiency	2	NA	BLRB Cost Estimate	Cost included in AH-MD-88.	B. Kenworthy	NA
AH-MD-46	Modernization	Maintenance Storage Modernization	Provide dedicated space for maintenance storage that is close to main delivery area.	Existing maintenance storage is dispersed throughout school and shares space with other uses.	Deficiency	2	NA	BLRB Cost Estimate	Cost included in AH-MD-88.	B. Kenworthy	NA
AH-MD-47	Modernization	Telecommunications Room Modernization - HC Rooms	Provide five larger and dedicated spaces for HC equipment with independent HVAC system in each room.	Most HC equipment is located in cabinets or small rooms rather than dedicated spaces of adequate size with mechanical cooling equipment needed to protect equipment from heat gain. This makes service and expansion of equipment difficult and puts equipment at risk for heat damage.	Deficiency	1	NA	BLRB Cost Estimate	Cost included in AH-MD-87.	P. Harvey B. Kenworthy	NA

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AH-MD-52	Modernization	OT / PT Office Addition	Provide an OT / PT office.	Building does not have a dedicated office of OT / PT. Instead, OT / PT shares office with two school psychologists with interferes with OT / PT services and psychologist's counseling meetings.	Deficiency	1	NA	BLRB Cost Estimate	Cost included in AH-MD-89.	P. Harvey	NA
AH-MD-54	Modernization	Receiving Room Relocation	Locate receiving room in a central area, close to maintenance office with convenient interior access.	Existing receiving room is located at south end of 300 unit which has remote and inconvenient access.	Deficiency	2	NA	BLRB Cost Estimate	Cost included in AH-MD-88.	P. Harvey	NA
AH-MD-55	Modernization	Records Storage Expansion	Provide additional storage space for school records.	Existing record storage room is undersized by 50 SF and 50% smaller than district's minimum standard. Existing room located in counseling area which is remote from main office and inconvenient for use by main office and attendance area staff.	Deficiency	2	NA	BLRB Cost Estimate	Cost included in AH-MD-87.	P. Harvey	NA
AH-MD-57	Modernization	Security Office Modernization	Modernize security office to provide lockable storage cabinets, surveillance camera monitor, with location close to main office area.	Existing security office does not have lockable storage cabinets needed to secure records and confiscated property, does not have a monitoring station for surveillance cameras, and is not located close to main office.	Deficiency	2	NA	BLRB Cost Estimate	Cost included in AH-MD-87.	P. Harvey	NA
AH-MD-59	Modernization	Small Theater Addition	Provide a small theater adjacent to PAC.	Small theater desired for drama instruction and small performances.	Enhancement	NA	NA	No Cost Estimate	Not cost effective and not a school district standard.	P. Harvey	NA
AH-MD-62	Modernization	Special Education Structured Learning Classroom Modernization	Provide structured learning facilities in special education 700 unit that includes two restrooms each with changing area and sink, two showers, and one testing room.	School does not have facilities to accommodate a structured learning program that includes an ADA compliant restrooms with changing area and sink, showers, and testing room facilities. Currently, this program uses a standard classrooms.	Deficiency	1	NA	BLRB Cost Estimate	Cost included in AH-MD-89.	K. Herren J. Trauffer M. Newman	NA
AH-MD-66	Modernization	Staff Restroom Modernizations	Provide additional staff restrooms in 200 and 300/400 units. Modernize existing staff restrooms to replace out-dated and inefficient plumbing fixtures, replace old toilet partitions and restroom accessories, provide wainscot at walls, improve room finishes and appearance, enhance ventilation system, and make ADA compliant.	School does not have staff restrooms with convenient access from all classroom areas and existing restrooms do not have enough fixtures to adequately accommodate entire staff. Existing restrooms are old and need improved fixtures, accessories, surfaces and appearance, and need to be fully ADA compliant.	Deficiency	2	NA	BLRB Cost Estimate	Cost included in AH-MD-87, 88 and 89.	P. Harvey M. Newman B. Kenworthy	NA
AH-MD-68	Modernization	Stairway Width Improvements	Increase stairway width to a minimum of 8' wide.	Existing stairways are less than 8' wide which is less than the district's minimum standard and creates congestion.	Deficiency	NA	NA	No Cost Estimate	Not cost effective because of existing building constraints.	B. Kenworthy	NA
AH-MD-71	Modernization	Telecommunication Room Modernization - MC Room	Provide larger MC telecommunications room with independent HVAC system.	Existing MC telecommunications room 111 / 112AS is undersized by 40 SF and 25% smaller than district's minimum standard. This room does not have an independent HVAC system and significantly overheats and cause premature wear and tear on expensive telecommunications equipment.	Deficiency	1	NA	BLRB Cost Estimate	Cost included in AH-MD-87.	B. Kenworthy	NA
AH-MD-72	Modernization	Tennis Storage Shed Addition	Provide storage shed at tennis courts.	Storage shed needed for tennis equipment.	Deficiency	3	NA	BLRB Cost Estimate	Cost included in AH-MD-90.	P. Harvey B. Kenworthy	NA

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AH-MD-75	Modernization	Theater Office Expansion	Provide additional space that includes a 100 SF conference room and 80 SF of additional office area at PAC theater office area.	Additional office space needed to accommodate additional file cabinets and work station. Conference room needed to allow APAC staff to meet with clients.	Enhancement	3	NA	BLRB Cost Estimate	Cost included in AH-MD-87.	P. Smith	NA
AH-MD-76	Modernization	Theater Storage Addition	Provide additional space for storage of drama equipment and props.	Existing theater storage area is combined with theater workshop. The combined area of these spaces exceeds district's recommended standards. School desires additional space to store more equipment and props in the building.	Enhancement	NA	NA	No Cost Estimate	Existing storage area exceeds district's standards.	P. Harvey	NA

# PROPOSED FACILITY IMPROVEMENTS

# AUBURN MOUNTAINVIEW HIGH SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AM-SI-02	Site	132th SE Street Frontage Improvements	Provide an ornamental fence, street trees, grass and irrigation system along west side of 132th St. SE at street frontage.	Existing vegetation and chainlink fence along west side of 132th SE is unattractive and detracts from the entry to the school.	Enhancement	1	\$391,733	BLRB Cost Estimate	Complete using funds from AM High School project.	B. Kenworthy	C
AM-SI-03	Site	ADA Site Improvements	Provide miscellaneous site improvements to comply with ADA standards that do not significantly affect access to building.	Miscellaneous site areas, which do not significantly affect access to the building, could be improved to comply with current ADA standards.	Enhancement	3	\$157,549	BLRB Cost Estimate	Minor deficiency.	ADA Consultant	C
AM-SI-04	Site	Baseball and Softball Field Fence Additions	Provide chainlink fencing around spectator areas at competition baseball and softball fields.	Fencing desired to allow spectator areas to be secured so admission can be charged.	Enhancement	4	\$18,275	BLRB Cost Estimate	Minor need.	R. Thomas	C
AM-SI-06	Site	Baseball and Softball Field Netting Addition	Provide ball netting at baseball and softball fields.	Ball netting needed to reduce number of balls hit into road and adjacent ball fields.	Deficiency	2	\$65,982	BLRB Cost Estimate	Complete using funds from AM High School project.	B. Odman	C
AM-SI-09	Site	Exterior Bench Additions	Provide 2 ribbon-metal exterior benches at front entry.	Exterior benches needed at front entry for students and visitors to use when waiting to be picked up.	Deficiency	3	\$5,865	BLRB Cost Estimate	Complete using funds from AM High School project.	B. Kenworthy	C
AM-SI-10	Site	Fence Gate Additions	Provide 6' high and 12' wide swing gates at chainlink fencing at east side of field house and at two landscape areas. Provide 4' high and 10' wide rolling gate at chainlink fence at west side of football / soccer field at bleacher area.	More direct access needed at fenced area at field house. Some fenced landscape areas need access gates for maintenance vehicles. Access gate needed at football / soccer field for students to use during emergency drills.	Deficiency	1	\$12,107	BLRB Cost Estimate	Complete using funds from AM High School project.	R. Thomas	C
AM-SI-11 ECM-W2	Site	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station.	Connection to the EMS and the addition of a rain gauge will reduce water consumption and utility costs.	Operating Cost	1	\$6,428	Quantum Cost Estimate	Estimated 5-year payback period. Complete using funds from AM High School project.	Energy Consultant	C
AM-SI-12	Site	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars, directional arrows, speed bumps, and bus stall numbers.	Thermo-plastic markings needed at critical areas that quickly wear away.	Deficiency	3	\$2,285	BLRB Cost Estimate	Complete using funds from AM High School project.	L. Decker B. Kenworthy	C
AM-SI-13	Site	Pipe Rail Gate Additions	Provide 5 pipe rail vehicle gates at entrances to student parking lots and 2 at entrances to staff parking lots.	Existing staff and student parking lots have accommodations for entrances to be secured with a chain. These are difficult to drivers to see and time consuming to set up and take down. Swing gates will work better and be easier to see.	Enhancement	3	\$171,063	BLRB Cost Estimate	Minor need.	B. Kenworthy	C
AM-SI-15	Site	Reader Board Additions	Provide electronic reader boards at street frontage at 124th SE and 132nd SE.	Electronic reader boards desired to easily display school notices and announcements. Power and control wire conduit already in place.	Enhancement	1	\$218,557	Quantum Cost Estimate	Should be obtained by school using school funds.	B. Kenworthy	C
AM-IN-01	Interior	ADA Building Improvements	Provide miscellaneous building improvements to comply with ADA standards that do not significantly affect access within the building.	Miscellaneous building areas, which do not significantly affect access within the building, could be improved to comply with current ADA standards.	Enhancement	3	\$294,056	BLRB Cost Estimate	Minor deficiency.	ADA Consultant	C
AM-IN-04	Interior	Main Stairway Handrail Modifications	Modify handrail and main stairway to make it difficult for students to slide down hand railing.	Existing handrail can be used for slide.	Deficiency	1	\$12,220	BLRB Cost Estimate	Complete using funds from AM High School project.	R. Thomas	C
AM-IN-05	Interior	Theater Seating Arm Rest Modifications	Provide removable or folding arm rests at 4 seats in theater along with accessibility symbols.	Removable or folding arms rests with accessibility symbol required at 1% of the theater seats.	Deficiency	2	\$2,445	BLRB Cost Estimate	Complete using funds from AM High School project.	ADA Consultant	C

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# AUBURN MOUNTAINVIEW HIGH SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AM-EQ-01	Equipment	ADA Grab Bar Additions	Provide ADA compliant grab bars at restroom 512G and accessible toilet stall in restrooms 513 and 514.	Grab bars needed to assist the disabled and comply with ADA.	Deficiency	3	\$1,553	BLRB Cost Estimate	Complete using funds from AM High School project.	ADA Consultant	C
AM-EQ-02	Equipment	Baseball and Softball Field Bleacher Additions	Provide 3 sections of additional aluminum bleachers at competition baseball, each 21' long x 8 rows deep. Provide one section of additional aluminum bleachers at competition softball field, 21' long x 8 rows deep. Relocate 2 existing sets of bleachers, each 21' long x 5 rows deep, from competition baseball field to competition softball field. Provide covered scorekeeping area at one set of new bleachers at competition baseball and softball fields.	Additional bleachers needed to accommodate more spectators. Covered area needed to keep scorekeepers dry.	Enhancement	3	\$93,150	BLRB Cost Estimate	Minor need.	B. Odman R. Thomas	C
AM-ME-01	Mechanical	Art Room Eye Wash Addition	Provide eye wash in art room 101.	Eye wash needed for student safety.	Health / Safety	2	\$1,530	Quantum Cost Estimate	Minor deficiency.	B. Kenworthy	C
AM-ME-02 ECM-M7	Mechanical	Art Room Hood Switch Addition	Provide manual switch to turn on and shut off jewelry soldering hood in art room 101.	Manual switch will reduce wear and tear on exhaust fan and reduce energy costs.	Operating Cost	2	\$1,285	Quantum Cost Estimate	Estimated 10-year payback period. Complete using funds from AM High School project.	Energy Consultant	C
AM-ME-06 ECM-M9	Mechanical	Boiler Stack Economizer Additions	Provide boiler stack economizers to preheat makeup water or heating hot water.	Economizers will reduce energy costs.	Operating Cost	2	\$128,563	Quantum Cost Estimate	Estimated 10-year payback period. Complete using funds from AM High School project.	Energy Consultant	C
AM-ME-07 ECM-M3	Mechanical	CO2 Control Addition	Expand control system to add CO2 control to the main air handling systems serving the commons, drama room, construction / manufacturing, kitchen, library and theater.	CO2 control will regulate the amount of outside air being delivered to the occupied spaces based on CO2 levels and reduce energy usage.	Operating Cost	1	\$25,713	Quantum Cost Estimate	Estimated 4-year payback period. Complete using funds from AM High School project.	Energy Consultant	C
AM-ME-08 ECM-M2	Mechanical	Controls Sequence Modifications	Modify mechanical controls to provide a reset schedule for temperature control the primary air to the VAV boxes and reset for minimum outside air for the primary air system. Modify control sequences for the domestic water booster pump, chillers, and the boilers to improve efficiency and reduce wear and tear on equipment.	Control modifications will reduce energy costs, reduce wear and tear on equipment, and reduce boiler condensation.	Operating Cost	2	\$30,855	Quantum Cost Estimate	Estimated 6-year payback period. Complete using funds from AM High School project.	Energy Consultant R. Thomas	C
AM-ME-09	Mechanical	Domestic Water Booster Pump Upgrade	Add expansion tank and controls at domestic water booster pump.	Expansion tank needed to allow booster pump to run on an intermittent basis as needed to fill expansion tank. Existing system, without expansion tank, causes booster pump to run continuously which damages pump.	Deficiency	1	\$48,596	Quantum Cost Estimate	Complete using funds from AM High School project.	R. Thomas	C
AM-ME-10 ECM-M10	Mechanical	Domestic Water Booster Pump VSD Addition	Provide variable speed drives at existing 7.5 HP and 15 HP domestic water booster pumps.	Variable speed drives will reduce energy costs.	Operating Cost	2	\$30,855	Quantum Cost Estimate	Estimated 7-year payback period. Complete using funds from AM High School project.	Energy Consultant	C



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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AM-ME-11	Mechanical	Fire Sprinkler System Bracing	Provide additional seismic bracing to existing fire sprinkler system in compliance with FM Global standards.	Additional bracing will reduce risk of broken fire sprinkler lines during an earthquake.	Enhancement	3	\$205,700	Quantum Cost Estimate	Minor deficiency.	M. Newman	C
AM-ME-12 ECM-M8	Mechanical	Heating Water Boiler Modifications	Retrofit heating water boilers to improve turn-down or add a small pony boiler to handle low load conditions.	Modifications will reduce energy costs.	Operating Cost	2	\$205,700	Quantum Cost Estimate	Estimated 10-year payback period. Complete using funds from AM High School project.	Energy Consultant	C
AM-ME-13 ECM-M1	Mechanical	HVAC Control System Commissioning	Commission the HVAC control system to verify proper operation.	Commissioning could improve system operation and reduce energy costs.	Operating Cost	1	\$64,282	Quantum Cost Estimate	Estimated 2-year payback period. Complete using funds from AM High School project.	Energy Consultant R. Thomas	C
AM-ME-14	Mechanical	Kiln Room Ventilation Modification	Modify ventilation system in kiln room 101A to provide additional ventilation and to allow kiln to operate whenever needed.	Existing ventilation system is not adequate to keep kiln room from overheating and has a control system that does not allow the kiln to operate under certain conditions.	Deficiency	1	\$32,140	Quantum Cost Estimate	Complete using funds from AM High School project.	B. Odman R. Thomas	C
AM-ME-17	Mechanical	Natural Gas System Metering	Provide electronic meter for natural gas system connected to energy management system.	Electronic meter will allow remote monitoring of gas service and improve potential for reducing natural gas use.	Operating Cost	2	\$44,741	Quantum Cost Estimate	Complete using funds from AM High School project.	R. Thomas	C
AM-ME-18 ECM-M4	Mechanical	Occupancy Sensor Temperature Control Additions	Provide occupancy sensors connected to the Energy Management System in band and choral rooms, gyms, main building and field house locker rooms. Connect domestic water pump in fieldhouse to occupancy sensor and connect lights in gyms to occupancy sensors.	Occupancy sensors will allow heating system, domestic water heater in field house, and gym lights to be set back when the spaces are unoccupied which will reduce energy costs.	Operating Cost	1	\$38,570	Quantum Cost Estimate	Estimated 4-year payback period. Complete using funds from AM High School project.	Energy Consultant	C
AM-ME-19 ECM-M5	Mechanical	Occupancy Sensor Temperature Control Modifications	Connect existing occupancy sensors in classrooms to the Energy Management System.	Connection of existing sensors will allow heating system and air flow to be set back when the spaces are unoccupied which will reduce energy costs.	Operating Cost	2	\$64,282	Quantum Cost Estimate	Estimated 8-year payback period. Complete using funds from AM High School project.	Energy Consultant	C
AM-ME-20 ECM-W1	Mechanical	Plumbing Fixture Retrofit Review	Review water saving opportunities including retrofit or replacement of sinks, urinals and water closets.	A reduction in water use will reduce utility costs.	Operating Cost	1	\$12,857	Quantum Cost Estimate	Estimated 2-year payback period. Complete using funds from AM High School project.	Energy Consultant	C
AM-ME-21 ECM-M6	Mechanical	Science Room AHU Modifications	Install variable speed drives, revise controls, or install outside air booster fans at science area air handling units.	Modifications needed to eliminate negative air problems and will reduce energy costs.	Operating Cost & Deficiency	2	\$21,855	Quantum Cost Estimate	Estimated 8-year payback period. Complete using funds from AM High School project.	Energy Consultant R. Thomas	C
AM-ME-22	Mechanical	Student Store HVAC Improvements	Provide additional ventilation or independent mechanical cooling system in student store storage room 123.	Additional ventilation or mechanical cooling needed to eliminate overheating caused by freezer and refrigeration equipment present in this room.	Deficiency	2	\$40,883	Quantum Cost Estimate	Complete using funds from AM High School project.	B. Odman	C
AM-ME-24	Mechanical	Water Quality Improvements	Replace plumbing at sinks in kitchen (4), staff workroom and two drinking fountains.	Water quality tests at 5 sinks and two drinking fountains exceeded EPA water quality standards for lead or copper.	Health / Safety	2	\$15,171	Quantum Cost Estimate	Not needed. Further testing revealed water quality standards being met.	B. Kenworthy	C

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AM-ME-25	Mechanical	Sawdust Collection System Expansion	Expand sawdust collection system to dust producing equipment that has been added in Construction / Manufacturing classroom.	Sawdust collection is needed at dust producing equipment that has been added in the Construction / Manufacturing classroom.	Health / Safety & Deficiency	1	\$20,313	Quantum Cost Estimate	Complete using funds from AM High School project.	R. Thomas	C
AM-EL-01	Electrical	Audio Lab Data Outlet Additions	Provide two data outlets in audio lab 106A.	Data outlets desired for student computer use. Existing electrical outlets in room will accommodate new computers.	Deficiency	2	\$3,086	Quantum Cost Estimate	Minor deficiency.	B. Odman	C
AM-EL-02	Electrical	Ceiling Mounted LCD Projector Addition	Provide ceiling mounted LCD projector and associated AV and power outlets in each classroom with connection to teacher's work station.	Ceiling mounted projectors desired for ease of use, to reduce theft, and to protect equipment and cables from damage.	Enhancement	1	\$1,487,468	Quantum Cost Estimate	Not cost effective.	R. Luke R. Thomas M. Newman	C
AM-EL-03 ECM-L1	Electrical	Corridor Light Fixture Retrofit	Retrofit the T-8 fixtures in the corridors to reduce the total number of fixture lamps or relamp with lower wattage T-8 lamps.	Fixture modifications will reduce energy costs.	Operating Cost	1	\$64,282	Quantum Cost Estimate	Estimated 5-year payback period. Complete using funds from AM High School project.	Energy Consultant	C
AM-EL-05	Electrical	Electrical Service Metering	Provide electronic meter for electrical service connected to energy management system.	Electronic meter will allow remote monitoring of electrical service and improve potential for reducing electrical use.	Operating Cost	2	\$49,883	Quantum Cost Estimate	Complete using funds from AM High School project.	R. Thomas	C
AM-EL-06	Electrical	Emergency Power Expansion	Provide emergency power to the domestic water pump.	Emergency power needed for domestic water pump to allow the water system and toilets to be used during power outage.	Deficiency	1	\$24,608	Quantum Cost Estimate	Complete using funds from AM High School project.	R. Thomas	C
AM-EL-07 ECM-L4	Electrical	Exterior Lighting Control Modifications	Modify the zoning for control of the exterior parking lot lights to reduce operating hours.	Existing controls allow operation of the parking lot lights until 11 PM - midnight. This can be modified to reduce energy costs.	Operating Cost	2	\$12,857	Quantum Cost Estimate	Estimated 7-year payback period. Complete using funds from AM High School project.	Energy Consultant	C
AM-EL-08 ECM-L3	Electrical	Exterior Lighting Upgrade	Replace HID fixtures on the exterior of the building with compact fluorescent. Analyze parking lot lights for benefits of pulse start metal halide or inductive lighting.	HID and potential parking lot light fixture replacement will reduce energy costs.	Operating Cost	2	\$25,713	Quantum Cost Estimate	Estimated 10-year payback period. Complete using funds from AM High School project.	B. Kenworthy M. Newman B. Talbert	C
AM-EL-10	Electrical	Greenhouse Telephone Addition	Provide telephone in greenhouse.	Telephone needed for teacher use and emergencies.	Health / Safety & Deficiency	1	\$4,886	Quantum Cost Estimate	Not cost effective and can be accomplished using portable telephone purchased by school.	B. Odman R. Swaim	C
AM-EL-11 ECM-L2	Electrical	Gym HID Lighting Replacement	Replace HID light fixtures in the main and auxiliary gyms with fixtures using T-8 or T-5 technology.	Fixture replacement will reduce energy costs.	Operating Cost	2	\$25,713	Quantum Cost Estimate	Estimated 7-year payback period. Complete using funds from AM High School project.	Energy Consultant	C
AM-EL-12	Electrical	Intrusion Alarm Audible Signal Upgrade - Intrusion System	Upgrade intrusion alarm system to provide audible alarm.	Use of audible alarm could reduce intrusions and false alarms.	Enhancement	3	\$97,682	Quantum Cost Estimate	Not cost effective. See AM-EL-19 for alternate method.	M. Newman	C
AM-EL-13	Electrical	Kitchen Electrical Capacity Addition	Provide additional electrical capacity in kitchen to accommodate future kitchen equipment.	Existing kitchen equipment fully utilizes all electrical circuits in kitchen. This inhibits the addition of kitchen equipment that will be needed in the future.	Enhancement	4	\$47,826	Quantum Cost Estimate	Minor need.	B. Odman	C

# PROPOSED FACILITY IMPROVEMENTS

# AUBURN MOUNTAINVIEW HIGH SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AM-EL-14	Electrical	Main Gym Equipment Control Improvements	Extend the sound system, scoreboard and shot clock controls in main gym to the front of the first row of bleachers, at the east and west sides of the main gym, so they can be used without opening the bleachers.	Existing controls for the sound system, scoreboard and shot clocks are not accessible unless the bleachers are opened. This creates a problem when these systems are needed but gym activity requires an open floor area without the bleachers extended.	Enhancement	2	\$9,513	Quantum Cost Estimate	Complete using funds from AM High School project.	R. Thomas	C
AM-EL-15	Electrical	Technology Classroom Electrical Outlet Additions	Provide additional electrical outlets suspended from ceiling in technology classroom 619.	Additional electrical outlets needed for student use.	Enhancement	2	\$14,399	Quantum Cost Estimate	Minor need.	B. Odman	C
AM-EL-16	Electrical	Theater Closed Circuit TV System Addition	Provide closed circuit television system with sound feed that shows images of the stage on monitors in the control booth, green room, and lobby.	Closed circuit television system with sound feed desired to allow staff and performers to monitor performances from control booth, green room, and to allow audience to monitor performance from lobby.	Enhancement	3	\$40,120	Quantum Cost Estimate	Not cost effective and minor need.	P. Smith	C
AM-EL-17 ECM-L5	Electrical	Vending Machine Sensor Addition	Provide sensors at vending machines to shut off vending machine illumination when the spaces are unoccupied.	Sensors will reduce energy costs.	Operating Cost	1	\$1,285	Quantum Cost Estimate	Estimated 4-year payback period. Complete using funds from AM High School project.	Energy Consultant	C
AM-EL-18	Electrical	Video Lab Data Outlet Additions	Provide 6 additional data outlets in video lab 106F.	Existing room has 2 data outlets. Additional data outlets desired for student computer use. Existing electrical outlets in room will accommodate new computers.	Deficiency	2	\$9,257	Quantum Cost Estimate	Complete using funds from AM High School project.	B. Odman	C
AM-EL-19	Electrical	Intrusion Alarm Audible Signal Upgrade - Intercom System	Connect intrusion alarm system to intercom system to provide audible alarm.	Use of audible alarm could reduce intrusions and false alarms.	Enhancement	2	\$14,142	ASD Cost Estimate		M. Newman	C
AM-MD-02	Modernization	Art Area Work Counter Additions	Provide 24 LF of additional work counter with base cabinets in art room 100 and 10 LF of additional work counters with base and upper cabinets in art room 101.	Additional work counters and storage cabinets desired for student art activities.	Enhancement	3	\$16,740	BLRB Cost Estimate	Minor deficiency.	B. Odman	C
AM-MD-07	Modernization	Graphics Computer Lab Cabinet Modifications	In graphics computer lab 104, replace 10 LF of knee-space counter and upper cabinets with 10 LF of full height storage cabinets with vertical dividers for drawing board storage. Replace 10 LF of knee-space counter with 10 LF of work counter with student storage drawers below.	Storage modifications needed to accommodate the instruction of drawing classes in graphics computer lab 104.	Enhancement	3	\$14,663	BLRB Cost Estimate	Minor need.	B. Odman	C
AM-MD-10	Modernization	Horticulture Prep Relite Addition	Provide interior relite window between horticulture prep room 620A and horticulture classroom 620.	Relite window desired to allow visual supervision of horticulture classroom from prep room.	Deficiency	2	\$5,593	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
AM-MD-11	Modernization	Horticulture Storage Shed Addition	Provide wood framed 150 SF storage shed without utilities on concrete slab at land lab area adjacent to greenhouse.	Exterior shed desired for storage of landscape equipment.	Enhancement	3	\$58,650	BLRB Cost Estimate	Minor need and not cost effective.	B. Odman	C
AM-MD-12	Modernization	Itinerant Office Relite Addition	Provide interior relite window between itinerant office 203 and adjacent corridor.	Relite window desired to allow visual connection between office and corridor.	Deficiency	4	\$4,372	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
AM-MD-14	Modernization	Marketing Office Relite Addition	Provide interior relite window between marketing office 118A and marketing classroom 118.	Relite window desired to allow visual supervision of marketing classroom from office.	Deficiency	4	\$8,743	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AM-MD-15	Modernization	Music Area Door Addition	Provide a door with sound seal between band room 605 and orchestra / choral room 618.	Door needed to provide acoustical separation between band and choral rooms.	Deficiency	2	\$7,149	BLRB Cost Estimate	Complete using funds from AM High School project.	B. Odman	C
AM-MD-18	Modernization	Special Education Restroom Addition	Provide restrooms in special education classrooms 218 and 222.	Restrooms desired within classrooms for improved access by and supervision of students.	Enhancement	3	\$96,924	BLRB Cost Estimate	Minor need.	B. Odman	C
AM-MD-20	Modernization	Visual Communications Interior Window Addition	Provide additional interior relite window at west wall of visual communications 106.	Additional interior window desired at west wall to allow visual communications instructor to visually supervise students in adjacent graphics computer lab.	Enhancement	4	\$4,372	BLRB Cost Estimate	Minor deficiency.	R. Swaim	C
AM-MD-21	Modernization	Outdoor Concession / Restroom Building Addition	Provide a concession stand building and public restrooms near tennis courts, softball and baseball fields.	See Improvement Justifications for AM-MD-04 and 16.	Enhancement	1	\$336,765	BLRB Cost Estimate	Not cost effective.	R. Thomas M. Newman B. Odman	C
AM-SI-01	Site	124th SE Signal Light Addition	Provide signal light and crosswalk across 124th St. SE at entry drive.	Signal light and crosswalk desired to make is safer for cars to exit school site and safer for pedestrians crossing 124th SE to bus stop on west side of road.	Enhancement	NA	NA	No Cost Estimate	Pedestrian signal being added by developer of property at west side of 124th SE.	B. Odman	NA
AM-SI-05	Site	Baseball and Softball Field Lighting Access	Provide access road to baseball and softball field light poles for maintenance access.	Some baseball and softball field light poles are not directly accessible by maintenance vehicles and are difficult to reach by ladder because of steep slope adjacent to base of light poles.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency and not cost effective because of existing site constraints.	R. Thomas	NA
AM-SI-07	Site	Baseball Field Gate Additions	Provide gates in existing chainlink fence for access from competition baseball field to future batting cage and from both baseball fields to adjacent elementary school property.	Gate will be needed when batting cage in added at west side of competition baseball field. Gate to elementary school desired for maintenance access and to retrieve baseballs.	Enhancement	NA	NA	No Cost Estimate	Maintenance item.	B. Odman R. Thomas	NA
AM-SI-08	Site	Batting Cage Addition	Provide batting cage at competition baseball field.	Batting cage desired at competition baseball field, in addition to existing batting cage at practice baseball field, for more convenient use and improved supervision.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency that is being address by school booster club.	R. Thomas	NA
AM-SI-14	Site	Pipe Rail Gate Improvements	Provide reflective tape on pipe rail vehicle gates.	Existing pipe rail gates do not have reflective tape and can be difficult to see at night.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Kenworthy	NA
AM-SI-16	Site	Theater Directional Signage Addition	Provide exterior signage to direct theater users to theater parking lot and entry door.	Signage needed at building exterior to clearly identify parking lot and entry doors for theater.	Deficiency	NA	NA	No Cost Estimate	Work completed.	P. Smith	NA
AM-SI-16	Site	Van Parking Stall Sign Relocation	Relocate van accessible parking stall sign at west side of west courtyard from east to west side of fence.	Existing van accessible parking stall sign is partially obscured because it is located behind ornamental fence.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	ADA Consultant	NA
AM-IN-02	Interior	Kitchen Cabinet Improvements	Replace student lockers in kitchen with storage cabinets.	Existing student lockers are not used and additional cabinet storage desired in kitchen.	Enhancement	NA	NA	No Cost Estimate	Work completed.	B. Odman	NA
AM-IN-03	Interior	Kitchen Scullery Counter Improvement	Provide gasket or counter modification at scullery serving door to contain water that collects on counter next to garbage disposer.	Existing counter allows water to drain off of counter onto door and into commons.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Odman	NA
AM-EQ-03	Equipment	Kitchen Equipment Additions	Provide free-standing reach-in cooler and freezer units in kitchen.	Additional storage needed for refrigerated and frozen food products.	Deficiency	NA	NA	No Cost Estimate	Completed by Maintenance Department.	B. Odman	NA

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AM-EQ-04	Equipment	Science Prep Room Refrigerator Additions	Provide residential grade refrigerator / freezer in science prep rooms 406 and 422.	Refrigerator / freezer needed for refrigeration of chemicals and samples. Existing electrical outlets within these rooms will accommodate refrigerator / freezer.	Enhancement	3	NA	ASD Cost Estimate	Minor deficiency.	B. Odman	NA
AM-EQ-05	Equipment	Science Storage Bin Additions	Provide polyvinyl storage bins for science classrooms.	Chemical resistant storage bins needed for storing and transporting science chemicals.	Enhancement	NA	NA	No Cost Estimate	Work completed.	B. Odman	NA
AM-EQ-06	Equipment	Theater Light Board Upgrade	Replace light board at theater.	Existing light board in theater is works adequately and is in good condition but should be replaced within ten years with a new and higher quality sound board.	Enhancement	NA	NA	No Cost Estimate	Work completed.	P. Smith	NA
AM-EQ-07	Equipment	Theater Office Equipment Upgrade	Provide new LCD projector, lap top computer, desktop computer, laser printer, fax / copy machine.	Existing office equipment and portable LCD projector are adequate but will exceed life expectancy within 5 years.	Enhancement	NA	NA	No Cost Estimate	Obtained with Technology Levy funds.	P. Smith	NA
AM-EQ-08	Equipment	Theater Sound Board Upgrade	Replace sound board at theater.	Existing sound board in theater is works adequately and is in good condition but should be replaced within ten years with a new and higher quality sound board.	Enhancement	2	NA	No Cost Estimate	Replacement will not be needed for several years per Pam Smith.	P. Smith	NA
AM-ME-03	Mechanical	Boiler Control Modifications	Modify the boiler control sequence of operation.	Modifications to the boiler control sequence of operations needed to eliminate condensation in the boilers.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	R. Thomas	NA
AM-ME-04	Mechanical	Boiler Insulation Replacement	Replace boiler insulation damaged by excessive boiler condensation.	Existing boiler insulation damaged by condensation that resulted from boiler sequence problems.	Deficiency	NA	NA	No Cost Estimate	Completed by Maintenance Department.	R. Thomas	NA
AM-ME-05	Mechanical	Boiler No. 2 Replacement	Replace boiler #2.	Boiler #2 has welds at the boiler tubes that leak and are expensive to repair.	Deficiency	NA	NA	No Cost Estimate	Leaking welds repaired. Not cost effective to replace boiler.	R. Thomas	NA
AM-ME-15	Mechanical	Kitchen Hot Water Improvement	Improve hot water system in kitchen to provide hot water on a consistent basis.	Kitchen area has intermittent problems with hot water supply.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Odman	NA
AM-ME-16	Mechanical	Kitchen Restroom Ventilation Improvement	Improve operation of existing ventilation system in kitchen restroom 512G.	Existing ventilation system does not adequately remove odors during afternoon hours.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Odman	NA
AM-ME-23	Mechanical	Theater Lobby Heat Control	Provide capability to operate HVAC system in commons during non-school hours when theater is used.	Existing commons serves at lobby for theater and is not heated during non-school hours which creates a cold lobby space for the theater.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	P. Smith	NA
AM-EL-04	Electrical	Data Communications Equipment Upgrade	Upgrade data communications equipment filter, router, switch, traffic shaping and connectivity speed.	Existing filter, router, switch, traffic shaping and connectivity speed do not meet district's minimum standards.	Deficiency	1	NA	ASD Cost Estimate	Minor deficiency.	N. Vien	NA
AM-EL-09	Electrical	Fire Alarm Replacement	Replace Edwards fire alarm system with a Simplex or Notifier system.	Existing Edwards fire alarm system functions properly but is more difficult and expensive to maintain than Simplex and Notifier systems.	Enhancement	NA	NA	No Cost Estimate	Not cost effective.	R. Thomas	NA
AM-MD-01	Modernization	Art Area Spray Booth Additions	Provide paint spray booths in art rooms 100 and 101.	Paint booths desired for spray painting activities.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency and not a school district standard.	B. Odman	NA
AM-MD-03	Modernization	Commons Storage Room Addition	Provide storage room for equipment used in commons.	Storage room desired for equipment used in commons that needs secure storage.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency.	B. Kenworthy	NA

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AM-MD-04	Modernization	Concession Stand Building Addition	Provide a concession stand building near tennis courts, softball and baseball fields.	A concession stand where food can be prepared and sold is desired near the tennis courts, baseball and softball fields to raise funds and provide concessions to spectators.	Enhancement	1	NA	BLRB Cost Estimate	Costs included in AM-MD-21.	R. Thomas	NA
AM-MD-05	Modernization	Concession Stand Improvements	Provide plumbing, electrical and other code required improvements to wood structure concession stand.	School purchased a wood shed structure to use as a concession stand in the parking lot by the baseball and softball field. School desires to have this shed improved with electrical, plumbing and other features so that it can be used as a concession stand that sells food prepared on the premises.	Enhancement	NA	NA	No Cost Estimate	Not cost effective to enhance an existing wood shed to meet all health and building department requirements for a concession stand where food is prepared.	R. Thomas	NA
AM-MD-06	Modernization	Elevator Cab Size Expansion	Provide larger cab size at elevator.	Larger cab desired for improved access for maintenance carts and equipment.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency and not cost effective.	B. Kenworthy	NA
AM-MD-08	Modernization	Greenhouse Irrigation / Fertilization Improvements	Modify build-in irrigation and fertilization system in greenhouse.	Built-in irrigation and fertilization system in greenhouse was installed by school and does not meet current building codes.	Health / Safety	NA	NA	No Cost Estimate	Maintenance item.	R. Thomas	NA
AM-MD-09	Modernization	Greenhouse Planting Bed Modifications	Modify heating system installed in planting beds in greenhouse.	Original planting bed heating system was modified by the school and no longer meets electrical and plumbing codes.	Health / Safety	NA	NA	No Cost Estimate	Maintenance item.	R. Thomas	NA
AM-MD-13	Modernization	Kitchen Storage Area Addition	Provide additional storage in kitchen.	Additional storage desired for dry goods.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency and not cost effective to add space to building.	B. Odman	NA
AM-MD-16	Modernization	Public Restroom Building Addition	Provide a public restroom building near tennis courts, softball and baseball fields.	Public restroom facility desired to provide toilet facilities for athletes and spectators at tennis courts and baseball and softball fields.	Enhancement	1	NA	BLRB Cost Estimate	Costs included in AM-MD-21.	B. Odman M. Newman	NA
AM-MD-17	Modernization	Special Education Community Lab Addition	Provide community lab office space near special education classrooms.	Community lab office space needed for a staff member to meet with disabled students to coordinate community transition activities. These activities were accommodated in special education office 220A but this office is now being used for instructional space.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency. It is likely that existing building can accommodate this program in office 203 that is no longer being used for work-based training.	J. Trauffer	NA
AM-MD-19	Modernization	Teaching Station Skylight Additions	Provide skylight at band, choral and orchestra and technology classrooms.	Existing rooms do not have exterior windows and exposure to daylight. Window addition not feasible because these rooms are interior spaces. Adding skylights to these rooms difficult because of high roof and mechanical attics above these spaces.	Deficiency	NA	NA	No Cost Estimate	Minor defect and not cost effective.	B. Kenworthy	NA

# PROPOSED FACILITY IMPROVEMENTS

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AR-SI-08	Site	Curb Ramp Additions	Provide two curb ramps. Ramps located at south end of bus loading zone and at new van accessible parking stalls adjacent to tennis courts.	Curb ramps needed for wheelchair access and required by ADA.	Deficiency	3	\$9,138	BLRB Cost Estimate		ADA Consultant	A
AR-SI-10	Site	Discus Throw Modifications	Relocate discus pad to provide discus throw area in compliance with current regulations.	Existing discus throw area does not comply with current regulations because of location of discus throw pad.	Deficiency	2	\$11,422	BLRB Cost Estimate		R. Swaim	A
AR-SI-13	Site	Football Goal Post Upgrade	Replace football goal posts with high quality, V-neck, gooseneck, steel goal posts.	Existing goal posts are not stable and twist in place.	Enhancement	1	\$36,559	DA Hogan		R. Swaim	A
AR-SI-14	Site	Football / Soccer Field Synthetic Turf Upgrade	Replace conventional synthetic turf at football / soccer field with infill system synthetic turf.	Existing turf is wearing out and infill system turf provides a better playing surface.	Enhancement	1	\$1,122,862	DA Hogan		B. Phillips L. Cowan M. Newman R. Swaim R. Thomas T. Cummings	A
AR-SI-15 ECM-W2	Site	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station.	Connection to the EMS and the addition of a rain gauge will reduce water consumption and utility costs.	Operating Cost	1	\$6,428	Quantum Cost Estimate	Estimated 3-year payback period.	Energy Consultant R. Thomas	A
AR-SI-18	Site	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars, directional arrows, and bus stall numbers. Repaint existing lines in parking lots.	Thermo-plastic markings needed at critical areas that quickly wear away. Existing painted lines in parking lots are worn and need repainting.	Deficiency	2	\$2,285	BLRB Cost Estimate		R. Thomas B. Kenworthy	A
AR-SI-27	Site	Tennis Court Surface Upgrade	Repair cracks and provide new surface coat at 9 tennis courts.	Existing tennis courts have cracks in some areas and the surface coat is worn.	Deficiency	1	\$107,292	BLRB Cost Estimate		B. Phillips B. Kenworthy	A
AR-SI-30	Site	Van Accessible and Disabled Parking Stall Additions	Convert three standard parking stalls at tennis court area to one van accessible stall and one handicap stall and add associated signage. Convert two standard parking stalls at south lot adjacent to main gym to a single van accessible stall and add associated signage.	Additional van accessible parking stalls required at two locations and an additional disabled parking stall needed at gym area to comply with ADA.	Deficiency	4	\$11,422	BLRB Cost Estimate		ADA Consultant	A
AR-SI-33	Site	Baseball & Softball Infield Clayblock Additions	Provide clay block at baseball and main softball field pitcher's mounds and homeplates.	Clayblock at pitcher's mound and homeplate provides a better playing surface and is easier to maintain.	Deficiency	2	\$22,845	ASD Cost Estimate		R. Thomas	A
AR-SI-34	Site	Student Parking Entry Drive Improvement	Provide a left turn exit lane at the entry drive serving the student parking lot.	Existing single entry / exit drive at the student parking lot causes parking lot traffic to back up in student lot when students are leaving at end of school day. The addition of a left-turn exit lane will make it easier and quicker for students to exit the parking lot.	Deficiency	2	\$40,433	ASD Cost Estimate		B. Phillips	A
AR-SI-36	Site	Softball Field Drainage Improvements	Provide a Greenshield drainage system at the outfield of the main softball field.	Existing softball outfield drains poorly and is saturated with water for much of the school year.	Deficiency	2	\$95,029	ASD Cost Estimate		B. Phillips M. Newman R. Thomas	A

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AR-SI-37	Site	Track and Field Event Replacement	Replace rubberized surface at running track, pole vault, long jump and high jump areas.	Existing rubberized surface is worn and needs replacement. It does not appear feasible to resurface the existing rubberized track because the added surface material will block the drain-through characteristics of the rubberized surface.	Deficiency	1	\$708,420	DA Hogan		R. Swaim B. Phillips M. Newman R. Thomas	A
AR-EX-01	Exterior	Automatic Door Opener Additions	Provide automatic door opener at building entrances at front of school, gym lobby, theater lobby and door serving bus area.	Building does not have automatic door opener at main entry doors.	Enhancement	3	\$53,763	BLRB Cost Estimate		J. Trauffer M. Newman B. Phillips B. Kenworthy	A
AR-EX-04	Exterior	Exterior Door Hardware Upgrade	Replace exterior door lock cylinders with Primus cylinders.	Primus lock cylinders will improve building security.	Enhancement	2	\$10,887	BLRB Cost Estimate		R. Thomas	A
AR-EX-05	Exterior	Exterior Door Replacement	Replace 6 hollow metal doors at gym lobby entry.	Existing hollow metal doors at gym lobby in poor condition.	Deficiency	3	\$30,058	BLRB Cost Estimate		R. Thomas	A
AR-EX-09	Exterior	Masonry Water Repellant Application	Provide application of water repellant at exterior masonry.	Existing masonry lacks a water repellant coating to protect against moisture penetration.	Deficiency	2	\$160,065	BLRB Cost Estimate		R. Thomas	A
AR-IN-18	Interior	Theater Disabled Seating Signage Addition	Provide disable seating signage at four existing theater seats where removable or folding arm rests are located.	Signage needed to clearly identify location of seating for disabled and to comply with ADA.	Deficiency	3	\$2,445	BLRB Cost Estimate		ADA Consultant	A
AR-IN-20	Interior	Corridor VCT Addition	Replace carpet and rubber base in second floor corridors with VCT and new rubber base.	Existing carpet is 13 years old and permanently stained.	Deficiency	2	\$189,468	BLRB Cost Estimate		R. Thomas	A
AR-EQ-01	Equipment	ADA Grab Bar Additions	Provide ADA compliant side grab bars at all wheel chair accessible toilet stalls and individual toilet rooms.	Grab bars needed to assist the disabled and comply with ADA.	Deficiency	3	\$7,698	BLRB Cost Estimate		ADA Consultant	A
AR-EQ-04	Equipment	Computer Furniture Upgrade	Provide furniture designed for computer and other technology equipment use.	Existing furniture used for computer and technology equipment is lacking and in many cases not designed for this use.	Deficiency	1	\$46,685	ASD Cost Estimate		R. Luke	A
AR-EQ-06	Equipment	Foods Classroom Equipment Replacement	Replace range / ovens, built-in microwave ovens, and exhaust fans at 7 cooking stations in foods classroom.	Existing equipment is in fair condition but past life expectancy.	Enhancement	2	\$24,926	BLRB Cost Estimate		B. Phillips R. Swaim	A
AR-EQ-07	Equipment	Gymnastics Spring Floor Upgrade	Replace existing gymnastics spring floor with a more advanced spring floor system.	Existing gymnastics spring floor is worn and is an older design that is less advanced than newer spring floors.	Enhancement	2	\$80,918	ASD Cost Estimate		R. Swaim	A
AR-EQ-08	Equipment	Kitchen Equipment Replacement	Replace convection ovens and reach-in coolers.	Existing convention ovens malfunction and are past life expectancy. Door seals on reach-in coolers have failed and cannot be replaced.	Deficiency	1	\$41,410	ASD Cost Estimate		R. Swaim R. Thomas	A
AR-EQ-12	Equipment	Main Gym Bleacher Replacement	Replace bleachers in main gym.	Bleachers in main do not operate in a reliable manner.	Enhancement	3	\$258,750	BLRB Cost Estimate		R. Thomas B. Phillips R. Swaim	A
AR-EQ-16	Equipment	Records Storage Cabinet Additions	Provide high-density, rolling file shelving units in records storage room 323.	Additional storage space needed for student records.	Deficiency	2	\$60,376	BLRB Cost Estimate		B. Phillips	A
AR-EQ-17	Equipment	Student Chair / Desk Repair	Replace student combo chair / desks that are damaged.	Existing student combo chair / desks are 13 years old and about 20% are damaged.	Deficiency	1	\$25,542	ASD Cost Estimate		B. Phillips	A



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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AR-EQ-23	Equipment	Projection Screen Addition - Commons	Provide 12' x 12' motorized projection screen in commons.	Large projection screens desired in commons for use during assemblies, community meetings and school meetings. Motorized operation needed because of mounting height of the screens.	Enhancement	2	\$13,973	ASD Cost Estimate		B. Phillips	A
AR-ME-01	Mechanical	AHU Variable Speed Drive Replacement	Replace variable speed drives at 50% of the air handling units.	Existing variable speed drives are unreliable. 50% have been replaced by the Maintenance Department and the remaining 50% should be replaced.	Deficiency	1	\$184,513	Quantum Cost Estimate		R. Thomas	A
AR-ME-02 ECM-M2	Mechanical	Automatic Controls Upgrade	Upgrade control system front end and software to the district standard - BacNet compatible, web based.	BACnet controls will reduce EMS maintenance and service costs.	Operating Cost	1	\$38,570	Quantum Cost Estimate	Estimated 10-year payback period.	Energy Consultant	A
AR-ME-04	Mechanical	Computer Classroom HVAC Improvements	Improve HVAC system serving computer classrooms 200 and 202.	Existing business computer classrooms 200 and 202 overheat and the rooms are uncomfortable for occupants.	Deficiency	1	\$11,057	Quantum Cost Estimate		B. Phillips R. Swaim	A
AR-ME-05	Mechanical	Chiller Compressor Replacement	Replace compressors in chillers that have failed.	Some of the existing compressors in the chillers have failed and need replacement. Existing chillers operating below capacity because of non-functioning compressors.	Enhancement	1	\$89,429	Quantum Cost Estimate		R. Thomas	A
AR-ME-06 ECM-M3	Mechanical	CO2 Control Addition	Expand control system to add CO2 control to the main air handling systems serving the commons, gym and library.	CO2 control will regulate the amount of outside air being delivered to the occupied spaces based on CO2 levels and reduce energy usage.	Operating Cost	1	\$15,428	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant	A
AR-ME-07 ECM-M7	Mechanical	Computer Classroom Heat Pump Addition	Provide dedicated heat pumps for cooling of computer classrooms 801 and 803.	Computer classrooms 801 and 803 overheat and the rooms are uncomfortable for occupants. Dedicated heat pumps will reduce operating hours of the primary HVAC system, improve user comfort and reduce energy costs.	Operating Cost	3	\$128,563	Quantum Cost Estimate	Estimated 15-year payback period.	Energy Consultant	A
AR-ME-08 ECM-M6	Mechanical	Construction / Manufacturing Dust Filter Addition	Provide a dust control fan and filter system for the construction / manufacturing lab to allow the exhaust fan to be disabled except via a hand timer.	Dust control fan and filter system will reduce energy costs and improve indoor air quality.	Operating Cost	2	\$51,425	Quantum Cost Estimate	Estimated 8 year payback period.	Energy Consultant	A
AR-ME-09 ECM-M10	Mechanical	Dishwasher Booster Heater Replacement	Replace 500 MBH Lochinvar booster heater at dishwasher with instantaneous booster heater.	Booster heater replacement will reduce energy costs and eliminate flame failure problems with existing booster heater.	Operating Cost	2	\$32,140	Quantum Cost Estimate	Estimated 10-year payback period.	Energy Consultant	A
AR-ME-11	Mechanical	Fire Sprinkler Head Replacement	Replace fire sprinkler heads throughout building.	Existing fire sprinkler heads have been recommended for recall and replacement by FM Global.	Deficiency	1	\$125,734	Quantum Cost Estimate		R. Thomas	A
AR-ME-13 ECM-M12	Mechanical	Heating Water Boiler Modifications	Retrofit heating water boilers to improve turn-down or add a small pony boiler to handle low load conditions.	Modifications will reduce energy costs.	Operating Costs	2	\$205,700	Quantum Cost Estimate	Estimated 10-year payback period.	Energy Consultant	A
AR-ME-14	Mechanical	Heating Water Circulation Pump Replacement	Replace heating water circulation pumps.	Existing heating water circulation pumps are past life expectancy.	Enhancement	2	\$28,927	Quantum Cost Estimate		R. Thomas	A
AR-ME-15	Mechanical	Heating Water System Control Valve Replacement	Replace control valves at heating water system.	Existing valves leak and are unreliable.	Deficiency	2	\$120,205	Quantum Cost Estimate		R. Thomas	A

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AR-ME-17 ECM-M1	Mechanical	HVAC Control System Commissioning	Commission the HVAC control system to verify proper operation.	Commissioning could improve system operation and reduce energy costs.	Operating Cost	1	\$89,995	Quantum Cost Estimate	Estimated 2-year payback period.	Energy Consultant R. Thomas	A
AR-ME-19 ECM-M14	Mechanical	Kiln Exhaust System Modifications	Reduce the kiln exhaust airflow.	Existing kiln exhaust hood airflow is designed for welding hood and oversized for a kiln. A reduction in airflow will reduce energy costs.	Operating Cost	1	\$2,572	Quantum Cost Estimate	Estimated 2-year payback period.	Energy Consultant	A
AR-ME-21	Mechanical	Natural Gas System Metering	Provide electronic meter for natural gas system connected to energy management system.	Electronic meter will allow remote monitoring of gas service and improve potential for reducing natural gas use.	Operating Cost	2	\$44,741	Quantum Cost Estimate		R. Thomas	A
AR-ME-22 ECM-M5	Mechanical	Occupancy Sensor Temperature Control Addition - Construction / Manufacturing	Provide occupancy sensors connected to the general exhaust fan in construction / manufacturing. Connect domestic water pump in fieldhouse to occupancy sensor and connect lights in gyms to occupancy sensors.	Occupancy sensors will allow the general exhaust fan to be controlled based on occupancy.	Operating Cost	1	\$15,428	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant	A
AR-ME-23 ECM-M4	Mechanical	Occupancy Sensor Temperature Control Addition - Miscellaneous Areas	Provide occupancy sensors connected to the Energy Management System in band and choral rooms, gyms, main building and field house locker rooms. Connect domestic water pump in fieldhouse to occupancy sensor and connect lights in gyms to occupancy sensors.	Occupancy sensors will allow heating system, domestic water heater in field house, and gym lights to be set back when the spaces are unoccupied which will reduce energy costs.	Operating Cost	1	\$38,570	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant	A
AR-ME-25 ECM-W1	Mechanical	Plumbing Fixture Replacement - Partial	Retrofit aerators on sinks.	A reduction in water use will reduce utility costs.	Operating Cost	1	\$12,857	Quantum Cost Estimate	Estimated 2-year payback period.	Energy Consultant	A
AR-ME-26	Mechanical	Student Store HVAC Improvements	Improve HVAC system at student store 308 to eliminate overheating.	Existing student store overheats because of cooking and refrigeration equipment used in the space.	Deficiency	1	\$12,085	Quantum Cost Estimate		R. Thomas	A
AR-ME-28 ECM-M9	Mechanical	Variable Speed Drive Replacement	Replace variable speed drive at air handling unit serving office area.	Existing variable speed drive has failed.	Operating Cost	1	\$9,000	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant	A
AR-ME-29 ECM-M8	Mechanical	Variable Speed Drive Retrofit - Science Rooms	Retrofit science room air handling units with variable speed drives to reduce air flow when the science classrooms are not in use.	Air handling unit retrofit will reduce energy costs.	Operating Cost	1	\$38,570	Quantum Cost Estimate	Estimated 5-year payback period.	Energy Consultant	A
AR-ME-30 ECM-M13	Mechanical	Variable Speed Drive Retrofit - Water Pumps	Retrofit the chilled water pumps and hot water pumps with variable speed drives and change control valves at the coils to 2-way valves.	Pump retrofit and valve change will reduce energy costs.	Operating Cost	2	\$128,563	Quantum Cost Estimate	Estimated 7-year payback period.	Energy Consultant	A
AR-EL-06	Electrical	Data Outlet Additions - Commons and Theater	Provide 4 data outlets in commons and 4 at stage in theater. Locate adjacent to existing electrical outlets.	Data outlets desired in commons and theater for use during special programs and events.	Enhancement	2	\$12,342	Quantum Cost Estimate		B. Phillips	A
AR-EL-08 ECM-L4	Electrical	Daylighting Control Addition	Provide daylighting control to the light fixtures in the entry foyer and commons.	Daylighting control will cut back on electrical lighting when ambient daylight is adequate to provide required illumination level, and will reduce energy costs.	Operating Cost	2	\$25,713	Quantum Cost Estimate	Estimated 7-year payback period.	Energy Consultant	A
AR-EL-09	Electrical	Electrical Service Metering	Provide electronic meter for electrical service connected to energy management system.	Electronic meter will allow remote monitoring of electrical service and improve potential for reducing electrical use.	Operating Cost	3	\$49,883	Quantum Cost Estimate		R. Thomas	A

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AR-EL-11 ECM-L3	Electrical	Exterior Lighting Upgrade	Replace HID fixtures on the exterior of the building with compact fluorescent. Retrofit parking lot lights with pulse start metal halide or inductive lighting.	HID and parking lot light fixture replacement will reduce energy costs.	Operating Cost	2	\$25,713	Quantum Cost Estimate	Estimated 10-year payback period.	Energy Consultant B. Kenworthy	A
AR-EL-16 ECM-L2	Electrical	Interior Lighting Replacement - Gym and Entry Foyer	Replace HID fixtures in gyms and entry foyer with new fixtures using T-8 or T-12 technology and provide a minimum of 30 foot-candle illumination in gyms.	Existing illumination level in gyms is below district's minimum standard. Fixture replacement will reduce energy costs and increase illumination levels.	Operating Cost & Deficiency	2	\$25,713	Quantum Cost Estimate	Estimated 7-year payback.	Energy Consultant B. Kenworthy	A
AR-EL-17 ECM-L1	Electrical	Interior Lighting Retrofit - Corridors	Retrofit T-8 light fixtures in corridors to reduce total number of fixture lamps.	Fixture retrofit will reduce energy costs.	Operating Cost	1	\$64,282	Quantum Cost Estimate	Estimated 5-year payback period.	Energy Consultant	A
AR-EL-20	Electrical	Library Data and Electrical Outlet Additions	Provide 24 additional data outlets and 36 additional electrical outlets at student computer area in library.	Additional data outlets desired to accommodate more student computers in library. Additional electrical capacity needed to adequately accommodate existing and additional student computers in library.	Deficiency	1	\$74,052	Quantum Cost Estimate		B. Phillips	A
AR-EL-22	Electrical	MC Room Improvements	Add electrical capacity, add a 8' high - 2 post rack, re-rack and re-cable existing data communications equipment to improve organization within room.	MC room needs additional electrical capacity to adequately accommodate existing and future equipment. Existing cabling and equipment within room is not well organized which makes it difficult to maintain.	Enhancement	2	\$22,010	Quantum Cost Estimate		B. Phillips J. Milks	A
AR-EL-23 ECM-L5	Electrical	Occupancy Sensor Lighting Control Addition	Provide occupancy sensors in the commons and gyms to turn off lights when the spaces are unoccupied.	Occupancy sensors will reduce energy costs.	Operating Cost	1	\$25,713	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant	A
AR-EL-26	Electrical	Sound System Upgrades	Upgrade sound systems in commons, auxiliary and main gyms.	Existing sound systems have poor sound quality and are past life expectancy.	Deficiency	1	\$89,711	Quantum Cost Estimate		B. Phillips	A
AR-EL-27	Electrical	Surveillance Camera Addition	Provide surveillance camera system to monitor parking lots and areas around building with monitoring capability at each administrator's desk.	Existing surveillance camera coverage is minimal. A new surveillance camera system will improve campus supervision and could reduce vandalism and theft.	Enhancement	1	\$138,591	Quantum Cost Estimate		B. Phillips M. Newman R. Luke	A
AR-EL-30	Electrical	Theater Electrical Outlet Additions	Provide 8 additional dedicated 30 amp electrical outlets in theater with 2 in located in control room, 2 in workroom, and 2 at each side of the lighting catwalks.	Additional electrical outlets needed in theater to accommodate existing equipment.	Deficiency	2	\$19,487	Quantum Cost Estimate		P. Smith	A
AR-EL-33	Electrical	Intrusion Alarm Audible Signal Upgrade - Intercom System	Connect intrusion alarm system to intercom system to provide audible alarm.	Use of audible alarm could reduce intrusions and false alarms.	Enhancement	2	\$14,142	ASD Cost Estimate		M. Newman	A
AR-MD-07	Modernization	Construction / Manufacturing Wall Removal	Remove wall between construction / manufacturing classroom 504 and adjacent shop area 505.	Removal of wall is desired to improve visual supervision of lab area from classroom. Existing wall has interior relite windows and was required by building code when school was constructed.	Enhancement	2	\$28,103	BLRB Cost Estimate		B. Phillips R. Swaim	A
AR-MD-08	Modernization	Darkroom Modernization	Convert darkroom 348C to a computer lab with 12 computer stations with lab opening directly into visual communications classroom 348.	Current viscom program has greater need for computer lab that can also be used for digital photography than the existing chemical darkroom.	Enhancement	1	\$65,982	BLRB Cost Estimate		B. Phillips R. Swaim	A

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AR-MD-09	Modernization	Drama Office Addition	Provide a 100 SF office with relites in the drama classroom.	An office is desired in the drama classroom to allow the instructor's computer equipment and work area to be secured when classroom is used as a green room by community organizations.	Enhancement	2	\$18,328	BLRB Cost Estimate		B. Phillips P. Smith	A
AR-MD-11	Modernization	Electronics Classroom Storage Modernization	Convert the north section of resource room 347 to a 96 SF electronic classroom storage area with direct access from electronic classroom 349.	Building does not have a dedicated storage room for electronics equipment and supplies. A portion of resource room 349 can be better utilized for electronics storage.	Deficiency	2	\$14,076	BLRB Cost Estimate		B. Phillips B. Kenworthy	A
AR-MD-21	Modernization	Music Area Storage Modernization	Convert instrument storage room 513 to a uniform and sound equipment storage room for orchestra / choral and large instrument storage room for band.	Existing music storage areas are not adequate to accommodate storage for orchestra / choral uniforms and sound equipment, and large band instruments. Existing instrument storage room 513 is crowded and difficult to supervise. Room 513 is better suited for storage if instrument storage cabinets can be added to orchestra / choral and band rooms.	Deficiency	1	\$8,422	BLRB Cost Estimate		B. Phillips	A
AR-MD-22	Modernization	Music Instrument Storage Upgrade	Provide locking storage cabinets for instruments at perimeter walls of band and orchestra / choral classrooms.	Existing musical instrument storage room is crowded, does not have cabinets that lock and fit all instruments, and is difficult to supervise.	Deficiency	2	\$73,459	BLRB Cost Estimate		B. Phillips	A
AR-MD-27	Modernization	Science Classroom Modernization	Convert classroom 710 to a general science classroom with cabinets and student work stations at perimeter of room.	An additional science classroom is needed. Classroom 710 has rough-in for future science work stations at perimeter of room that includes plumbing, acid waste and vent, and natural gas.	Enhancement	2	\$209,821	BLRB Cost Estimate		B. Phillips M. Newman	A
AR-MD-42	Modernization	Video Lab Interior Window Addition	Provide an interior relite window between video lab 348A and viscom classroom 348.	Interior window desired between video lab and viscom classroom to allow instructor to visually supervise students in video lab.	Enhancement	1	\$4,372	BLRB Cost Estimate		B. Phillips	A
AR-SI-29	Site	Traffic Signal Addition	Provide manually activated traffic signal at Oravetz Road crosswalk at front of school.	Traffic signal needed at existing crosswalk for improved safety and traffic flow. Existing crosswalk and stop signs difficult to see. Replacing stop signs with manually activated signal light will improve visibility and eliminate the need for cars to stop on Oravetz Road unless signal is activated.	Health / Safety	2	\$488,750	BLRB Cost Estimate	Not cost effective.	B. Phillips	B
AR-SI-35	Site	Pedestrian Bridge Addition	Provide pedestrian bridge across Oravetz Road at front of school.	Pedestrian bridge desired for improved safety and traffic flow. Existing crosswalk and stop signs difficult to see and numerous students cross Oravetz Road at this location for access to student parking lot and tennis courts.	Enhancement	2	\$651,950	BLRB Cost Estimate		B. Phillips	B
AR-IN-08	Interior	Classroom Wainscot Addition	Provide protective wainscot at exterior and back walls in classrooms.	Existing sheet rock walls in classrooms are susceptible to and damaged in areas from normal wear and tear. Exterior walls and back walls, opposite of front of classroom, are most vulnerable because they have the greatest exposure to student's chairs. Other walls in rooms usually have computers, teacher's desk and whiteboards. Wainscot installation will reduce damage and maintenance costs.	Enhancement	2	\$146,258	BLRB Cost Estimate		R. Thomas	B

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AR-IN-10	Interior	Corridor Wainscot Addition	Increase height of MDF wainscot in corridors from 4' to 7'.	Additional wainscot height desired to protect walls from damage.	Enhancement	1	\$137,460	BLRB Cost Estimate		B. Phillips R. Thomas	B
AR-IN-17	Interior	Tackboard Additions	Provide 8 LF of additional tackboards in classrooms.	Tackboard space in existing classrooms do not meet district's minimum standards. Additional tackboards needed for student and classroom displays.	Deficiency	2	\$29,716	BLRB Cost Estimate		B. Phillips B. Kenworthy	B
AR-IN-21	Interior	Corridor Vinyl Wall Covering Addition - Selected Display Areas	Provide vinyl wall covering at selected display areas in corridors.	Vinyl wall covering desired to improve appearance of corridors and to make it possible for displays to be pinned to walls without damage.	Enhancement	2	\$40,414	ASD Cost Estimate		B. Phillips R. Thomas	B
AR-EQ-02	Equipment	Baseball and Softball Field Bleacher Addition	Provide one section of additional aluminum bleachers at baseball and softball fields, each 21' long x 8 rows deep, with covered scorekeeping area.	Additional bleachers needed to accommodate more spectators. Covered area needed to keep scorekeepers dry.	Enhancement	2	\$31,050	BLRB Cost Estimate		R. Swaim M. Newman	B
AR-EQ-03	Equipment	Classroom and Office Furniture Upgrade	Provide new chairs for teachers and office staff, new 3'x6' tables in classrooms, and new teacher presentation tables.	Existing staff chairs are worn and should be replaced with chairs that are adjustable and provide better support. Existing 3'x6' classroom tables are wearing out and approaching their life expectancy. Additional presentation tables needed in classrooms.	Deficiency	2	\$297,586	ASD Cost Estimate		B. Phillips	B
AR-EQ-05	Equipment	Fieldhouse Equipment Additions	Provide portable benches and marker boards in locker rooms at fieldhouse.	Benches and marker boards needed for coaches and athletes to use in locker rooms.	Deficiency	2	\$9,938	ASD Cost Estimate		B. Phillips	B
AR-EQ-10	Equipment	Locker Room Box Locker Additions	Provide 100 additional box lockers in boy's and girl's locker rooms.	PE classes need additional box lockers. Existing quantity of box lockers do not meet district's minimum standards.	Deficiency	2	\$34,500	BLRB Cost Estimate		B. Kenworthy	B
AR-ME-03	Mechanical	Chemical Storage Room Exhaust System Upgrade	Increase exhaust system capacity at science chemical storage room 704A.	Existing exhaust system does not fully remove odors from chemicals stored in room.	Deficiency	2	\$30,598	Quantum Cost Estimate		B. Phillips B. Kenworthy	B
AR-EL-13	Electrical	Football / Soccer Field Light Fixture Modifications	Realign exterior light fixtures at six 80' tall poles at football / soccer field.	Existing wood poles have twisted and moved fields lights out of proper alignment.	Deficiency	2	\$40,368	Quantum Cost Estimate		R. Swaim R. Thomas	B
AR-EL-28	Electrical	Television System Expansion	Provide cable television outlet in each classroom and upgrade television system headend equipment in library to accommodate expanded system.	Existing television system is limited to cable television outlets in commons, library and theater, conduit rough-in for outlets in classrooms, and limited television headend equipment in library. System needs to be fully expanded to classrooms for instructional use.	Deficiency	2	\$264,068	Quantum Cost Estimate		B. Phillips	B
AR-EL-29	Electrical	Theater Closed Circuit TV System Addition	Provide closed circuit television system with sound feed that shows images of the stage on monitors in the control booth, green room, and lobby.	Closed circuit television system with sound feed desired to allow staff and performers to monitor performances from control booth, green room, and to allow audience to monitor performance from lobby.	Enhancement	2	\$47,826	Quantum Cost Estimate		P. Smith	B
AR-MD-37	Modernization	Theater Control Room Modifications	Replace fixed interior window between control room and theater with operable window. Relocate sound board equipment from top of control room into control room.	Operable window needed at control room to allow technician's in control room open window to hear theater activities. Sound board's current location on top of control room requires access by ladder which is inconvenient and unsafe. Sound board use will be improved if located in control booth.	Deficiency	2	\$27,073	BLRB Cost Estimate		P. Smith	B

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AR-MD-45	Modernization	Athletic Storage / Wrestling Room Additions	Provide additional storage space for athletic team's uniforms and equipment. Provide an additional PE station that can also be used for wrestling practice. Provide a vending machine alcove in gym lobby.	See Improvement Justifications AR-MD-01, 41 and 44.	Enhancement	2	\$4,489,352	BLRB Cost Estimate		B. Phillips R. Kenworthy R. Swaim	B
AR-IN-02	Interior	Auxiliary Gym Game Line Additions	Provide game lines for a new basketball court in center of auxiliary gym, perpendicular to existing courts. Add retractable backboards at each end of new court. Locate game lines to allow use of existing bleachers at west end of new basketball court.	Auxiliary gym is used for freshman basketball games. Existing auxiliary gym will not accommodate bleacher seating for basketball games because bleachers are too far away from basketball court for viewing. A new basketball court could be provided that would allow use of existing bleachers at one end of court.	Enhancement	3	\$12,220	BLRB Cost Estimate		R. Swaim	B*
AR-SI-03	Site	Baseball Synthetic Turf Addition	Provide infill system synthetic turf at baseball field.	Existing grass turf baseball field can be used only part of the school year and requires considerable maintenance and irrigation to provide a safe and durable playing surface. Synthetic turf would provide a better surface that could be used all year and cost less to maintain.	Enhancement	2	\$2,260,327	DA Hogan		B. Phillips R. Swaim	B+
AR-SI-05	Site	Baseball Field Netting Addition	Provide ball netting at north and west sides of baseball field.	Ball netting needed to reduce number of balls hit into adjacent park and private property.	Deficiency	2	\$164,953	BLRB Cost Estimate		R. Thomas	B+
AR-SI-19	Site	Pipe Rail Gate Additions	Provide a pipe rail gate at existing driveway entrances at Oravetz Road to student and staff parking lots.	Pipe rail gate needed to close parking lot during school hours and to secure parking lot at night and on weekends.	Deficiency	3	\$24,438	BLRB Cost Estimate		B. Phillips	B+
AR-SI-32	Site	Softball Field Synthetic Turf Addition	Provide infill system synthetic turf at south softball field.	Existing grass turf softball field can be used only part of the school year and requires considerable maintenance and irrigation to provide a safe and durable playing surface. Synthetic turf would provide a better surface that could be used all year and cost less to maintain.	Enhancement	3	\$1,255,248	DA Hogan		B. Phillips R. Swaim	B+
AR-EX-07	Exterior	Exterior Window Glass Replacement	Replace glazing at exterior windows that have been permanently stained by chemicals.	Glass at some exterior windows has been stained by chemicals and cannot be cleaned. Stains obscure view through window.	Deficiency	2	\$60,600	BLRB Cost Estimate		B. Phillips R. Thomas	B+
AR-EQ-22	Equipment	Weight Room Equipment Replacement	Replace out-of-date weight room equipment.	Some of the existing fitness equipment is out-of-date or past its life expectancy.	Enhancement	2	\$74,248	ASD Cost Estimate		B. Phillips	B+
AR-SI-01	Site	ADA Site Improvements	Provide miscellaneous site improvements to comply with ADA standards that do not significantly affect access to building.	Miscellaneous site areas, which do not significantly affect access to the building, could be improved to comply with current ADA standards.	Enhancement	3	\$71,968	BLRB Cost Estimate	Minor deficiency.	ADA Consultant	C
AR-SI-02	Site	Baseball and Softball Field Drainage Improvements	Provide underdrain system at baseball infield and main softball field infield and outfield.	Existing baseball infield and entire softball field drain poorly and are saturated with water for much of the school year. Underdrain system previously installed at baseball outfield.	Enhancement	2	\$525,122	BLRB Cost Estimate	Not cost effective. See AR-SI-36 for a portion of these improvements.	B. Phillips M. Newman R. Thomas	C

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AR-SI-04	Site	Baseball and Softball Infield Improvements	Add and regrade soil at baseball and softball infields. Add clay block soil amendment to baseball field's pitcher's mound and batter's box.	Existing soil at infields is uneven and clay block is needed at baseball field's pitcher's mound and batter's box to improve drainage.	Deficiency	3	\$109,614	BLRB Cost Estimate	Minor deficiency. See AR-SI-33 for a portion of these improvements.	R. Thomas	C
AR-SI-06	Site	Bicycle Rack Addition	Provide additional bike racks for 12 bikes.	Existing bike rack will accommodate 18 bikes and district's minimum standard identifies space for 30 bikes.	Deficiency	4	\$5,865	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
AR-SI-09	Site	Disabled Parking Stall Signage Upgrade	Replace damaged and missing disabled parking signs and add signs for van accessible stalls.	Disabled parking signs need to be added and replaced to clearly identify accessible parking stalls and to comply with ADA.	Deficiency	2	\$733	BLRB Cost Estimate	Maintenance item.	ADA Consultant	C
AR-SI-11	Site	Exterior Bench Additions	Provide 2 ribbon-metal exterior benches at front entry and 8 at student courtyard.	Exterior benches needed at front entry for students and visitors to use when waiting to be picked up. Exterior benches needed at courtyard for students to use.	Deficiency	3	\$29,325	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
AR-SI-12	Site	Exterior Waste Receptacle Upgrade	Provide ornamental waste receptacle at front entry and entries to theater and gym.	Existing exterior waste receptacles at main entry doors are unattractive galvanized cans.	Enhancement	2	\$5,340	BLRB Cost Estimate	Minor need.	R. Thomas	C
AR-SI-24	Site	Student Parking Access Improvements	Provide an additional entry / exit with a pipe rail gate at the student parking lot at the south side of the school.	Existing single entry / exit drive causes south parking lot traffic to back up in student lot when students are leaving at end of school day. As a result, it takes students a long time to exit from the lot and can cause unsafe exiting. A pipe rail gate is needed to allow the parking lot to be secured.	Deficiency	2	\$51,536	BLRB Cost Estimate	Not feasible to add a second entry because of location of bus entry drive. See AR-SI-34 for a portion of these improvements.	B. Phillips	C
AR-SI-25	Site	Student Pick Up / Drop Off Expansion	Provide 14 to 24 additional parking stalls on-site for student pick up and drop off.	Existing school has space for 6 vehicles to pick-up and drop off students at front parking lot. Parent's also park in driveways at staff parking to pick up students. District's standards identify 20 to 30 stalls.	Deficiency	2	\$372,256	BLRB Cost Estimate	Not cost effective.	B. Phillips	C
AR-SI-26	Site	Tennis Court Net Post Replacement	Replace net posts and net tie-down base at 9 tennis courts.	Existing net posts and net tie-down at center of court are rusting.	Deficiency	2	\$43,988	BLRB Cost Estimate	Maintenance item.	B. Phillips	C
AR-IN-01	Interior	ADA Building Improvements	Provide miscellaneous building improvements to comply with ADA standards that do not significantly affect access within the building.	Miscellaneous building areas, which do not significantly affect access within the building, could be improved to comply with current ADA standards.	Enhancement	3	\$324,323	BLRB Cost Estimate	Minor deficiency.	ADA Consultant	C
AR-IN-04	Interior	Band Equipment Wainscot Addition	Provide 4' high wainscot in band equipment storage room 511.	Wainscot needed in storage room to protect walls from damage by equipment stored in room.	Deficiency	2	\$5,205	BLRB Cost Estimate	Maintenance item.	B. Kenworthy	C
AR-IN-05	Interior	Cabinet Additions	Provide 12 LF of tall bookshelves in ten language arts classrooms.	Existing book shelving in language arts classroom is inadequate and does not meet district's minimum standard.	Deficiency	2	\$36,657	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
AR-IN-06	Interior	Carpet Replacement	Replace carpet throughout building.	Existing carpet in fair condition.	Enhancement	2	\$1,457,942	BLRB Cost Estimate	Minor need in classrooms. See AR-IN-20 for a portion of these improvements.	R. Thomas	C
AR-IN-09	Interior	Corridor Vinyl Wall Covering Addition - All Areas	Provide vinyl wall covering at corridor walls above lockers and wainscot.	Vinyl wall covering desired to improve appearance of corridors and to make it possible for displays to be pinned to walls without damage.	Enhancement	2	\$80,827	BLRB Cost Estimate	Not needed in all areas. See AR-IN-21 for a portion of these improvements.	B. Phillips R. Thomas	C

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AR-IN-11	Interior	Display Case Addition	Provide 12 LF of additional display case in gym lobby.	Additional display cases desired to display school awards and trophies.	Enhancement	3	\$14,663	BLRB Cost Estimate	Minor need.	B. Kenworthy	C
AR-IN-16	Interior	Staff Mailbox Additions	Modify cabinets at mail room 321 to provide 30 additional mail slots with tote trays.	Additional mail boxes needed to accommodate staff.	Deficiency	4	\$4,888	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
AR-EQ-15	Equipment	Projection Screen Additions	Provide 12' x 12' motorized projection screen in main gym and commons.	Large projection screens desired in main gym and commons for use during assemblies and large meetings. Motorized operation needed because of mounting height of the screens.	Enhancement	2	\$26,220	BLRB Cost Estimate	Not needed in gym. See AR-EQ-23 for a portion of these costs.	B. Phillips	C
AR-ME-12	Mechanical	Fire Sprinkler System Bracing	Provide additional seismic bracing to existing fire sprinkler system in compliance with FM Global standards.	Additional bracing will reduce risk of broken fire sprinkler lines during an earthquake.	Enhancement	2	\$205,700	Quantum Cost Estimate	Minor deficiency and not cost effective.	M. Newman	C
AR-ME-20	Mechanical	Lost and Found Ventilation Addition	Provide ventilation at lost and found storage room 315.	Ventilation needed to remove odors.	Deficiency	2	\$46,026	Quantum Cost Estimate	Minor deficiency.	B. Kenworthy	C
AR-ME-27	Mechanical	Telecommunication Rooms Cooling and Ventilation Addition	Provide independent mechanical ventilation and cooling system in existing MC room and HC rooms.	Existing MC and HC rooms lack independent HVAC systems needed to keep data equipment from overheating and damaging equipment.	Deficiency	1	\$43,454	Quantum Cost Estimate	Minor deficiency because existing room has a good ventilation system.	N. Vein	C
AR-ME-31	Mechanical	Water Quality Improvements	Replace plumbing at sink in kitchen, two science rooms, and one drinking fountain.	Water quality tests at 3 sinks and one drinking fountain exceeded EPA water quality standards for lead or copper.	Health / Safety	2	\$10,156	Quantum Cost Estimate	Not needed. Further testing revealed water quality standards being	B. Kenworthy	C
AR-EL-01	Electrical	Baseball Field Lighting Addition	Provide exterior lights at baseball field.	Exterior lights would allow teams to play night games which will expand field availability and improve attendance by parents and umpires.	Enhancement	3	\$462,825	Quantum Cost Estimate	Not cost effective.	R. Swaim	C
AR-EL-02	Electrical	Ceiling Mounted LCD Projector Addition	Provide ceiling mounted LCD projector and associated AV and power outlets in each classroom with connection to teacher's work station.	Ceiling mounted projectors desired for ease of use, to reduce theft, and to protect equipment and cables from damage.	Enhancement	1	\$1,373,048	Quantum Cost Estimate	Not cost effective.	R. Luke R. Thomas M. Newman B. Phillips R. Swaim	C
AR-EL-04	Electrical	Data Communications Equipment Upgrade	Upgrade data communications equipment filter, router, switch, traffic shaping and connectivity speed.	Existing filter, router, switch, traffic shaping and connectivity speed do not meet district's minimum standards.	Deficiency	1	\$237,218	ASD Cost Estimate	Minor deficiency.	N. Vien	C
AR-EL-07	Electrical	Data Outlet Additions - Fieldhouse	Provide a data outlet in two coaches room in fieldhouse.	Data outlets desired to allow coaches to use networked computers at offices in fieldhouse.	Deficiency	2	\$9,257	Quantum Cost Estimate	Minor deficiency.	R. Swaim	C
AR-EL-10	Electrical	Exterior Lighting Level Improvements	Provide additional illumination at bus area and tennis courts.	Existing exterior lighting at bus area and tennis courts lacks adequate illumination levels and is below district's minimum standards.	Health / Safety & Deficiency	2	\$365,633	Quantum Cost Estimate	Minor deficiency and a portion of these improvements included in AR-EL-11.	B. Kenworthy	C
AR-EL-14	Electrical	Football / Soccer Field Light Pole Upgrade	Replace six 80' tall wooden light poles at football / soccer field with metal poles.	Existing wood poles have twisted and moved fields lights out of proper alignment.	Enhancement	2	\$368,718	Quantum Cost Estimate	Not cost effective.	R. Swaim	C
AR-EL-15	Electrical	Interior Lighting Level Improvements	Provide additional illumination at kitchen.	Existing lighting at kitchen lacks adequate illumination levels and is below the district's minimum standards.	Deficiency	2	\$12,857	Quantum Cost Estimate	Minor deficiency.	B. Kenworthy	C
AR-EL-18	Electrical	Intrusion Alarm Audible Signal Upgrade - Intrusion System	Upgrade intrusion alarm system to provide audible alarm.	Use of audible alarm could reduce intrusions and false alarms.	Enhancement	2	\$84,337	Quantum Cost Estimate	Not cost effective. See AR-EL-33 for alternate method.	M. Newman	C



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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AR-EL-24	Electrical	Softball Field Lighting Addition	Provide exterior lights at south softball field.	Exterior lights would allow teams to play night games which will expand field availability and improve attendance by parents and umpires.	Enhancement	3	\$308,550	Quantum Cost Estimate	Not cost effective.	R. Swaim	C
AR-EL-25	Electrical	Softball Field Scoreboard Addition	Provide electronic scoreboard at south softball field. Extend electrical power and control from existing power source at dugout area.	Scoreboard needed to display score and game information for softball games.	Deficiency	3	\$68,859	Quantum Cost Estimate	Minor deficiency.	R. Swaim B. Kenworthy	C
AR-EL-31 ECM-L6	Electrical	Vending Machine Sensor Addition	Provide sensors at vending machines to shut off vending machine illumination when the spaces are unoccupied.	Sensors will reduce energy costs.	Operating Cost	1	\$1,285	Quantum Cost Estimate	Maintenance item which can be completed at no cost by vending machine company.	Energy Consultant	C
AR-EL-32	Electrical	Wireless Data Communications Upgrade	Provide data outlets and equipment for a wireless network with secure access using school district computers in commons, library, main office area, gyms and each classroom wing.	Wireless communications system desired throughout school to allow expansion of computer use by students, staff and visitors.	Enhancement	1	\$128,049	Quantum Cost Estimate		B. Phillips	C
AR-MD-04	Modernization	Auxiliary Gym Spectator Improvements	Provide game lines for a new basketball court in center of auxiliary gym, perpendicular to existing courts. Add retractable backboards at each end of new court. Add motorized, telescoping bleacher with built-in controls for sound system, scoreboard and shot clocks at south side of gym.	Auxiliary gym is used for freshman basketball games. Existing auxiliary gym will not accommodate bleacher seating for basketball games. Existing bleachers in gym are too far away from basketball court for viewing. The addition of a new court, perpendicular to existing courts, with bleachers at south wall would allow basketball games with spectator bleachers to be used without expanding size of gym.	Enhancement	3	\$505,857	BLRB Cost Estimate	Minor deficiency and not cost effective.	R. Swaim	C
AR-MD-06	Modernization	Building Security Door Additions	Provide additional interior doors in corridors 071 and 074 at second floor to restrict access during non-school hours.	Second floor level cannot be fully closed off from main floor. This allows access to many areas of the building when the first floor library or commons are used during non-school hours.	Enhancement	2	\$36,657	BLRB Cost Estimate	Not feasible to add doors to restrict access because access will remain available from other directions.	B. Phillips	C
AR-MD-14	Modernization	Field House Vending Machine Alcove Addition	Provide alcove with electrical power and field house to accommodate two vending machines.	Vending machine area desired so that beverages can be purchased by athletes and spectators.	Enhancement	3	\$7,332	BLRB Cost Estimate	Minor need.	B. Phillips	C
AR-MD-15	Modernization	Fine Dining Area Addition	Convert kitchenette and commons storage room to a fine dining seating area.	A fine dining seating area is desired for use by the culinary arts program.	Enhancement	2	\$38,490	BLRB Cost Estimate	Minor need.	B. Phillips R. Swaim	C
AR-MD-20	Modernization	Marketing Office Relite Addition	Provide interior relite window between marketing office 201A and marketing classroom 201.	Relite window desired to allow visual supervision of marketing classroom from office.	Deficiency	3	\$4,372	BLRB Cost Estimate	Not cost effective.	B. Kenworthy	C
AR-MD-23	Modernization	OT / PT Office Modernization	Convert conference room 340A into an OT / PT office with direct access from main corridor.	Building does not have a dedicated office of OT / PT. Existing conference room 340A can be better used for an OT / PT office.	Deficiency	3	\$25,231	BLRB Cost Estimate	Minor deficiency.	B. Phillips B. Kenworthy	C
AR-MD-24	Modernization	Public Restroom Building Addition	Provide a public restroom building near tennis courts and competition baseball and softball fields.	Public restroom facility desired to provide toilet facilities for athletes and spectators.	Enhancement	3	\$298,627	BLRB Cost Estimate	Not cost effective.	B. Odman M. Newman	C

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AR-MD-30	Modernization	Special Education Restroom Addition	Provide restrooms in special education classrooms 405 and 409.	Restrooms desired within classrooms for improved access by and supervision of students.	Deficiency	2	\$77,863	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
AR-MD-31	Modernization	Sports Medicine Classroom Modernization	Modify standard classroom 711 to provide sports medicine classroom.	School does not have a dedicated teaching station for sports medicine program.	Deficiency	4	\$33,235	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
AR-MD-34	Modernization	Teaching Station Window Additions	Provide exterior windows at auxiliary gym, main gym, and band and construction / manufacturing classrooms.	Existing rooms do not have exterior windows and exposure to daylight.	Enhancement	4	\$51,954	BLRB Cost Estimate	Minor need.	B. Kenworthy	C
AR-MD-38	Modernization	Theater Technician's Office Modernization	Convert a portion of storage room 530 to a theater technician's office with interior relite window to workroom 525.	Theater technician currently has a work desk area in theater workroom. A dedicated space for technician's office needed to provide a secure area that can be closed off from workroom activities.	Deficiency	2	\$14,418	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
AR-MD-46	Modernization	Fieldhouse Concession / Drama Storage Additions	Provide a concession stand at the field house and additional space for drama storage.	See Improvement Justifications AR-MD-10 and 13.	Enhancement	2	\$396,817	BLRB Cost Estimate	Minor need and not cost effective.	B. Phillips	C
AR-SI-07	Site	Bus Parking Stall Additions	Provide striping for 8 additional bus parking stalls at south end of bus loading area adjacent to existing bus loading railings.	Bus loading area built to accommodate 28 buses. Existing striping provided for 20 bus stalls. There is space to stripe 8 additional stalls if staff vehicles are required to park in another area. Additional bus stalls needed to accommodate current enrollment level.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	J. Denton	NA
AR-SI-16	Site	Javelin Area Upgrade	Provide synthetic surface runway for javelin throw.	Synthetic surface runway desired to provide all-weather, high-quality runway.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency and not a district standard.	R. Swaim	NA
AR-SI-17	Site	Landscape Plant Improvements	Prune and replace overgrown shrubs and trees at front entry area. Prune and replace plants at some of the landscape islands.	Existing shrubs and trees located at front entry area are overgrown. Plants at some of the landscape islands are missing or overgrown.	Enhancement	NA	NA	No Cost Estimate	Maintenance item.	R. Thomas	NA
AR-SI-20	Site	Pipe Rail Gate Improvement	Provide reflective tape on pipe rail vehicle gates.	Existing pipe rail gates do not have reflective tape and can be difficult to see at night.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Kenworthy	NA
AR-SI-21	Site	Running Track and Field Event Upgrade	Repair and resurface rubberized surface at running track, pole vault, long jump and high jump areas.	Existing rubberized surface is worn and needs a new topcoat. Some areas of the track and much of the high jump area have seam separation that needs repair prior to resurfacing.	Deficiency	1	\$337,838	DA Hogan	Costs included in AR-SI-37.	R. Swaim B. Phillips M. Newman R. Thomas	NA
AR-SI-22	Site	Stadium Bleacher Surface Improvements	Provide non-slip surface at steps at stadium bleachers.	Existing aluminum bleachers are slippery when wet.	Health / Safety	NA	NA	No Cost Estimate	Maintenance item.	B. Phillips	NA
AR-SI-23	Site	Staff Parking Modifications	Relocate staff parking stalls from back side of bus loading area to the staff parking lot.	Existing staff parking stalls at bus loading area reduces availability of bus parking stalls and inhibits the maneuvering of buses.	Deficiency	NA	NA	No Cost Estimate	School operational change.	J. Denton	NA
AR-SI-28	Site	Traffic Control Sign Replacement	Replace traffic control signs that are worn or damaged.	Some existing traffic control signs are worn or damaged and should be replaced.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Kenworthy	NA
AR-SI-31	Site	Visitor Parking Expansion	Provide 5 additional parking stalls for visitors at front entry.	Existing visitor parking area has 15 stalls and district's minimum standard identifies 20 stalls.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency and not cost effective.	B. Kenworthy	NA
AR-EX-02	Exterior	Bus Canopy Painting	Clean bus canopy and paint areas of rust.	Existing galvanized steel bus canopy has some rust areas and dirt build-up.	Enhancement	NA	NA	No Cost Estimate	Maintenance item.	R. Thomas B. Kenworthy	NA

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AR-EX-03	Exterior	Exterior Door and Frame Painting	Paint exterior hollow metal doors and frames.	Existing paint is in fair condition.	Enhancement	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	B. Phillips R. Thomas	NA
AR-EX-06	Exterior	Exterior Expansion Joint Caulking Repair	Repair caulking and joint backing at exterior masonry expansion joints where damaged by vandalism.	Existing exterior caulking joints are in good condition but have been damaged in some limited areas by vandalism.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	R. Thomas	NA
AR-EX-08	Exterior	Exterior Window Upgrade	Replace dual-glazed, thermal pane windows with dual-glazed windows with integral blinds.	Integral blinds will reduce damage to and maintenance of window blinds.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency and not cost effective.	R. Thomas	NA
AR-IN-03	Interior	Auxiliary Gym Wall Repair	Repair and repaint areas of damaged sheet rock in auxiliary gym.	Sheet rock walls damaged in some area in auxiliary gym.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Phillips	NA
AR-IN-07	Interior	Ceiling Tile Replacement	Replace suspended ceiling panels that are stained.	Some existing suspended ceiling tile throughout the building are stained.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Phillips	NA
AR-IN-12	Interior	Display Case Repair	Repair damage display cases.	Some display cases need repair.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Phillips	NA
AR-IN-13	Interior	Interior Door Repair	Repair interior doors.	Some interior doors need repair.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Phillips	NA
AR-IN-14	Interior	Interior Painting	Paint building interior.	Existing paint is in fair condition.	Enhancement	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Thomas B. Phillips	NA
AR-IN-15	Interior	Interior Signage Replacement	Replace damaged and missing room signs at building interior.	Some existing room signs are damaged or missing.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Phillips	NA
AR-IN-19	Interior	Window Covering Replacement	Replace window curtains that are damaged or missing.	Window curtains in some rooms are damaged or missing.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Phillips	NA
AR-EQ-09	Equipment	Locker Repairs	Repair or replace locker doors which are damaged.	Some existing locker doors have minor damage.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Phillips	NA
AR-EQ-11	Equipment	Main Gym Bleacher Repair	Repair or replace damaged bleacher seats in main gym.	Bleachers in main gym have minor damage at some of the seats.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Phillips	NA
AR-EQ-13	Equipment	Office Equipment Upgrade	Replace 3 laser printers at office areas.	Existing laser printers are over 10 years old and exceed life expectancy.	Deficiency	NA	NA	No Cost Estimate	Obtained with Technology funds.	R. Luke	NA
AR-EQ-14	Equipment	Overhead Door Replacement	Replace overhead door in construction / manufacturing with insulated door.	Insulated door will reduce heat loss and reduce energy costs.	Operating Cost	NA	NA	No Cost Estimate	Minor deficiency and not cost effective because of long-term pay back period.	R. Swaim	NA
AR-EQ-18	Equipment	Theater Light Board Upgrade	Replace light board at theater.	Existing light board in theater is works adequately and is in good condition but should be replaced within five years with a new and higher quality sound board.	Enhancement	2	NA	No Cost Estimate	Minor need.	P. Smith	NA
AR-EQ-19	Equipment	Theater Office Equipment Upgrade	Provide new LCD projector, lap top computer, desktop computer, laser printer, fax / copy machine.	Existing office equipment and portable LCD projector are adequate but will exceed life expectancy within 5 years.	Enhancement	NA	NA	No Cost Estimate	Obtained with Technology Levy funds.	P. Smith	NA
AR-EQ-20	Equipment	Theater Sound Board Upgrade	Replace sound board at theater.	Existing sound board in theater is works adequately and is in good condition but should be replaced within five years with a new and higher quality sound board.	Enhancement	2	NA	No Cost Estimate	Replacement will not be needed for several years per Pam Smith.	P. Smith	NA

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AR-EQ-21	Equipment	Toilet Accessory Replacement	Repair or replace damaged toilet accessories.	Some existing toilet accessories are damaged or need repair.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Phillips	NA
AR-ME-10	Mechanical	Fieldhouse Sewer Modifications	Modify sewer system serving fieldhouse to eliminate sewer odor within fieldhouse building.	Fieldhouse has a prominent sewer smell much of the time.	Deficiency	NA	NA	No Cost Estimate	Corrected by Maintenance Department.	R. Swaim	NA
AR-ME-16 ECM-M11	Mechanical	Hot Water Heating Room Door Seal Addition	Add a door strip and door seal at room where hot water heaters are located at south end of building.	The existing room where hot water heaters is located leaks flue gases into the return air plenum. This allows flue gases to seep into occupied areas and in an unsafe space for maintenance personnel.	Health and Safety	NA	NA	No Cost Estimate	Maintenance item requiring immediate attention.	Energy Consultant	NA
AR-ME-18	Mechanical	HVAC System Replacement	Replace the building's HVAC system.	Primary HVAC system operates properly but has overheating problems in some areas.	Enhancement	NA	NA	No Cost Estimate	Not cost effective to replace entire system because of isolated problem areas.	B. Phillips	NA
AR-ME-24	Mechanical	Plumbing Fixture Repairs	Repair damaged or inoperable plumbing fixtures.	Many plumbing fixtures throughout the school require repair.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Phillips	NA
AR-EL-03	Electrical	Clock System Upgrade	Replace analog clocks with digital clocks.	Digital clocks are more reliable and easier to maintain than analog clocks.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency and not a school district standard.	B. Phillips	NA
AR-EL-05	Electrical	Data Outlet Additions - Classrooms	Provide two more data outlets in each classroom for student use.	Classrooms have 4 data outlets for student use and 6 are required by districts minimum standards.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency. Outlets can be added by district using splitter and existing data wiring.	B. Kenworthy B. Phillips	NA
AR-EL-12	Electrical	Fieldhouse Telephone Handset Additions	Provide telephone / intercom handsets in two coach's offices in fieldhouse. Plug handsets into existing telephone outlets.	Telephone / intercom handsets needed to allow coaches to use telephone and communicate by intercom with main building.	Health / Safety & Deficiency	NA	NA	No Cost Estimate	Maintenance item.	R. Swaim	NA
AR-EL-19	Electrical	Intrusion Alarm System Improvements	Improve intrusion alarm system to reduce false alarms.	Existing primary intrusion alarm system operates properly with false alarms caused by occasional failure of sensors and frequently caused by occupants entering protected areas without disabling the system.	Enhancement	NA	NA	No Cost Estimate	Replacement of faulty sensors a maintenance item. Reduction in false alarms caused by occupants is a building operation item.	B. Phillips	NA
AR-EL-21	Electrical	Main Gym Equipment Switch Modification	Modify basketball backboard switches in main gym to allow switches to automatically shut off when backboard reaches desired position.	Existing switches for each backboard must be manually held in position to raise and lower backboards. This takes a long time because there are 12 backboards in gym.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency. Existing switches designed to operate as installed to reduce damage if backboards hit an object when being raised or lowered.	R. Swaim	NA
AR-MD-01	Modernization	Athletic Storage Expansion	Provide additional storage for athletic team's uniforms and equipment.	Additional storage space desired for athletic team uniforms and equipment. Existing storage space exceeds district's minimum standard.	Enhancement	2	NA	BLRB Cost Estimate	Costs included in AR-MD-45.	B. Phillips	NA
AR-MD-02	Modernization	Athletic Team Locker Room Additions	Provide dedicated locker rooms for athletic teams.	Dedicated locker rooms for athletic teams desired to reduce conflicts in use with existing PE locker rooms, to improve supervision, improve security, and improve opportunities for school to host tournament events.	Enhancement	NA	NA	No Cost Estimate	Not cost effective and not a school district standard.	R. Swaim	NA

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AR-MD-03	Modernization	Auxiliary Gym Expansion	Provide larger auxiliary gym with bleachers for spectator use during basketball games.	Auxiliary gym is used for freshman basketball games. Existing auxiliary gym will not accommodate bleacher seating for basketball games. Existing bleachers in gym are too far away from basketball court for viewing. Gym would be expanded to accommodate bleacher seating with current basketball court configuration.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency and not cost effective to expand building.	R. Swaim	NA
AR-MD-05	Modernization	Baseball Field Batting Cage Roof Addition	Provide roof structure over existing batting cage at baseball field.	A roof over the existing batting cage will allow baseball team to use batting cage during inclement weather. This will allow baseball team to use existing outdoor batting cage at all times instead of using a batting cage in gym, which causes floor damage and interferes PE use of gym.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency and not cost effective.	R. Swaim	NA
AR-MD-10	Modernization	Drama Storage Addition	Provide additional storage for drama materials and stage props.	Existing drama and theater area does not have adequate space for storage of drama materials and stage props.	Enhancement	3	NA	BLRB Cost Estimate	Costs included in AR-MD-46.	B. Phillips	NA
AR-MD-12	Modernization	Elevator Cab Size Expansion	Provide larger cab size at elevator.	Larger cab desired for improved access for maintenance carts and equipment.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency and not cost effective.	B. Kenworthy	NA
AR-MD-13	Modernization	Field House Concession Addition	Provide concession stand that is suitable for serving prepared food at fieldhouse.	A concession stand where food can be prepared and sold is desired at the field house next to the football / soccer field to raise funds and provide concessions to spectators.	Enhancement	2	NA	BLRB Cost Estimate	Costs included in AR-MD-46.	B. Phillips	NA
AR-MD-16	Modernization	Gym Assembly Storage Expansion	Provide additional storage space for gym assembly equipment.	Additional storage space desired for gym assembly equipment. Existing gym assembly storage room is 30 SF smaller than district's minimum standard but adjacent PE and gym equipment storage rooms are larger than district's minimum standard and can be used for assembly storage.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency.	B. Phillips B. Kenworthy	NA
AR-MD-17	Modernization	Gym and PE Equipment Storage Addition	Provide additional storage space for PE and gym equipment.	Additional storage space desired for PE and gym equipment. Existing PE and gym equipment rooms exceed district's minimum standards.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency.	B. Phillips	NA
AR-MD-18	Modernization	Horticulture / Science Classroom Modernization	Convert horticulture classroom to a science classroom.	School has greater need for an additional science classroom than a horticulture classroom.	Enhancement	NA	NA	No Cost Estimate	Elimination of horticulture classroom not consistent with instructional program.	B. Phillips	NA
AR-MD-19	Modernization	Lost and Found Expansion	Provide larger room for storage of lost and found items.	Existing lost and found room is undersized by 15 SF.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency.	B. Kenworthy	NA
AR-MD-25	Modernization	Records Storage Expansion	Provide additional storage space for school records in main office area.	Storage of current school records cannot be accommodated in existing records storage room. Existing room meets district's minimum standard.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency and not cost effective to add space to building.	B. Phillips	NA
AR-MD-26	Modernization	Science Classroom Expansion	Provide larger science classrooms.	Five of seven science classroom are undersized by about 100 SF each and smaller than district's minimum standard.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency and not cost effective.	B. Kenworthy	NA
AR-MD-28	Modernization	Science Storage Addition	Provide additional storage for science equipment and supplies.	Additional storage space desired for science equipment and supplies. Existing science storage space meets district's standard.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency and not cost effective to add to building.	B. Phillips	NA

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AR-MD-29	Modernization	Softball Field Batting Cage Addition	Provide batting cage with a roof structure at south softball field.	The school does not have a batting cage at the softball field. A covered batting cage will allow softball team to use an outdoor batting cage at all times instead of using a batting cage in gym, which causes floor damage and interferes PE use of gym.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency and not cost effective.	R. Swaim	NA
AR-MD-32	Modernization	Stadium Bleacher Roof Addition	Provide roof structure over stadium bleachers.	Roof over bleachers desired to protect spectators and scorekeepers from rain.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency and not a school district standard.	B. Phillips	NA
AR-MD-33	Modernization	Teaching Station Skylight Additions	Provide skylight at foods, orchestra and computer classroom 801.	Existing rooms do not have exterior windows and exposure to daylight. Window addition not feasible because orchestra room is an interior space. Skylight additions difficult because of high roof or mechanical attic space above these rooms.	Enhancement	NA	NA	No Cost Estimate	Minor defect and not cost effective.	B. Kenworthy	NA
AR-MD-35	Modernization	Telecommunication Room Expansion	Provide larger MC telecommunications room.	Existing MC telecommunications room 341 is undersized by 70 SF and 44% smaller than district's minimum standard.	Deficiency	NA	NA	No Cost Estimate	Not cost effective.	B. Kenworthy	NA
AR-MD-36	Modernization	Theater Control Booth Access Improvement	Provide a means of access to the theater control booth that does not require access through the theater seating area.	An alternate means of access is needed to allow the stage crew to enter and exit the control booth during a performance without walking through and creating a distraction to the audience.	Enhancement	NA	NA	No Cost Estimate	Minor defect and not cost effective.	B. Phillips	NA
AR-MD-39	Modernization	Theater Workroom Expansion	Provide additional space for theater workroom.	Additional space desired to improve the use of theater workroom / shop area.	Enhancement	NA	NA	No Cost Estimate	Minor defect and existing workroom meets district's recommended standard.	P. Smith	NA
AR-MD-40	Modernization	Training Room Expansion	Provide larger training room.	Existing training room is undersized by 150 SF and 30% smaller than the district's minimum standard.	Deficiency	NA	NA	No Cost Estimate	Training room has been expanded and now meets district's standards.	B. Kenworthy	NA
AR-MD-41	Modernization	Vending Machine Alcove Addition	Provide alcove with electrical power for two vending machines in gym lobby area.	Alcove needed to allow placement of vending machines in a dedicated location. Existing vending machines in gym area are located in lobby circulation area.	Deficiency	3	NA	BLRB Cost Estimate	Costs included in AR-MD-45.	B. Kenworthy	NA
AR-MD-43	Modernization	Visual Communications Storage Expansion	Provide additional space for storage of visual communications equipment and supplies.	Additional storage space desired for visual communications. Existing storage space meets district's recommended standard.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency and not cost effective to add to building.	B. Phillips	NA
AR-MD-44	Modernization	Wrestling Room Addition	Provide a room for wrestling practice and an additional PE teaching station.	A dedicated space for wrestling team practice is desired because of heavy use of existing gym space during winter sports season. The addition of a wrestling room would provide an additional PE teaching station that would receive daily use.	Enhancement	3	NA	BLRB Cost Estimate	Costs included in AR-MD-45.	R. Swaim	NA

# PROPOSED FACILITY IMPROVEMENTS

# WEST AUBURN HIGH SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
WE-SI-05 ECM-W2	Site	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station and add a rain gauge.	Connection to the EMS and the addition of a rain gauge will reduce water consumption and utility costs.	Operating Cost	1	\$5,710	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant R. Thomas	A
WE-SI-07	Site	Parking Sign Additions	Provide signs on posts designating 3 parking stalls for visitors and one disabled parking stall at south parking lot.	School does not have signs designating parking stalls reserved for visitors. ADA compliant sign missing at disabled parking stall.	Deficiency	1	\$1,467	BLRB Cost Estimate		B. Sprague	A
WE-SI-08	Site	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars and directional arrows. Add crosswalk from disabled parking stalls at south parking lot to front entry.	Thermo-plastics markings are needed in critical locations because existing painted markings quickly wear out. Crosswalk needed at front entry to provide designated route from disabled parking stalls and to comply with ADA.	Deficiency	2	\$2,285	BLRB Cost Estimate		R. Thomas B. Kenworthy	A
WE-EX-01	Exterior	Automatic Door Opener Addition	Provide automatic door opener at south and east entry doors.	Building does not have automatic door opener at main entry doors.	Enhancement	3	\$26,882	BLRB Cost Estimate		J. Trauffer B. Sprague	A
WE-EX-02	Exterior	Exterior Door Hardware Upgrade	Replace exterior door lock cylinders with Primus cylinders.	Primus lock cylinders will improve building security.	Enhancement	2	\$5,938	BLRB Cost Estimate		R. Thomas	A
WE-EX-08	Exterior	Masonry Water Repellant Application	Pressure wash and provide application of water repellant at exterior masonry.	Existing masonry is dirty and lacks a water repellant coating to protect against moisture penetration.	Deficiency	3	\$30,303	BLRB Cost Estimate		R. Thomas	A
WE-IN-03	Interior	Grab Bar Additions	Provide ADA compliant grab bars at a total of two handicap toilet stalls in student restrooms 305 and 308.	Grab bars needed to assist the disabled and to comply with ADA.	Deficiency	4	\$1,467	BLRB Cost Estimate		ADA Consultant	A
WE-IN-06	Interior	Interior Signage Additions	Provide handicap accessible signage at student restrooms 305 and 308.	Signage needed to designate location of restrooms accessible to disabled.	Deficiency	4	\$490	BLRB Cost Estimate		ADA Consultant	A
WE-EQ-02	Equipment	Computer Furniture Upgrade	Provide furniture designed for computer and other technology equipment use.	Existing furniture used for computer and technology equipment is lacking and in many cases not designed for this use.	Deficiency	2	\$4,456	ASD Cost Estimate		R. Luke	A
WE-ME-01 ECM-M2	Mechanical	Automatic Controls Upgrade	Upgrade the EMS control system to be BacNet compatible, web based and include new software, new field controllers, and a new front end computer.	Control system upgrade will improve occupant comfort and reduce maintenance and energy costs.	Operating Cost	2	\$34,265	Quantum Cost Estimate	Estimated 10-year payback period.	R. Thomas Energy Consultant	A
WE-ME-02 ECM-M4	Mechanical	CO2 Control Addition - Fan Coil Units	Expand the control system to add CO2 control to the fan coil units serving the classrooms.	CO2 control will regulate the amount of outside air being delivered to the occupied spaces based on CO2 levels and reduce energy usage.	Operating Cost	2	\$34,265	Quantum Cost Estimate	Estimated 9-year payback period.	Energy Consultant	A
WE-ME-03 ECM-M3	Mechanical	CO2 Control Addition - Gym & Library	Expand the control system to add CO2 control to the main air handling systems serving the gym and library.	CO2 control will regulate the amount of outside air being delivered to the occupied spaces based on CO2 levels and reduce energy usage.	Operating Cost	2	\$9,138	Quantum Cost Estimate		Energy Consultant	A
WE-ME-04 ECM-M7	Mechanical	Damper Actuator Replacement	Replace Barber Colman damper actuators.	Existing actuators are failing. New actuators will improve indoor air quality.	Operating Cost	3	\$26,549	Quantum Cost Estimate	Estimated 15-year payback period.	Energy Consultant	A
WE-ME-05 ECM-M6	Mechanical	Domestic Hot Water Improvements	Connect the domestic hot water systems together to serve the entire school with the gas fired system.	Connection of the domestic hot water systems will eliminate the need for existing electric hot water system and allow existing electric heater to be used as a back up heater.	Operating Cost	2	\$18,275	Quantum Cost Estimate	Estimated 9-year payback period.	Energy Consultant	A
WE-ME-06 ECM-M9	Mechanical	Door Switch Sensor Addition	Provide occupancy sensor door switch at roll-up door at shop building.	Door switch sensor will disable the heat in the shop when unoccupied or when the bay door is open, which will reduce energy costs.	Operating Cost	1	\$5,710	Quantum Cost Estimate	Estimated 5-year payback period.	Energy Consultant	A

# PROPOSED FACILITY IMPROVEMENTS

# WEST AUBURN HIGH SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
WE-ME-09	Mechanical	Heating System Control Valve Replacement	Replace heating system control valves.	Existing control valves leak and are unreliable.	Deficiency	1	\$49,497	Quantum Cost Estimate		R. Thomas	A
WE-ME-11	Mechanical	Mechanical Cooling Addition	Provide mechanical cooling at main office area and computer room 307.	Main office area is occupied and overheats during the summer months. Computer room 307 is an interior space with numerous computers and occupants, and overheats most of the time.	Deficiency	2	\$44,741	Quantum Cost Estimate		R. Thomas	A
WE-ME-13 ECM-M5	Mechanical	Occupancy Sensor Temperature Control Addition	Install occupancy sensors in gym and library to set back the spaces when they are unoccupied.	Occupancy sensors will reduce energy consumption and energy costs.	Operating Cost	1	\$9,138	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant	A
WE-ME-15 ECM-W1	Mechanical	Plumbing Fixture Replacement - Partial	Replace water closets and provide aerators for sinks.	A reduction in water use will reduce utility costs.	Operating Cost	1	\$11,422	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant	A
WE-ME-16 ECM-M1	Mechanical	TAB and Commissioning	Perform air and water testing, adjusting and balancing (TAB) on the mechanical systems. Commission the existing HVAC control system to verify proper operation.	Retroactive TAB and commissioning will improve system operation and reduce energy costs.	Operating Cost	2	\$34,265	Quantum Cost Estimate	Estimated 6-year payback period.	Energy Consultant R. Thomas	A
WE-EL-06 ECM-L2	Electrical	Exit Sign Replacement	Replace incandescent and compact fluorescent exit signs with new LED exit signs.	Exit sign replacement will reduce energy costs.	Operating Cost	1	\$4,570	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant	A
WE-EL-09 ECM-L4	Electrical	Gym Lighting Replacement	Replace HID fixtures in the gym with fixtures using T-8 or T-5 technology and increase illumination level.	Existing illumination level in gym does not meet district's minimum standard. Light fixture replacement will reduce energy costs and increase illumination.	Operating Cost & Deficiency	2	\$11,422	Quantum Cost Estimate	Estimated 6-year payback period.	Energy Consultant	A
WE-EL-12 ECM-L1	Electrical	Interior Lighting Upgrade	Replace T-12 fixtures, magnetic ballast and incandescent fixtures with T-8, electronic ballast and compact fluorescent technology.	Light fixture replacement will reduce energy costs.	Health / Safety & Deficiency	2	\$86,807	Quantum Cost Estimate	Estimated 6-year payback period.	Energy Consultant B. Kenworthy	A
WE-EL-15 ECM-L3	Electrical	Occupancy Sensor Lighting Control Addition	Provide occupancy sensor in areas with fluctuating occupancy to turn off lights when the spaces are unoccupied.	Occupancy sensors will reduce energy costs.	Operating Cost	2	\$5,710	Quantum Cost Estimate	Estimated 7-year payback period.	Energy Consultant	A
WE-MD-11	Modernization	ADA Restroom & Record Storage Modernization	Modernize Conference Room 104 to provide a 80 SF record storage room and a 50 SF unisex ADA compliant restroom.	Building does not have a dedicated space for record storage. A unisex ADA compliant restroom could be utilized by staff, students and public.	Deficiency	1	\$61,414	ASD Cost Estimate		B. Kenworthy ADA Consultant	A
WE-EX-04	Exterior	Exterior Plaster Upgrade	Clean and resurface exterior plaster building elements.	Existing exterior plaster is embedded with dirt and should be resurfaced to maintain waterproof integrity.	Deficiency	3	\$61,095	BLRB Cost Estimate		R. Thomas	B
WE-IN-02	Interior	Classroom Wainscot Addition	Provide protective wainscot at exterior and back walls in classrooms.	Existing sheet rock walls in classrooms are susceptible to and damaged in areas from normal wear and tear. Exterior walls and back walls, opposite of front of classroom, are most vulnerable because they have the greatest exposure to student's chairs. Other walls in rooms usually have computers, teacher's desk and whiteboards. Wainscot installation will reduce damage and maintenance costs.	Enhancement	3	\$26,942	BLRB Cost Estimate		R. Thomas	B
WE-ME-17	Mechanical	Unit Ventilator Replacement	Replace unit ventilators.	Existing unit ventilators are in poor condition, leak, unreliable and past life expectancy.	Deficiency	1	\$97,194	Quantum Cost Estimate		R. Thomas	B



# PROPOSED FACILITY IMPROVEMENTS

# WEST AUBURN HIGH SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
WE-SI-01	Site	ADA Site Improvements	Provide miscellaneous site improvements to comply non-mandatory ADA standards.	School was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous site areas, which do not significantly affect access to the building, could be improved to comply with current ADA standards. Site improvements needed to provide ADA required program access are identified separately.	Enhancement	3	\$64,699	BLRB Cost Estimate	Minor need and non-mandatory improvements.	ADA Consultant	C
WE-SI-02	Site	Delivery Parking Addition	Provide designated parking stall, separate from driveway, in front of school for delivery vehicle.	Designated parking area not provided for delivery vehicles. Currently, delivery vehicle park in driveway in front of school and block traffic.	Deficiency	1	\$19,531	BLRB Cost Estimate	Minor deficiency.	B. Sprague B. Kenworthy	C
WE-SI-03	Site	Dumpster Area Addition	Provide designated area with screen walls for dumpster storage.	Dumpsters are located parking lot without a designated area or screen walls.	Deficiency	3	\$91,397	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
WE-SI-04	Site	Exterior Bench Additions	Provide 2 ribbon-metal exterior benches at front entry and 4 at student courtyard.	Exterior benches needed at front entry for students and visitors to use when waiting to be picked up. Exterior benches needed at courtyard for students to use.	Deficiency	2	\$17,595	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
WE-SI-09	Site	Site Sign Addition	Provide masonry base site sign with school name and address.	Site sign needed to identify school and address.	Deficiency	1	\$61,095	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
WE-SI-10	Site	Street Frontage Improvements	Provide sidewalks adjacent to school property at south side of 2nd St. NW and east side of F St. NW.	There is no sidewalks for pedestrian use on streets at west and north sides of school so students walk on paved and dirt road shoulder.	Deficiency	4	\$51,398	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
WE-SI-12	Site	Playfield Drainage Improvements	Provide sub-drain system at grass softball and soccer play fields.	Existing grass play field drains poorly and is saturated with water for much of the school year.	Enhancement	3	\$172,356	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
WE-EX-07	Exterior	Exterior Window Upgrade - Shop Building	Replace single pane windows at shop building with dual-glazed thermal pane windows.	Thermal pane windows will reduce energy costs.	Deficiency	3	\$87,139	BLRB Cost Estimate	Not cost effective.	B. Kenworthy	C
WE-EX-09	Exterior	Roof Fall Arrest Anchors Addition	Provide fall arrest system at roof.	Pitched roofs do not have fall arrest safety system.	Health / Safety	4	\$97,140	BLRB Cost Estimate	Minor deficiency.	R. Thomas	C
WE-IN-01	Interior	ADA Building Improvements	Provide miscellaneous building improvements to comply non-mandatory ADA standards.	School was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous building areas, which do not significantly affect access within the building, could be improved to comply with current ADA standards. Improvements needed to provide ADA required program access within the building are identified separately.	Enhancement	4	\$447,744	BLRB Cost Estimate	Minor need and non-mandatory improvements.	ADA Consultant	C
WE-IN-04	Interior	Gym Floor Upgrade	Provide wood floor in gym.	Existing rubber floor is in fair condition with repair required in some areas.	Deficiency	1	\$144,303	BLRB Cost Estimate	Minor deficiency.	R. Thomas	C
WE-IN-07	Interior	Walk Off Mat Upgrade	Provide larger walk off mats at building entrances.	Larger mats will improve dirt control and reduce maintenance and carpet wear.	Enhancement	4	\$30,792	BLRB Cost Estimate	Not cost effective until carpeting in building is replaced.	R. Thomas	C
WE-EQ-03	Equipment	Fiber Optic Connection Addition	Provide data communications equipment to accommodate installation of a leased fiber optic circuit.	Equipment needed when school upgrades its internet connection with a fiber optic circuit leased from Qwest.	Enhancement	2	\$11,410	ASD Cost Estimate	Minor need.	N. Vein	C

# PROPOSED FACILITY IMPROVEMENTS

# WEST AUBURN HIGH SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
WE-EQ-04	Equipment	Instructional Equipment Upgrade	Replace TV/DVD/VCR in library.	TV/DVD/VCR over 10 years old and past life expectancy.	Deficiency	1	\$592	ASD Cost Estimate	Minor deficiency.	R. Luke	C
WE-ME-07	Mechanical	Fire Sprinkler System Bracing	Provide additional seismic bracing to existing fire sprinkler system in compliance with FM Global standards.	Additional bracing will reduce risk of broken fire sprinkler lines during an earthquake.	Enhancement	1	\$102,850	Quantum Cost Estimate	Minor deficiency and not cost effective.	M. Newman	C
WE-ME-12	Mechanical	Natural Gas System Metering	Provide electronic meter for natural gas system connected to energy management system.	Electronic meter will allow remote monitoring of gas service and improve potential for reducing natural gas use.	Operating Cost	4	\$22,370	Quantum Cost Estimate	Not cost effective because of long-term payback period.	R. Thomas	C
WE-ME-14 ECM-M8	Mechanical	Outdoor Air Ductwork Improves	Increase the size of the outside air ductwork to improve indoor air quality.	Ductwork modifications will improve indoor air quality.	Operating Cost & Deficiency	3	\$13,707	Quantum Cost Estimate	Not cost effective because estimated payback period exceeds a 15 years.	Energy Consultant	C
WE-EL-01	Electrical	Ceiling Mounted LCD Projector Addition	Provide ceiling mounted LCD projector and associated AV and power outlets in each classroom with connection to teacher's work station.	Ceiling mounted projectors desired for ease of use, to reduce theft, and to protect equipment and cables from damage.	Enhancement	2	\$297,493	Quantum Cost Estimate	Not cost effective.	R. Luke R. Thomas M. Newman	C
WE-EL-02	Electrical	Data Communications Equipment Upgrade	Upgrade data communications equipment filter, router, switch, traffic shaping and connectivity speed.	Existing filter, router, switch, traffic shaping and connectivity speed do not meet district's minimum standards.	Deficiency	2	\$132,847	ASD Cost Estimate	Minor deficiency.	N. Vien	C
WE-EL-03	Electrical	Data Outlet Addition at Teacher's Work Station	Provide data outlets for computers and AV equipment at teacher's work station in each classroom.	Classrooms do not have AV outlets at teacher's work station and do not have floor box with data outlets at front of classroom.	Enhancement	3	\$160,446	Quantum Cost Estimate	Not cost effective. See WE-EQ-07 for an alternate approach using wireless work station.	R. Luke M. Newman	C
WE-EL-05	Electrical	Electrical Service Metering	Provide electronic meter for electrical service connected to energy management system.	Electronic meter will allow remote monitoring of electrical service and improve potential for reducing electrical use.	Operating Cost	2	\$24,941	Quantum Cost Estimate	Not cost effective at a school of this size.	R. Thomas	C
WE-EL-07	Electrical	Exterior Lighting Level Improvements	Provide additional illumination at bus area and delivery / dumpster area.	Existing lighting at bus area and delivery / dumpster area lacks adequate illumination levels and is below district's minimum standards.	Deficiency	3	\$16,045	Quantum Cost Estimate	Minor deficiency.	B. Kenworthy	C
WE-EL-10	Electrical	HC and MC Room Upgrade	Relocate MC and HC data communications equipment to building catwalk area.	Existing MC equipment is located in a custodial room and HC equipment is located in a kitchenette. These spaces do not have mechanical cooling to protect equipment from overheating. Expansion and maintenance access to equipment in both locations is difficult.	Deficiency	3	\$42,940	Quantum Cost Estimate	Minor deficiency.	B. Kenworthy	C
WE-EL-11	Electrical	Interior Lighting Level Improvements	Provide additional illumination at corridors, library, and restrooms.	Existing lighting at interior areas lacks adequate illumination levels except at gym and does not meet the district's minimum standards.	Health / Safety & Deficiency	3	\$64,282	Quantum Cost Estimate	Costs included in WE-EL-12.	B. Kenworthy	C
WE-EL-14	Electrical	Intrusion Alarm Audible Signal Upgrade	Upgrade intrusion alarm system to provide audible alarm.	Use of audible alarm could reduce intrusions and false alarms.	Enhancement	4	\$48,083	Quantum Cost Estimate	Minor need.	M. Newman	C
WE-EL-16	Electrical	Surveillance Camera Addition	Provide surveillance camera system to monitor parking lots and areas around building.	Surveillance cameras could reduce vandalism and theft around building.	Enhancement	3	\$97,194	Quantum Cost Estimate	Minor need.	M. Newman R. Luke	C
WE-EL-17	Electrical	Telephone System Upgrade	Upgrade telephone system to provide voice mail.	Existing telephone system does not have voice mail feature and does not meet district's minimum standards.	Deficiency	4	\$192,586	Quantum Cost Estimate	Minor deficiency and not cost effective.	R. Thomas	C

# PROPOSED FACILITY IMPROVEMENTS

# WEST AUBURN HIGH SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
WE-EL-18 ECM-G1	Electrical	Vending Machine Sensor Addition	Provide sensors at vending machines to shut off vending machine illumination when the spaces are unoccupied.	Sensors will reduce energy costs.	Operating Cost	1	\$571	Quantum Cost Estimate	Maintenance item that can be completed at no cost by vending machine company.	Energy Consultant	C
WE-MD-02	Modernization	Health Room Restroom Modernization	Provide larger restroom that is ADA compliant in health area.	Existing health restroom is undersized and not ADA compliant.	Deficiency	4	\$50,322	BLRB Cost Estimate	Not feasible because of space constraints. See WE-MD-11 for an alternate improvement for ADA restroom in this area.	ADA Consultant B. Kenworthy	C
WE-MD-03	Modernization	Record Storage Room Addition	Provide records storage room.	Building does not have a dedicated space for record storage.	Deficiency	1	NA	BLRB Cost Estimate	Cost included in WE-MD-10.	B. Kenworthy	C
WE-MD-04	Modernization	Relite Window Addition	Provide interior relite window at north wall of registrar 101.	Relite window will allow visual supervision of main office area from registrar's office and provide indirect daylight connection from to main office area.	Deficiency	2	\$4,372	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
WE-MD-05	Modernization	Skylight Additions - Commons	Provide skylights at commons.	Existing commons does not have exterior windows and exposure to daylight. Window addition not feasible because these are interior spaces.	Enhancement	3	\$50,342	BLRB Cost Estimate	Minor deficient and not cost effective.	B. Kenworthy	C
WE-MD-06	Modernization	Skylight Additions - Teaching Stations	Provide skylight at library and computer classroom .	Existing room does not have exterior windows and exposure to daylight. Window addition not feasible because these are interior spaces. Skylight addition difficult because of high roof above this classroom.	Enhancement	NA	NA	No Cost Estimate	Minor deficient and not cost effective.	B. Kenworthy	C
WE-MD-07	Modernization	Staff Restroom Modifications	Modify staff restrooms 109 and 110 to be ADA compliant.	Staff restrooms are not fully accessible for the disabled and not fully ADA compliant.	Deficiency	4	NA	BLRB Cost Estimate	Cost included in WE-MD-10.	ADA Consultant	C
WE-MD-09	Modernization	Storage Addition - Emergency Supplies	Provide space within building for storage of emergency supplies.	Building does not have space for storage of emergency supplies. Existing supplies kept in exterior storage container.	Deficiency	1	NA	BLRB Cost Estimate	Cost included in WE-MD-10.	B. Kenworthy	C
WE-MD-10	Modernization	Emergency Storage / Record Storage / Staff Restroom Modernizations & Additions	Provide emergency storage, record storage and ADA compliant staff restroom.	See Improvement Justifications for WE-MD-03, 07 and 09.	Deficiency	1	\$248,397	BLRB Cost Estimate	Not cost effective. See WE-MD-11 for a portion of these improvements.	B. Kenworthy ADA Consultant	C
WE-SI-06	Site	Landscape Plant Improvements	Prune and replace overgrown shrubs and trees around perimeter of building.	Existing shrubs and trees are overgrown.	Enhancement	NA	NA	No Cost Estimate	Maintenance item.	R. Thomas	NA
WE-SI-11	Site	Vehicle Access Improvements	Modify parking areas to separate buses from student vehicles.	Bus loading area is located in driveway that serves student parking lot. This can cause congestion during morning and afternoon when buses are present.	Deficiency	3	NA	No Cost Estimate	Minor deficiency and not cost effective because of existing site constraints.	B. Sprague B. Kenworthy	NA
WE-EX-03	Exterior	Exterior Painting	Paint exterior of shop building.	Exterior paint at shop building is in good condition.	Enhancement	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Thomas	NA
WE-EX-05	Exterior	Exterior Window Glass Replacement	Replace glass at windows in classrooms 202 and 203.	Existing glazing is etched from irrigation water which obscures view through windows.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Sprague	NA
WE-EX-06	Exterior	Exterior Window Upgrade - Main Building	Replace dual glazed exterior windows with dual glazing and integral blinds.	Integral blinds will reduce damage to and maintenance of window blinds.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency and not cost effective.	R. Thomas	NA

# PROPOSED FACILITY IMPROVEMENTS

# WEST AUBURN HIGH SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
WE-IN-05	Interior	Interior Painting	Paint building interior.	Existing interior paint is in good condition.	Enhancement	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Thomas	NA
WE-EQ-01	Equipment	Classroom Equipment Upgrade	Provide 6 additional computers in each of three computer classrooms.	Computer classrooms need additional computers for students and have less than district's minimum standard.	Deficiency	NA	NA	No Cost Estimate	Obtained with Technology Levy funds.	R. Luke	NA
WE-EQ-05	Equipment	Library Equipment Upgrade	Provide 4 additional computers in library.	Additional computers needed for student use.	Deficiency	NA	NA	No Cost Estimate	Obtained with Technology Levy funds.	R. Luke	NA
WE-EQ-06	Equipment	Office Equipment Upgrade	Replace copy machine in main office and add copy machine in library.	Copy machine in main office over 8 years old and past life expectancy. Library does not have a copy machine but needs one.	Deficiency	NA	NA	No Cost Estimate	Obtained as leased equipment.	R. Luke	NA
WE-EQ-07	Equipment	Wireless Computer Station Additions	Provide wireless computer equipment and workstation furniture for use at front of each classroom.	Wireless computer equipment will allow teachers to use ceiling mounted LCD projectors from work station and front of classroom in lieu of adding power and data outlets in floor at much higher cost.	Enhancement	1	NA	No Cost Estimate	Obtained with Technology Levy funds.	R. Luke M. Newman	NA
WE-ME-08	Mechanical	Gym Ventilation System Improvements	Improve gym ventilation system.	Existing ventilation system operates properly. Gym users desire more air movement.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency.	B. Sprague	NA
WE-ME-10	Mechanical	HVAC System Improvements	Improve building HVAC system.	Primary system operates properly. Some rooms overheat because building does not have mechanical cooling.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency and localized problems addressed under other proposed improvements.	B. Sprague	NA
WE-EL-04	Electrical	Electrical Panel Relocations	Relocate electrical panel that are located in custodial rooms with mop sinks.	Electrical panels should be separated from mop sink areas.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency and not cost effective.	B. Kenworthy	NA
WE-EL-08	Electrical	Fire Alarm System Upgrade	Replace fire alarm system smoke detectors and detector bases.	Existing smoke detectors are obsolete and replacement parts are not available.	Deficiency	NA	NA	Quantum Cost Estimate	Completed by Maintenance Department.	R. Thomas	NA
WE-EL-13	Electrical	Internet Connection Upgrade	Increase bandwidth of school's internet connection.	Increased bandwidth desired to provide long-term and efficient access for information technology via the internet.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency. Existing internet connection meets district's minimum standard.	R. Luke	NA
WE-MD-01	Modernization	Building Enclosure Modernization	Provide access to all buildings within enclosed space.	Shop building is separate from main building. This inhibits supervision, requires students and staff to go outdoors to travel between buildings, and does not meet district's minimum standards.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency. Shop building is close to main building.	B. Kenworthy	NA
WE-MD-08	Modernization	Staff Telephone Room Modernization	Provide larger staff telephone room.	Existing staff telephone room is undersized.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency.	B. Kenworthy	NA

# PROPOSED FACILITY IMPROVEMENTS

# ADMINISTRATION BUILDING

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AD-SI-01	Site	Accessible Parking Stall Addition	Change a 5 standard parking stalls at south parking lot to 4 handicap stalls. Provide 6 post mounted signs designating handicap parking stalls at 2 existing stalls and 4 new stalls.	Additional handicap parking stalls and associated signage needed to comply with ADA.	Deficiency	1	\$25,855	BLRB Cost Estimate		ADA Consultant	A
AD-SI-07 ECM-W3	Site	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station and add a rain gauge.	Connection to the EMS and the addition of a rain gauge will reduce water consumption and utility costs.	Operating Cost	1	\$6,428	Quantum Cost Estimate	Estimated 4-year payback.	Energy Consultant	A
AD-SI-11	Site	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars and directional arrows. Add thermo-plastic crosswalk from handicap parking stalls to curb cut at north parking lot. Repaint all existing parking stall lines.	Thermo-plastics markings are needed in critical locations because existing painted markings quickly wear out. Other existing pavement lines are faded and need repainting.	Deficiency	3	\$12,427	BLRB Cost Estimate		R. Thomas B. Kenworthy	A
AD-SI-13	Site	Sanitary Sewer Line Replacement	Replace existing sanitary sewer mainline.	Existing sewer mainline has settled, has tree root intrusion, and requires frequent and expensive maintenance.	Deficiency	1	\$76,099	BLRB Cost Estimate		R. Thomas	A
AD-SI-15	Site	Sidewalk Replacement - Off Site	Replace sections of concrete sidewalk at street frontage at 4th St. NE and J St. NE that are uneven and create a trip hazard.	Sections of existing sidewalk adjacent to the site along 4th St. NE and J St. NE have significant settlement and displacement that creates a trip hazard.	Health / Safety	2	\$5,117	BLRB Cost Estimate		R. Thomas B. Kenworthy	A
AD-SI-21 ECM-W2	Site	Water Meter Addition	Provide a deduct water meter for irrigation system.	Installation of a deduct meter will allow non-sewer related irrigation water usage to be deducted from sewer charges and reduce monthly utility costs.	Operating Cost	2	\$2,572	Quantum Cost Estimate	Estimated 6-year payback.	Energy Consultant	A
AD-EX-01	Exterior	Automatic Door Opener Addition	Provide automatic door opener at front entry door and at entry door to elevator vestibule.	Building does not have automatic door opener at front entry and at door used by disable individuals for access to elevator.	Enhancement	2	\$39,100	BLRB Cost Estimate		J. Trauffer M. Newman B. Kenworthy	A
AD-IN-06	Interior	Grab Bar Additions	Provide ADA compliant grab bars as handicap accessible toilet stalls in restrooms 204 and 209.	Existing grab bars are not ADA compliant. New grab bars needed to assist the disabled and comply with ADA.	Deficiency	1	\$1,467	BLRB Cost Estimate		ADA Consultant	A
AD-IN-08	Interior	Interior Door Hardware Upgrade	Replace interior door handles with ADA compliant lever handles.	Existing door handles not ADA compliant.	Enhancement	2	\$34,945	BLRB Cost Estimate		ADA Consultant	A
AD-IN-09	Interior	Interior Room Sign Additions	Provide ADA compliant interior signs at every room including handicap accessible symbol at restrooms 204 and 209.	Interior room signs needed to identify room locations and comply with ADA.	Deficiency	2	\$11,730	BLRB Cost Estimate		R. Thomas B. Kenworthy	A
AD-EQ-01	Equipment	Conference Rooms Furniture Upgrade	Provide new and additional tables and chairs in all conference rooms.	The existing board room, conference room and IMC have mis-matched, uncomfortable, and an inadequate amount of furniture. This has a poor appearance, requires people to sit in uncomfortable chairs, and causes furniture to be moved around between conference rooms.	Deficiency	1	\$17,880	ASD Cost Estimate		R. Luke	A
AD-EQ-03	Equipment	Records Storage Cabinet Additions	Provide high-density, rolling file shelving units for record storage vaults 120, 211A, and 215A.	Additional storage space needed in fire protected vaults for permanent school district records.	Deficiency	2	\$95,737	BLRB Cost Estimate		T. Cummings	A

# PROPOSED FACILITY IMPROVEMENTS

# ADMINISTRATION BUILDING

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AD-EQ-04	Equipment	Wireless Computer Lab Addition	Provide 30 laptop computers with wireless cards, two 15 units computer carts with laptop charging system, one printer on a cart with a wireless connection, and wireless hub device in Board Room, Conference Room and IMC to create wireless computer labs.	Wireless computer lab equipment desired to allow the Board Room, Conference Room and IMC to be used for training and instructional classes using computers.	Enhancement	2	\$46,873	ASD Cost Estimate		R. Luke K. Herren	A
AD-ME-02 ECM-M5	Mechanical	Domestic Water Heater Replacement	Investigate savings opportunities for replacing the existing tank style domestic water heater with point of use instantaneous water heaters.	Water heater replacement will reduce energy costs.	Operating Cost	2	\$10,285	Quantum Cost Estimate	Estimated 10-year payback.	Energy Consultant	A
AD-ME-05 ECM-M1	Mechanical	HVAC Control System Commissioning	Commission the HVAC control system to verify proper operation.	Commissioning could improve system operation and reduce energy costs.	Operating Cost	2	\$12,857	Quantum Cost Estimate	Estimated 4-year payback.	Energy Consultant R. Thomas	A
AD-ME-06	Mechanical	HVAC System Improvements	Improve HVAC system to correct inadequate heat at office 121 and correct overheating at offices 201 and 219.	Some offices have heating problems.	Deficiency	2	\$7,456	Quantum Cost Estimate		K. Herren R. Luke N. Vien R. Thomas	A
AD-ME-07 ECM-M3	Mechanical	Occupancy Sensor Temperature Control Additions	Provide occupancy sensors in offices areas to set back the space temperature when the spaces are unoccupied.	Occupancy sensors will reduce energy costs.	Operating Cost	2	\$20,570	Quantum Cost Estimate	Estimated 8-year payback period.	Energy Consultant	A
AD-ME-08	Mechanical	Outside Air Damper Control Modification	Modify control sequence for outside air dampers to improve occupant comfort.	Problems with outside air cause occupant comfort problems at certain times during the year.	Deficiency	2	\$5,658	Quantum Cost Estimate		R. Thomas	A
AD-ME-09 ECM-M4	Mechanical	Piping Insulation Additions	Provide insulation at uninsulated heating water, chilled water, and domestic hot water piping.	Pipe insulation will reduce energy costs.	Operating Cost	1	\$3,857	Quantum Cost Estimate	Estimated 2-year payback period.	Energy Consultant	A
AD-ME-12 ECM-M2	Mechanical	Relief Dampers Control Modifications	Modify control sequence for relief dampers to reduce heat loss through opening when associated system is in a recirculation mode.	Damper control modifications will reduce energy costs.	Operating Cost	1	\$3,857	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant	A
AD-EL-05	Electrical	Fire Alarm System Upgrade	Provide an automatic addressable fire alarm and detection system with control panel in custodial room 127 and graphic annunciator panel at front entry door.	Existing fire alarm system is 40 years old, does not meet district standards, and replacement parts are difficult to obtain.	Deficiency	2	\$212,128	Quantum Cost Estimate		R. Thomas	A
AD-EL-07 ECM-L1	Electrical	Interior Lighting Upgrade	Retrofit or replace T-12 fixtures, magnetic ballast and incandescent fixtures with T-8, electronic ballast and compact fluorescent technology.	Fixture replacement or retrofit will reduce energy costs.	Operating Cost	2	\$51,425	Quantum Cost Estimate	Estimated 6-year payback period.	Energy Consultant	A
AD-EL-11 ECM-L2	Electrical	Occupancy Sensor Lighting Control Addition	Provide occupancy sensors in offices areas to turn off lights when the spaces are unoccupied.	Occupancy sensors will reduce energy costs.	Operating Cost	2	\$12,857	Quantum Cost Estimate	Estimated 8-year payback period.	Energy Consultant	A
AD-SI-04	Site	CATV Service Addition	Provide cable television service to building.	Building does not have CATV service. This is desired for monitoring new services and use during on-site workshops and meetings.	Enhancement	2	NA	No Cost Estimate	Maintenance item.	R. Thomas	B
AD-SI-16	Site	Sidewalk Replacement - On Site	Replace concrete sidewalk at front of building.	Existing sidewalk at front of building is cracked, uneven, worn and has deteriorated wood boards between sidewalk panels.	Deficiency	2	\$54,305	BLRB Cost Estimate		R. Thomas	B

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# ADMINISTRATION BUILDING

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AD-SI-17	Site	Street Tree Upgrade	Add and replace street trees at 4th St. NE and J St. NE.	Street trees are missing, overgrown or in poor condition at street frontage at 4th St. NE and J St. NE. Overgrown trees have damaged sidewalk.	Deficiency	2	\$24,438	BLRB Cost Estimate		R. Thomas B. Kenworthy	B
AD-SI-18	Site	SW Parking Lot Upgrade	At southwest parking lot, remove and replace asphalt, install wheel stops at 20 stalls, and restripe parking lot.	Existing asphalt at the southwest parking lot is 40 years old, worn, cracked and patched in a number of areas. Existing asphalt is not in adequate condition to leave in place and overlay. Wheel stops and new pavement striping will be needed after new asphalt installed.	Deficiency	2	\$176,696	BLRB Cost Estimate		R. Thomas B. Kenworthy	B
AD-SI-22	Site	Wood Fence Replacement	Replace wood fence at east side of south parking lot and west side of north parking lot.	Existing wood fence is 23 years old, deteriorated and poor condition.	Deficiency	2	\$29,019	BLRB Cost Estimate		R. Thomas B. Kenworthy	B
AD-IN-03	Interior	Carpet Replacement	Replace carpet at lower floor level at main stairs and in rooms 109, 114, 117, 118, 119, and 126. Replace carpet at upper floor level except at offices 203, 205, 207A, 208, 210, 212, 213 and 218.	Existing carpet in areas of the building is worn or discolored, has separated seams, is up to 40 years old, is past life expectancy, and does not meet district's minimum standard for quality.	Deficiency	2	\$232,120	BLRB Cost Estimate		T. Cummings K. Herren R. Luke M. Newman R. Thomas B. Kenworthy	B
AD-IN-05	Interior	Elevator Equipment Room Sound Attenuation	Provide sound attenuation at elevator equipment room 102.	Elevator equipment is noisy and is disruptive to individuals using adjacent IMC conference room.	Deficiency	2	\$33,917	BLRB Cost Estimate		M. Newman	B
AD-IN-14	Interior	Toilet Partition Upgrade	Replace metal toilet partitions and urinal screen with plastic laminate covered phenolic partitions.	Existing toilet partitions are 40 years old, scratched, rusted and defaced in areas.	Deficiency	2	\$30,425	BLRB Cost Estimate		R. Thomas B. Kenworthy	B
AD-IN-16	Interior	Window Covering Upgrade	Provide horizontal louver blinds at exterior windows.	Existing vertical louver blinds are in poor condition, difficult to operate and missing in some locations.	Deficiency	2	\$8,981	BLRB Cost Estimate		R. Thomas B. Kenworthy	B
AD-EL-04	Electrical	Exterior Lighting Level Improvements	Provide additional exterior illumination at front entry, delivery / service area and parking lots.	Existing lighting at delivery / service area and north and south parking lots lacks adequate illumination and is below district's minimum standards.	Health / Safety & Deficiency	2	\$115,809	Quantum Cost Estimate		M. Newman B. Kenworthy R. Thomas	B
AD-EL-10	Electrical	Multi-Media Center Additions	Provide cabling and devices for multi-media equipment in conference room, IMC and computer lab that will accommodate ceiling mounted LCD projector, integrated sound system, wireless document camera, video conferencing, and input / output connections for computer and audio visual equipment.	Electrical infrastructure needed for multi-media equipment in conference room, IMC and computer room to accommodate multi-media presentations and video conferencing.	Enhancement	2	\$56,824	Quantum Cost Estimate		R. Luke K. Herren	B
AD-EL-12	Electrical	Telephone System Upgrade	Provide new telephone system that includes additional lines and automated features and accessories suitable for a public agency and business operation.	Existing telephone system needs more lines and lacks automated features and accessories including voice mail, assistance for hearing impaired, and conferencing capabilities. Telephone system is over 30 years old, is past its life expectancy, is difficult to maintain, and replacement parts are not readily available.	Enhancement	2	\$56,824	Quantum Cost Estimate		K. Herren R. Luke M. Newman N. Vien R. Thomas	B

# PROPOSED FACILITY IMPROVEMENTS

# ADMINISTRATION BUILDING

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AD-NW-01	New	Modular Building - Conference Space Addition	Provide 900 SF modular building with operable divider wall located north of existing building, including electrical power, data, fire alarm, telephone, EMS extensions from Administration Building and vault with connections for additional portables.	Additional conference space needed to accommodate workshops, staff meeting and interview meetings. Utility infrastructure needs to be extended from Administration Building to accommodate new and additional modular buildings.	Deficiency	2	\$344,297	ASD Cost Estimate		T. Cummings K. Herren M. Newman R. Luke B. Kenworthy	B
AD-NW-02	New	Modular Building - Office Space Addition	Provide 900 SF modular building with offices located north of existing building.	Additional office space needed to accommodate growth in staff.	Enhancement	2	\$319,384	ASD Cost Estimate		T. Cummings K. Herren M. Newman R. Luke	B
AD-NW-05	New	New Administration Building	Provide new 2-story, 44,000 SF administration building with sloped metal roof, masonry veneer exterior, and parking for 30 visitors and 100 staff members at south side of existing site. Demolish existing administration building and existing parking areas.	Existing building is filled to capacity and additional space is needed to accommodate growth. Existing building does not include the school district's Student Special Services department which is located off-site because of lack of space. This results in operational inefficiencies. Additional space is needed for conference rooms, storage, instructional computer lab, and larger training computer lab. Spaces within the existing building are not optimally located because the building has been remodeled to fit additional staff and new programs within the confines of the existing building. This results in compromises in public access and inefficiencies in the internal operations. Existing HVAC system has been upgraded with a compromised system that fit within the existing structure. Phase 1 building would accommodate growth for approximately 10 years while existing administration building remained in use.	Deficiency	2	\$19,421,767	BLRB Cost Estimate		T. Cummings K. Herren M. Newman R. Luke B. Kenworthy	B
AD-SI-02	Site	ADA Site Improvements	Provide miscellaneous site improvements to comply with non-mandatory ADA standards.	Building was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous site areas, which do not significantly affect access to the building, could be improved to comply with current ADA standards. Site improvements needed to provide ADA required program access are identified separately.	Enhancement	2	\$25,855	BLRB Cost Estimate	Minor need and non-mandatory improvements.	ADA Consultant	C
AD-SI-03	Site	Bicycle Rack Addition	Provide a bike rack under building overhang for 6 bicycles.	Bike rack desired to provide an area staff and visitors to secure bicycles.	Enhancement	3	\$7,205	BLRB Cost Estimate	Minor need.	B. Kenworthy	C
AD-SI-05	Site	Exterior Bench Additions	Provide ribbon metal exterior bench on a concrete pad at front entry to building.	Exterior bench needed at front entry for staff and visitors to use when waiting to be picked up.	Deficiency	3	\$2,933	BLRB Cost Estimate	Minor deficiency.	R. Thomas B. Kenworthy	C
AD-SI-06	Site	Exterior Waste Receptacle Addition	Provide ornamental waste receptacle with push door top on a concrete pad at front entry.	Exterior waste receptacle needed at front entry for trash disposal before people enter building.	Enhancement	3	\$2,200	BLRB Cost Estimate	Minor deficiency.	R. Thomas B. Kenworthy	C
AD-SI-08	Site	Irrigation System Replacement	Replace irrigation system serving south side of site and add backflow prevention device.	Existing irrigation system serving lawn and landscape areas at south side of site is in poor condition and does not have adequate backflow prevention device.	Deficiency	2	\$20,560	BLRB Cost Estimate	Minor deficiency.	R. Thomas	C



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# ADMINISTRATION BUILDING

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AD-SI-09	Site	Landscape Plant Additions	Provide trees and shrubs at center landscape island at south parking lot and provide trees where missing at intermediate landscape islands at south parking lot.	Existing landscape island at center of south parking lot has minimal landscaping and looks barren and unsightly. Trees are missing at some of the intermediate landscape islands at south lot where original parking lots trees were lost during an ice storm.	Deficiency	3	\$78,933	BLRB Cost Estimate	Maintenance item and partially complete.	M. Newman R. Thomas B. Kenworthy	C
AD-SI-14	Site	Sidewalk Addition - Off Site	Provide a concrete sidewalk from the front of the building to the back parking lot.	A concrete sidewalk between the front and back parking lots is desired to provide a dedicated pathway between these areas.	Enhancement	3	\$9,731	BLRB Cost Estimate	Minor need.	R. Thomas	C
AD-SI-19	Site	Traffic Control Sign Upgrade	Replace parking and traffic control signs with new and larger metal signs.	Existing parking and traffic control signs are poor quality, undersized, faded, and difficult to see.	Deficiency	2	\$4,032	BLRB Cost Estimate	Maintenance item.	B. Kenworthy	C
AD-ST-01	Structural	Shear Wall Anchorage Verification	Verify there is positive anchorage between the floor framing and the top of the lower level shear walls.	A positive connection between the main floor diaphragm and the lower level bearing walls is needed for seismic support.	Deficiency	2	\$18,328	PCS Cost Estimate	Minor deficiency.	Structural Engineer	C
AD-ST-02	Structural	Roof Replacement & Sheathing Addition	Replace roof and overlay the existing roof sheathing with diagonally laid plywood sheathing at a portion of the roof.	Addition of plywood sheathing will increase diaphragm capacity.	Deficiency	2	\$75,757	PCS Cost Estimate	Minor deficiency.	Structural Engineer	C
AD-ST-03	Structural	Roof Strap Additions	Provide metals straps to tie roof members together.	Metal straps will address low stresses at the diaphragm boundaries.	Deficiency	2	\$10,265	PCS Cost Estimate	Minor deficiency.	Structural Engineer	C
AD-ST-04	Structural	Roof Diaphragm Anchoring	Provide cross ties at subdiaphragms by anchoring the masonry walls that run parallel to roof decking.	Proper anchorage is needed between masonry walls and roof diaphragm.	Deficiency	2	\$6,452	PCS Cost Estimate	Minor deficiency.	Structural Engineer	C
AD-ST-05	Structural	Masonry Wall / Floor Diaphragm Anchoring	Provide cross ties at subdiaphragms by anchoring the masonry walls over the floor sheathing.	Proper anchorage is needed between masonry walls and floor diaphragm.	Deficiency	2	\$2,565	PCS Cost Estimate	Minor deficiency.	Structural Engineer	C
AD-ST-06	Structural	Shear Wall Upgrade	Provide shear walls at lower floor level.	Shear walls are needed to improve seismic support.	Deficiency	2	\$92,375	PCS Cost Estimate	Minor deficiency.	Structural Engineer	C
AD-ST-07	Structural	Floor Diaphragm Verification & Upgrade.	Verify adequacy of existing floor diaphragms and add additional shear walls.	Additional shear walls will improve seismic support.	Deficiency	2	NA	PCS Cost Estimate	Costs included in AD-ST-06.	Structural Engineer	C
AD-EX-02	Exterior	Building Sign Addition	Provide a sign attached to the building identifying building name and address.	Existing site sign is difficult to see. An additional sign mounted on the building desired to identify the building and address.	Enhancement	3	\$61,095	BLRB Cost Estimate	Minor need.	B. Kenworthy	C
AD-EX-03	Exterior	Exterior Door Hardware Upgrade	Replace exterior door lock cylinders with Primus cylinders.	Primus lock cylinders will improve building security.	Enhancement	4	\$2,640	BLRB Cost Estimate	Minor need.	R. Thomas	C
AD-EX-05 ECM-G1	Exterior	Exterior Window Upgrade - Fixed Sash	Replace single-pane fixed windows with dual-glazed fixed sash windows.	Dual-glazed, thermal pane windows will improve energy efficiency and reduce energy costs.	Operating Cost	3	\$128,563	Quantum Cost Estimate	Not cost effective because of estimated 15-year payback period.	Energy Consultant	C
AD-EX-06	Exterior	Exterior Window Upgrade - Operable Sash	Replace single-pane fixed windows with dual-glazed operable sash windows.	Dual-glazed, thermal pane windows will improve energy efficiency and reduce energy costs. Operable sash windows will allow windows to be opened for fresh air and improved comfort.	Operating Cost & Enhancement	2	\$135,067	BLRB Cost Estimate	Not cost effective.	R. Luke M. Newman R. Thomas	C

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AD-IN-01	Interior	ADA Building Improvements	Provide miscellaneous building improvements to comply with non-mandatory ADA standards.	Building was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous building areas, which do not significantly affect access within the building, could be improved to comply with current ADA standards. Improvements needed to provide ADA required program access within the building are identified separately.	Enhancement	2	\$316,991	BLRB Cost Estimate	Minor need and non-mandatory improvements.	ADA Consultant	C
AD-IN-02	Interior	Asbestos Containing Material Removal	Remove approximately 2,500 SF of asbestos-containing vinyl floor tile and mastic and 30 asbestos pipe insulation joints.	Asbestos-containing vinyl tile, mastic and insulation joints present in the building. All asbestos is encapsulated within the material and is not friable.	Enhancement	3	\$31,770	BLRB Cost Estimate	Minor need.	R. Thomas	C
AD-IN-04	Interior	Ceiling Tile Replacement	Replace lay-in acoustical ceiling panels through out building.	Existing 2'x4' lay-in acoustical ceiling panels do not match and are stained, discolored or damaged in many locations.	Enhancement	3	\$303,758	BLRB Cost Estimate	Minor need.	T. Cummings	C
AD-IN-11	Interior	Mirror Additions	Provide additional mirror on wall in restrooms 204 and 209 at height compliant with ADA.	Existing mirrors above sinks in restrooms 204 and 209 are too high to comply with ADA. Installation of additional mirrors on wall more cost effective than lowering existing mirrors above sinks.	Deficiency	3	\$1,467	BLRB Cost Estimate	Minor deficiency.	ADA Consultant	C
AD-IN-12	Interior	Paper Towel Dispenser Additions	Provide paper towel dispenser in restrooms 204 and 209 at ADA compliant height.	Existing paper towel dispensers in restrooms 204 and 209 are mounted too high to comply with ADA. Installing additional dispensers at ADA compliant height easier than lowering existing built-in dispensers.	Deficiency	2	\$1,222	BLRB Cost Estimate	Minor deficiency.	ADA Consultant	C
AD-EQ-02	Equipment	Reception Area Furniture Upgrade	Provide new upholstered chairs in waiting areas at superintendent's office and student learning department.	Existing chairs at superintendent's office and student learning department waiting areas are 40 years old and worn.	Deficiency	3	\$16,934	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
AD-ME-03	Mechanical	Fire Sprinkler System Addition	Provide fire sprinkler system.	Building is not protected with a fire sprinkler system.	Deficiency	3	\$89,995	Quantum Cost Estimate	Not cost effective.	R. Thomas	C
AD-ME-04	Mechanical	Heating Pump Addition	Provide back up pump for heating water circulation system.	Back up pump desired to provide redundancy and ensure heating system will continue to operate if primary pump fails.	Enhancement	3	\$22,602	Quantum Cost Estimate	Not cost effective.	R. Thomas	C
AD-ME-10	Mechanical	Plumbing Fixture Replacement	Replace plumbing fixtures with water efficient models.	Existing plumbing fixtures are 40 years old and in fair condition but do not have efficient water usage.	Enhancement	3	\$54,254	Quantum Cost Estimate	Minor need and long-term pay-back period.	R. Thomas	C
AD-ME-11 ECM-W1	Mechanical	Plumbing Fixture Retrofit Review	Review water saving opportunities including retrofit or replacement of sinks, urinals and water closets.	A reduction in water use will reduce utility costs.	Operating Cost	1	\$6,428	Quantum Cost Estimate	Further investigation revealed not cost effective to replace plumbing fixtures because of long-term payback period.	Energy Consultant R. Thomas	C
AD-ME-13	Mechanical	Sink Pipe Insulation Additions	Provide insulation on exposed water supply lines and drain pipes below sinks in restrooms 204 and 209.	Insulation needed on exposed pipes below sinks to protect wheelchair users and to comply with ADA.	Deficiency	3	\$1,544	Quantum Cost Estimate	Minor deficiency.	ADA Consultant	C
AD-ME-15	Mechanical	Toilet Fixture Upgrade	Replace an existing urinal in restroom 204 with a water efficient and ADA compliant urinal.	Existing urinals in restroom 204 are mounted too high to comply with ADA and are not water efficient.	Deficiency	2	\$9,000	Quantum Cost Estimate	Minor deficiency.	ADA Consultant	C
AD-EL-01	Electrical	Data Communications Equipment Upgrade	Upgrade data communications equipment filter, router, switch, traffic shaping and connectivity speed.	Existing filter, router, switch, traffic shaping and connectivity speed do not meet district's minimum standards.	Deficiency	1	\$383,024	ASD Cost Estimate	Minor deficiency.	N. Vien	C

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AD-EL-02	Electrical	Data and Electrical Outlet Additions	Provide a duplex electrical receptacle and two data outlets in a recessed floor box in the wood framed floor in the board room at 12 locations and conference room at 6 locations. Provide a duplex electrical receptacle and two data outlets in a recessed floor box in the concrete slab in the IMC at 8 locations and computer lab at 8 locations.	Existing building has unsafe electrical outlets located in the floor in meeting and conference rooms. These rooms need electrical and data outlets in recessed floor boxes to allow computers and other data equipment to be used in these rooms for meetings, workshops and conferences.	Health / Safety & Deficiency	2	\$65,052	Quantum Cost Estimate	Not cost effective. See AD-EQ-04 for an alternate approach.	R. Luke K. Herren	C
AD-EL-03	Electrical	Electrical Service Metering	Provide electronic meter for electrical service connected to energy management system.	Electronic meter will allow remote monitoring of electrical service and improve potential for reducing electrical use.	Operating Cost	2	\$24,941	Quantum Cost Estimate	Not cost effective.	R. Thomas	C
AD-EL-06	Electrical	Interior Lighting Level Improvements	Provide additional illumination at corridors, some offices, some emergency exit areas, restrooms, conference rooms and workrooms.	Existing lighting at interior areas lacks adequate illumination and does not meet the district's minimum standards.	Deficiency	2	\$38,570	Quantum Cost Estimate	Minor deficiency. See AD-EL-07 for a portion of these improvements.	B. Kenworthy	C
AD-EL-08	Electrical	Intrusion Alarm Audible Signal Upgrade	Upgrade intrusion alarm system to provide audible alarm.	Use of audible alarm could reduce intrusions and false alarms.	Enhancement	3	\$30,430	Quantum Cost Estimate	Minor need.	M. Newman	C
AD-EL-09	Electrical	IPTV System Addition	Provide an internet protocol television system, IPTV, to record and transmit audio and video on demand to schools and other remote locations.	An IPTV system is desired to allow informational and training audio / video recordings to be made and transmitted from the building to outside locations via the school district's website and computer network.	Enhancement	2	NA	No Cost Estimate	Obtained with Technology Levy funds.	K. Herren	C
AD-MD-01	Modernization	Computer Lab Modernization	Provide larger computer lab by converting IMC 101 into a lab with 30 computer stations in a classroom setting with an instructor's demonstration area. Provide additional mechanical cooling to room to accommodate heat gain from computer equipment.	Existing computer lab has 13 computer stations. Larger computer lab needed to accommodate 30 computer stations and classroom instruction for school district training activities.	Deficiency	2	\$231,668	BLRB Cost Estimate	Not cost effective.	R. Luke	C
AD-MD-02	Modernization	Operable Wall Additions	Provide new operable wall at mid-section of board room and mid-section of IMC. Replace accordion curtain between board room and conference room with operable wall. Provide structural and HVAC modifications as needed to accommodate these operable walls.	Adding an operable wall at the mid-section of the board room and IMC will allow these rooms to be divided into and used as two separate conference rooms. Existing accordion curtain between board room and conference room is difficult to operate and does not provide acoustical separation between rooms resulting in disruptions when both rooms are used at same time.	Enhancement	1	\$296,065	BLRB Cost Estimate	Not cost effective.	R. Thomas B. Kenworthy	C

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AD-NW-03	New	Administration Building Addition - Phase 1	Provide new 2-story, 24,000 SF, stand-alone, Phase 1 administration building addition with sloped metal roof, masonry veneer exterior, parking for 30 visitors and 20 staff members at south side of existing site. Phase 1 building would accommodate board room, large conference room and offices for superintendent, student learning, student special services, and instructional computer lab.	Existing building is filled to capacity and additional space is needed to accommodate growth. Existing building does not include the school district's Student Special Services department which is located off-site because of lack of space. This results in operational inefficiencies. Additional space is needed for conference rooms, storage, instructional computer lab, and larger training computer lab. Spaces within the existing building are not optimally located because the building has been remodeled to fit additional staff and new programs within the confines of the existing building. This results in compromises in public access and inefficiencies in the internal operations. Existing HVAC system has been upgraded with a compromised system that fit within the existing structure. Phase 1 building would accommodate growth for approximately 10 years while existing administration building remained in use.	Deficiency	2	\$11,817,440	BLRB Cost Estimate	Not cost effective.	T. Cummings K. Herren M. Newman R. Luke B. Kenworthy	C
AD-NW-04	New	Administration Building Addition - Phase 2	Provide 20,000 SF Phase 2 addition to the 2-story Phase 1 administration building with sloped metal roof, masonry veneer exterior, and 100 parking spaces. Demolish existing administration building and 20 parking spaces. Phase 2 portion of building would accommodate human resources, business office, capital projects, IT and computer lab.	Phase 2 building addition would expand a Phase 1 building and allow the existing administration building to be demolished and all administrative staff centrally located in the same building. This phased construction would allow the Phase 2 addition to be constructed before demolition of the existing building.	Deficiency	2	\$10,158,773	BLRB Cost Estimate	Not cost effective.	T. Cummings K. Herren M. Newman R. Luke B. Kenworthy	C
AD-NW-06	New	Administration Building Replacement	Demolish existing building and build new 24,000 SF replacement building at location of existing building. Existing site remains as is.	Existing building has program and facility component deficiencies. Replacement of building with new facility of comparable size would correct deficiencies present in existing facility but would not provide additional space to correct space deficiencies.	Deficiency	2	\$9,920,625	ASD Cost Estimate	Not cost effective.	T. Cummings K. Herren M. Newman R. Luke B. Kenworthy	C
AD-NW-07	New	Administration Building and Site Improvement Replacement	Demolish existing building and build new 24,000 SF replacement building and 3.5 acres of site improvements on existing property.	Existing building and site has program and facility component deficiencies. Replacement of building and site improvements with new facility of comparable size would correct deficiencies present in existing facility but would not provide additional space to correct space deficiencies.	Deficiency	3	\$12,663,888	ASD Cost Estimate	Not cost effective.	T. Cummings K. Herren M. Newman R. Luke B. Kenworthy	C
AD-SI-10	Site	Landscape Plant Improvements	Prune and replace overgrown shrubs and trees around perimeter of building.	Some of the existing shrubs and trees located around the building are overgrown. Pruning and replacement will improve appearance and visual supervision.	Enhancement	NA	NA	No Cost Estimate	Maintenance item.	R. Luke R. Thomas	NA
AD-SI-12	Site	Pipe Rail Gate Improvement	Provide reflective tape on two pipe rail vehicle gates at entrance to north parking lot.	Existing pipe rail gates do not have reflective tape and can be difficult to see at night.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Kenworthy	NA
AD-SI-20	Site	Tree Pruning	Selectively prune trees at parking lots where foliage blocks parking lot lighting.	Existing trees at some locations in north and south parking lots have grown tall enough to block illumination from parking lot lights.	Health / Safety	NA	NA	No Cost Estimate	Maintenance item.	M. Newman	NA

# PROPOSED FACILITY IMPROVEMENTS

# ADMINISTRATION BUILDING

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AD-EX-04	Exterior	Exterior Painting	Paint exterior of buildings.	Exterior painted surfaces are in fair to poor condition.	Deficiency	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Luke R. Thomas	NA
AD-EX-07	Exterior	Skylight Upgrade	Replace skylights with new units that have a 300-pound point load capacity.	Existing skylights do not meet district's minimum standard for point load capacity.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency because roof is not accessible to intruders.	R. Thomas	NA
AD-IN-07	Interior	Interior Appearance Upgrade	Improve the appearance of the building interior.	Building interior is relatively unchanged since it was built in 1968 and has a dated appearance.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency.	N. Vien	NA
AD-IN-10	Interior	Interior Painting	Paint interior of buildings	Existing interior paint is in good condition.	Enhancement	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Luke R. Thomas	NA
AD-IN-13	Interior	Stairway Railing Refinishing	Refinish wood railing at main stairway.	Existing finish on the wood railing at the main stairwell is scratched, marred and worn in areas.	Deficiency	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Luke	NA
AD-IN-15	Interior	Walk Off Mat Additions	Provide loose laid walk off mats with edge trim at building entrances.	Walk off mats missing or undersized at exterior doors. New and larger mats will improve dirt control and reduce maintenance and carpet wear.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	R. Thomas	NA
AD-IN-17	Interior	Women's Restroom Lounge Improvements	Provide carpeting and upgraded furniture at women's restroom lounge area 111.	Existing lounge area in lower floor level women's restroom has a tile floor and a health room cot. Furniture and flooring improvements desired to make room more comfortable.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency and not a district standard.	R. Luke	NA
AD-ME-01 ECM-M6	Mechanical	Computer Equipment Room HVAC Upgrade	Replace the computer room air conditioning units with new units of larger capacity to accommodate the current and future heat load.	Existing heat pumps serving the computer equipment room do not have adequate capacity to meet cooling demands of the computer equipment room. This causes the room to overheat and has the potential to damage the school district's central computer equipment.	Deficiency	NA	NA	No Cost Estimate	Scheduled to be completed by Maintenance Department.	Energy Consultant M. Newman N. Vien R. Thomas	NA
AD-ME-14	Mechanical	Telecommunication Rooms Cooling and Ventilation Addition	Provide independent mechanical ventilation and cooling system in electrical room 122 where MC equipment is located.	Existing room where MC equipment is located lacks independent HVAC systems needed to keep data equipment from overheating and damaging equipment.	Deficiency	1	NA	No Cost Estimate	To be completed by Maintenance Dept.	N. Vein	NA
AD-ME-16	Mechanical	Water Meter Deduct Addition	Install a dedicated deduct water meter for the irrigation system to eliminate sewer charges on irrigation water.	Deduct water meter will reduce utility costs.	Operating Cost	1	NA	Quantum Cost Estimate	Included in AD-SI-21.	Energy Consultant	NA
AD-MD-03	Modernization	Storage Addition	Provide additional space for general storage.	Additional space desired for general storage of office and reference materials, audio visual equipment, and building supplies.	Enhancement	NA	NA	No Cost Estimate	Not cost effective to expand building for general storage.	T. Cummings R. Luke	NA
AD-MD-04	Modernization	Student Learning Department Modernization	Modernize student learning department area to improve access, visibility, appearance and to accommodate for future growth.	Existing student learning department is difficult for visitors to find, has office and clerical space that is not efficiently located, lacks exterior windows at some offices, and does not have a welcoming appearance.	Enhancement	NA	NA	No Cost Estimate	Not cost effective to modernize Student Learning Department within existing building because of building constraints and space limitations.	K. Herren	NA

# PROPOSED FACILITY IMPROVEMENTS

# ADMINISTRATIVE ANNEX

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AA-SI-04	Site	Delivery Area Pavement Addition	Provide asphalt pavement at delivery area and service drive at south side of building.	Existing delivery area and service drive is gravel which ponds water and is difficult for use of delivery carts.	Deficiency	2	\$25,769	BLRB Cost Estimate		B. Kenworthy	A
AA-SI-09	Site	Handrail Upgrade	Replace wood railings and hand rails at exterior stairs and ramps with painted metal handrails and provide handrail extensions at the top and bottom of exterior ramps serving upper and lower floors.	Existing wood railings and handrails are deteriorating and handrail extensions needed ramps to improve access for the disabled and to comply with ADA.	Deficiency	1	\$21,383	BLRB Cost Estimate		ADA Consultant B. Kenworthy	A
AA-SI-15	Site	Sidewalk Replacement and Addition	Replace sidewalk at east side of building. Add sidewalk at south side of building.	Existing sidewalk at east side of building has significant cracks and is uneven. Existing site does not have a sidewalk at the south side of the building that connects the street frontage sidewalk with the on-site sidewalk. Instead, there is a gravel path that is not accessible by wheelchairs and not ADA compliant.	Deficiency	1	\$8,206	BLRB Cost Estimate		ADA Consultant K. Herren	A
AA-SI-18 ECM-W3	Site	Water Meter Addition	Provide a deduct water meter for irrigation system.	Installation of a deduct meter will allow non-sewer related irrigation water usage to be deducted from sewer charges and reduce monthly utility costs.	Operating Cost	2	\$6,428	Quantum Cost Estimate	Estimated 6-year payback.	Energy Consultant	A
AA-EX-01	Exterior	Automatic Door Opener Addition	Provide automatic door opener at the upper and lower front entry doors.	Building does not have automatic door opener at main entry doors.	Enhancement	1	\$39,100	BLRB Cost Estimate		J. Trauffer M. Newman B. Kenworthy	A
AA-EX-02	Exterior	Exterior Door Hardware Upgrade	Replace exterior door lock cylinders with Primus cylinders.	Primus lock cylinders will improve building security.	Enhancement	2	\$1,979	BLRB Cost Estimate		R. Thomas	A
AA-IN-05	Interior	Restroom Floor Upgrade	Provide new sheet vinyl flooring in restrooms 217 and 218.	Existing sheet vinyl flooring is cracked from deflection of floor structure. New floor material is needed for improved sanitation and appearance.	Deficiency	2	\$2,077	BLRB Cost Estimate		R. Thomas B. Kenworthy	A
AA-ME-04 ECM-M1	Mechanical	HVAC Control System Commissioning	Commission the HVAC control system to verify proper operation.	Commissioning could improve system operation and reduce energy costs.	Operating Cost	2	\$6,428	Quantum Cost Estimate	Estimated 8-year payback period.	Energy Consultant R. Thomas	A
AA-ME-05	Mechanical	Pipe Insulation Additions	Provide insulation on exposed water supply lines and drain pipes below sinks in restrooms 217 and 218.	Insulation needed on exposed pipes below sinks to protect wheelchair users and to comply with ADA.	Deficiency	1	\$1,068	Quantum Cost Estimate		ADA Consultant	A
AA-ME-06 ECM-W1	Mechanical	Plumbing Fixture Replacement - Partial	Replace water closets and provide aerators for sinks.	A reduction in water use will reduce utility costs.	Operating Cost	2	\$10,285	Quantum Cost Estimate	Estimated 6-year payback period.	Energy Consultant R. Thomas	A
AA-EL-08 ECM-L2	Electrical	Exit Sign Replacement	Replace incandescent and compact fluorescent exit signs with new LED exit signs.	Exit sign replacement will reduce energy costs.	Operating Cost	1	\$643	Quantum Cost Estimate	Estimated 4-year payback.	Energy Consultant	A
AA-EL-11 ECM-L1	Electrical	Interior Lighting Upgrade	Retrofit or replace T-12 fixtures, magnetic ballast and incandescent fixtures with T-8, electronic ballast and compact fluorescent technology.	Fixture replacement or retrofit will reduce energy costs.	Operating Cost	2	\$21,855	Quantum Cost Estimate	Estimated 6-year payback period.	Energy Consultant	A
AA-SI-13	Site	Parking Addition - SW and SE Lots	Provide a parking lot at the existing gravel lot and existing residential lot located southwest and southeast of the building.	Additional parking needed for staff and visitors and contiguous parking lot needed to provide reserved parking for the disabled. This would also provide additional parking for events at Auburn Memorial Stadium and Auburn Pool.	Deficiency	1	\$403,245	BLRB Cost Estimate		ADA Consultant M. Newman J. Trauffer K. Herren	B
AA-ME-09	Mechanical	Workroom Ventilation System Upgrade	Provide improved ventilation system in workroom.	Improved ventilation system with independent control needed in workroom where large copy machine is located for improved indoor air quality.	Deficiency	3	\$7,354	Quantum Cost Estimate		R. Thomas	B

# PROPOSED FACILITY IMPROVEMENTS

# ADMINISTRATIVE ANNEX

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AA-EL-05	Electrical	Electrical Outlet Additions - Main Office	Provide additional electrical circuit and 6 electrical outlets in main office area 210.	Existing main office area does not have enough electrical outlets to accommodate existing office equipment and some existing circuit breakers trip.	Deficiency	2	\$21,855	Quantum Cost Estimate		J. Trauffer	B
AA-EL-13	Electrical	Telephone System Upgrade	Provide new telephone system.	Existing telephone system is unreliable and past its life expectancy.	Deficiency	1	\$51,168	Quantum Cost Estimate		J. Trauffer R. Thomas	B
AA-SI-01	Site	ADA Site Improvements	Provide miscellaneous site improvements to comply with non-mandatory ADA standards.	Building was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous site areas, which do not significantly affect access to the building, could be improved to comply with current ADA standards. Site improvements needed to provide ADA required program access are identified separately.	Enhancement	1	\$30,180	BLRB Cost Estimate	Minor need and non-mandatory improvements.	ADA Consultant	C
AA-SI-02	Site	Bicycle Rack Addition	Provide a bike rack for 6 bicycles.	Bike rack desired to provide an area staff and visitors to secure bicycles.	Enhancement	4	\$3,665	BLRB Cost Estimate	Minor need.	B. Kenworthy	C
AA-SI-05	Site	Dumpster Screen Addition	Provide screen walls for dumpster storage.	Dumpsters are not surrounded on three sides by screen walls and are unsightly.	Deficiency	4	\$39,926	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
AA-SI-06	Site	Exterior Ramp Upgrade	Replace exterior wood ramp serving upper floor level with metal ramp system.	Existing wood ramp is 19 years old and in fair condition. Replacement will be needed in 5 to 10 years.	Enhancement	3	\$51,320	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
AA-SI-08	Site	Flag Pole Addition	Provide 20' high aluminum flag pole at front of building.	Existing building does not have a flag pole to display US and state flags.	Deficiency	4	\$12,220	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
AA-SI-10 ECM-W2	Site	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station and add a rain gauge.	Connection to the EMS and the addition of a rain gauge will reduce water consumption and utility costs.	Operating Cost	2	\$6,428	Quantum Cost Estimate	Minor deficiency and long-term payback period.	Energy Consultant	C
AA-SI-12	Site	Parking Addition - SW Lot	Provide a parking lot at the existing gravel lot located southwest of the building.	Additional parking needed for staff and visitors and contiguous parking lot needed to provide reserved parking for the disabled. This would also provide additional parking for events at Auburn Memorial Stadium and Auburn Pool.	Deficiency	1	\$208,449	BLRB Cost Estimate	Cost included in AA-SI-13.	ADA Consultant M. Newman J. Trauffer K. Herren	C
AA-SI-17	Site	Traffic Control Sign Upgrade	Replace delivery parking sign with new metal sign.	Existing sign designating reserved parking for delivery vehicles is poor quality and deteriorated.	Deficiency	3	\$367	BLRB Cost Estimate	Maintenance item.	B. Kenworthy	C
AA-SI-19	Site	Wood Fence Replacement	Replace wood fence and gate at heat pump enclosure at south side of building.	Existing wood fence is 19 years old and in fair to poor condition.	Enhancement	4	\$6,475	BLRB Cost Estimate	Maintenance item.	B. Kenworthy	C
AA-ST-01	Structural	Wall Sheathing & Hold Down Additions	Provide plywood sheathing and hold downs at east and west walls.	Plywood sheathing and hold downs are needed to resist shear and overturning forces on the east and west walls.	Deficiency	2	\$40,506	PCS Cost Estimate	Minor deficiency.	Structural Engineer	C
AA-ST-03	Structural	Roof Blocking Additions	Provide blocking at the double top plate between the roof trusses. Add nailing from the roof sheathing to the wood blocking.	Blocking and nailing are needed to provide a positive connection between roof diaphragm and shear wall at the east and west walls.	Deficiency	2	\$6,598	PCS Cost Estimate	Minor deficiency.	Structural Engineer	C
AA-EX-03	Exterior	Exterior Door Modification	Replace 2'-8" wide exterior door and frame at east side of lower level with 3' wide door and frame.	Existing 2'-8" wide exterior door, which serves exterior ramp, is not wide enough to be ADA compliant.	Deficiency	1	\$6,598	BLRB Cost Estimate	Minor deficiency. Not cost effective to remedy.	B. Kenworthy	C

# PROPOSED FACILITY IMPROVEMENTS

# ADMINISTRATIVE ANNEX

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AA-EX-05	Exterior	Roof Fall Arrest Anchors Addition	Provide fall arrest system at roof.	Pitched roof does not have fall arrest safety system.	Health / Safety	3	\$12,952	BLRB Cost Estimate	Minor deficiency.	R. Thomas	C
AA-IN-01	Interior	ADA Building Improvements	Provide miscellaneous building improvements to comply with non-mandatory ADA standards.	Building was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous building areas, which do not significantly affect access within the building, could be improved to comply with current ADA standards. Improvements needed to provide ADA required program access within the building are identified separately.	Enhancement	1	\$127,124	BLRB Cost Estimate	Minor need and non-mandatory improvements.	ADA Consultant	C
AA-IN-04	Interior	Reception Counter Modifications	Lower height of reception counter to a maximum of 36".	Existing reception counter higher than 36" which restricts access for the disabled and does not comply with ADA.	Deficiency	2	\$7,332	BLRB Cost Estimate	Minor deficiency.	ADA Consultant	C
AA-IN-06	Interior	Tackboard Addition	Provide 8' tackboard in large conference room.	Tackboard needed in large conference room to display presentation information and notices.	Deficiency	4	\$782	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
AA-EQ-01	Equipment	Fiber Optic Connection Addition	Provide data communications equipment to accommodate installation of a leased fiber optic circuit.	Equipment needed when school upgrades its internet connection with a fiber optic circuit leased from Qwest.	Enhancement	2	\$11,410	ASD Cost Estimate	Minor need.	N. Vein	C
AA-EQ-02	Equipment	Projection Screen Addition	Provide 60" x 60" projection screen in large conference room.	Projection screen needed for audio visual presentations.	Deficiency	2	NA	No Cost Estimate	Maintenance item.	B. Kenworthy	C
AA-EQ-03	Equipment	Toilet Seat Modifications	Provide hinged elevated toilet seats at water closet in restrooms 217 and 218.	Existing toilet seats are not high enough to provide easy access for the disabled and to comply with ADA.	Deficiency	1	NA	No Cost Estimate	Maintenance item.	ADA Consultant	C
AA-ME-01 ECM-M2	Mechanical	Automatic Controls Upgrade	Provide an EMS control system that is networked to Auburn Pool.	An EMS control system would replace the existing time clock controls and will improve occupant comfort and reduce energy costs.	Operating Cost	3	\$6,171	Quantum Cost Estimate	Not cost effective because of estimated 12-year payback.	Energy Consultant R. Thomas J. Trauffer	C
AA-ME-02	Mechanical	Fire Sprinkler System Addition	Provide fire sprinkler system..	Building is not protected with a fire sprinkler system.	Deficiency	2	\$115,707	Quantum Cost Estimate	Not cost effective.	R. Thomas	C
AA-ME-03	Mechanical	Heat Pump Replacement	Replace heat pumps.	Existing heat pumps residential units and are past life expectancy.	Enhancement	2	\$43,712	Quantum Cost Estimate	Minor need at this time. Not cost effective.	R. Thomas	C
AA-ME-08	Mechanical	Telecommunication Rooms Cooling and Ventilation Addition	Provide independent mechanical ventilation and cooling system in mechanical room 108 where MC equipment is located.	Existing room where MC equipment is located lacks independent HVAC systems needed to keep data equipment from overheating and damaging equipment.	Deficiency	2	\$35,998	Quantum Cost Estimate	Minor deficiency.	N. Vein	C
AA-EL-01	Electrical	Audio Visual Equipment Addition	Provide audio visual cart with LCD projector and computer.	Cart mounted audio visual equipment needed for presentations in large conference room and large office areas.	Deficiency	3	\$2,905	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
AA-EL-02	Electrical	Data Communications Equipment Upgrade	Upgrade data communications equipment filter, router, switch, traffic shaping and connectivity speed.	Existing filter, router, switch, traffic shaping and connectivity speed do not meet district's minimum standards.	Deficiency	1	\$42,430	ASD Cost Estimate	Minor deficiency.	N. Vien	C
AA-EL-03	Electrical	Data Outlet Addition - Large Conference Room	Provide 3 additional data outlets where existing electrical outlets are present in large conference room.	Additional data outlets desired to allow additional computer use in large conference room.	Enhancement	1	\$3,864	Quantum Cost Estimate	Minor need.	B. Kenworthy	C
AA-EL-04	Electrical	Data Outlet Addition - Photocopy Machine	Provide data outlet at photocopy machine in main office.	Data outlet desired at copy machine to allow networked use of copy machine.	Enhancement	1	NA	Quantum Cost Estimate	Maintenance item.	J. Trauffer	C



# PROPOSED FACILITY IMPROVEMENTS

# ADMINISTRATIVE ANNEX

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AA-EL-06	Electrical	Electrical Service Metering	Provide electronic meter for electrical service connected to energy management system.	Electronic meter will allow remote monitoring of electrical service and improve potential for reducing electrical use.	Enhancement	2	\$24,941	Quantum Cost Estimate	Not cost effective.	R. Thomas	C
AA-EL-09	Electrical	Exterior Lighting Level Improvements	Provide additional exterior illumination at main entries, delivery / service area, and pathways.	Existing lighting at exterior areas lacks adequate illumination and is below district's minimum standards.	Deficiency	2	\$26,741	Quantum Cost Estimate	Minor deficiency.	B. Kenworthy	C
AA-EL-10	Electrical	Interior Lighting Level Improvements	Provide additional illumination at emergency lighting, offices and workroom.	Existing lighting at interior areas lacks adequate illumination and does not meet the district's minimum standards.	Health / Safety & Deficiency	2	\$19,285	Quantum Cost Estimate	Minor deficiency. A portion of these improvements included in AA-EL-11.	B. Kenworthy	C
AA-EL-12	Electrical	Intrusion Alarm Audible Signal Upgrade	Upgrade intrusion alarm system to provide audible alarm.	Use of audible alarm could reduce intrusions and false alarms.	Enhancement	3	\$25,456	Quantum Cost Estimate	Minor need.	M. Newman	C
AA-MD-02	Modernization	Elevator Addition	Provide elevator for access to first and second floor levels.	Elevator desired to allow disabled staff, students and visitors to travel between first and second floor without going outside of building to use an exterior ramp.	Enhancement	1	\$315,136	BLRB Cost Estimate	Not cost effective.	K. Herren	C
AA-NW-01	New	Building Replacement	Demolish existing building and build new 6,600 SF replacement building at location of existing building that matches size of existing building. Existing site remains as is.	Existing building and site have program and facility component deficiencies. Replacement of building and site improvements with new facility of comparable size would correct deficiencies present in existing facility but would not provide additional space to correct space deficiencies.	Deficiency	3	\$2,761,688	ASD Cost Estimate	Not cost effective.	B. Kenworthy	C
AA-NW-02	New	Building and Site Improvements Replacement	Demolish existing building and site improvements. Build new 6,600 SF replacement building at existing property and provide 0.8 acres of site improvements.	Existing building has program and facility component deficiencies. Replacement of building with new facility of comparable size would correct deficiencies present in existing facility but would not provide additional space to correct space deficiencies.	Deficiency	3	\$3,337,538	ASD Cost Estimate	Not cost effective.	B. Kenworthy	C
AA-SI-03	Site	Concrete Stair Repair	Repair stair treads on concrete stair at west side of building.	Existing treads at concrete stairway have minor wear and chipping.	Enhancement	NA	NA	No Cost Estimate	Maintenance item.	B. Kenworthy	NA
AA-SI-07	Site	Exterior Stair Tread Replacement	Replace treads at exterior stairs at front entry.	Existing exterior stair treads are in fair condition.	Enhancement	NA	NA	No Cost Estimate	Maintenance item.	R. Thomas B. Kenworthy	NA
AA-SI-11	Site	Landscape Plant Improvements	Prune and replace overgrown ground cover, shrubs, trees at east and south sides of building.	Existing ground cover, shrubs and trees located at front and side of building are overgrown.	Enhancement	NA	NA	No Cost Estimate	Maintenance item.	R. Thomas B. Kenworthy	NA
AA-SI-14	Site	Pipe Rail Barrier Repair	Repair pipe rail barrier at service drive.	Existing pipe rail barrier at service drive has been damaged by vehicles at some locations.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	R. Thomas	NA
AA-SI-16	Site	Surface Drainage Modification	Modify surface drainage at south side of building so water does not drain into window wells at south exterior wall.	During heavy rain, water drains into window wells at south side of building and leaks through windows into building. Existing roof downspouts in this area are not connected to storm drain system.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	R. Thomas	NA
AA-ST-02	Structural	Roof Replacement & Sheathing Addition	Replace roof and provide plywood sheathing over existing roof sheathing.	Plywood sheathing is needed is needed to provide additional lateral support for seismic protection.	Deficiency	NA	NA	PCS Cost Estimate	Completed in 2001 when roof was replaced.	Structural Engineer	NA
AA-EX-04	Exterior	Exterior Painting	Paint exterior of buildings.	Exterior paint is in good condition.	Enhancement	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Thomas	NA

# PROPOSED FACILITY IMPROVEMENTS

# ADMINISTRATIVE ANNEX

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AA-EX-06	Exterior	Roof Shingle Replacement	Replace composition shingles.	Existing composition shingles will exceed life expectancy in 5 years.	Enhancement	NA	NA	BLRB Cost Estimate	Completed in 2001.	R. Thomas	NA
AA-IN-02	Interior	Interior Painting	Paint interior of buildings	Existing interior paint is in good condition.	Enhancement	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Thomas	NA
AA-IN-03	Interior	Mirror Additions	Provide additional mirror on wall in restrooms 217 and 218 at height compliant with ADA.	Existing mirrors above sinks in restrooms 217 and 218 are too high to comply with ADA. Installation of additional mirrors on wall more cost effective than lowering existing mirrors above sinks.	Deficiency	2	NA	BLRB Cost Estimate	Maintenance item.	ADA Consultant	NA
AA-IN-07	Interior	Toilet Paper Dispenser Modifications	Relocate toilet paper dispensers located in restrooms 217 and 218.	Existing toilet paper dispensers are not located within reach as required by ADA.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	ADA Consultant	NA
AA-IN-08	Interior	Walk Off Mat Additions	Provide loose laid walk off mats with edge trim at building entrances.	Walk off mats missing or undersized at exterior doors. New and larger mats will improve dirt control and reduce maintenance and carpet wear.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Kenworthy	NA
AA-ME-07	Mechanical	Soil and Waste Piping Upgrade	Replace plastic soil and waste piping with cast iron piping.	Cast iron piping is more durable and meets district's minimum standard.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency and not cost effective.	R. Thomas	NA
AA-EL-07	Electrical	Electric Range / Oven Addition	Provide electric range / oven with exhaust hood in staff lounge.	Oven / range with exhaust hood is desired for staff use.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency.	B. Kenworthy	NA
AA-MD-01	Modernization	Ceiling Height Modifications	Increase ceiling height at rooms at first floor level.	Ceiling heights at first floor level range between 7'-6" and 8' which is below district's minimum standards of 8' to 9'.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency and not cost effective.	B. Kenworthy	NA

# PROPOSED FACILITY IMPROVEMENTS

# AUBURN MOUNTAINVIEW HIGH SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AM-SI-02	Site	132th SE Street Frontage Improvements	Provide an ornamental fence, street trees, grass and irrigation system along west side of 132th St. SE at street frontage.	Existing vegetation and chainlink fence along west side of 132th SE is unattractive and detracts from the entry to the school.	Enhancement	1	\$391,733	BLRB Cost Estimate	Complete using funds from AM High School project.	B. Kenworthy	C
AM-SI-03	Site	ADA Site Improvements	Provide miscellaneous site improvements to comply with ADA standards that do not significantly affect access to building.	Miscellaneous site areas, which do not significantly affect access to the building, could be improved to comply with current ADA standards.	Enhancement	3	\$157,549	BLRB Cost Estimate	Minor deficiency.	ADA Consultant	C
AM-SI-04	Site	Baseball and Softball Field Fence Additions	Provide chainlink fencing around spectator areas at competition baseball and softball fields.	Fencing desired to allow spectator areas to be secured so admission can be charged.	Enhancement	4	\$18,275	BLRB Cost Estimate	Minor need.	R. Thomas	C
AM-SI-06	Site	Baseball and Softball Field Netting Addition	Provide ball netting at baseball and softball fields.	Ball netting needed to reduce number of balls hit into road and adjacent ball fields.	Deficiency	2	\$65,982	BLRB Cost Estimate	Complete using funds from AM High School project.	B. Odman	C
AM-SI-09	Site	Exterior Bench Additions	Provide 2 ribbon-metal exterior benches at front entry.	Exterior benches needed at front entry for students and visitors to use when waiting to be picked up.	Deficiency	3	\$5,865	BLRB Cost Estimate	Complete using funds from AM High School project.	B. Kenworthy	C
AM-SI-10	Site	Fence Gate Additions	Provide 6' high and 12' wide swing gates at chainlink fencing at east side of field house and at two landscape areas. Provide 4' high and 10' wide rolling gate at chainlink fence at west side of football / soccer field at bleacher area.	More direct access needed at fenced area at field house. Some fenced landscape areas need access gates for maintenance vehicles. Access gate needed at football / soccer field for students to use during emergency drills.	Deficiency	1	\$12,107	BLRB Cost Estimate	Complete using funds from AM High School project.	R. Thomas	C
AM-SI-11 ECM-W2	Site	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station.	Connection to the EMS and the addition of a rain gauge will reduce water consumption and utility costs.	Operating Cost	1	\$6,428	Quantum Cost Estimate	Estimated 5-year payback period. Complete using funds from AM High School project.	Energy Consultant	C
AM-SI-12	Site	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars, directional arrows, speed bumps, and bus stall numbers.	Thermo-plastic markings needed at critical areas that quickly wear away.	Deficiency	3	\$2,285	BLRB Cost Estimate	Complete using funds from AM High School project.	L. Decker B. Kenworthy	C
AM-SI-13	Site	Pipe Rail Gate Additions	Provide 5 pipe rail vehicle gates at entrances to student parking lots and 2 at entrances to staff parking lots.	Existing staff and student parking lots have accommodations for entrances to be secured with a chain. These are difficult to drivers to see and time consuming to set up and take down. Swing gates will work better and be easier to see.	Enhancement	3	\$171,063	BLRB Cost Estimate	Minor need.	B. Kenworthy	C
AM-SI-15	Site	Reader Board Additions	Provide electronic reader boards at street frontage at 124th SE and 132nd SE.	Electronic reader boards desired to easily display school notices and announcements. Power and control wire conduit already in place.	Enhancement	1	\$218,557	Quantum Cost Estimate	Should be obtained by school using school funds.	B. Kenworthy	C
AM-IN-01	Interior	ADA Building Improvements	Provide miscellaneous building improvements to comply with ADA standards that do not significantly affect access within the building.	Miscellaneous building areas, which do not significantly affect access within the building, could be improved to comply with current ADA standards.	Enhancement	3	\$294,056	BLRB Cost Estimate	Minor deficiency.	ADA Consultant	C
AM-IN-04	Interior	Main Stairway Handrail Modifications	Modify handrail and main stairway to make it difficult for students to slide down hand railing.	Existing handrail can be used for slide.	Deficiency	1	\$12,220	BLRB Cost Estimate	Complete using funds from AM High School project.	R. Thomas	C
AM-IN-05	Interior	Theater Seating Arm Rest Modifications	Provide removable or folding arm rests at 4 seats in theater along with accessibility symbols.	Removable or folding arms rests with accessibility symbol required at 1% of the theater seats.	Deficiency	2	\$2,445	BLRB Cost Estimate	Complete using funds from AM High School project.	ADA Consultant	C

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AM-EQ-01	Equipment	ADA Grab Bar Additions	Provide ADA compliant grab bars at restroom 512G and accessible toilet stall in restrooms 513 and 514.	Grab bars needed to assist the disabled and comply with ADA.	Deficiency	3	\$1,553	BLRB Cost Estimate	Complete using funds from AM High School project.	ADA Consultant	C
AM-EQ-02	Equipment	Baseball and Softball Field Bleacher Additions	Provide 3 sections of additional aluminum bleachers at competition baseball, each 21' long x 8 rows deep. Provide one section of additional aluminum bleachers at competition softball field, 21' long x 8 rows deep. Relocate 2 existing sets of bleachers, each 21' long x 5 rows deep, from competition baseball field to competition softball field. Provide covered scorekeeping area at one set of new bleachers at competition baseball and softball fields.	Additional bleachers needed to accommodate more spectators. Covered area needed to keep scorekeepers dry.	Enhancement	3	\$93,150	BLRB Cost Estimate	Minor need.	B. Odman R. Thomas	C
AM-ME-01	Mechanical	Art Room Eye Wash Addition	Provide eye wash in art room 101.	Eye wash needed for student safety.	Health / Safety	2	\$1,530	Quantum Cost Estimate	Minor deficiency.	B. Kenworthy	C
AM-ME-02 ECM-M7	Mechanical	Art Room Hood Switch Addition	Provide manual switch to turn on and shut off jewelry soldering hood in art room 101.	Manual switch will reduce wear and tear on exhaust fan and reduce energy costs.	Operating Cost	2	\$1,285	Quantum Cost Estimate	Estimated 10-year payback period. Complete using funds from AM High School project.	Energy Consultant	C
AM-ME-06 ECM-M9	Mechanical	Boiler Stack Economizer Additions	Provide boiler stack economizers to preheat makeup water or heating hot water.	Economizers will reduce energy costs.	Operating Cost	2	\$128,563	Quantum Cost Estimate	Estimated 10-year payback period. Complete using funds from AM High School project.	Energy Consultant	C
AM-ME-07 ECM-M3	Mechanical	CO2 Control Addition	Expand control system to add CO2 control to the main air handling systems serving the commons, drama room, construction / manufacturing, kitchen, library and theater.	CO2 control will regulate the amount of outside air being delivered to the occupied spaces based on CO2 levels and reduce energy usage.	Operating Cost	1	\$25,713	Quantum Cost Estimate	Estimated 4-year payback period. Complete using funds from AM High School project.	Energy Consultant	C
AM-ME-08 ECM-M2	Mechanical	Controls Sequence Modifications	Modify mechanical controls to provide a reset schedule for temperature control the primary air to the VAV boxes and reset for minimum outside air for the primary air system. Modify control sequences for the domestic water booster pump, chillers, and the boilers to improve efficiency and reduce wear and tear on equipment.	Control modifications will reduce energy costs, reduce wear and tear on equipment, and reduce boiler condensation.	Operating Cost	2	\$30,855	Quantum Cost Estimate	Estimated 6-year payback period. Complete using funds from AM High School project.	Energy Consultant R. Thomas	C
AM-ME-09	Mechanical	Domestic Water Booster Pump Upgrade	Add expansion tank and controls at domestic water booster pump.	Expansion tank needed to allow booster pump to run on an intermittent basis as needed to fill expansion tank. Existing system, without expansion tank, causes booster pump to run continuously which damages pump.	Deficiency	1	\$48,596	Quantum Cost Estimate	Complete using funds from AM High School project.	R. Thomas	C
AM-ME-10 ECM-M10	Mechanical	Domestic Water Booster Pump VSD Addition	Provide variable speed drives at existing 7.5 HP and 15 HP domestic water booster pumps.	Variable speed drives will reduce energy costs.	Operating Cost	2	\$30,855	Quantum Cost Estimate	Estimated 7-year payback period. Complete using funds from AM High School project.	Energy Consultant	C

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AM-ME-11	Mechanical	Fire Sprinkler System Bracing	Provide additional seismic bracing to existing fire sprinkler system in compliance with FM Global standards.	Additional bracing will reduce risk of broken fire sprinkler lines during an earthquake.	Enhancement	3	\$205,700	Quantum Cost Estimate	Minor deficiency.	M. Newman	C
AM-ME-12 ECM-M8	Mechanical	Heating Water Boiler Modifications	Retrofit heating water boilers to improve turn-down or add a small pony boiler to handle low load conditions.	Modifications will reduce energy costs.	Operating Cost	2	\$205,700	Quantum Cost Estimate	Estimated 10-year payback period. Complete using funds from AM High School project.	Energy Consultant	C
AM-ME-13 ECM-M1	Mechanical	HVAC Control System Commissioning	Commission the HVAC control system to verify proper operation.	Commissioning could improve system operation and reduce energy costs.	Operating Cost	1	\$64,282	Quantum Cost Estimate	Estimated 2-year payback period. Complete using funds from AM High School project.	Energy Consultant R. Thomas	C
AM-ME-14	Mechanical	Kiln Room Ventilation Modification	Modify ventilation system in kiln room 101A to provide additional ventilation and to allow kiln to operate whenever needed.	Existing ventilation system is not adequate to keep kiln room from overheating and has a control system that does not allow the kiln to operate under certain conditions.	Deficiency	1	\$32,140	Quantum Cost Estimate	Complete using funds from AM High School project.	B. Odman R. Thomas	C
AM-ME-17	Mechanical	Natural Gas System Metering	Provide electronic meter for natural gas system connected to energy management system.	Electronic meter will allow remote monitoring of gas service and improve potential for reducing natural gas use.	Operating Cost	2	\$44,741	Quantum Cost Estimate	Complete using funds from AM High School project.	R. Thomas	C
AM-ME-18 ECM-M4	Mechanical	Occupancy Sensor Temperature Control Additions	Provide occupancy sensors connected to the Energy Management System in band and choral rooms, gyms, main building and field house locker rooms. Connect domestic water pump in fieldhouse to occupancy sensor and connect lights in gyms to occupancy sensors.	Occupancy sensors will allow heating system, domestic water heater in field house, and gym lights to be set back when the spaces are unoccupied which will reduce energy costs.	Operating Cost	1	\$38,570	Quantum Cost Estimate	Estimated 4-year payback period. Complete using funds from AM High School project.	Energy Consultant	C
AM-ME-19 ECM-M5	Mechanical	Occupancy Sensor Temperature Control Modifications	Connect existing occupancy sensors in classrooms to the Energy Management System.	Connection of existing sensors will allow heating system and air flow to be set back when the spaces are unoccupied which will reduce energy costs.	Operating Cost	2	\$64,282	Quantum Cost Estimate	Estimated 8-year payback period. Complete using funds from AM High School project.	Energy Consultant	C
AM-ME-20 ECM-W1	Mechanical	Plumbing Fixture Retrofit Review	Review water saving opportunities including retrofit or replacement of sinks, urinals and water closets.	A reduction in water use will reduce utility costs.	Operating Cost	1	\$12,857	Quantum Cost Estimate	Estimated 2-year payback period. Complete using funds from AM High School project.	Energy Consultant	C
AM-ME-21 ECM-M6	Mechanical	Science Room AHU Modifications	Install variable speed drives, revise controls, or install outside air booster fans at science area air handling units.	Modifications needed to eliminate negative air problems and will reduce energy costs.	Operating Cost & Deficiency	2	\$21,855	Quantum Cost Estimate	Estimated 8-year payback period. Complete using funds from AM High School project.	Energy Consultant R. Thomas	C
AM-ME-22	Mechanical	Student Store HVAC Improvements	Provide additional ventilation or independent mechanical cooling system in student store storage room 123.	Additional ventilation or mechanical cooling needed to eliminate overheating caused by freezer and refrigeration equipment present in this room.	Deficiency	2	\$40,883	Quantum Cost Estimate	Complete using funds from AM High School project.	B. Odman	C
AM-ME-24	Mechanical	Water Quality Improvements	Replace plumbing at sinks in kitchen (4), staff workroom and two drinking fountains.	Water quality tests at 5 sinks and two drinking fountains exceeded EPA water quality standards for lead or copper.	Health / Safety	2	\$15,171	Quantum Cost Estimate	Not needed. Further testing revealed water quality standards being met.	B. Kenworthy	C

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AM-ME-25	Mechanical	Sawdust Collection System Expansion	Expand sawdust collection system to dust producing equipment that has been added in Construction / Manufacturing classroom.	Sawdust collection is needed at dust producing equipment that has been added in the Construction / Manufacturing classroom.	Health / Safety & Deficiency	1	\$20,313	Quantum Cost Estimate	Complete using funds from AM High School project.	R. Thomas	C
AM-EL-01	Electrical	Audio Lab Data Outlet Additions	Provide two data outlets in audio lab 106A.	Data outlets desired for student computer use. Existing electrical outlets in room will accommodate new computers.	Deficiency	2	\$3,086	Quantum Cost Estimate	Minor deficiency.	B. Odman	C
AM-EL-02	Electrical	Ceiling Mounted LCD Projector Addition	Provide ceiling mounted LCD projector and associated AV and power outlets in each classroom with connection to teacher's work station.	Ceiling mounted projectors desired for ease of use, to reduce theft, and to protect equipment and cables from damage.	Enhancement	1	\$1,487,468	Quantum Cost Estimate	Not cost effective.	R. Luke R. Thomas M. Newman	C
AM-EL-03 ECM-L1	Electrical	Corridor Light Fixture Retrofit	Retrofit the T-8 fixtures in the corridors to reduce the total number of fixture lamps or relamp with lower wattage T-8 lamps.	Fixture modifications will reduce energy costs.	Operating Cost	1	\$64,282	Quantum Cost Estimate	Estimated 5-year payback period. Complete using funds from AM High School project.	Energy Consultant	C
AM-EL-05	Electrical	Electrical Service Metering	Provide electronic meter for electrical service connected to energy management system.	Electronic meter will allow remote monitoring of electrical service and improve potential for reducing electrical use.	Operating Cost	2	\$49,883	Quantum Cost Estimate	Complete using funds from AM High School project.	R. Thomas	C
AM-EL-06	Electrical	Emergency Power Expansion	Provide emergency power to the domestic water pump.	Emergency power needed for domestic water pump to allow the water system and toilets to be used during power outage.	Deficiency	1	\$24,608	Quantum Cost Estimate	Complete using funds from AM High School project.	R. Thomas	C
AM-EL-07 ECM-L4	Electrical	Exterior Lighting Control Modifications	Modify the zoning for control of the exterior parking lot lights to reduce operating hours.	Existing controls allow operation of the parking lot lights until 11 PM - midnight. This can be modified to reduce energy costs.	Operating Cost	2	\$12,857	Quantum Cost Estimate	Estimated 7-year payback period. Complete using funds from AM High School project.	Energy Consultant	C
AM-EL-08 ECM-L3	Electrical	Exterior Lighting Upgrade	Replace HID fixtures on the exterior of the building with compact fluorescent. Analyze parking lot lights for benefits of pulse start metal halide or inductive lighting.	HID and potential parking lot light fixture replacement will reduce energy costs.	Operating Cost	2	\$25,713	Quantum Cost Estimate	Estimated 10-year payback period. Complete using funds from AM High School project.	B. Kenworthy M. Newman B. Talbert	C
AM-EL-10	Electrical	Greenhouse Telephone Addition	Provide telephone in greenhouse.	Telephone needed for teacher use and emergencies.	Health / Safety & Deficiency	1	\$4,886	Quantum Cost Estimate	Not cost effective and can be accomplished using portable telephone purchased by school.	B. Odman R. Swaim	C
AM-EL-11 ECM-L2	Electrical	Gym HID Lighting Replacement	Replace HID light fixtures in the main and auxiliary gyms with fixtures using T-8 or T-5 technology.	Fixture replacement will reduce energy costs.	Operating Cost	2	\$25,713	Quantum Cost Estimate	Estimated 7-year payback period. Complete using funds from AM High School project.	Energy Consultant	C
AM-EL-12	Electrical	Intrusion Alarm Audible Signal Upgrade - Intrusion System	Upgrade intrusion alarm system to provide audible alarm.	Use of audible alarm could reduce intrusions and false alarms.	Enhancement	3	\$97,682	Quantum Cost Estimate	Not cost effective. See AM-EL-19 for alternate method.	M. Newman	C
AM-EL-13	Electrical	Kitchen Electrical Capacity Addition	Provide additional electrical capacity in kitchen to accommodate future kitchen equipment.	Existing kitchen equipment fully utilizes all electrical circuits in kitchen. This inhibits the addition of kitchen equipment that will be needed in the future.	Enhancement	4	\$47,826	Quantum Cost Estimate	Minor need.	B. Odman	C

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AM-EL-14	Electrical	Main Gym Equipment Control Improvements	Extend the sound system, scoreboard and shot clock controls in main gym to the front of the first row of bleachers, at the east and west sides of the main gym, so they can be used without opening the bleachers.	Existing controls for the sound system, scoreboard and shot clocks are not accessible unless the bleachers are opened. This creates a problem when these systems are needed but gym activity requires an open floor area without the bleachers extended.	Enhancement	2	\$9,513	Quantum Cost Estimate	Complete using funds from AM High School project.	R. Thomas	C
AM-EL-15	Electrical	Technology Classroom Electrical Outlet Additions	Provide additional electrical outlets suspended from ceiling in technology classroom 619.	Additional electrical outlets needed for student use.	Enhancement	2	\$14,399	Quantum Cost Estimate	Minor need.	B. Odman	C
AM-EL-16	Electrical	Theater Closed Circuit TV System Addition	Provide closed circuit television system with sound feed that shows images of the stage on monitors in the control booth, green room, and lobby.	Closed circuit television system with sound feed desired to allow staff and performers to monitor performances from control booth, green room, and to allow audience to monitor performance from lobby.	Enhancement	3	\$40,120	Quantum Cost Estimate	Not cost effective and minor need.	P. Smith	C
AM-EL-17 ECM-L5	Electrical	Vending Machine Sensor Addition	Provide sensors at vending machines to shut off vending machine illumination when the spaces are unoccupied.	Sensors will reduce energy costs.	Operating Cost	1	\$1,285	Quantum Cost Estimate	Estimated 4-year payback period. Complete using funds from AM High School project.	Energy Consultant	C
AM-EL-18	Electrical	Video Lab Data Outlet Additions	Provide 6 additional data outlets in video lab 106F.	Existing room has 2 data outlets. Additional data outlets desired for student computer use. Existing electrical outlets in room will accommodate new computers.	Deficiency	2	\$9,257	Quantum Cost Estimate	Complete using funds from AM High School project.	B. Odman	C
AM-EL-19	Electrical	Intrusion Alarm Audible Signal Upgrade - Intercom System	Connect intrusion alarm system to intercom system to provide audible alarm.	Use of audible alarm could reduce intrusions and false alarms.	Enhancement	2	\$14,142	ASD Cost Estimate		M. Newman	C
AM-MD-02	Modernization	Art Area Work Counter Additions	Provide 24 LF of additional work counter with base cabinets in art room 100 and 10 LF of additional work counters with base and upper cabinets in art room 101.	Additional work counters and storage cabinets desired for student art activities.	Enhancement	3	\$16,740	BLRB Cost Estimate	Minor deficiency.	B. Odman	C
AM-MD-07	Modernization	Graphics Computer Lab Cabinet Modifications	In graphics computer lab 104, replace 10 LF of knee-space counter and upper cabinets with 10 LF of full height storage cabinets with vertical dividers for drawing board storage. Replace 10 LF of knee-space counter with 10 LF of work counter with student storage drawers below.	Storage modifications needed to accommodate the instruction of drawing classes in graphics computer lab 104.	Enhancement	3	\$14,663	BLRB Cost Estimate	Minor need.	B. Odman	C
AM-MD-10	Modernization	Horticulture Prep Relite Addition	Provide interior relite window between horticulture prep room 620A and horticulture classroom 620.	Relite window desired to allow visual supervision of horticulture classroom from prep room.	Deficiency	2	\$5,593	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
AM-MD-11	Modernization	Horticulture Storage Shed Addition	Provide wood framed 150 SF storage shed without utilities on concrete slab at land lab area adjacent to greenhouse.	Exterior shed desired for storage of landscape equipment.	Enhancement	3	\$58,650	BLRB Cost Estimate	Minor need and not cost effective.	B. Odman	C
AM-MD-12	Modernization	Itinerant Office Relite Addition	Provide interior relite window between itinerant office 203 and adjacent corridor.	Relite window desired to allow visual connection between office and corridor.	Deficiency	4	\$4,372	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
AM-MD-14	Modernization	Marketing Office Relite Addition	Provide interior relite window between marketing office 118A and marketing classroom 118.	Relite window desired to allow visual supervision of marketing classroom from office.	Deficiency	4	\$8,743	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C

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AM-MD-15	Modernization	Music Area Door Addition	Provide a door with sound seal between band room 605 and orchestra / choral room 618.	Door needed to provide acoustical separation between band and choral rooms.	Deficiency	2	\$7,149	BLRB Cost Estimate	Complete using funds from AM High School project.	B. Odman	C
AM-MD-18	Modernization	Special Education Restroom Addition	Provide restrooms in special education classrooms 218 and 222.	Restrooms desired within classrooms for improved access by and supervision of students.	Enhancement	3	\$96,924	BLRB Cost Estimate	Minor need.	B. Odman	C
AM-MD-20	Modernization	Visual Communications Interior Window Addition	Provide additional interior relite window at west wall of visual communications 106.	Additional interior window desired at west wall to allow visual communications instructor to visually supervise students in adjacent graphics computer lab.	Enhancement	4	\$4,372	BLRB Cost Estimate	Minor deficiency.	R. Swaim	C
AM-MD-21	Modernization	Outdoor Concession / Restroom Building Addition	Provide a concession stand building and public restrooms near tennis courts, softball and baseball fields.	See Improvement Justifications for AM-MD-04 and 16.	Enhancement	1	\$336,765	BLRB Cost Estimate	Not cost effective.	R. Thomas M. Newman B. Odman	C
AM-SI-01	Site	124th SE Signal Light Addition	Provide signal light and crosswalk across 124th St. SE at entry drive.	Signal light and crosswalk desired to make is safer for cars to exit school site and safer for pedestrians crossing 124th SE to bus stop on west side of road.	Enhancement	NA	NA	No Cost Estimate	Pedestrian signal being added by developer of property at west side of 124th SE.	B. Odman	NA
AM-SI-05	Site	Baseball and Softball Field Lighting Access	Provide access road to baseball and softball field light poles for maintenance access.	Some baseball and softball field light poles are not directly accessible by maintenance vehicles and are difficult to reach by ladder because of steep slope adjacent to base of light poles.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency and not cost effective because of existing site constraints.	R. Thomas	NA
AM-SI-07	Site	Baseball Field Gate Additions	Provide gates in existing chainlink fence for access from competition baseball field to future batting cage and from both baseball fields to adjacent elementary school property.	Gate will be needed when batting cage in added at west side of competition baseball field. Gate to elementary school desired for maintenance access and to retrieve baseballs.	Enhancement	NA	NA	No Cost Estimate	Maintenance item.	B. Odman R. Thomas	NA
AM-SI-08	Site	Batting Cage Addition	Provide batting cage at competition baseball field.	Batting cage desired at competition baseball field, in addition to existing batting cage at practice baseball field, for more convenient use and improved supervision.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency that is being address by school booster club.	R. Thomas	NA
AM-SI-14	Site	Pipe Rail Gate Improvements	Provide reflective tape on pipe rail vehicle gates.	Existing pipe rail gates do not have reflective tape and can be difficult to see at night.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Kenworthy	NA
AM-SI-16	Site	Theater Directional Signage Addition	Provide exterior signage to direct theater users to theater parking lot and entry door.	Signage needed at building exterior to clearly identify parking lot and entry doors for theater.	Deficiency	NA	NA	No Cost Estimate	Work completed.	P. Smith	NA
AM-SI-16	Site	Van Parking Stall Sign Relocation	Relocate van accessible parking stall sign at west side of west courtyard from east to west side of fence.	Existing van accessible parking stall sign is partially obscured because it is located behind ornamental fence.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	ADA Consultant	NA
AM-IN-02	Interior	Kitchen Cabinet Improvements	Replace student lockers in kitchen with storage cabinets.	Existing student lockers are not used and additional cabinet storage desired in kitchen.	Enhancement	NA	NA	No Cost Estimate	Work completed.	B. Odman	NA
AM-IN-03	Interior	Kitchen Scullery Counter Improvement	Provide gasket or counter modification at scullery serving door to contain water that collects on counter next to garbage disposer.	Existing counter allows water to drain off of counter onto door and into commons.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Odman	NA
AM-EQ-03	Equipment	Kitchen Equipment Additions	Provide free-standing reach-in cooler and freezer units in kitchen.	Additional storage needed for refrigerated and frozen food products.	Deficiency	NA	NA	No Cost Estimate	Completed by Maintenance Department.	B. Odman	NA



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AM-EQ-04	Equipment	Science Prep Room Refrigerator Additions	Provide residential grade refrigerator / freezer in science prep rooms 406 and 422.	Refrigerator / freezer needed for refrigeration of chemicals and samples. Existing electrical outlets within these rooms will accommodate refrigerator / freezer.	Enhancement	3	NA	ASD Cost Estimate	Minor deficiency.	B. Odman	NA
AM-EQ-05	Equipment	Science Storage Bin Additions	Provide polyvinyl storage bins for science classrooms.	Chemical resistant storage bins needed for storing and transporting science chemicals.	Enhancement	NA	NA	No Cost Estimate	Work completed.	B. Odman	NA
AM-EQ-06	Equipment	Theater Light Board Upgrade	Replace light board at theater.	Existing light board in theater is works adequately and is in good condition but should be replaced within ten years with a new and higher quality sound board.	Enhancement	NA	NA	No Cost Estimate	Work completed.	P. Smith	NA
AM-EQ-07	Equipment	Theater Office Equipment Upgrade	Provide new LCD projector, lap top computer, desktop computer, laser printer, fax / copy machine.	Existing office equipment and portable LCD projector are adequate but will exceed life expectancy within 5 years.	Enhancement	NA	NA	No Cost Estimate	Obtained with Technology Levy funds.	P. Smith	NA
AM-EQ-08	Equipment	Theater Sound Board Upgrade	Replace sound board at theater.	Existing sound board in theater is works adequately and is in good condition but should be replaced within ten years with a new and higher quality sound board.	Enhancement	2	NA	No Cost Estimate	Replacement will not be needed for several years per Pam Smith.	P. Smith	NA
AM-ME-03	Mechanical	Boiler Control Modifications	Modify the boiler control sequence of operation.	Modifications to the boiler control sequence of operations needed to eliminate condensation in the boilers.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	R. Thomas	NA
AM-ME-04	Mechanical	Boiler Insulation Replacement	Replace boiler insulation damaged by excessive boiler condensation.	Existing boiler insulation damaged by condensation that resulted from boiler sequence problems.	Deficiency	NA	NA	No Cost Estimate	Completed by Maintenance Department.	R. Thomas	NA
AM-ME-05	Mechanical	Boiler No. 2 Replacement	Replace boiler #2.	Boiler #2 has welds at the boiler tubes that leak and are expensive to repair.	Deficiency	NA	NA	No Cost Estimate	Leaking welds repaired. Not cost effective to replace boiler.	R. Thomas	NA
AM-ME-15	Mechanical	Kitchen Hot Water Improvement	Improve hot water system in kitchen to provide hot water on a consistent basis.	Kitchen area has intermittent problems with hot water supply.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Odman	NA
AM-ME-16	Mechanical	Kitchen Restroom Ventilation Improvement	Improve operation of existing ventilation system in kitchen restroom 512G.	Existing ventilation system does not adequately remove odors during afternoon hours.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Odman	NA
AM-ME-23	Mechanical	Theater Lobby Heat Control	Provide capability to operate HVAC system in commons during non-school hours when theater is used.	Existing commons serves at lobby for theater and is not heated during non-school hours which creates a cold lobby space for the theater.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	P. Smith	NA
AM-EL-04	Electrical	Data Communications Equipment Upgrade	Upgrade data communications equipment filter, router, switch, traffic shaping and connectivity speed.	Existing filter, router, switch, traffic shaping and connectivity speed do not meet district's minimum standards.	Deficiency	1	NA	ASD Cost Estimate	Minor deficiency.	N. Vien	NA
AM-EL-09	Electrical	Fire Alarm Replacement	Replace Edwards fire alarm system with a Simplex or Notifier system.	Existing Edwards fire alarm system functions properly but is more difficult and expensive to maintain than Simplex and Notifier systems.	Enhancement	NA	NA	No Cost Estimate	Not cost effective.	R. Thomas	NA
AM-MD-01	Modernization	Art Area Spray Booth Additions	Provide paint spray booths in art rooms 100 and 101.	Paint booths desired for spray painting activities.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency and not a school district standard.	B. Odman	NA
AM-MD-03	Modernization	Commons Storage Room Addition	Provide storage room for equipment used in commons.	Storage room desired for equipment used in commons that needs secure storage.	Deficiency	NA	NA	No Cost Estimate	Minor deficiency.	B. Kenworthy	NA

# PROPOSED FACILITY IMPROVEMENTS

# AUBURN MOUNTAINVIEW HIGH SCHOOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AM-MD-04	Modernization	Concession Stand Building Addition	Provide a concession stand building near tennis courts, softball and baseball fields.	A concession stand where food can be prepared and sold is desired near the tennis courts, baseball and softball fields to raise funds and provide concessions to spectators.	Enhancement	1	NA	BLRB Cost Estimate	Costs included in AM-MD-21.	R. Thomas	NA
AM-MD-05	Modernization	Concession Stand Improvements	Provide plumbing, electrical and other code required improvements to wood structure concession stand.	School purchased a wood shed structure to use as a concession stand in the parking lot by the baseball and softball field. School desires to have this shed improved with electrical, plumbing and other features so that it can be used as a concession stand that sells food prepared on the premises.	Enhancement	NA	NA	No Cost Estimate	Not cost effective to enhance an existing wood shed to meet all health and building department requirements for a concession stand where food is prepared.	R. Thomas	NA
AM-MD-06	Modernization	Elevator Cab Size Expansion	Provide larger cab size at elevator.	Larger cab desired for improved access for maintenance carts and equipment.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency and not cost effective.	B. Kenworthy	NA
AM-MD-08	Modernization	Greenhouse Irrigation / Fertilization Improvements	Modify build-in irrigation and fertilization system in greenhouse.	Built-in irrigation and fertilization system in greenhouse was installed by school and does not meet current building codes.	Health / Safety	NA	NA	No Cost Estimate	Maintenance item.	R. Thomas	NA
AM-MD-09	Modernization	Greenhouse Planting Bed Modifications	Modify heating system installed in planting beds in greenhouse.	Original planting bed heating system was modified by the school and no longer meets electrical and plumbing codes.	Health / Safety	NA	NA	No Cost Estimate	Maintenance item.	R. Thomas	NA
AM-MD-13	Modernization	Kitchen Storage Area Addition	Provide additional storage in kitchen.	Additional storage desired for dry goods.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency and not cost effective to add space to building.	B. Odman	NA
AM-MD-16	Modernization	Public Restroom Building Addition	Provide a public restroom building near tennis courts, softball and baseball fields.	Public restroom facility desired to provide toilet facilities for athletes and spectators at tennis courts and baseball and softball fields.	Enhancement	1	NA	BLRB Cost Estimate	Costs included in AM-MD-21.	B. Odman M. Newman	NA
AM-MD-17	Modernization	Special Education Community Lab Addition	Provide community lab office space near special education classrooms.	Community lab office space needed for a staff member to meet with disabled students to coordinate community transition activities. These activities were accommodated in special education office 220A but this office is now being used for instructional space.	Enhancement	NA	NA	No Cost Estimate	Minor deficiency. It is likely that existing building can accommodate this program in office 203 that is no longer being used for work-based training.	J. Trauffer	NA
AM-MD-19	Modernization	Teaching Station Skylight Additions	Provide skylight at band, choral and orchestra and technology classrooms.	Existing rooms do not have exterior windows and exposure to daylight. Window addition not feasible because these rooms are interior spaces. Adding skylights to these rooms difficult because of high roof and mechanical attics above these spaces.	Deficiency	NA	NA	No Cost Estimate	Minor defect and not cost effective.	B. Kenworthy	NA

# PROPOSED FACILITY IMPROVEMENTS

# AUBURN POOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AP-SI-03	Site	Bicycle Rack Addition	Provide a bike rack for 12 bicycles at front entry	Bike rack needed to provide a place for students, athletes and spectators to secure bikes. Bikes currently are padlocked to trees.	Deficiency	3	\$5,865	BLRB Cost Estimate		R. Thomas	A
AP-SI-05	Site	Exterior Bench Additions	Provide two 6' long ribbon metal exterior benches at front entry.	Exterior benches needed at front entry for students, athletes and spectators to use when waiting to be picked up.	Deficiency	1	\$5,865	BLRB Cost Estimate		R. Thomas B. Kenworthy	A
AP-SI-07	Site	Exterior Waste Receptacle Upgrade	Provide ribbon metal exterior waste receptacle with push-door dome top at front entry.	Attractive and durable ribbon metal waste receptacles desired at building entrance to improve appearance.	Enhancement	2	\$2,200	BLRB Cost Estimate		R. Thomas B. Kenworthy	A
AP-SI-09	Site	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars and directional arrows.	Thermo-plastics markings are needed in critical locations where painted lines quickly wear away.	Enhancement	2	\$3,290	BLRB Cost Estimate		R. Thomas	A
AP-SI-11	Site	Sidewalk Additions	Provide sidewalk and curb between north and east entries and at south side of property along 3rd St. NE.	There is no sidewalk for pedestrian use between north and east entries and at 3rd St. NE. Because of this, pedestrians must walk through the parking lot and on the gravel road shoulder.	Deficiency	1	\$20,902	BLRB Cost Estimate		B. Kenworthy	A
AP-SI-12	Site	Underground Storage Tank Removal	Remove underground fuel oil storage tank that serves heating system.	Existing underground tank is not used and presents environmental risk.	Deficiency	1	\$27,492	BLRB Cost Estimate		R. Thomas	A
AP-SI-14 ECM-W3	Site	Water Meter Additions	Provide a makeup water meter and a wastewater meter to deduct water lost due to evaporation from sewer bill.	Installation of make up water and waste water meter will allow non-sewer related water usage to be deducted from sewer charges and reduce monthly utility costs.	Operating Cost	2	\$12,857	Quantum Cost Estimate	Estimated 6-year payback period.	Energy Consultant	A
AP-ST-02	Structural	Roof Cross Tie Additions	Provide cross ties at subdiaphragms anchoring concrete walls the run parallel to the roof decking.	Cross ties will provide positive anchorage between concrete walls and subdiaphragms.	Deficiency	1	\$22,911	PCS Cost Estimate		Structural Engineer	A
AP-ST-03	Structural	Wall Crack Repair	Repair cracks in concrete wall buttresses.	Crack repair is needed to prevent water infiltration and deterioration of concrete and reinforcing.	Deficiency	1	\$2,933	PCS Cost Estimate		Structural Engineer	A
AP-ST-04	Structural	Parapet Wall Reinforcement	Provide a continuous horizontal steel strong-back near the top of parapet and anchored to the parapet.	Horizontal reinforcement will improve seismic support.	Deficiency	1	\$8,310	PCS Cost Estimate		Structural Engineer	A
AP-EX-02	Exterior	Clerestory Window Upgrade	Replace existing plastic clerestory window located at north end of building with insulated window.	Existing clerestory window is discolored, unsightly and uninsulated. New window will improve light transmission, improve appearance and reduce energy costs.	Operating Cost & Deficiency	1	\$25,566	BLRB Cost Estimate		R. Thomas	A
AP-EX-03	Exterior	Exterior Door Hardware Upgrade	Replace exterior door lock cylinders with Primus cylinders.	Primus lock cylinders will improve building security.	Enhancement	2	\$2,309	BLRB Cost Estimate		R. Thomas	A
AP-EX-05	Exterior	Exterior Window Upgrade	Replace single-pane exterior windows and hollow metal frames at front entry with aluminum window wall with dual-glazing and new exterior doors.	Existing exterior window wall has single-glazing in hollow metal frames. Existing plastic glazing is scratched and existing hollow metal window and door frames are rusted. Window replacement would require replacement of existing hollow metal window and door frames and hollow metal doors.	Enhancement	1	\$26,090	BLRB Cost Estimate		R. Thomas	A
AP-EX-07	Exterior	Automatic Door Opener Additions	Provide automatic door opener at the front and side entry doors.	Building does not have automatic door opener at main and side entry doors.	Enhancement	2	\$58,650	BLRB Cost Estimate		M. Newman J. Trauffer	A
AP-EQ-01	Equipment	Lifeguard Stand Replacement	Replace two lifeguard stands.	Support posts on lifeguard stands are rusting which can affect stability of guard stands.	Deficiency	1	\$11,797	ASD Cost Estimate		M. Newman R. Swaim	A

# PROPOSED FACILITY IMPROVEMENTS

# AUBURN POOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AP-EQ-02	Equipment	Locker Upgrade	Replace lockers at men's and women's locker rooms and include more half-size lockers.	Existing lockers are rusted and have doors that will not shut. Existing lockers have more box lockers than needed and not enough half-height lockers.	Deficiency	1	\$61,841	BLRB Cost Estimate		R. Swaim R. Thomas B. Kenworthy	A
AP-EQ-03	Equipment	Office Furniture Upgrade	Replace existing desks, chairs and tables in office and workroom.	Existing furniture does not match and is in fair to poor condition.	Deficiency	2	\$4,597	ASD Cost Estimate		B. Kenworthy	A
AP-EQ-04	Equipment	Toilet Accessory Replacement	Replace mirrors and soap dispensers in locker rooms and restrooms.	Existing mirrors and soap dispensers are over 20 years old and in fair to poor condition.	Deficiency	1	\$8,350	ASD Cost Estimate		B. Kenworthy	A
AP-EQ-05	Equipment	Washer and Dryer Upgrade	Provide new high capacity and energy efficient washer dryer.	Existing washer and dryer are old, break down, and are energy inefficient.	Operating Cost	1	\$7,260	ASD Cost Estimate		R. Thomas B. Kenworthy	A
AP-ME-02	Mechanical	Automatic Controls Upgrade	Upgrade the EMS control system to be BacNet compatible, web based and include new software, new field controllers, and a new front end computer.	Control system upgrade will improve occupant comfort and reduce maintenance and energy costs.	Operating Cost	1	\$71,738	Quantum Cost Estimate		R. Thomas	A
AP-ME-03 ECM-W2	Mechanical	Domestic Water Piping and Shower Upgrade	Replace underground domestic water piping with above grade piping and replace shower columns.	Existing domestic water pipes are 37 years old, corroded and leak at sections that are underground. Repair of underground pipes is difficult because the pipes are located below the building. Existing shower columns malfunction and are difficult to repair.	Operating Cost	2	\$64,282	Quantum Cost Estimate	Estimated 8-year payback period.	Energy Consultant	A
AP-ME-04	Mechanical	Domestic Water Tank / Heat Exchanger Upgrade	Provide new domestic hot water storage tank and double-wall heat exchanger.	Existing domestic hot water storage tank is 36 years old with an epoxy liner that is deteriorating and rust on the interior of the tank. Rust from the tank is staining floors and plumbing fixtures. Existing heat exchanger is a single-wall unit and does not meet current codes. A failure in the single-wall heat exchanger could contaminate the domestic water system.	Health / Safety & Deficiency	1	\$150,933	Quantum Cost Estimate		R. Thomas	A
AP-ME-05	Mechanical	Dryer Vent Addition	Provide vent for dryer located in workroom 109.	Existing dryer does not have a vent to the exterior.	Deficiency	1	\$9,000	Quantum Cost Estimate		R. Thomas	A
AP-ME-06	Mechanical	Ductwork Upgrade	Replace underground ductwork with above grade ductwork.	Existing underground is rusting and failing because of exposure to ground water.	Health / Safety & Deficiency	1	\$385,688	Quantum Cost Estimate		R. Thomas	A
AP-ME-07	Mechanical	Exhaust Fan Replacement	Replace roof mounted exhaust fans.	Existing exhaust fans are in poor condition.	Deficiency	1	\$25,199	Quantum Cost Estimate		R. Thomas	A
AP-ME-09 ECM-M1	Mechanical	HVAC Control System Commissioning	Commission the HVAC control system to verify proper operation.	Commissioning will improve system operation and efficiency.	Operating Cost	1	\$38,570	Quantum Cost Estimate	Estimated 2-year payback period.	Energy Consultant R. Thomas	A
AP-ME-10	Mechanical	Louver Replacement	Replace mechanical system louvers and diffusers that are damaged.	Approximately 50% of the existing mechanical system louvers are bent and damaged.	Enhancement	1	\$17,228	Quantum Cost Estimate		R. Thomas	A
AP-ME-11	Mechanical	Natural Gas System Metering	Provide electronic meter for natural gas system connected to energy management system.	Electronic meter will allow remote monitoring of gas service and improve potential for reducing natural gas use.	Operating Cost	1	\$22,884	Quantum Cost Estimate		R. Thomas	A
AP-ME-13 ECM-W1	Mechanical	Plumbing Fixture Replacement - Full	Replace plumbing fixtures throughout the facility.	Existing plumbing fixtures are in fair condition but do not have efficient water usage.	Enhancement	1	\$89,995	Quantum Cost Estimate		R. Thomas	A
AP-ME-16	Mechanical	Pool Water Pump Replacement	Replace pool water circulation pump.	Existing pool water pump is in poor condition and no longer cost effective to repair.	Deficiency	1	\$16,199	Quantum Cost Estimate		R. Thomas	A

# PROPOSED FACILITY IMPROVEMENTS

# AUBURN POOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AP-ME-19 ECM-M2	Mechanical	Variable Speed Drive Addition -Main Fan	Provide occupancy sensors for pool deck area and a variable speed drive on the main pool air handling unit to reduce airflow during periods of no occupancy as determined by new occupancy sensors.	Variable speed drive and occupancy sensors will reduce energy costs.	Operating Cost	1	\$38,570	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant	A
AP-ME-20 ECM-M3	Mechanical	Variable Speed Drive Addition - Pool Pump	Install a variable speed drive on the pool circulation pump to reduce flow at night.	Variable speed drive will reduce energy costs.	Operating Cost	1	\$20,570	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant	A
AP-ME-21	Mechanical	Boiler Upgrade	Replace existing boiler with higher efficiency boiler.	Existing boiler is 37 years old and was damaged during boiler relocation work in 2006. Damaged area was temporarily repaired but cannot be permanently corrected. A more efficient boiler will reduce energy costs.	Enhancement	1	\$189,501	Quantum Cost Estimate		R. Thomas	A
AP-EL-02 ECM-L2	Electrical	Exit Sign Replacement	Replace incandescent and compact fluorescent exit signs with new LED exit signs.	Exit sign replacement will reduce energy costs.	Operating Cost	1	\$1,285	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant	A
AP-EL-04	Electrical	Fire Alarm System Upgrade	Expand and improve fire alarm system.	Existing fire alarm system consists of manual pull stations, does not have fire detection devices, and does not meet district's standard.	Deficiency	1	\$43,172	Quantum Cost Estimate		R. Thomas	A
AP-EL-05 ECM-L3	Electrical	HID Lighting Replacement	Replace HID fixtures in the pool area with new fixtures using T-8 or T-5 technology.	Installation of T-8 or T-5 light fixtures will reduce energy costs.	Operating Cost	1	\$38,570	Quantum Cost Estimate	Estimated 5-year payback period.	Energy Consultant	A
AP-EL-07 ECM-L1	Electrical	Interior Lighting Upgrade	Retrofit or replace T-12 fixtures, magnetic ballast and incandescent fixtures with T-8, electronic ballast and compact fluorescent technology.	Fixture replacement or retrofit will reduce energy costs.	Operating Cost	2	\$19,285	Quantum Cost Estimate	Estimated 6-year payback period.	Energy Consultant R. Thomas	A
AP-EL-08	Electrical	Intrusion Alarm System Upgrade	Expand intrusion alarm system to cover pool and front entry area and provide audible alarm.	Expansion of system needed to provide better security. Use of audible alarm could reduce intrusions and false alarms.	Enhancement	1	\$32,140	Quantum Cost Estimate		R. Thomas M. Newman	A
AP-EL-11	Electrical	Electrical Panel Upgrade	Replace and modify secondary electrical panels to provide new panels and separate light switch control.	Existing secondary electrical panels are worn and are use for primary light switching. Upgraded panels with separate light switches are needed.	Deficiency	1	\$16,456	Quantum Cost Estimate		R. Thomas	A
AP-SI-02	Site	Asphalt Settlement Repair	Repair area of ponding water and asphalt settlement at parking lot.	Existing parking lot has a low area where the asphalt has settled and now ponds water. This interferes with use of two parking stalls.	Deficiency	2	\$28,098	BLRB Cost Estimate		R. Thomas	B
AP-SI-08	Site	Landscape Plant Additions	Provide trees and shrubs along east and west sides of building.	Plants needed in existing planting beds at east and west sides of building to improve appearance and absorb water that drains into these areas from the roof.	Deficiency	3	\$17,133	BLRB Cost Estimate		R. Thomas B. Kenworthy	B
AP-IN-04	Interior	Pool Shell Upgrade	Resurface pool shell.	Existing plaster pool shell was resurfaced about 6 years ago and is in fair condition. Resurfacing will be required within 5 years. Resurfacing work must be done under controlled conditions because underlying plaster shell contains asbestos.	Enhancement	1	\$289,830	BLRB Cost Estimate		B. Kenworthy	B
AP-ME-14	Mechanical	Pool Chemical Injection System Replacement	Replace pool chemical injection system.	Existing chemical injection system at pool is at end of life expectancy.	Enhancement	1	\$42,940	Quantum Cost Estimate		R. Thomas	B
AP-ME-15	Mechanical	Pool Filtration System Replacement	Replace pool water filtration system.	Existing pool water filtration system is past its life expectancy.	Enhancement	1	\$56,311	Quantum Cost Estimate		R. Thomas	B

# PROPOSED FACILITY IMPROVEMENTS

# AUBURN POOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AP-ME-18	Mechanical	Pool Water Valve Replacement	Replace valves at pool water piping system.	Existing valves at pool water system are in poor condition.	Deficiency	1	\$25,199	Quantum Cost Estimate		R. Thomas	B
AP-SI-01	Site	ADA Site Improvements	Provide miscellaneous site improvements to comply non-mandatory ADA standards.	School was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous site areas, which do not significantly affect access to the building, could be improved to comply with current ADA standards. Site improvements needed to provide ADA required program access are identified separately.	Enhancement	1	\$13,172	BLRB Cost Estimate	Minor need and non-mandatory improvements.	ADA Consultant	C
AP-SI-04	Site	Concrete Pad Replacement	Replace 3' x 6' concrete pad in front of exterior door to chemical room.	Existing concrete pad is cracked and broken.	Deficiency	1	\$1,234	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
AP-SI-06	Site	Exterior Signage Addition	Provide sign mounted on existing fence designating van accessible parking stall.	Signage needed to clearly identify van accessible parking stall and to comply with ADA.	Deficiency	1	\$367	BLRB Cost Estimate	Maintenance item.	ADA Consultant	C
AP-SI-15	Site	Irrigation System Addition	Provide irrigation system for front lawn area and at landscape areas at east and west sides of building.	Lawn and landscape areas do not have an irrigation system except for a partial system that is extended from the adjacent Annex facility. A dedicated irrigation system needed for healthy landscape areas and lawn.	Deficiency	3	\$4,797	BLRB Cost Estimate	Minor deficiency.	R. Thomas	C
AP-ST-01	Structural	Roof Sheathing Addition	Provide plywood sheathing over the existing wood roof decking.	Plywood sheathing will improve the overall performance of the structure.	Deficiency	1	\$598,720	PCS Cost Estimate		Structural Engineer	C
AP-EX-06	Exterior	Roof Fall Arrest Anchors Addition	Provide fall arrest system at roof at pitched sections of roof.	Pitched roofs do not have fall arrest safety system.	Health / Safety	1	\$42,094	BLRB Cost Estimate	Not cost effective.	R. Thomas	C
AP-IN-01	Interior	ADA Building Improvements	Provide miscellaneous building improvements to comply non-mandatory ADA standards.	School was built before implementation of ADA regulations and does not require full compliance to current standards. Miscellaneous building areas, which do not significantly affect access within the building, could be improved to comply with current ADA standards. Improvements needed to provide ADA required program access within the building are identified separately.	Enhancement	1	\$153,468	BLRB Cost Estimate	Minor need and non-mandatory improvements.	ADA Consultant	C
AP-IN-02	Interior	Door and Frame Improvements	Repair or replace rusted hollow metal doors and frames.	Some of the existing hollow metal doors and frames are rusted.	Deficiency	1	\$53,152	BLRB Cost Estimate	Maintenance item.	B. Kenworthy	C
AP-ME-01 ECM-M4	Mechanical	Air Handling System Upgrade	Replace air handling system with a new system using air to air heat recovery with hot water heat or a heat pump located on roof or ground, and replace underground ductwork with above-ground ductwork.	Replacement of air handling equipment will reduce energy costs. Replacement of ductwork will eliminate existing underground ductwork that is failing.	Operating Cost & Deficiency	3	\$996,360	Quantum Cost Estimate	Estimated payback period exceeds 15 years.	Energy Consultant	C
AP-ME-08	Mechanical	Fire Sprinkler System Addition	Provide fire sprinkler system.	Building is not protected with a fire sprinkler system.	Deficiency	1	\$141,136	Quantum Cost Estimate	Not cost effective.	R. Thomas	C
AP-ME-12	Mechanical	Plumbing Fixture Replacement - Partial	Replace water closets and provide aerators for sinks.	A reduction in water use will reduce utility costs.	Operating Cost	1	NA	Quantum Cost Estimate	Improvements included in AP-ME-13.	Energy Consultant	C
AP-ME-17 ECM-W4	Mechanical	Pool Water Treatment System Upgrade	Replace the chlorine system for treatment of the pool water with a salt-based system.	A salt-based system will reduce chemical costs but may increase maintenance costs.	Operating Cost	3	\$64,282	Quantum Cost Estimate	Estimated 12-year payback period.	Energy Consultant	C

# PROPOSED FACILITY IMPROVEMENTS

# AUBURN POOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AP-EL-01	Electrical	Electrical Service Metering	Provide electronic meter for electrical service connected to energy management system.	Electronic meter will allow remote monitoring of electrical service and improve potential for reducing electrical use.	Operating Cost	1	\$24,941	Quantum Cost Estimate	Minor need. Not cost effective.	R. Thomas	C
AP-EL-03	Electrical	Exterior Lighting Level Improvements	Provide additional illumination at main entries at east and north sides of building.	Existing lighting at building entries lacks adequate illumination levels and is below district's minimum standards.	Deficiency	1	\$21,393	Quantum Cost Estimate	Minor deficiency.	B. Kenworthy	C
AP-EL-06	Electrical	Interior Lighting Level Improvements	Provide additional illumination at emergency lighting, locker rooms, pool deck and restrooms.	Existing lighting at interior areas lacks adequate illumination levels and does not meet the district's minimum standards.	Health / Safety & Deficiency	1	\$44,997	Quantum Cost Estimate	Improvements included in AP-EL-07.	B. Kenworthy	C
AP-EL-09	Electrical	Sound System Addition	Provide built-in sound system.	A built-in sound system is needed for public address announcement and to use during swim meets and other events. A portable system with poor sound quality is currently used.	Deficiency	2	\$74,309	Quantum Cost Estimate	Minor deficiency. More appropriately addressed with a portable sound system.	R. Swaim	C
AP-EL-10	Electrical	Surveillance Camera Addition	Provide surveillance camera system to monitor east parking lot with monitoring done from main office of Auburn High School.	Surveillance cameras will allow administrators at Auburn High School to monitor activities around pool and could reduce vandalism and theft.	Enhancement	3	\$54,511	Quantum Cost Estimate	Minor need.	M. Newman R. Luke	C
AP-EL-12	Electrical	Emergency Generator Addition	Provide emergency generator to operate emergency lighting, telephone system, data communications system, and emergency power receptacles.	Emergency generator desired to allow limited but continued use of facility during power outage.	Enhancement	1	\$179,962	Quantum Cost Estimate	Minor need. Not cost effective.	R. Thomas	C
AP-EL-13	Electrical	Telephone System Upgrade	Provide a telephone system with multiple lines, voice mail, loud speaker capabilities, and dial-up zone paging.	Existing telephone system consists of standard telephone lines and standard handsets without added features.	Deficiency	2	\$85,881	Quantum Cost Estimate	Minor deficiency. Not cost effective.	R. Thomas	C
AP-MD-01	Modernization	Building Access Modifications	Provide access from the front lobby area to the spectators area without requiring spectators to walk through locker rooms and pool deck.	Existing access for spectators from front lobby to spectator area requires spectators to walk a locker room, shower area and pool deck or exit the building and walk to the spectator area side entry door through the parking lot. Spectator passage circulation the locker rooms and pool deck is unsanitary. Spectator circulation through the parking lot is a potential safety hazard.	Health / Safety & Deficiency	1	\$47,148	BLRB Cost Estimate	Not feasible without compromising program requirements.	R. Thomas	C
AP-MD-02	Modernization	Restroom Modernizations	Replace water closets, add mirrors, increase door width, modify door swing, and provide signage at restrooms 102 and 103 to be ADA compliant.	Existing men's restroom 102 and women's restroom 103 requires modifications to provide ADA compliant restrooms within building.	Deficiency	1	\$77,863	BLRB Cost Estimate	Minor deficiency.	ADA Consultant	C
AP-NW-01	New	Building Replacement	Demolish existing building and indoor pool. Build new 14,400 SF replacement building and indoor pool at location of existing building that matches size of existing building. Existing site remains as is.	Existing building has program and facility component deficiencies. Replacement of building with new facility of comparable size would correct deficiencies present in existing facility but would not provide additional space to correct space deficiencies.	Deficiency	2	\$9,728,603	ASD Cost Estimate	Not cost effective.	B. Kenworthy	C
AP-NW-02	New	Building and Site Improvement Replacement	Demolish existing building, indoor pool and site improvements. Build new 14,400 SF replacement building with indoor pool and .75 acres of site improvements on existing property.	Existing building and site have program and facility component deficiencies. Replacement of building and site improvements with new facility of comparable size would correct deficiencies present in existing facility but would not provide additional space to correct space deficiencies.	Deficiency	2	\$10,127,447	ASD Cost Estimate	Not cost effective.	B. Kenworthy	C

# PROPOSED FACILITY IMPROVEMENTS

# AUBURN POOL

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
AP-SI-10	Site	Parking Additions	Provide additional parking.	Existing parking lot has 22 stalls which are not adequate for some pool uses and not adequate for all spectator events. 150 additional stalls available close by at the Administrative Annex and AHS during non-school hours. On street parking available. Current code requires 211 stalls.	Deficiency	NA	NA	No Cost Estimate	Not cost effective to add parking for occasional use with additional parking close by.	B. Kenworthy	NA
AP-SI-13	Site	Water Meter Addition	Provide deduct water meter at make-up water supply line.	Installation of a deduct meter will allow non-sewer related water usage to be deducted from sewer charges and reduce monthly utility costs.	Operating Cost	1	NA	BLRB Cost Estimate	Costs included in AP-SI-14.	R. Thomas	NA
AP-EX-01	Exterior	Building Insulation Additions	Provide insulation at exterior walls and roof.	Existing exterior walls are uninsulated concrete. Existing roof insulation does not meet district's standards.	Operating Cost	NA	NA	No Cost Estimate	Not cost effective .	B. Kenworthy	NA
AP-EX-04	Exterior	Exterior Painting	Paint exterior of building.	Exterior paint is in fair condition.	Enhancement	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Thomas	NA
AP-IN-03	Interior	Interior Painting	Paint interior of buildings	Existing interior paint is in fair condition.	Enhancement	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Thomas	NA



# PROPOSED FACILITY IMPROVEMENTS

# SUPPORT SERVICES CENTER

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
SS-SI-02	Site	Accessible Parking Stall Addition	Change a standard parking stalls to a handicap stall and add post mounted signage designating handicap parking stall.	An additional handicap parking stall and associated signage needed to comply with ADA.	Deficiency	3	\$1,588	BLRB Cost Estimate		ADA Consultant	A
SS-SI-03	Site	Automatic Gate Upgrade	Replace motorized system that operates entry gate.	Existing motorized equipment that operates gate is 12 years old and is difficult to repair because the system is no longer manufactured. The automatic safety retraction system no longer operates and cannot be repaired because replacement parts are not available.	Deficiency	1	\$29,325	BLRB Cost Estimate		R. Thomas	A
SS-SI-04 ECM-W3	Site	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station and add a rain gauge.	Connection to the EMS and the addition of a rain gauge will reduce water consumption and utility costs.	Operating Cost	2	\$6,428	Quantum Cost Estimate	Estimated 6-year payback period.	Energy Consultant R. Thomas	A
SS-ME-01 ECM-M3	Mechanical	Air Compressor Control Addition	Provide control for air compressor connected to the EMS system to shut compressor off during unoccupied times.	Compressor control will reduce energy costs.	Operating Cost	2	\$10,285	Quantum Cost Estimate	Estimated 8-year payback period.	Energy Consultant	A
SS-ME-02	Mechanical	Air Conditioning Modification	Modify controls for air conditioning system to correct problem with system shutting down.	Existing air conditioning system shuts off during times of low air flow or low temperatures because of incompatibility between condensing unit and air handling unit.	Deficiency	1	\$6,428	Quantum Cost Estimate		R. Thomas	A
SS-ME-03 ECM-M6	Mechanical	Block Heater Control Addition	Provide controls for vehicle block heaters connected to the existing building EMS to control the heaters based on schedule and temperature.	Heater controls will reduce energy costs.	Operating Cost	2	\$21,855	Quantum Cost Estimate	Estimated 7-year payback period.	Energy Consultant	A
SS-ME-04	Mechanical	Boiler Replacement	Replace boiler.	Existing boiler will exceed life expectancy in 8 years.	Enhancement	2	\$147,076	Quantum Cost Estimate		R. Thomas	A
SS-ME-06	Mechanical	Domestic Water Circulation Improvements	Modify domestic water circulation system to improve the supply of hot water to areas of the building that are a long distance from hot water tank by adding a 50 gal DWH and pipe.	Water must be run for a long period of time to receive hot water at sinks that are a long distance from hot water tank. This is inconvenient and wastes water.	Deficiency	1	\$31,627	Quantum Cost Estimate		R. Thomas	A
SS-ME-07	Mechanical	Domestic Water Tank Replacement	Replace domestic water tanks.	Existing domestic water tank leaks and is past its life expectancy.	Deficiency	1	\$36,513	Quantum Cost Estimate		R. Thomas	A
SS-ME-09 ECM-M2	Mechanical	HVAC Control System Commissioning	Commission the HVAC control system to verify proper operation.	Commissioning will improve system operation and efficiency.	Operating Cost	2	\$6,428	Quantum Cost Estimate	Estimated 6-year payback period.	Energy Consultant R. Thomas	A
SS-ME-11 ECM-W1	Mechanical	Plumbing Fixture Replacement - Partial	Replace water closets and provide aerators for sinks.	A reduction in water use will reduce utility costs.	Operating Cost	1	\$6,428	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant	A
SS-ME-12 ECM-M4	Mechanical	Occupancy Sensor Temperature Control Additions	Provide occupancy sensors in the warehouse and offices to set back temperatures when spaces when are unoccupied.	Occupancy sensors will reduce energy costs.	Operating Cost	2	\$15,428	Quantum Cost Estimate	Estimated 8-year payback period.	Energy Consultant	A
SS-ME-13 ECM-M5	Mechanical	Overhead Door Sensor Additions	Provide sensors at overhead doors in warehouse to turn off the heating equipment when doors are open.	Door sensors will reduce energy costs.	Operating Cost	1	\$15,428	Quantum Cost Estimate	Estimated 5-year payback period.	Energy Consultant	A

# PROPOSED FACILITY IMPROVEMENTS

# SUPPORT SERVICES CENTER

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
SS-EL-03 ECM-L3	Electrical	Exterior Lighting Upgrade	Replace or retrofit HID and incandescent exterior fixtures with compact fluorescent technology.	Fixture replacement or retrofit will reduce energy costs.	Operating Cost	2	\$14,142	Quantum Cost Estimate	Estimated 7-year payback period.	Energy Consultant	A
SS-EL-04	Electrical	Fire Alarm System Upgrade	Replace fire alarm system smoke detectors and bases.	Replacement parts not available.	Deficiency	2	\$84,594	Quantum Cost Estimate		R. Thomas	A
SS-EL-06 ECM-L1	Electrical	Interior Lighting Upgrade	Replace 400 watt metal halide light fixtures in warehouse with T-8 or T-5 fluorescent technology.	Light fixture replacement will reduce energy costs.	Operating Cost	2	\$32,140	Quantum Cost Estimate	Estimated 6-year payback period.	Energy Consultant	A
SS-EL-08 ECM-L2	Electrical	Occupancy Sensor Lighting Control Addition	Provide occupancy sensor in the warehouse and offices to turn off lights when the spaces are unoccupied.	Occupancy sensors will reduce energy costs.	Operating Cost	2	\$7,715	Quantum Cost Estimate	Estimated 6-year payback period.	Energy Consultant	A
SS-MD-01	Modernization	Walk-in Freezer Removal	Remove 1,800 SF walk-in freezer located in warehouse and associated equipment.	Existing walk-in freezer not used and takes up floor space needed in warehouse.	Enhancement	1	\$68,425	BLRB Cost Estimate		R. Thomas	A
SS-EX-02	Exterior	Exterior Door Hardware Upgrade	Replace exterior door lock cylinders with Primus cylinders.	Primus lock cylinders will improve building security.	Enhancement	3	\$7,587	BLRB Cost Estimate		R. Thomas	B
SS-IN-02	Interior	Epoxy Floor Upgrade	Repair crack and resurface epoxy resin floor in locker and shower rooms 305 - 307.	Existing epoxy floor is cracked and has unsightly patch where previous cracks were repaired.	Enhancement	2	\$8,255	BLRB Cost Estimate		R. Thomas B. Kenworthy	B
SS-ME-15 ECM-W4	Mechanical	Washing Machine Modification	Implement last rinse first wash water reuse for the washing machines in the laundry.	Water reuse will reduce water usage and utility costs.	Operating Cost	2	\$59,782	Quantum Cost Estimate	Estimated payback period exceeds 10 years.	Energy Consultant	B
SS-EL-09	Electrical	Surveillance Camera Addition	Provide surveillance camera system to monitor storage building, parking lots and areas around building.	Surveillance cameras could reduce vandalism and theft around building.	Enhancement	3	\$88,966	Quantum Cost Estimate		M. Newman R. Thomas	B
SS-EL-10	Electrical	Telephone System Upgrade	Replace telephone system.	Existing telephone system is past life expectancy and replacement parts are no longer available.	Deficiency	2	\$191,816	Quantum Cost Estimate		R. Thomas	B
SS-EL-11	Electrical	Intrusion Alarm Exterior Lights and Audible Alarm	Provide motion detectors, lights and sirens for intrusion alarm.	Visual and audible alarms could reduce vandalism and theft around building.	Enhancement	3	\$33,169	Quantum Cost Estimate		M. Newman R. Thomas	B
SS-SI-01	Site	ADA Site Improvements	Provide miscellaneous site improvements to comply with ADA standards that do not significantly affect access to building.	Miscellaneous site areas, which do not significantly affect access to the building, could be improved to comply with current ADA standards.	Enhancement	2	\$4,204	BLRB Cost Estimate	Minor deficiency.	ADA Consultant	C
SS-SI-06	Site	Traffic Control Sign Upgrade	Replace two YIELD signs with new metal signs.	Existing YIELD signs are deteriorated.	Deficiency	2	\$733	BLRB Cost Estimate	Maintenance item.	B. Kenworthy	C
SS-SI-07	Site	Trench Drain Addition	Provide trench drain at north and south side of storage building.	Trench drains needed to collect parking lot surface water that flows through storage building.	Deficiency	2	\$36,657	BLRB Cost Estimate	Minor deficiency.	R. Thomas B. Kenworthy	C
SS-EX-01	Exterior	Automatic Door Opener Addition	Provide automatic door opener at the upper and lower front entry doors.	Building does not have automatic door opener at main entry doors.	Enhancement	2	\$19,550	BLRB Cost Estimate	Minor need.	M. Newman J. Trauffer	C
SS-EX-03	Exterior	Exterior Signage Addition	Provide building name and address at exterior of building.	Signage needed at building exterior to identify building name and address.	Deficiency	3	\$24,438	BLRB Cost Estimate	Minor deficiency.	B. Kenworthy	C
SS-EX-04	Exterior	Roof Upgrade - Metal Roof and Insulation	Provide low-slope metal roof system and additional insulation over existing built-up roof.	Existing roof in good condition but will exceed its life expectancy in 8 years. Existing rigid insulation is rated R-15 and district's recommended standard is R-38.	Enhancement	3	\$1,732,008	BLRB Cost Estimate	Minor need at this time.	R. Thomas	C

# PROPOSED FACILITY IMPROVEMENTS

# SUPPORT SERVICES CENTER

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
SS-EX-05	Exterior	Roof Upgrade - Single Ply and Insulation	Provide single ply Hypolon roof membrane and additional insulation over existing built-up roof.	Existing roof in good condition but will exceed its life expectancy in 8 years. Existing rigid insulation is rated R-15 and district's recommended standard is R-38.	Enhancement	3	\$1,063,948	BLRB Cost Estimate	Minor need at this time.	R. Thomas	C
SS-IN-01	Interior	ADA Building Improvements	Provide miscellaneous building improvements to comply with ADA standards that do not significantly affect access within the building.	Miscellaneous building areas, which do not significantly affect access within the building, could be improved to comply with current ADA standards.	Enhancement	2	\$95,367	BLRB Cost Estimate	Minor deficiency.	ADA Consultant	C
SS-IN-03	Interior	Tackboard Additions	Provide 4' tackboards in offices and 8' tackboard in conference room.	Tackboards needed to post information, displays and announcements.	Deficiency	3	\$3,128	BLRB Cost Estimate	Minor deficiency.	R. Thomas	C
SS-EQ-01	Equipment	Fiber Optic Connection Addition	Provide data communications equipment to accommodate installation of a leased fiber optic circuit.	Equipment needed when school upgrades its internet connection with a fiber optic circuit leased from Qwest.	Enhancement	1	NA	No Cost Estimate	Not cost effective and data transmission needs can be met by leasing an additional T1 line.	N. Vein	C
SS-EQ-03 ECM-W2	Equipment	Washing Machine Replacement	Replace washing machines in laundry with new water saver commercial washing machines.	Existing washing machines are 25 years old and not water efficient.	Operating Cost	3	\$72,600	Quantum Cost Estimate	Not cost effective because of estimated 12-year payback period.	Energy Consultant	C
SS-ME-05	Mechanical	Compressor Replacement	Replace compressor that provides air for compressed air system.	Existing compressor is past life expectancy.	Enhancement	3	\$22,884	Quantum Cost Estimate	Minor need at this time.	R. Thomas	C
SS-ME-08	Mechanical	Fire Sprinkler System Bracing	Provide additional seismic bracing to existing fire sprinkler system in compliance with FM Global standards.	Additional bracing will reduce risk of broken fire sprinkler lines during an earthquake.	Enhancement	4	\$77,138	Quantum Cost Estimate	Not cost effective.	M. Newman	C
SS-ME-10	Mechanical	Natural Gas System Metering	Provide electronic meter for natural gas system connected to energy management system.	Electronic meter will allow remote monitoring of gas service and improve potential for reducing natural gas use.	Operating Cost	2	\$22,370	Quantum Cost Estimate	Minor need and not cost effective.	R. Thomas	C
SS-ME-14 ECM-M1	Mechanical	VFD Control Sequence Modifications	Modify the control sequence for the office air handling unit to provide adequate airflow across the DX coil in a cooling mode to prevent the DX unit from tripping out on high head.	Control sequence modifications will reduce energy costs.	Operating Cost	3	\$2,572	Quantum Cost Estimate	Not cost effective because of estimated 12-year payback period.	Energy Consultant	C
SS-ME-16	Mechanical	Water Quality Improvements	Replace plumbing at sinks in carpentry shop (1), and electrical shop (1).	Water quality tests at some sinks exceeded EPA water quality standards for lead or copper.	Health / Safety	3	\$5,143	Quantum Cost Estimate	Not needed. Further testing revealed water quality standards being met.	B. Kenworthy	C
SS-EL-01	Electrical	Data Communications Equipment Upgrade	Upgrade data communications equipment filter, router, switch, traffic shaping and connectivity speed.	Existing filter, router, switch, traffic shaping and connectivity speed do not meet district's minimum standards.	Deficiency	1	\$49,225	ASD Cost Estimate	Minor deficiency.	N. Vien	C
SS-EL-02	Electrical	Electrical Service Metering	Provide electronic meter for electrical service connected to energy management system.	Electronic meter will allow remote monitoring of electrical service and improve potential for reducing electrical use.	Enhancement	1	\$24,941	Quantum Cost Estimate	Minor need. Not cost effective.	R. Thomas	C
SS-EL-05	Electrical	Interior Lighting Level Improvements	Provide additional illumination at emergency fixtures in warehouse and general lighting in shop areas and warehouse.	Existing lighting at some interior areas lacks adequate illumination and is below district's minimum standards.	Deficiency	3	\$32,140	Quantum Cost Estimate	Minor deficiency. See SS-EL-06 for a portion of these improvements.	B. Kenworthy	C
SS-EL-07	Electrical	Intrusion Alarm Audible Signal Upgrade	Upgrade intrusion alarm system to provide audible alarm.	Use of audible alarm could reduce intrusions and false alarms.	Enhancement	2	\$47,054	Quantum Cost Estimate	Minor need.	M. Newman	C

# PROPOSED FACILITY IMPROVEMENTS

# SUPPORT SERVICES CENTER

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
SS-NW-01	New	Building Replacement	Demolish existing building and build new 44,700 SF replacement building at location of existing building that matches size of existing building.	Existing building is in very good condition and has limited deficiencies. Construction of a replacement building would provide a new facility that meets all to the school district's current recommended standards.	Enhancement	4	\$15,216,094	ASD Cost Estimate	Not cost effective.	B. Kenworthy	C
SS-NW-02	New	Building and Site Improvements Replacement	Demolish existing building and site improvements. Build new 44,700 SF replacement building and 5.5 acres of site improvements at existing property.	Existing building and site is in very good condition and has limited deficiencies. Construction of a replacement building and site improvement would provide a new facility that meets all to the school district's current recommended standards.	Enhancement	4	\$24,274,454	ASD Cost Estimate	Not cost effective.	B. Kenworthy	C
SS-SI-05	Site	Pavement Marking Upgrade	Re-paint parking lot lines at southwest parking area.	Exist pavement lines at southwest parking area are faded.	Deficiency	NA	NA	No Cost Estimate	Maintenance item.	B. Kenworthy	NA
SS-EQ-02	Equipment	Office Equipment Upgrade	Replace 8 ink jet printers in offices.	Ink jet printers 8 years old and past life expectancy.	Deficiency	NA	NA	No Cost Estimate	Obtained as leased equipment or with Technology Levy funds.	R. Luke	NA

# PROPOSED FACILITY IMPROVEMENTS

# TRANSPORTATION CENTER

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
TC-SI-02	Site	Asphalt Settlement Repair	Repair asphalt settlement is southwest section of bus parking area.	Existing asphalt has settled about 8" at the north bus stalls immediately west of the bus wash. Water ponds in this area and interferes with access to buses.	Deficiency	2	\$30,855	ASD Cost Estimate		R. Thomas	A
TC-SI-04	Site	Bus Wash Oil / Water Separator Upgrade	Replace oil / water separator serving bus wash with a manufactured unit.	Existing bus wash oil / water separator was field fabricated, no longer operate properly, and is now failing because of rusted and deteriorated parts. Improper operation allows waste oil to enter sewer system.	Deficiency	1	\$39,977	BLRB Cost Estimate		R. Thomas	A
TC-SI-05 ECM-W3	Site	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station and add a rain gauge.	Connection to the EMS and the addition of a rain gauge will reduce water consumption and utility costs.	Operating Cost	1	\$6,428	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant R. Thomas	A
TC-SI-06	Site	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars and directional arrows.	Thermo-plastics markings are needed in critical locations where painted lines quickly wear away.	Enhancement	2	\$5,483	BLRB Cost Estimate		R. Thomas	A
TC-EX-01	Exterior	Automatic Door Opener Addition	Provide automatic door opener at the front entry door.	Building does not have automatic door opener at main entry door.	Enhancement	3	\$19,550	BLRB Cost Estimate		M. Newman J. Trauffer	A
TC-ME-01 ECM-M6	Mechanical	Block Heater Control Addition	Provide controls for bus block heaters connected to the existing building EMS to control the heaters based on schedule and temperature.	Heater controls will reduce energy costs.	Operating Cost	2	\$20,570	Quantum Cost Estimate	Estimated 7-year payback period.	Energy Consultant	A
TC-ME-02 ECM-M3	Mechanical	CO2 Control Addition - Air Handling Units	Expand the Barber Coleman control system to add CO2 control to the main air handling systems to regulate the amount of outside air being delivered to the occupied spaces based on CO2 levels.	CO2 control will reduce energy costs.	Operating Cost	2	\$10,285	Quantum Cost Estimate	Estimated 7-year payback period.	Energy Consultant	A
TC-ME-05 ECM-M4	Mechanical	Occupancy Sensor Temperature Control Addition	Install occupancy sensors in areas fluctuating occupancy to set back the spaces when they are unoccupied.	Occupancy sensors will reduce energy costs.	Operating Cost	2	\$15,428	Quantum Cost Estimate	Estimated 8-year payback period.	Energy Consultant	A
TC-ME-06 ECM-M5	Mechanical	Overhead Door Sensor Additions	Provide sensors at overhead doors in shop area to turn off the heating equipment when doors are open.	Door sensors will reduce energy costs.	Operating Cost	2	\$12,857	Quantum Cost Estimate	Estimated 6-year payback period.	Energy Consultant	A
TC-ME-07 ECM-W1	Mechanical	Plumbing Fixture Replacement - Partial	Provide aerators for sinks.	A reduction in water use will reduce utility costs.	Operating Cost	1	\$1,285	Quantum Cost Estimate	Estimated 2-year payback period.	Energy Consultant R. Thomas	A
TC-ME-08 ECM-M1	Mechanical	TAB and Commissioning	Perform air and water testing, adjusting and balancing (TAB) on the mechanical systems. Commission the existing HVAC control system to verify proper operation.	Retroactive TAB and commissioning will improve system operation and reduce energy costs.	Operating Cost	1	\$9,000	Quantum Cost Estimate	Estimated 4-year payback period.	Energy Consultant R. Thomas	A
TC-ME-10 ECM-M2	Mechanical	Waste Oil Heater Addition	Provide a waste oil heater in the main bus shop to supplement heating with waste oil.	Waste oil heater will reduce energy costs.	Operating Cost	1	\$19,285	Quantum Cost Estimate	Estimated 5-year payback period.	Energy Consultant	A
TC-EL-03	Electrical	Fire Alarm System Upgrade	Replace fire alarm smoke detectors and detector bases.	Smoke detector replacement parts not available.	Deficiency	2	\$29,415	Quantum Cost Estimate		R. Thomas	A
TC-EL-06 ECM-L1	Electrical	Interior Lighting Upgrade	Replace 400 watt metal halide fixture in the main shop with T-8 or T-5 fluorescent technology.	Light fixture replacement will reduce energy costs.	Operating Cost	1	\$25,713	Quantum Cost Estimate	Estimated 5-year payback period.	Energy Consultant	A

# PROPOSED FACILITY IMPROVEMENTS

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
TC-EL-07 ECM-L2	Electrical	Occupancy Sensor Lighting Control Addition	Provide occupancy sensors in offices, training room, lounge, small parts, drivers lobby, and locker room to turn off lights when the spaces are unoccupied.	Occupancy sensors will reduce energy costs.	Operating Cost	2	\$7,715	Quantum Cost Estimate	Estimated 7-year payback period.	Energy Consultant	A
TC-MD-01	Modernization	Dispatch Office Modernization	Provide larger dispatch office with adequate work area and outlets for four staff members.	Existing dispatch office is not large enough to accommodate current staff.	Deficiency	2	\$18,035	BLRB Cost Estimate		J. Denton	A
TC-NW-01	New	New Satellite Bus Facility	Provide a remote bus facility with fenced parking for 40 buses and 42 passenger vehicles, exterior surveillance camera system, electrical power at each bus stall for block heaters, parking lot lights, and building facility that includes direct access to bus parking area, 150 SF men's restroom, 150 SF women's restroom, 160 SF office with time clock and one work station with data, power and telephone.	A remote facility for parking buses will allow a portion of the bus fleet to remain in the general area of their daily bus routes and reduce daily travel and fuel usage to and from the existing transportation center. This will also allow additional buses to be parked at the Transportation Center which is needed for future expansion of the bus fleet.	Enhancement	2	\$1,629,971	BLRB Cost Estimate		J. Denton M. Newman	B
TC-SI-01	Site	ADA Site Improvements	Provide miscellaneous site improvements to comply with ADA standards that do not significantly affect access to building.	Miscellaneous site areas, which do not significantly affect access to the building, could be improved to comply with current ADA standards.	Enhancement	2	\$20,210	BLRB Cost Estimate	Minor deficiency.	ADA Consultant	C
TC-EX-03	Exterior	Roof Fall Arrest Anchors Addition	Provide fall arrest system at roof.	Pitched roof does not have fall arrest safety system.	Health / Safety	3	\$64,760	BLRB Cost Estimate	Minor deficiency.	R. Thomas	C
TC-IN-01	Interior	ADA Building Improvements	Provide miscellaneous building improvements to comply with ADA standards that do not significantly affect access within the building.	Miscellaneous building areas, which do not significantly affect access within the building, could be improved to comply with current ADA standards.	Enhancement	2	\$113,293	BLRB Cost Estimate	Minor deficiency.	ADA Consultant	C
TC-IN-02	Interior	Grab Bar Additions	Provide grab bars at handicap toilet stall in restroom 111.	Grab bars needed to assist the disabled and to comply with ADA.	Deficiency	1	\$367	BLRB Cost Estimate	Maintenance item.	ADA Consultant	C
TC-IN-03	Interior	Tackboard Additions	Provide 4' tackboards in offices and workroom, and 8' tackboard in large conference room.	Tackboards needed to post information, displays and announcements.	Deficiency	4	\$1,564	BLRB Cost Estimate	Minor deficiency.	R. Thomas	C
TC-EQ-01	Equipment	Fiber Optic Connection Addition	Provide data communications equipment to accommodate installation of a leased fiber optic circuit.	Equipment needed when school upgrades its internet connection with a fiber optic circuit leased from Qwest.	Enhancement	1	\$11,410	ASD Cost Estimate	Minor deficiency.	N. Vein	C
TC-ME-03	Mechanical	Fire Sprinkler System Bracing	Provide additional seismic bracing to existing fire sprinkler system in compliance with FM Global standards.	Additional bracing will reduce risk of broken fire sprinkler lines during an earthquake.	Enhancement	2	\$102,850	Quantum Cost Estimate	Not cost effective.	M. Newman	C
TC-ME-04	Mechanical	Natural Gas System Metering	Provide electronic meter for natural gas system connected to energy management system.	Electronic meter will allow remote monitoring of gas service and improve potential for reducing natural gas use.	Operating Cost	3	\$22,370	Quantum Cost Estimate	Minor need. Not cost effective.	R. Thomas	C
TC-ME-09	Mechanical	Telecommunication Rooms Cooling and Ventilation Addition	Provide independent mechanical ventilation and cooling system in existing MC room.	Existing MC room lacks independent HVAC system needed to keep data equipment from overheating and damaging equipment.	Deficiency	2	\$25,199	Quantum Cost Estimate	Minor deficiency.	N. Vein	C
TC-ME-11 ECM-W2	Mechanical	Water Reclamation Addition	Modify or replace the vehicle wash station to reclaim the waste water and for reuse.	Water reclamation will reduce water usage and reduce utility costs.	Operating Cost	3	\$16,713	Quantum Cost Estimate	Not cost effective because of estimated 12-year payback period.	Energy Consultant	C

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
TC-EL-01	Electrical	Data Communications Equipment Upgrade	Upgrade data communications equipment filter, router, switch, traffic shaping and connectivity speed.	Existing filter, router, switch, traffic shaping and connectivity speed do not meet district's minimum standards.	Deficiency	2	\$42,430	ASD Cost Estimate	Minor deficiency.	N. Vien	C
TC-EL-02	Electrical	Electrical Service Metering	Provide electronic meter for electrical service connected to energy management system.	Electronic meter will allow remote monitoring of electrical service and improve potential for reducing electrical use.	Enhancement	2	\$24,941	Quantum Cost Estimate	Minor need. Not cost effective.	R. Thomas	C
TC-EL-04	Electrical	Interior Lighting Level Improvements	Provide additional illumination at emergency and general lighting main shop area and at general lighting in staff lounge.	Existing lighting at some interior areas lacks adequate illumination and is below district's minimum standards.	Deficiency	2	\$51,425	Quantum Cost Estimate	Minor deficiency. See TC-EL-06 for a portion of these improvements.	B. Kenworthy	C
TC-EL-05	Electrical	Intrusion Alarm Audible Signal Upgrade	Upgrade intrusion alarm system to provide audible alarm.	Use of audible alarm could reduce intrusions and false alarms.	Enhancement	3	\$46,026	Quantum Cost Estimate	Minor need.	M. Newman	C
TC-EL-08	Electrical	Surveillance Camera Addition	Provide surveillance camera system to monitor fueling station use, parking lots and areas around building.	Surveillance cameras could reduce improper use of fueling station as well as vandalism and theft around building.	Enhancement	3	\$79,451	Quantum Cost Estimate	Minor need.	M. Newman R. Thomas	C
TC-NW-02	New	Building Replacement	Demolish existing building and build new 20,000 SF replacement building at location of existing building that matches size of existing building.	Existing building is in very good condition and has limited deficiencies. Construction of a replacement building would provide a new facility that meets all to the school district's current recommended standards.	Enhancement	4	\$9,239,539	ASD Cost Estimate	Not cost effective.	B. Kenworthy	C
TC-NW-03	New	Building and Site Improvements Replacement	Demolish existing building and site improvements. Build new 20,000 SF replacement building and 5.9 acre of site improvements at existing property.	Existing building and site is in very good condition and has limited deficiencies. Construction of a replacement building and new site improvements would provide a new facility that meets all to the school district's current recommended standards.	Enhancement	4	\$15,283,574	ASD Cost Estimate	Not cost effective.	B. Kenworthy	C
TC-SI-03	Site	Bus Parking Addition	Provide additional bus parking stalls.	Existing bus parking has no available capacity for additional buses. Additional stalls will be needed to accommodate future expansion of bus fleet.	Enhancement	NA	NA	No Cost Estimate	Not cost effective to expand property for additional bus parking.	M. Newman	NA
TC-EX-02	Exterior	Fuel Station Exterior Painting	Paint exterior of fuel station structure.	Exterior paint at fueling station is deteriorating from rust of the steel structure.	Enhancement	NA	NA	No Cost Estimate	Maintenance item and not an eligible capital improvement expenditure.	R. Thomas	NA
TC-EQ-02	Equipment	Office Equipment Additions	Provide 6 additional laser printers in office areas.	Additional laser printers needed for staff use. Current staff of 12 shares 2 printers.	Deficiency	NA	NA	No Cost Estimate	Obtained with Technology Levy funds.	R. Luke	NA

# PROPOSED FACILITY IMPROVEMENTS

# PORTABLE CLASSROOMS

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
X100-EX-01	Exterior	Exterior Siding Repair	Repair damaged wood siding on building exterior.	Existing siding is damaged. Repair is needed to maintain weather tightness of structure.	Deficiency	1	\$2,171	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X100-EQ-04	Equipment	Cabinet Addition	Provide a lockable storage cabinet.	Classroom lacks lockable storage.	Deficiency	3	\$2,171	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X100-ME-02 ECM-M30	Mechanical	Heat Pump Addition	Replace the electric heat units at the portable classroom with wall mounted heat pump.	Heat pump will improve comfort and reduce energy costs.	Operating Cost	3	\$13,371	ASD Cost Estimate	Not cost effective because of estimated 12-year payback period.	B. Kenworthy	C
X100-ME-03 ECM-M29	Mechanical	HVAC Control Addition	Provide control at the portable classroom HVAC unit for scheduling capability and to disable the heat when unoccupied.	Control addition will reduce energy costs.	Operating Cost	1	\$2,572	ASD Cost Estimate	Maintenance item with an estimated 2-year payback period.	B. Kenworthy	C
X100-EL-05	Electrical	Electrical Receptacle Addition	Add 4 duplex electrical receptacles.	Classroom has 6 rather than the minimum standard of 8 duplex electrical receptacles.	Deficiency	2	\$3,655	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X100-EL-06	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X100-EL-07	Electrical	Data Outlet Addition	Add 8 data outlets.	Classroom has 2 rather than the minimum standard of 6 data outlets.	Deficiency	2	\$18,778	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X100-EL-08	Electrical	Fire Alarm System Upgrade	Add 2 smoke detectors.	Classroom does not have a smoke detector.	Health / Safety	1	\$1,828	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X101-EX-01	Exterior	Exterior Siding Repair	Repair damaged wood siding on building exterior.	Existing siding is damaged. Repair is needed to maintain weather tightness of structure.	Deficiency	1	\$2,171	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X101-IN-02	Interior	Carpet Replacement	Replace carpet and vinyl base.	Existing carpet is permanently stained.	Enhancement	3	\$9,595	ASD Cost Estimate	Minor need.	B. Kenworthy	C
X101-IN-03	Interior	Vinyl Wall covering Repair	Replace damaged vinyl wall covering.	Existing vinyl wall covering is damaged.	Deficiency	2	\$4,318	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X101-EQ-04	Equipment	Cabinet Addition	Provide a lockable storage cabinet.	Classroom lacks lockable storage.	Deficiency	3	\$2,171	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X101-ME-05 ECM-M30	Mechanical	Heat Pump Addition	Replace the electric heat units at the portable classroom with wall mounted heat pump.	Heat pump will improve comfort and reduce energy costs.	Operating Cost	3	\$13,371	ASD Cost Estimate	Not cost effective because of estimated 12-year payback period.	B. Kenworthy	C
X101-ME-06 ECM-M29	Mechanical	HVAC Control Addition	Provide control at the portable classroom HVAC unit for scheduling capability and to disable the heat when unoccupied.	Control addition will reduce energy costs.	Operating Cost	1	\$2,572	ASD Cost Estimate	Maintenance item with estimated 2-year payback period.	B. Kenworthy	C
X101-EL-07	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X101-EL-08	Electrical	Data Outlet Addition	Add 6 data outlets.	Classroom has 4 rather than the minimum standard of 6 data outlets.	Deficiency	3	\$16,951	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X101-EL-09	Electrical	Fire Alarm System Upgrade	Add 2 smoke detectors.	Classroom does not have a smoke detector.	Health / Safety	1	\$1,828	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X102-EX-01	Exterior	Ramp and Landing Replacement	Replace existing ramp, landing, and handrails.	Existing ramp is damaged.	Health / Safety	1	\$13,478	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X102-EX-02	Exterior	Handrail Replacement	Replace existing handrails.	Existing handrails are in deteriorated condition.	Health / Safety	1	NA	ASD Cost Estimate	Cost included in X102-EX-01	B. Kenworthy	C
X102-EX-03	Exterior	Exterior Siding Repair	Repair damaged wood siding on building exterior.	Existing siding is damaged. Repair is needed to maintain weather tightness of structure.	Deficiency	1	\$2,171	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C



# PROPOSED FACILITY IMPROVEMENTS

# PORTABLE CLASSROOMS

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
X102-EX-04	Exterior	Gutter and Downspout Replacement	Replace gutters and downspouts.	Gutters and downspouts are in deteriorated condition.	Deficiency	1	\$6,853	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X102-EQ-05	Equipment	Cabinet Addition	Provide a lockable storage cabinet.	Classroom lacks lockable storage.	Deficiency	3	\$2,171	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X102-ME-06 ECM-M30	Mechanical	Heat Pump Addition	Replace the electric heat units at the portable classroom with wall mounted heat pump.	Heat pump will improve comfort and reduce energy costs.	Operating Cost	3	\$13,371	ASD Cost Estimate	Not cost effective because of estimated 12-year payback period.	B. Kenworthy	C
X102-ME-07 ECM-M29	Mechanical	HVAC Control Addition	Provide control at the portable classroom HVAC unit for scheduling capability and to disable the heat when unoccupied.	Control addition will reduce energy costs.	Operating Cost	1	\$2,572	ASD Cost Estimate	Maintenance item with estimated 2-year payback period.	B. Kenworthy	C
X102-EL-08	Electrical	Electrical Receptacle Addition	Add 5 duplex electrical receptacles.	Classroom has 5 rather than the minimum standard of 8 duplex electrical receptacles.	Deficiency	2	\$4,570	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X102-EL-09	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X102-EL-10	Electrical	Data Outlet Addition	Add 10 data outlets.	Classroom has no permanently wired data outlets.	Deficiency	2	\$13,707	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X102-EL-11	Electrical	Fire Alarm System Upgrade	Add 2 smoke detectors.	Classroom does not have a smoke detector.	Health / Safety	1	\$1,828	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X103-EX-01	Exterior	Exterior Siding Repair	Repair damaged wood siding on building exterior.	Existing siding is damaged. Repair is needed to maintain weather tightness of structure.	Deficiency	1	\$2,171	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X103-EQ-02	Equipment	Cabinet Addition	Provide a lockable storage cabinet.	Classroom lacks lockable storage.	Deficiency	3	\$2,171	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X103-ME-03 ECM-M30	Mechanical	Heat Pump Addition	Replace the electric heat units at the portable classroom with wall mounted heat pump.	Heat pump will improve comfort and reduce energy costs.	Operating Cost	3	\$13,371	ASD Cost Estimate	Not cost effective because of estimated 12-year payback period.	B. Kenworthy	C
X103-ME-04 ECM-M29	Mechanical	HVAC Control Addition	Provide control at the portable classroom HVAC unit for scheduling capability and to disable the heat when unoccupied.	Control addition will reduce energy costs.	Operating Cost	1	\$2,572	ASD Cost Estimate	Maintenance item with estimated 2-year payback period.	B. Kenworthy	C
X103-EL-05	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X103-EL-06	Electrical	Data Outlet Addition	Add 8 data outlets.	Classroom has 2 rather than the minimum standard of 6 data outlets.	Deficiency	2	\$18,778	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X103-EL-07	Electrical	Fire Alarm System Upgrade	Add 2 smoke detectors.	Classroom does not have a smoke detector.	Health / Safety	1	\$1,828	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X104-EX-01	Exterior	Exterior Siding Repair	Repair damaged wood siding on building exterior.	Existing siding is damaged. Repair is needed to maintain weather tightness of structure.	Deficiency	1	\$2,171	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X104-EQ-02	Equipment	Cabinet Additions	Provide a lockable storage cabinet and a tall bookshelf unit.	Classroom lacks lockable storage and bookshelves.	Deficiency	3	\$3,883	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X104-ME-03 ECM-M30	Mechanical	Heat Pump Addition	Replace the electric heat units at the portable classroom with wall mounted heat pump.	Heat pump will improve comfort and reduce energy costs.	Operating Cost	3	\$13,371	ASD Cost Estimate	Not cost effective because of estimated 12-year payback period.	B. Kenworthy	C
X104-ME-04 ECM-M29	Mechanical	HVAC Control Addition	Provide control at the portable classroom HVAC unit for scheduling capability and to disable the heat when unoccupied.	Control addition will reduce energy costs.	Operating Cost	1	\$2,572	ASD Cost Estimate	Maintenance item with estimated 2-year payback period.	B. Kenworthy	C

# PROPOSED FACILITY IMPROVEMENTS

# PORTABLE CLASSROOMS

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
X104-EL-05	Electrical	Electrical Receptacle Addition	Add 6 duplex electrical receptacles.	Classroom has 4 rather than the minimum standard of 8 duplex electrical receptacles.	Deficiency	2	\$5,483	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X104-EL-06	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X104-EL-07	Electrical	Light Fixture Lens Replacements	Replace damaged and discolored light fixture lenses.	Damaged and discolored light fixture lenses provide poor quality light.	Deficiency	2	\$2,742	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X104-EL-08	Electrical	Data Outlet Addition	Add 8 data outlets.	Classroom has 2 rather than the minimum standard of 6 data outlets.	Deficiency	2	\$18,778	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X104-EL-09	Electrical	Fire Alarm System Upgrade	Add 2 smoke detectors.	Classroom does not have a smoke detector.	Health / Safety	1	\$1,828	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X105-EX-01	Exterior	Ramp and Landing Replacement	Replace existing ramp, landing, and handrails.	Existing ramp is damaged.	Health / Safety	1	\$13,478	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X105-EX-02	Exterior	Exterior Siding Repair	Repair damaged wood siding on building exterior.	Existing siding is damaged. Repair is needed to maintain weather tightness of structure.	Deficiency	1	\$2,171	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X105-EX-03	Exterior	Flashing Replacement	Replace exterior flashing.	Exterior flashing is in deteriorated condition.	Deficiency	1	\$1,828	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X105-EX-04	Exterior	Gutter and Downspout Replacement	Replace gutters and downspouts.	Gutters and downspouts are in deteriorated condition.	Deficiency	1	\$6,853	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X105-EQ-05	Equipment	Curtain Replacement	Replace existing curtains with new curtains with vinyl backing.	Existing curtains do not have backing.	Deficiency	2	\$4,797	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X105-EQ-06	Equipment	Cabinet Additions	Provide a lockable storage cabinet and tall bookshelf unit.	Classroom lacks lockable storage and bookshelves.	Deficiency	3	\$3,883	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X105-ME-07 ECM-M30	Mechanical	Heat Pump Addition	Replace the electric heat units at the portable classroom with wall mounted heat pump.	Heat pump will improve comfort and reduce energy costs.	Operating Cost	3	\$13,371	ASD Cost Estimate	Not cost effective because of estimated 12-year payback period.	B. Kenworthy	C
X105-ME-08 ECM-M29	Mechanical	HVAC Control Addition	Provide control at the portable classroom HVAC unit for scheduling capability and to disable the heat when unoccupied.	Control addition will reduce energy costs.	Operating Cost	1	\$2,572	ASD Cost Estimate	Maintenance item with estimated 2-year payback period.	B. Kenworthy	C
X105-EL-09	Electrical	Electrical Receptacle Addition	Add 6 duplex electrical receptacles.	Classroom has 4 rather than the minimum standard of 8 duplex electrical receptacles.	Deficiency	2	\$5,483	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X105-EL-10	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X105-EL-11	Electrical	Data Outlet Addition	Add 6 data outlets.	Classroom has 4 rather than the minimum standard of 6 data outlets.	Deficiency	3	\$16,951	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X105-EL-12	Electrical	Fire Alarm System Upgrade	Add 2 smoke detectors.	Classroom does not have a smoke detector.	Health / Safety	1	\$1,828	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X106-EX-01	Exterior	Handrail Replacement	Replace existing handrails.	Existing handrails are in deteriorated condition.	Health / Safety	1	\$5,710	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X106-EX-02	Exterior	Exterior Siding Repair	Repair damaged wood siding on building exterior.	Existing siding is damaged. Repair is needed to maintain weather tightness of structure.	Deficiency	1	\$2,171	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X106-EX-03	Exterior	Exterior Door Replacement	Replace exterior door.	Exterior door is damaged.	Deficiency	2	\$3,883	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X106-IN-04	Interior	Carpet Replacement	Replace carpet and vinyl base.	Existing carpet is permanently stained.	Enhancement	3	\$9,595	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C

# PROPOSED FACILITY IMPROVEMENTS

# PORTABLE CLASSROOMS

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
X106-IN-05	Interior	Acoustical Ceiling Upgrade	Provide new ceiling in classroom.	Existing glue-on acoustical ceiling tile in classroom is stained and damaged.	Deficiency	2	\$12,335	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X106-EQ-06	Equipment	Cabinet Addition	Provide a lockable storage cabinet.	Classroom lacks lockable storage.	Deficiency	3	\$2,171	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X106-ME-07 ECM-M30	Mechanical	Heat Pump Addition	Replace the electric heat units at the portable classroom with wall mounted heat pump.	Heat pump will improve comfort and reduce energy costs.	Operating Cost	3	\$13,371	ASD Cost Estimate	Not cost effective because of estimated 12-year payback period.	B. Kenworthy	C
X106-ME-08 ECM-M29	Mechanical	HVAC Control Addition	Provide control at the portable classroom HVAC unit for scheduling capability and to disable the heat when unoccupied.	Control addition will reduce energy costs.	Operating Cost	1	\$2,572	ASD Cost Estimate	Maintenance item with estimated 2-year payback period.	B. Kenworthy	C
X106-EL-09	Electrical	Electrical Receptacle Addition	Add 5 duplex electrical receptacles.	Classroom has 5 rather than the minimum standard of 8 duplex electrical receptacles.	Deficiency	2	\$4,570	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X106-EL-10	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X106-EL-11	Electrical	Data Outlet Addition	Add 8 data outlets.	Classroom has 2 rather than the minimum standard of 6 data outlets.	Deficiency	2	\$11,880	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X106-EL-12	Electrical	Fire Alarm System Upgrade	Add 2 smoke detectors.	Classroom does not have a smoke detector.	Health / Safety	1	\$1,828	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X107-EX-01	Exterior	Exterior Siding Repair	Repair damaged wood siding on building exterior.	Existing siding is damaged. Repair is needed to maintain weather tightness of structure.	Deficiency	1	\$2,171	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X107-IN-02	Interior	Acoustical Ceiling Upgrade	Provide new ceiling in classroom.	Existing glue-on acoustical ceiling tile in classroom is stained and damaged.	Deficiency	2	\$12,335	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X107-EQ-03	Equipment	Cabinet Addition	Provide a lockable storage cabinet.	Classroom lacks lockable storage.	Deficiency	3	\$2,171	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X107-ME-04 ECM-M30	Mechanical	Heat Pump Addition	Replace the electric heat units at the portable classroom with wall mounted heat pump.	Heat pump will improve comfort and reduce energy costs.	Operating Cost	3	\$13,371	ASD Cost Estimate	Not cost effective because of estimated 12-year payback period.	B. Kenworthy	C
X107-ME-05 ECM-M29	Mechanical	HVAC Control Addition	Provide control at the portable classroom HVAC unit for scheduling capability and to disable the heat when unoccupied.	Control addition will reduce energy costs.	Operating Cost	1	\$2,572	ASD Cost Estimate	Maintenance item with estimated 2-year payback period.	B. Kenworthy	C
X107-EL-06	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X107-EL-07	Electrical	Data Outlet Addition	Add 8 data outlets.	Classroom has 2 rather than the minimum standard of 6 data outlets.	Deficiency	2	\$11,880	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X107-EL-08	Electrical	Fire Alarm System Upgrade	Add 2 smoke detectors.	Classroom does not have a smoke detector.	Health / Safety	1	\$1,828	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X108-EX-01	Exterior	Exterior Siding Repair	Repair damaged wood siding on building exterior.	Existing siding is damaged. Repair is needed to maintain weather tightness of structure.	Deficiency	1	\$2,171	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X108-EX-02	Exterior	Roof Replacement	Replace existing built-up roof with new single ply roof membrane.	Existing roof membrane is deteriorated, leaks, and is approaching the end of its useful life.	Deficiency	1	\$30,840	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X108-IN-03	Interior	Acoustical Ceiling Upgrade	Provide new ceiling in classroom.	Existing glue-on acoustical ceiling tile in classroom is stained and damaged.	Deficiency	2	\$12,335	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C

# PROPOSED FACILITY IMPROVEMENTS

# PORTABLE CLASSROOMS

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
X108-ME-04 ECM-M30	Mechanical	Heat Pump Addition	Replace the electric heat units at the portable classroom with wall mounted heat pump.	Heat pump will improve comfort and reduce energy costs.	Operating Cost	3	\$13,371	ASD Cost Estimate	Not cost effective because of estimated 12-year payback period.	B. Kenworthy	C
X108-ME-05 ECM-M29	Mechanical	HVAC Control Addition	Provide control at the portable classroom HVAC unit for scheduling capability and to disable the heat when unoccupied.	Control addition will reduce energy costs.	Operating Cost	1	\$2,572	ASD Cost Estimate	Maintenance item with estimated 2-year payback period.	B. Kenworthy	C
X108-EL-06	Electrical	Electrical Receptacle Addition	Add 4 duplex electrical receptacles.	Classroom has 6 rather than the minimum standard of 8 duplex electrical receptacles.	Deficiency	2	\$3,655	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X108-EL-07	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X108-EL-08	Electrical	Data Outlet Addition	Add 8 data outlets.	Classroom has 2 rather than the minimum standard of 6 data outlets.	Deficiency	2	\$11,880	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X108-EL-09	Electrical	Fire Alarm System Upgrade	Add 2 smoke detectors.	Classroom does not have a smoke detector.	Health / Safety	1	\$1,828	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X109-EX-01	Exterior	Exterior Siding Repair	Repair damaged wood siding on building exterior.	Existing siding is damaged. Repair is needed to maintain weather tightness of structure.	Deficiency	1	\$2,171	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X109-EX-02	Exterior	Gutter and Downspout Replacement	Replace gutters and downspouts.	Gutters and downspouts are in deteriorated condition.	Deficiency	1	\$6,853	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X109-EX-03	Exterior	Roof Replacement	Replace existing built-up roof with new single ply roof membrane.	Existing roof membrane is deteriorated, leaks, and is approaching the end of its useful life.	Deficiency	1	\$24,672	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X109-IN-04	Interior	Acoustical Ceiling Upgrade	Provide new ceiling in classroom.	Existing glue-on acoustical ceiling tile in classroom is stained and damaged.	Deficiency	2	\$12,335	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X109-EQ-05	Equipment	Cabinet Addition	Provide a lockable storage cabinet.	Classroom lacks lockable storage.	Deficiency	3	\$2,171	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X109-ME-06 ECM-M30	Mechanical	Heat Pump Addition	Replace the electric heat units at the portable classroom with wall mounted heat pump.	Heat pump will improve comfort and reduce energy costs.	Operating Cost	3	\$13,371	ASD Cost Estimate	Not cost effective because of estimated 12-year payback period.	B. Kenworthy	C
X109-ME-07 ECM-M29	Mechanical	HVAC Control Addition	Provide control at the portable classroom HVAC unit for scheduling capability and to disable the heat when unoccupied.	Control addition will reduce energy costs.	Operating Cost	1	\$2,572	ASD Cost Estimate	Maintenance item with estimated 2-year payback period.	B. Kenworthy	C
X109-EL-08	Electrical	Electrical Receptacle Addition	Add 4 duplex electrical receptacles.	Classroom has 6 rather than the minimum standard of 8 duplex electrical receptacles.	Deficiency	2	\$3,655	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X109-EL-09	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X109-EL-10	Electrical	Data Outlet Addition	Add 8 data outlets.	Classroom has 2 rather than the minimum standard of 6 data outlets.	Deficiency	2	\$11,880	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X109-EL-11	Electrical	Fire Alarm System Upgrade	Add 2 smoke detectors.	Classroom does not have a smoke detector.	Health / Safety	1	\$1,828	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X110-EX-01	Exterior	Ramp and Landing Replacement	Replace existing ramp, landing, and handrails.	Existing ramp is damaged.	Health / Safety	1	\$13,478	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X110-EX-02	Exterior	Handrail Replacement	Replace existing handrails.	Existing handrails are in deteriorated condition.	Health / Safety	1	NA	ASD Cost Estimate	Cost included in X110-EX-01	B. Kenworthy	C
X110-EX-03	Exterior	Exterior Siding Repair	Repair damaged wood siding on building exterior.	Existing siding is damaged. Repair is needed to maintain weather tightness of structure.	Deficiency	1	\$2,171	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C

# PROPOSED FACILITY IMPROVEMENTS

# PORTABLE CLASSROOMS

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
X110-IN-04	Interior	Carpet Replacement	Replace carpet and vinyl base.	Existing carpet is permanently stained.	Enhancement	3	\$9,595	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X110-IN-05	Interior	Acoustical Ceiling Upgrade	Provide new ceiling in classroom.	Existing glue-on acoustical ceiling tile in classroom is stained and damaged.	Deficiency	2	\$12,335	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X110-EQ-06	Equipment	Cabinet Addition	Provide a lockable storage cabinet.	Classroom lacks lockable storage.	Deficiency	3	\$2,171	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X110-ME-07 ECM-M30	Mechanical	Heat Pump Addition	Replace the electric heat units at the portable classroom with wall mounted heat pump.	Heat pump will improve comfort and reduce energy costs.	Operating Cost	3	\$13,371	ASD Cost Estimate	Not cost effective because of estimated 12-year payback period.	B. Kenworthy	C
X110-ME-08 ECM-M29	Mechanical	HVAC Control Addition	Provide control at the portable classroom HVAC unit for scheduling capability and to disable the heat when unoccupied.	Control addition will reduce energy costs.	Operating Cost	1	\$2,572	ASD Cost Estimate	Maintenance item with estimated 2-year payback period.	B. Kenworthy	C
X110-EL-09	Electrical	Electrical Receptacle Addition	Add 6 duplex electrical receptacles.	Classroom has 4 rather than the minimum standard of 8 duplex electrical receptacles.	Deficiency	2	\$4,570	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X110-EL-10	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X110-EL-11	Electrical	Data Outlet Addition	Add 8 data outlets.	Classroom has 2 rather than the minimum standard of 6 data outlets.	Deficiency	2	\$11,880	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X110-EL-12	Electrical	Fire Alarm System Upgrade	Add 2 smoke detectors.	Classroom does not have a smoke detector.	Health / Safety	1	\$1,828	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X111-EX-01	Exterior	Ramp and Landing Replacement	Replace existing ramp, landing, and handrails.	Existing ramp is damaged.	Health / Safety	1	\$13,478	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X111-EX-02	Exterior	Handrail Replacement	Replace existing handrails.	Existing handrails are in deteriorated condition.	Health / Safety	1	\$0	ASD Cost Estimate	Cost included in X111-EX-01	B. Kenworthy	C
X111-EX-03	Exterior	Exterior Siding Repair	Repair damaged wood siding on building exterior.	Existing siding is damaged. Repair is needed to maintain weather tightness of structure.	Deficiency	1	\$2,171	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X111-EX-04	Exterior	Roof Replacement	Replace existing built-up roof with new single ply roof membrane.	Existing roof membrane is deteriorated, leaks, and is approaching the end of its useful life.	Deficiency	1	\$24,672	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X111-IN-05	Interior	Acoustical Ceiling Upgrade	Provide new ceiling in classroom.	Existing glue-on acoustical ceiling tile in classroom is stained and damaged.	Deficiency	2	\$12,335	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X111-EQ-06	Equipment	Cabinet Addition	Provide a lockable storage cabinet.	Classroom lacks lockable storage.	Deficiency	3	\$2,171	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X111-ME-07 ECM-M30	Mechanical	Heat Pump Addition	Replace the electric heat units at the portable classroom with wall mounted heat pump.	Heat pump will improve comfort and reduce energy costs.	Operating Cost	3	\$13,371	ASD Cost Estimate	Not cost effective because of estimated 12-year payback period.	B. Kenworthy	C
X111-ME-08 ECM-M29	Mechanical	HVAC Control Addition	Provide control at the portable classroom HVAC unit for scheduling capability and to disable the heat when unoccupied.	Control addition will reduce energy costs.	Operating Cost	1	\$2,572	ASD Cost Estimate	Maintenance item with estimated 2-year payback period.	B. Kenworthy	C
X111-EL-09	Electrical	Electrical Receptacle Addition	Add 6 duplex electrical receptacles.	Classroom has 4 rather than the minimum standard of 8 duplex electrical receptacles.	Deficiency	2	\$4,570	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X111-EL-10	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X111-EL-11	Electrical	Data Outlet Addition	Add 8 data outlets.	Classroom has 2 rather than the minimum standard of 6 data outlets.	Deficiency	2	\$11,880	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C

# PROPOSED FACILITY IMPROVEMENTS

# PORTABLE CLASSROOMS

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
X111-EL-12	Electrical	Fire Alarm System Upgrade	Add 2 smoke detectors.	Classroom does not have a smoke detector.	Health / Safety	1	\$1,828	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X112-EX-01	Exterior	Exterior Painting	Paint areas of exterior wood.	Exterior paint is in poor condition.	Enhancement	4	NA	No Cost Estimate	Maintenance item.	B. Kenworthy	C
X112-EX-02	Exterior	Flashing Painting	Paint exterior flashing.	Exterior flashing is unpainted.	Enhancement	4	NA	No Cost Estimate	Maintenance item.	B. Kenworthy	C
X112-EQ-03	Equipment	Projection Screen Addition	Provide a 60"x60" projection screen.	Classroom does not have a projection screen.	Deficiency	3	\$525	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X112-ME-04	Mechanical	EMS Expansion	Expand the ASD Energy Management System to the portable classroom building.	Expansion of the EMS system will improve mechanical system operations and reduce energy costs.	Operating Cost	2	\$2,572	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X112-EL-05	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X112-EL-06	Electrical	Fire Alarm System Upgrade	Add 2 smoke detectors.	Classroom does not have a smoke detector.	Health / Safety	1	\$1,828	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X113-EX-01	Exterior	Flashing Painting	Paint exterior flashing.	Exterior flashing is unpainted.	Enhancement	4	NA	No Cost Estimate	Maintenance item.	B. Kenworthy	C
X113-ME-02	Mechanical	EMS Expansion	Expand the ASD Energy Management System to the portable classroom building.	Expansion of the EMS system will improve mechanical system operations and reduce energy costs.	Operating Cost	2	\$2,572	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X113-EL-03	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X113-EL-04	Electrical	Fire Alarm System Upgrade	Add 2 smoke detectors.	Classroom does not have a smoke detector.	Health / Safety	1	\$1,828	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X114-EQ-01	Equipment	Cabinet Additions	Provide a lockable wardrobe and a tall bookshelf unit.	Classroom lacks a wardrobe and bookshelves.	Deficiency	3	\$4,112	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X114-ME-02	Mechanical	EMS Expansion	Expand the ASD Energy Management System to the portable classroom building.	Expansion of the EMS system will improve mechanical system operations and reduce energy costs.	Operating Cost	2	\$2,572	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X114-EL-03	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X114-EL-04	Electrical	Fire Alarm System Upgrade	Add 2 smoke detectors.	Classroom does not have a smoke detector.	Health / Safety	1	\$1,828	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X115-ME-01	Mechanical	EMS Expansion	Expand the ASD Energy Management System to the portable classroom building.	Expansion of the EMS system will improve mechanical system operations and reduce energy costs.	Operating Cost	2	\$2,572	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X115-EL-02	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X115-EL-03	Electrical	Fire Alarm System Upgrade	Add 2 smoke detectors.	Classroom does not have a smoke detector.	Health / Safety	1	\$1,828	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X116-ME-01	Mechanical	EMS Expansion	Expand the ASD Energy Management System to the portable classroom building.	Expansion of the EMS system will improve mechanical system operations and reduce energy costs.	Operating Cost	2	\$2,572	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X116-EL-02	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
X116-EL-03	Electrical	Fire Alarm System Upgrade	Add 2 smoke detectors.	Classroom does not have a smoke detector.	Health / Safety	1	\$1,828	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X117-IN-01	Interior	Carpet Replacement	Replace carpet and vinyl base.	Existing carpet is permanently stained.	Enhancement	3	\$19,190	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X117-ME-02	Mechanical	EMS Expansion	Expand the ASD Energy Management System to the portable classroom building.	Expansion of the EMS system will improve mechanical system operations and reduce energy costs.	Operating Cost	2	\$2,572	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X117-EL-03	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X118-ME-01	Mechanical	EMS Expansion	Expand the ASD Energy Management System to the portable classroom building.	Expansion of the EMS system will improve mechanical system operations and reduce energy costs.	Operating Cost	2	\$2,572	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X118-EL-02	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X119-ME-01	Mechanical	EMS Expansion	Expand the ASD Energy Management System to the portable classroom building.	Expansion of the EMS system will improve mechanical system operations and reduce energy costs.	Operating Cost	2	\$2,572	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X119-EL-02	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X120-IN-01	Interior	Carpet Replacement	Replace carpet and vinyl base.	Existing carpet is permanently stained.	Enhancement	3	\$9,595	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X120-ME-02 ECM-M30	Mechanical	Thermostat Upgrade	Provide programmable thermostat with occupancy sensor at the HVAC unit in the portable classroom building.	Programmable thermostats with occupancy sensors will reduce energy costs.	Operating Cost	1	\$2,572	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X120-EL-03	Electrical	Photocell Addition	Provide a photocell to control the exterior lights on the portable.	Photocell control of lights will reduce energy costs.	Operating Cost	1	\$1,285	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X120-EL-04	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X121-EX-01	Exterior	Stair Replacement	Replace existing back stair and handrails.	Existing stairs has been removed due to deterioration.	Health / Safety	1	\$10,280	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X121-IN-02	Interior	Carpet Replacement	Replace carpet and vinyl base.	Existing carpet is permanently stained and seams are opening.	Enhancement	3	\$9,595	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X121-ME-03 ECM-M30	Mechanical	Thermostat Upgrade	Provide programmable thermostat with occupancy sensor at the HVAC unit in the portable classroom building.	Programmable thermostats with occupancy sensors will reduce energy costs.	Operating Cost	1	\$2,572	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X121-EL-04	Electrical	Photocell Addition	Provide a photocell to control the exterior lights on the portable.	Photocell control of lights will reduce energy costs.	Operating Cost	1	\$1,285	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X121-EL-05	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X122-EX-01	Exterior	Handrail Replacement	Replace existing handrails.	Existing handrails are in deteriorated condition.	Health / Safety	1	\$5,710	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X122-IN-02	Interior	Carpet Replacement	Replace carpet and vinyl base.	Existing carpet is permanently stained.	Enhancement	3	\$9,595	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
X122-ME-03 ECM-M29	Mechanical	HVAC Control Addition	Provide control at the portable classroom HVAC units for scheduling capability and to disable the heat when unoccupied.	Control addition will reduce energy costs.	Operating Cost	1	\$2,572	ASD Cost Estimate	Maintenance item with estimated 2-year payback period.	B. Kenworthy	C
X122-EL-04	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X123-EX-01	Exterior	Exterior Siding Repair	Repair damaged wood siding on building exterior.	Existing siding is damaged. Repair is needed to maintain weather tightness of structure.	Deficiency	1	\$2,171	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X123-IN-02	Interior	Carpet Replacement	Replace carpet and vinyl base.	Existing carpet is permanently stained.	Enhancement	3	\$9,595	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X123-ME-03 ECM-M29	Mechanical	HVAC Control Addition	Provide control at the portable classroom HVAC units for scheduling capability and to disable the heat when unoccupied.	Control addition will reduce energy costs.	Operating Cost	1	\$2,572	ASD Cost Estimate	Maintenance item with estimated 2-year payback period.	B. Kenworthy	C
X123-EL-04	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X124-IN-01	Interior	Carpet Replacement	Replace carpet and vinyl base.	Existing carpet is permanently stained.	Enhancement	3	\$9,595	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X124-ME-02 ECM-M29	Mechanical	HVAC Control Addition	Provide control at the portable classroom HVAC units for scheduling capability and to disable the heat when unoccupied.	Control addition will reduce energy costs.	Operating Cost	1	\$2,572	ASD Cost Estimate	Maintenance item with estimated 2-year payback period.	B. Kenworthy	C
X124-EL-02	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X125-EQ-01	Equipment	Projection Screen Addition	Provide a 60"x60" projection screen.	Classroom does not have a projection screen.	Deficiency	3	\$1,051	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X125-ME-02 ECM-M29	Mechanical	HVAC Control Addition	Provide control at the portable classroom HVAC units for scheduling capability and to disable the heat when unoccupied.	Control addition will reduce energy costs.	Operating Cost	1	\$5,143	ASD Cost Estimate	Maintenance item with estimated 2-year payback period.	B. Kenworthy	C
X125-EL-03	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X126-EQ-01	Equipment	Projection Screen Addition	Provide a 60"x60" projection screen.	Classroom does not have a projection screen.	Deficiency	3	\$525	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X126-EL-02	Electrical	Photocell Addition	Provide a photocell to control the exterior lights on the portable.	Photocell control of lights will reduce energy costs.	Operating Cost	1	\$1,285	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X126-EL-03	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X127-EL-01	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X127-EL-02	Electrical	Photocell Addition	Provide a photocell to control the exterior lights on the portable.	Photocell control of lights will reduce energy costs.	Operating Cost	1	\$1,285	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X128-EL-01	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C



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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
X128-EL-02	Electrical	Photocell Addition	Provide a photocell to control the exterior lights on the portable.	Photocell control of lights will reduce energy costs.	Operating Cost	1	\$1,285	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X133-ME-01 ECM-M29	Mechanical	HVAC Control Addition	Provide control at the portable classroom HVAC units for scheduling capability and to disable the heat when unoccupied.	Control addition will reduce energy costs.	Operating Cost	1	\$5,143	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X133-EL-02	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X134-EL-01	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X135-EL-01	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X136-EX-01	Exterior	Ramp and Landing Replacement	Replace existing ramp, landing, and handrails.	Existing ramp is damaged.	Health / Safety	1	\$13,478	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X136-IN-02	Interior	Carpet Replacement	Replace carpet and vinyl base.	Existing carpet is permanently stained.	Enhancement	3	\$9,595	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X136-EL-03	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X137-EX-01	Exterior	Ramp and Landing Replacement	Replace existing ramp, landing, and handrails.	Existing ramp is damaged.	Health / Safety	1	\$13,478	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X137-IN-02	Interior	Carpet Replacement	Replace carpet and vinyl base.	Existing carpet is permanently stained.	Enhancement	3	\$9,595	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X137-EQ-03	Equipment	Projection Screen Addition	Provide a 60"x60" projection screen.	Classroom does not have a projection screen.	Deficiency	3	\$525	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X137-EL-04	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X138-IN-01	Interior	Carpet Replacement	Replace carpet and vinyl base.	Existing carpet is permanently stained.	Enhancement	3	\$19,190	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X138-ME-02 ECM-M29	Mechanical	HVAC Control Addition	Provide control at the portable classroom HVAC units for scheduling capability and to disable the heat when unoccupied.	Control addition will reduce energy costs.	Operating Cost	1	\$5,143	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X138-EL-02	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X139-ME-01 ECM-M29	Mechanical	HVAC Control Addition	Provide control at the portable classroom HVAC unit for scheduling capability and to disable the heat when unoccupied.	Control addition will reduce energy costs.	Operating Cost	1	\$2,572	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X139-EL-02	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X140-EX-01	Exterior	Ramp and Landing Replacement	Replace existing ramp, landing, and handrails.	Existing ramp is damaged.	Health / Safety	1	\$13,478	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X140-EL-02	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
X141-IN-01	Interior	Carpet Replacement	Replace carpet and vinyl base.	Existing carpet is permanently stained.	Enhancement	3	\$9,595	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X141-EL-02	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X142-ME-01 ECM-M29	Mechanical	HVAC Control Addition	Provide control at the portable classroom HVAC units for scheduling capability and to disable the heat when unoccupied.	Control addition will reduce energy costs.	Operating Cost	1	\$5,143	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X142-EL-02	Electrical	Electrical Receptacle Addition	Add 5 duplex electrical receptacles.	Classroom has 5 rather than the minimum standard of 8 duplex electrical receptacles.	Deficiency	2	\$9,138	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X142-EL-03	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X143-ME-01 ECM-M29	Mechanical	HVAC Control Addition	Provide control at the portable classroom HVAC units for scheduling capability and to disable the heat when unoccupied.	Control addition will reduce energy costs.	Operating Cost	1	\$5,143	ASD Cost Estimate	Maintenance item with estimated 2-year payback period.	B. Kenworthy	C
X143-EL-02	Electrical	Electrical Receptacle Addition	Add 5 duplex electrical receptacles.	Classroom has 5 rather than the minimum standard of 8 duplex electrical receptacles.	Deficiency	2	\$9,138	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X143-EL-03	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X144-ME-01 ECM-M29	Mechanical	HVAC Control Addition	Provide control at the portable classroom HVAC units for scheduling capability and to disable the heat when unoccupied.	Control addition will reduce energy costs.	Operating Cost	1	\$5,143	ASD Cost Estimate	Maintenance item with estimated 2-year payback period.	B. Kenworthy	C
X144-EL-02	Electrical	Electrical Receptacle Addition	Add 5 duplex electrical receptacles.	Classroom has 5 rather than the minimum standard of 8 duplex electrical receptacles.	Deficiency	2	\$9,138	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X144-EL-03	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X145-ME-01 ECM-M29	Mechanical	HVAC Control Addition	Provide control at the portable classroom HVAC units for scheduling capability and to disable the heat when unoccupied.	Control addition will reduce energy costs.	Operating Cost	1	\$2,572	ASD Cost Estimate	Estimated 2-year payback period.	B. Kenworthy	C
X145-EL-02	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X146-ME-01 ECM-M29	Mechanical	HVAC Control Addition	Provide control at the portable classroom HVAC units for scheduling capability and to disable the heat when unoccupied.	Control addition will reduce energy costs.	Operating Cost	1	\$5,143	ASD Cost Estimate	Maintenance item with estimated 2-year payback period.	B. Kenworthy	C
X146-EL-02	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X147-ME-01 ECM-M29	Mechanical	HVAC Control Addition	Provide control at the portable classroom HVAC units for scheduling capability and to disable the heat when unoccupied.	Control addition will reduce energy costs.	Operating Cost	1	\$5,143	ASD Cost Estimate	Maintenance item with estimated 2-year payback period.	B. Kenworthy	C
X147-EL-01	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C

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Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
X148-ME-01 ECM-M29	Mechanical	HVAC Control Addition	Provide control at the portable classroom HVAC units for scheduling capability and to disable the heat when unoccupied.	Control addition will reduce energy costs.	Operating Cost	1	\$2,572	ASD Cost Estimate	Maintenance item with estimated 2-year payback period.	B. Kenworthy	C
X148-EL-02	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X149-EX-01	Exterior	Flashing Painting	Paint exterior flashing.	Exterior flashing is unpainted.	Enhancement	4	NA	No Cost Estimate	Maintenance item.	B. Kenworthy	C
X149-ME-02 ECM-M30	Mechanical	Thermostat Upgrade	Provide programmable thermostat with occupancy sensor at the HVAC unit in the portable classroom building.	Programmable thermostats with occupancy sensors will reduce energy costs.	Operating Cost	1	\$2,572	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X149-EL-03	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X150-EX-01	Exterior	Flashing Painting	Paint exterior flashing.	Exterior flashing is unpainted.	Enhancement	4	NA	No Cost Estimate	Maintenance item.	B. Kenworthy	C
X150-ME-02 ECM-M30	Mechanical	Thermostat Upgrade	Provide programmable thermostat with occupancy sensor at the HVAC unit in the portable classroom building.	Programmable thermostats with occupancy sensors will reduce energy costs.	Operating Cost	1	\$2,572	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X150-EL-03	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X151-IN-01	Interior	Carpet Replacement	Replace carpet and vinyl base.	Existing carpet is permanently stained.	Enhancement	3	\$9,595	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X151-EQ-02	Equipment	Projection Screen Addition	Provide a 60"x60" projection screen.	Classroom does not have a projection screen.	Deficiency	3	\$525	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X151-EL-03	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X152-IN-01	Interior	Carpet Replacement	Replace carpet and vinyl base.	Existing carpet is permanently stained.	Enhancement	3	\$9,595	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X152-EQ-02	Equipment	Projection Screen Addition	Provide a 60"x60" projection screen.	Classroom does not have a projection screen.	Deficiency	3	\$525	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X152-EL-03	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X153-EQ-01	Equipment	Projection Screen Addition	Provide a 60"x60" projection screen.	Classroom does not have a projection screen.	Deficiency	3	\$1,051	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X153-ME-02 ECM-M29	Mechanical	HVAC Control Addition	Provide control at the portable classroom HVAC units for scheduling capability and to disable the heat when unoccupied.	Control addition will reduce energy costs.	Operating Cost	1	\$5,143	ASD Cost Estimate	Maintenance item with estimated 2-year payback period.	B. Kenworthy	C
X153-EL-03	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X154-ME-01 ECM-M30	Mechanical	Heat Pump Addition	Replace the electric heat units at the portable classroom with wall mounted heat pump.	Heat pump will improve comfort and reduce energy costs.	Operating Cost	2	\$13,371	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X154-ME-02 ECM-M30	Mechanical	Thermostat Upgrade	Provide programmable thermostat with occupancy sensor at the HVAC unit in the portable classroom building.	Programmable thermostats with occupancy sensors will reduce energy costs.	Operating Cost	1	\$2,572	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C

# PROPOSED FACILITY IMPROVEMENTS

# PORTABLE CLASSROOMS

Item No.	Category	Improvement Title	Improvement Description	Improvement Justification	Type	Level of Need	2008 Estimated Project Cost	Status	Comments	Proposed By	Steering Comm. Rank
X154-EL-03	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C
X155-ME-01 ECM-M30	Mechanical	Heat Pump Addition	Replace the electric heat units at the portable classroom with wall mounted heat pump.	Heat pump will improve comfort and reduce energy costs.	Operating Cost	2	\$13,371	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X155-ME-02 ECM-M30	Mechanical	Thermostat Upgrade	Provide programmable thermostat with occupancy sensor at the HVAC unit in the portable classroom building.	Programmable thermostats with occupancy sensors will reduce energy costs.	Operating Cost	1	\$2,572	ASD Cost Estimate	Minor deficiency.	B. Kenworthy	C
X155-EL-03	Electrical	Exterior Light Fixture Replacement	Replace light fixture at exterior door.	Existing light fixture does not provide sufficient illumination for landing and ramp.	Health / Safety	1	\$915	ASD Cost Estimate	Maintenance item.	B. Kenworthy	C

## **Appendix F – Approved Facility Improvements: Schools**

### Elementary Schools:

Alpac Elementary School  
Chinook Elementary School  
Dick Scobee Elementary School  
Evergreen Heights Elementary School  
Gildo Rey Elementary School  
Hazelwood Elementary School  
Ilalko Elementary School  
Lake View Elementary School  
Lea Hill Elementary School  
Pioneer Elementary School  
Terminal Park Elementary School  
Washington Elementary School

### Middle Schools:

Cascade Middle School  
Mt. Baker Middle School  
Rainier Middle School

### High Schools:

Auburn High School  
Auburn Riverside High School  
West Auburn High School

# ALPAC ELEMENTARY SCHOOL - APPROVED FACILITY IMPROVEMENTS

Item No.	Improvement Title	Improvement Description
AL-SI-02	Asphalt Play Area Upgrade	Patch and add asphalt overlay at perimeter of building, perimeter of playshed and within playshed.
AL-SI-09	Curb Ramp Additions	Provide curb ramp at bus loading area and main entry crosswalk.
AL-SI-14 ECM-W2	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station and add a rain gauge.
AL-SI-17	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars, directional arrows, and bus stall numbers. Add striping at two crosswalks at HC parking stalls. Modify existing markings to provide HC parking in staff lot.
AL-SI-22	Sanitary Sewer Line Replacement	Replace sanitary sewer line from building to sewer main in Milwaukee Blvd.
AL-EX-03	Exterior Door Hardware Upgrade	Replace exterior door lock cylinders with Primus cylinders.
AL-EX-05	Playshed Wall Improvements	Replace wood surfaces at playshed walls with durable non-wood surface, and remove a portion walls for improved supervision, and replace portion of walls where structure has deteriorated due to water leaks.
AL-EX-06	Roof Fall Arrest Anchors Addition	Provide fall arrest system at pitched roof areas.
AL-EX-09	Wood Trim Replacement	Replace wood trim at roof edge at gable ends of roofs.
AL-EX-10	Skylight Upgrade	Replace skylight over center courtyard with panel system with 300-pound point load capacity.
AL-EX-11	Roof Upgrade - Shingles	Replace aluminum shingles with composition shingles at pitched roof areas and at vertical fascia adjacent to pitched roofs.
AL-IN-09	Vinyl Wall Covering Additions	Provide vinyl wall covering in corridors.
AL-EQ-02	Classroom Tackboard Additions	Provide additional tackboard at 5 classrooms.
AL-EQ-03	Computer Furniture Upgrade	Provide furniture designed for computer and other technology equipment use.
AL-EQ-04	Desk Furniture Upgrade	Replace teacher and office desks.
AL-EQ-08	Interior Signage Upgrade	Provide ADA compliant room signs.
AL-EQ-10	Playshed Basketball Backboard Upgrade	Replace existing and add basketball backboards and hoops in playshed.
AL-EQ-13	Window Covering Upgrade	Replace fabric curtains at exterior windows with coated fabric or roller shades. Replace curtains at interior relite windows with mini-blinds.
AL-EQ-14	Staff Restroom Grab Bar Additions	Provide ADA compliant grab bars in staff restrooms 108 and 112.
AL-ME-01 ECM-M3	Automatic Controls Upgrade	Upgrade the EMS control system front end and software to the district standard - BacNet compatible, web based. Incorporate dead band on Gym space set point.
AL-ME-02 ECM-M4	CO2 Control Addition	Expand Barber Coleman control system to add CO2 control to the main air handling systems in the gym and library.
AL-ME-03 ECM-M6	Duct Leaks Repair	Repair leaks in the HVAC ductwork.
AL-ME-07 ECM-M5	Occupancy Sensor Temperature Control Addition	Install occupancy sensors in areas of fluctuating occupancy to set back the spaces when they are unoccupied.
AL-ME-09 ECM-W1	Plumbing Fixture Retrofit Review	Review water saving opportunities including retrofit or replacement of sinks, urinals and water closets.
AL-ME-10 ECM-M2	Rooftop Air Handling Unit Replacement	Replace the failing rooftop air handling units with new packaged multi-zone air handling units, or rooftop heat pumps.
AL-ME-11 EMC-M1	TAB and Commissioning	Perform air and water testing, adjusting and balancing (TAB) on the mechanical systems. Commission the existing HVAC control system to verify proper operation.
AL-ME-12	Waste Line Improvements	Upgrade sagging and uneven waste lines that are suspended from structural slab.
AL-ME-14	Domestic Water Tank Replacement	Replace domestic hot water tanks.
AL-EL-04 ECM-L5	Daylight Control Addition	Provide daylight controls in areas with sufficient ambient light.
AL-EL-06 ECM-L2	Exit Sign Replacement	Replace incandescent and compact fluorescent exit signs with LED exit signs.
AL-EL-07	Exterior Lighting Level Improvements	Provide additional illumination at front entry, bus area and delivery area.

## ALPAC ELEMENTARY SCHOOL - APPROVED FACILITY IMPROVEMENTS

Item No.	Improvement Title	Improvement Description
AL-EL-08 ECM-L3	Gym Lighting Upgrade	Replace HID fixtures in the Gym with new fixtures using T-8 or T-5 technology.
AL-EL-14 ECM-L4	Occupancy Sensor Lighting Control Addition	Install occupancy sensor in areas with fluctuating occupancy to turn off lights when the spaces are unoccupied.
AL-EL-17	Interior Lighting Level and Energy Efficiency Improvements	Provide additional illumination at classrooms, corridors, emergency lighting, kitchen, library, restrooms and support spaces using T-12 fixtures, magnetic ballast and incandescent fixtures with T-8, electronic ballast and compact fluorescent technology.
AL-MD-21	Special Education Classroom Restroom	Provide restroom in a classroom for use by special education.
AL-MD-26	Student Restroom Improvements - East Wing	Provide ADA compliant grab bars and water closets in student restrooms 401 and 402.
AL-MD-27	Student Restroom Modernization - West Wing	Modernize student restrooms 113 and 114 to provide ceramic tile floors, 7' high wainscot, new toilet partitions that are ADA compliant, and ADA compliant toilets and sinks.
AL-MD-33	Gym Area Improvements	Resurface rubber floor, add 4 backboards at side wall, convert existing locker rooms into PE office, uni-sex ADA compliant restroom, and furniture storage room.
AL-MD-34	Kitchen Improvements	Provide work desk area with data, POS, electrical and telephone outlets ,and quarry tile floor in kitchen. Provide two-burner cooktop and combi-oven with associated gas and electrical service. Enlarge hood to accommodate combi-oven and cook-top. Provide walk-in cooler at existing gym storage room 120. Replace steamer, steam kettle, convection ovens, and dishwasher. Paint walls and ceilings with epoxy paint.
AL-MD-35	Main Office / Health Area Improvements	Provide exterior window at south wall of main office 100. Provide interior relite window at west wall of conference room 103. Modernize and expand health room 102 by 40 SF into office 105, add exhaust fan, and provide ADA compliant restroom and nurses workstation within this space.

## CHINOOK ELEMENTARY SCHOOL - APPROVED FACILITY IMPROVEMENTS

Item No.	Improvement Title	Improvement Description
CH-SI-02	Asphalt Pathway Upgrade	Patch a portion of damaged asphalt pathway between playground and Scenic Drive.
CH-SI-16	On-Site Sidewalk Improvements	Provide handicap curb cut at north parking lot and additional sidewalk width at north and east sides of building
CH-SI-18	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars, and directional arrows. Provide striping at exterior basketball court and at bus loading area.
CH-SI-23	Traffic Control Sign Additions	Provide signs designating bus loading area, student drop off area, and two handicap parking stalls.
CH-SI-26	Curb Ramp Additions	Provide two curb ramps at sidewalks at each side of crosswalk at entry drive to north parking lot.



## DICK SCOBEE ELEMENTARY SCHOOL - APPROVED FACILITY IMPROVEMENTS

Item No.	Improvement Title	Improvement Description
DS-SI-08	Curb Ramp Addition	Provide curb ramp at front entry sidewalk.
DS-SI-16	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars, and directional arrows. Provide striping for an exterior and playshed basketball court, additional pickle ball court and 4 box hockey games.

## EVERGREEN HEIGHTS ELEMENTARY SCHOOL - APPROVED FACILITY IMPROVEMENTS

Item No.	Improvement Title	Improvement Description
EH-SI-07	Exterior Ramp Addition	Provide exterior ramp for access to classrooms at lower level of school.
EH-SI-08	Exterior Stair Modifications	Modify exterior stairs and add drain at base of stairways.
EH-SI-11 ECM-W2	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station and add a rain gauge.
EH-SI-12	On-Site Sidewalk Improvements	Improve sidewalks around building.
EH-SI-13	Parking and Access Improvements	Modify and expand staff and visitor parking, bus loading, student drop off, and delivery area.
EH-SI-14	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars and directional arrows. Provide striping at parking lot fire lanes, exterior basketball court, pickle ball courts, tetherball posts, and box hockey games.
EH-SI-16	Playground Equipment Additions	Provide 2 basketball backboards at hard surface playground area, 2 additional backboards at playshed, 2 additional tetherball posts, posts and nets for two pickle ball courts, and 2 more box hockey games.
EH-SI-17	Playground Fence Addition	Provide 6' chainlink fence at perimeter of playground and grass playfield areas.
EH-SI-19	Sanitary Sewer Connection	Connect waste system to municipal sewer system.
EH-SI-20	Security Fence Addition	Provide ornamental fence and gates to secure campus during non-school hours.
EH-SI-22	Street Frontage Sidewalk Addition	Provide sidewalk at South 316th Street in front of parking lot area.
EH-SI-23	Underground Storage Tank Removal	Remove 1,000 gallon underground fuel oil storage tank that serves heating system.
EH-SI-24	Hard Surface Play Area Additions - 11,000 SF	Provide 11,000 SF of additional asphalt play area.
EH-ST-01	Classroom Shear Wall Additions	Provide interior shear walls in classroom wings in short direction, between classrooms.
EH-ST-02	Corridor Shear Transfer Additions	Provide shear transfer at steel channel in corridors.
EH-ST-04	Plywood Diaphragm Improvements	Provide roof diaphragm blocking at gym.
EH-ST-05	Veneer Wall Tie Additions	Provide concrete veneer wall tie anchors.
EH-ST-06	Wall Bracing Additions	Provide at top of partition walls between classrooms.
EH-ST-07	Mechanical Equipment Anchoring	Anchor equipment in mechanical room.
EH-EX-01	Automatic Door Opener Addition	Provide automatic door opener at front entry doors.
EH-EX-03	Clerestory Window Upgrade	Replace translucent panels at clerestory windows with insulated glass.
EH-EX-04	Exterior Door Hardware Upgrade	Replace exterior door lock cylinders with Primus cylinders.
EH-EX-07	Exterior Siding Upgrade	Replace wood siding with cement board siding.
EH-EX-11	Roof Fall Arrest Anchors Addition	Provide fall arrest system at pitched roofs.
EH-EX-13	Roof Upgrade - Shingle Replacement	Replace asphalt shingles at pitched roof with new fiberglass shingles.
EH-IN-05	Classroom Coat Rack Additions	Provide additional coat racks in classrooms.
EH-IN-08	Interior Door Hardware Upgrade	Replace interior door handles with ADA compliant lever handles.
EH-IN-10	Marker Board Additions	Provide additional 8' marker board in classrooms.
EH-IN-12	Operable Wall Replacement	Replace operable walls between kindergarten classrooms and between 309 / 310 with permanent wall.
EH-IN-13	Tackable Wall Area Addition	Provide additional tackboards or add vinyl wall covering in corridor and foyer areas.
EH-EQ-01	Computer Furniture Upgrade	Provide furniture designed for computer and other technology equipment use.

## EVERGREEN HEIGHTS ELEMENTARY SCHOOL - APPROVED FACILITY IMPROVEMENTS

Item No.	Improvement Title	Improvement Description
EH-EQ-06	Stage Curtain Replacement	Replace curtain at stage.
EH-EQ-08	Window Covering Upgrade	Replace fabric curtains and louver blinds at exterior windows with coated fabric or roller shades. Provide mini-blinds at interior relite windows.
EH-ME-01 ECM-M2	Automatic Controls Upgrade	Upgrade control system front end and software to the district standard - BacNet compatible, web based.
EH-ME-02 ECM-M6	Boiler Replacement	Replace boiler with two high efficiency condensing boilers and add a hot water circulation pump.
EH-ME-04	Ductwork Replacement	Replace ductwork throughout school.
EH-ME-05 ECM-M7R	EMS Expansion - Water Heater	Expand energy management system to the main domestic water heater.
EH-ME-07 ECM-M8	Kitchen Hood Control Addition	Connect the Alerton EMS control system to the kitchen hood.
EH-ME-08	Mechanical Cooling Addition	Provide mechanical cooling at main office area and library.
EH-ME-11 ECM-M4	Occupancy Sensor Temperature Control Addition	Install occupancy sensors in areas of fluctuating occupancy to set back the spaces when they are unoccupied.
EH-ME-12 ECM-M3	Pipe Insulation Addition	Insulate the supply and return heating water piping.
EH-ME-15 ECM-M1	TAB and Commissioning	Perform air and water testing, adjusting and balancing (TAB) on the mechanical systems. Commission the existing HVAC control system to verify proper operation.
EH-ME-19	Air Handling Fan Unit Upgrade - Re-Build Existing Unit	Rebuild existing central air handling unit, replacing fan motor and adding VFD.
EH-EL-05	Data Outlet Addition at Library	Provide 14 additional data outlets at library computer lab.
EH-EL-07 ECM-L2	Exit Sign Replacement	Replace incandescent and compact fluorescent exit signs with LED exit signs.
EH-EL-08	Exterior Lighting Level Improvements	Provide additional illumination at front entry, bus area, delivery area, and pathways.
EH-EL-10 ECM-L1	Interior Lighting Upgrade	Retrofit or replace T-12 fixtures, magnetic ballast and incandescent fixtures with T-8, electronic ballast and compact fluorescent technology.
EH-EL-13 ECM-L3	Occupancy Sensor Lighting Control Addition	Install occupancy sensor in areas with fluctuating occupancy to turn off lights when the spaces are unoccupied.
EH-MD-26	Special Education Classroom Modernization	Provide special education classroom with restroom and testing room.
EH-MD-31	Student Restroom Modernization	Modernize student restrooms, which are located in classroom foyers, to be ADA compliant with new surface finishes toilet partitions, grab bars and plumbing fixtures.
EH-MD-36	ADA Restroom Additions	Modernize conference rooms 208, 308 and 408 to provide 50 SF unisex, ADA compliant restroom in each room. Modernize health room 101 to provide a 50 SF ADA compliant restroom.
EH-MD-37	Kitchen Improvements	Provide hot food wells, combi-oven and associated electrical and gas service. Enlarge hood to accommodate combi-oven. Provide quarry tile floor, and serving window with roll-up door. Provide electrical, POS, telephone and data outlets at work desk area. Replace dishwasher. Provide epoxy paint at walls and ceilings.

# GILDO REY ELEMENTARY SCHOOL - APPROVED FACILITY IMPROVEMENTS

Item No.	Improvement Title	Improvement Description
GR-SI-13 ECM-W2	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station and add a rain gauge.
GR-SI-16	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars, directional arrows, and bus stall numbers. Provide striping at parking lot for crosswalks. Provide striping at hard surface play area for fire drill lines and one additional pickle ball court. Restripe existing lines in parking lot.
GR-SI-21	Traffic Control Sign Additions	Provide signs to designate parking stalls reserved for handicap and maintenance department use.
GR-SI-22	Underground Storage Tank Removal	Remove 5,000 gallon underground fuel oil storage tank that serves heating system.
GR-SI-24	Parking and Access Improvements - Staff / Visitors / Pick-Up & Drop Off	Modify, expand and improve staff and visitor parking and student drop off area.
GR-ST-01	Classroom Unit Wall / Low Roof Anchoring	Provide anchorage between masonry walls and low roof structure at classroom units floor framing.
GR-ST-02	Floor Framing Connection Additions	Provide floor framing connection beam/column connection points.
GR-ST-03	Gym Wall/Low Roof Anchoring	Provide anchorage between masonry walls and low roof structure for in-plane and out-of-plane loads at gym masonry wall.
GR-ST-04	Masonry Wall Reinforcing Verification	Verify reinforcing and anchorage of 4" walls at classroom units.
GR-ST-05	Masonry Confinement Plate Additions	Repair masonry cracks and confinement plates at all beam bearing locations.
GR-ST-06	Mechanical Equipment Anchoring	Anchor equipment at mechanical room.
GR-ST-07	Masonry Chimney Anchoring	Provide roof blocking and tension ties at the masonry chimney.
GR-EX-01	Automatic Door Opener Addition	Provide automatic door opener at front entry doors.
GR-EX-09	Masonry Water Repellant Application	Provide application of water repellant at exterior masonry.
GR-EX-13	Exterior Door Hardware Upgrade	Replace exterior door lock cylinders with Primus cylinders.
GR-IN-07	Interior Door Hardware Upgrade	Replace interior door handles with ADA compliant lever handles.
GR-IN-09	Kindergarten Restroom Flooring Upgrade	Replace vinyl tile in Kindergarten restrooms with sheet vinyl.
GR-IN-10	Restroom Flooring Improvements	Replace areas of damaged ceramic floor tile in restrooms.
GR-EQ-01	Computer Furniture Upgrade	Provide furniture designed for computer and other technology equipment use.
GR-EQ-04	Gym Basketball Backboard Upgrade	Add two fixed basketball backboards at side courts and replace one fixed backboard at main court with a retractable backboard.
GR-EQ-09	Window Covering Upgrade	Replace fabric curtains at exterior windows with coated fabric or roller shades. Provide mini-blinds at interior relite windows.
GR-ME-01 ECM-M2	Automatic Controls Upgrade	Upgrade control system front end and software to the district standard - BacNet compatible, web based.
GR-ME-04 ECM-M3	CO2 Control Addition - Classrooms	Expand Barber Coleman control system to add CO2 control to the main air handling systems at the classroom units.
GR-ME-05 ECM-M4	CO2 Control Addition - Gym & Library	Expand Barber Coleman control system to add CO2 control to the main air handling systems in the gym and library.
GR-ME-07	Mechanical Cooling Addition	Provide mechanical cooling at main office area and library.
GR-ME-09 ECM-M5	Occupancy Sensor Temperature Control Addition	Install occupancy sensors in gym and library to set back the spaces when they are unoccupied.
GR-ME-12 ECM-M1	TAB and Commissioning	Perform air and water testing, adjusting and balancing (TAB) on the mechanical systems. Commission the existing HVAC control system to verify proper operation.
GR-ME-13 ECM-M6	VFD Addition - Air Handling Systems	Install variable frequency drives on the main air handling systems to modulate airflow based on occupancy sensors and space temperature demand.
GR-ME-14 ECM-M8	VFD Addition - Hot Water Pump	Install variable frequency drives on the main heating water circulation pump. Convert the existing three-way valving to two-way valving and modulate flow based on system demand.
GR-ME-15 ECM-M7	VAV Air Handling System Upgrade	Install automated volume control dampers in the individual VAV reheat zones to modulate airflow to the occupied spaces based on space temperature and ventilation demand.
GR-EL -04 ECM-L4	Daylighting Control Addition	Add day lighting control to the fixtures in the gym foyer.

## GILDO REY ELEMENTARY SCHOOL - APPROVED FACILITY IMPROVEMENTS

Item No.	Improvement Title	Improvement Description
GR-EL-07	Electrical Outlet Additions	Provide additional electrical outlets in library at computer lab area.
GR-EL-09 ECM-L2	Exit Sign Replacement	Replace incandescent and compact fluorescent exit signs with LED exit signs.
GR-EL-10	Exterior Lighting Level Improvements	Provide additional illumination at front entry, bus area, delivery area, parking lots and pathways.
GR-EL-13 ECM-L1	Interior Lighting Upgrade	Retrofit or replace T-12 fixtures, magnetic ballast and incandescent fixtures with T-8, electronic ballast and compact fluorescent technology.
GR-EL-16 ECM-L3	Occupancy Sensor Lighting Control Addition	Install occupancy sensor in areas with fluctuating occupancy to turn off lights when the spaces are unoccupied.
GR-MD-09	Itinerant Office Addition	Provide office for itinerant staff.
GR-MD-14	OT / PT Room Addition	Provide OT / PT room.
GR-MD-18	Special Education Classroom Addition	Provide special education classroom with restroom and testing room.
GR-MD-27	Kitchen and Serving Area Improvements	Provide weather protected serving area at north side of kitchen. Provide serving window with roll up door and hot food wells at north wall that opens to weather protected serving area. Relocate existing equipment to accommodate new serving window. Provide combi-oven, two-burner cook top and associated electrical and gas service. Enlarge hood to accommodate combi-oven and cook top. Provide quarry tile floor, and electrical, POS, telephone and data outlets at work desk area. Replace dishwasher, steamer and kettle. Provide epoxy paint at walls and ceilings.
GR-MD-30	Student Restroom Improvements	Replace washbasins and provide new cove base in student restrooms.

# HAZELWOOD ELEMENTARY SCHOOL - APPROVED FACILITY IMPROVEMENTS

Item No.	Improvement Title	Improvement Description
HW-SI-02	Asphalt Play Area Repair	Fill and patch limited areas of asphalt settlement at hard surface play area.
HW-SI-08	Curb Ramp Additions	Provide curb ramps at two locations at SE 304th St.
HW-SI-11 ECM-W2	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station and add a rain gauge.
HW-SI-13	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars, directional arrows, and bus stall numbers. Provide striping for bus stalls.
HW-EX-01	Automatic Door Opener Addition	Provide automatic door opener at front entry doors.
HW-EX-02	Exterior Door Hardware Upgrade	Replace exterior door lock cylinders with Primus cylinders.
HW-EX-05	Masonry Repair	Repair areas of deteriorated masonry at site sign, dumpster enclosure, and at masonry seat walls at playground.
HW-EX-06	Masonry Water Repellant Application	Provide application of water repellant at exterior masonry.
HW-EX-07	Roof Fall Arrest Anchors Addition	Provide fall arrest system at roof.
HW-EX-09	Roof Upgrade - Shingles	Replace shingle roof with fiberglass composition shingles.
HW-IN-03	Corridor Vinyl Wall Covering Addition	Provide additional vinyl wall covering in corridors for additional tackable display area.
HW-EQ-01	Computer Furniture Upgrade	Provide furniture designed for computer and other technology equipment use.
HW-EQ-04	Kitchen Equipment Improvements	Provide a combi oven and replace convection oven.
HW-EQ-07	Staff Furniture Upgrade	Replace staff furniture in classrooms, library and offices.
HW-EQ-09	Window Covering Upgrade	Replace fabric curtains at exterior windows with coated fabric or roller shades.
HW-ME-01 ECM-M2	Automatic Controls Upgrade	Upgrade the EMS control system to be BacNet compatible, web based and include new software, new field controllers, and a new front end computer. Upgrade software to include a proper dead band for the gym air handler so that the unit doesn't fluctuate from heating to cooling, and add new VAV controllers.
HW-ME-02 ECM-M3	CO2 Control Addition - Gym & Library	Expand the control system to add CO2 control to the main air handling systems serving the gym, library and foyer.
HW-ME-03 ECM-M14	Gym Diffuser Replacement	Replace diffusers in gym with a product that will improve airflow and reduce stratification.
HW-ME-04 ECM-M7	Heat Pump Replacement - Boilers	Replace heat pumps with new boilers.
HW-ME-06 ECM-M10	Hot Water Heater Replacement	Replace the electric hot water heaters with new heat pump water heaters.
HW-ME-08 ECM-M1	HVAC Control System Commissioning	Commission the HVAC control system to verify proper operation.
HW-ME-09 ECM-M12	Kitchen Hood Air Flow Modification	Modify the kitchen hood and make-up airflow to properly size the airflow requirements of the hood.
HW-ME-10 ECM-M11	Kitchen Hood Interlock Modification	Modify the interlock between the makeup air handler and kitchen hood to disable the interlock when the hood is off.
HW-ME-12 ECM-M4	Occupancy Sensor Temperature Control Addition	Install occupancy sensors in gym, library and foyer to set back the spaces when they are unoccupied.
HW-ME-14 ECM-W1	Plumbing Fixture Replacement - Partial	Replace water closets and provide aerators for sinks.
HW-ME-15 ECM-M5	VSD Addition - Gym	Provide variable speed drive on the Gym air handler.
HW-ME-16 ECM-M9	VSD Addition - Hot Water Pumps	Provide variable speed drives on hot water heating pumps.
HW-ME-17 ECM-M6	VSD Addition - VAV Air Handlers	Provide variable speed drives on all VAV air handlers serving classrooms and offices, and replace inlet vanes.
HW-EL-07 ECM-L2	Exit Sign Replacement	Replace incandescent and compact fluorescent exit signs with LED exit signs.
HW-EL-08 ECM-L4	Exterior Lighting Control Upgrade	Connect exterior lighting to the EMS controls and add a photocell.
HW-EL-10 ECM-L3	Exterior Lighting Upgrade	Replace exterior HID fixtures with compact fluorescent. Replace parking lot lights with pulse start metal halide or inductive lighting.

## HAZELWOOD ELEMENTARY SCHOOL - APPROVED FACILITY IMPROVEMENTS

Item No.	Improvement Title	Improvement Description
HW-EL-11 ECM-L5	Gym Lighting Replacement	Replace HID fixtures in the gym with fixtures using T-8 or T-5 technology.
HW-EL-13 ECM-L1	Interior Lighting Upgrade	Replace T-12 fixtures, magnetic ballast and incandescent fixtures with T-8, electronic ballast and compact fluorescent technology.
HW-EL-16 ECM-L6	Occupancy Sensor Lighting Control Addition	Install occupancy sensor in areas with fluctuating occupancy to turn off lights when the spaces are unoccupied.
HW-MD-04	Health Room Restroom Modernization	Provide larger restroom in health area that is ADA compliant.
HW-MD-05	Itinerant Office Addition	Provide office for itinerant staff.
HW-MD-15	Special Education Restroom Expansion	Provide larger restroom in special education classroom.
HW-MD-17	Stage Access Improvement	Provide wheelchair access to stage from within building.

# ILALKO ELEMENTARY SCHOOL - APPROVED FACILITY IMPROVEMENTS

Item No.	Improvement Title	Improvement Description
IL-SI-01	Accessible Parking Stall Additions	Change 3 standard parking stalls to 2 handicap stalls and one van accessible stall. Add signage designating handicap parking stalls.
IL-SI-07	Curb Ramp Additions	Provide curb ramps at sidewalks at east and west entry drives, and west cul de sac.
IL-SI-10 ECM-W2	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station and add a rain gauge.
IL-SI-14	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars, directional arrows, and bus stall numbers. Repaint other pavement lines.
IL-EX-01	Automatic Door Opener Addition	Provide automatic door opener at front entry doors.
IL-EX-02	Exterior Door Hardware Upgrade	Replace exterior door lock cylinders with Primus cylinders.
IL-EX-05	Masonry Water Repellant Application	Provide application of water repellant at exterior masonry.
IL-EX-06	Roof Fall Arrest Anchors Addition	Provide fall arrest system at roof.
IL-EX-08	Roof Upgrade - Shingles	Replace shingle roof with new fiberglass composition shingles.
IL-IN-03	Corridor Vinyl Wall Covering Addition	Provide additional vinyl wall covering in corridors for additional tackable display area.
IL-IN-06	Public Restroom Grab Bar Additions	Provide ADA compliant grab bars at public restrooms 114 and 115.
IL-IN-07	Staff Restroom Improvements	Modify toilet partitions to provide ADA clearances and add ADA compliant grab bars at staff restrooms 131 and 132.
IL-IN-08	Student Restroom Grab Bar Additions	Provide ADA compliant grab bars at student restrooms 308, 309, 407 and 408.
IL-EQ-03	Kitchen Equipment Improvements	Provide a combi oven and replace convection oven.
IL-ME-01 ECM-M2	Automatic Controls Upgrade	Upgrade control system front end and software to the district standard - BacNet compatible, web based.
IL-ME-02 ECM-M3	CO2 Control Addition	Expand Barber Coleman control system to add CO2 control to the main air handling systems in the gym and library.
IL-ME-04 ECM-M1	HVAC Control System Commissioning	Commission the HVAC control system to verify proper operation.
IL-ME-06 ECM-M5	Occupancy Sensor Temperature Control Addition - Classrooms	Install occupancy sensors in classrooms to set back the spaces when they are unoccupied.
IL-ME-08 ECM-M4	Occupancy Sensor Temperature Control Addition - Gym & Library	Install occupancy sensors in gym and library to set back the spaces when they are unoccupied.
IL-ME-09 ECM-M6	VSD Addition - Classrooms	Provide variable speed drive on air handler serving classrooms and replace inlet vanes.
IL-ME-10 ECM-W1	Plumbing Fixture Replacement - Partial	Replace water closets and provide aerators for sinks.
IL-EL-05 ECM-L3	Daylighting Control Addition	Add day lighting control to the fixtures in areas where sufficient ambient light is available.
IL-EL-09 ECM-L1	Interior Lighting Upgrade	Replace T-12 fixtures, magnetic ballast and incandescent fixtures with T-8, electronic ballast and compact fluorescent technology.
IL-EL-12 ECM-L2	Occupancy Sensor Lighting Control Addition	Install occupancy sensor in areas with fluctuating occupancy to turn off lights when the spaces are unoccupied.



# LAKE VIEW ELEMENTARY SCHOOL - APPROVED FACILITY IMPROVEMENTS

Item No.	Improvement Title	Improvement Description
LV-SI-08	Curb Ramp Additions	Provide curb ramps at sidewalks at bus loading area, main entry, and at driveway crosswalk to main building entry.
LV-SI-13	Irrigation System Pump Replacement	Replace irrigation system pump and controls.
LV-SI-15	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars, and directional arrows. Provide striping for pickle ball courts, basketball court in playshed, and full basketball court at asphalt play area.
LV-SI-24	Traffic Control Sign Additions	Provide additional signs for bus loading and delivery areas.
LV-SI-25	Bus Loading and Parking Improvements	Increase width of bus loading area to accommodate angle bus parking. Provide additional vehicle parking in area north of bus loading area. Modify and expand west parking area to provide 8 to 10 visitor parking stalls and improved pick up and drop off area.
LV-EX-01	Automatic Door Opener Addition	Provide automatic door opener at front entry doors.
LV-EX-02	Exterior Door Hardware Upgrade	Replace exterior door lock cylinders with Primus cylinders.
LV-EX-03	Exterior Louver Upgrade	Replace existing wood louvers at building exterior with prefinished metal louvers.
LV-EX-06	Masonry Water Repellant Application	Provide application of water repellant at exterior masonry.
LV-EX-07	Roof Fall Arrest Anchors Addition	Provide fall arrest system at pitched roof areas.
LV-EX-10	Wood Siding Upgrade	Replace wood siding at gym, playshed and gable ends of roof with cement board or prefinished metal siding.
LV-EX-11	Roof Upgrade - Shingles	Replace shingle roof and sheathing with fiberglass composition shingles and new sheathing. Replace roof curb drainage system with prefinished metal gutters.
LV-IN-03	Classroom Restroom Flooring Upgrade	Provide seamless flooring or ceramic tile in classroom restrooms.
LV-IN-04	Corridor Vinyl Wall Covering Addition	Provide vinyl wall covering in corridors for additional tackable display area.
LV-EQ-01	Building Staff Furniture Upgrade	Replace staff furniture in classrooms, library and offices.
LV-EQ-08	Window Covering Upgrade	Replace fabric curtains at exterior windows with coated fabric or roller shades.
LV-ME-01 ECM-M2	Automatic Controls Upgrade	Upgrade the control system front end equipment and software to the district standard - BacNet compatible, web based.
LV-ME-02	Classroom Restroom Exhaust Fan Additions	Provide exhaust fans at classroom restrooms.
LV-ME-03 ECM-M3	CO2 Control Addition	Expand Barber Coleman control system to add CO2 control to the main air handling systems in classroom units, commons, gym and library.
LV-ME-04 ECM-M6	Domestic Water Heater Control Addition	Provide staging controls for the domestic water heater. to minimize demand charges.
LV-ME-08 ECM-M1	HVAC Control System Commissioning	Commission the HVAC control system to verify proper operation.
LV-ME-09	Mechanical Cooling Addition	Provide mechanical cooling at main office area and library.
LV-ME-10 ECM-M4	Occupancy Sensor Temperature Control Addition	Install occupancy sensors in gym and library to set back the spaces when they are unoccupied.
LV-ME-11 ECM-W1	Water System Retrofit	Provide aerators at sink faucets.
LV-ME-13	Wash Basin Upgrade	Replace hand wash basins in corridors with new water efficient models.
LV-EL-09 ECM-L1	Interior Lighting Upgrade	Retrofit or replace T-12 fixtures, magnetic ballast and incandescent fixtures with T-8, electronic ballast and compact fluorescent technology.
LV-EL-12 ECM-L2	Occupancy Sensor Lighting Control Addition	Install occupancy sensor in areas with fluctuating occupancy to turn off lights when the spaces are unoccupied.
LV-MD-21	Pre-School Classroom Modifications	Modernize and expand restroom 201A to be an ADA compliant restroom with changing table.
LV-MD-22	Public Restroom Modernization	Modify public restrooms 107 and 108 to remove showers, improve finishes, and provide ADA compliant grab bars.
LV-MD-24	Special Education Classroom Modernization	Modernize and expand restroom 301A to be an ADA compliant restroom with changing table.
LV-MD-29	Telecommunication Rooms Modernization	Provide dedicated MC and HC rooms each with independent mechanical ventilation and cooling systems.

## LAKE VIEW ELEMENTARY SCHOOL - APPROVED FACILITY IMPROVEMENTS

Item No.	Improvement Title	Improvement Description
LV-MD-34	Library Screen Wall Improvements	Provide a partial height, 72" high wall with vinyl wall covering and wood trim cap between the library and corridors 041, 042 and 043.
LV-MD-35	Health Restroom Improvements	Expand and modernize health restroom within existing health area to provide ADA compliant restroom with exhaust fan.
LV-MD-36	Kitchen Improvements	Provide two-burner cooktop, combi-oven and associated electrical and gas service. Enlarge hood to accommodate cooktop and combi-oven. Provide electrical, POS and data outlets at work desk area. Replace dishwasher, convection ovens, steamer and kettle. Provide quarry tile floor and epoxy paint at walls and ceilings.

## LEA HILL ELEMENTARY SCHOOL - APPROVED FACILITY IMPROVEMENTS

Item No.	Improvement Title	Improvement Description
LH-SI-01	Accessible Parking Stall Addition	Change one standard parking stalls to a handicap accessible stall and add associated signage.
LH-SI-10	Curb Ramp Addition	Provide curb ramp is sidewalk at front entry to building.
LH-SI-20	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars, directional arrows, and bus stall numbers. Provide striping at exterior basketball court, playshed, and box hockey games.

## PIONEER ELEMENTARY SCHOOL - APPROVED FACILITY IMPROVEMENTS

Item No.	Improvement Title	Improvement Description
PI-SI-08	Curb Ramp Addition	Provide curb ramp at sidewalk where crosswalk occurs at M Street.
PI-SI-16	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars, and directional arrows. Provide striping at exterior basketball court and box hockey games.
PI-IN-09	Interior Door Hardware Upgrade	Replace interior door handles with ADA compliant lever handles at 9 doors.

## TERMINAL PARK ELEMENTARY SCHOOL - APPROVED FACILITY IMPROVEMENTS

Item No.	Improvement Title	Improvement Description
TP-SI-09	Curb Ramp Addition	Provide curb ramp at sidewalk at bus loading area.
TP-SI-17	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars, and directional arrows. Provide restriping at all other pavement markings at parking lot. Provide striping for basketball court and box hockey games at hard surface play area.
TP-SI-26	Traffic Control Sign Additions	Provide signs for bus loading and delivery areas.

## WASHINGTON ELEMENTARY SCHOOL - APPROVED FACILITY IMPROVEMENTS

Item No.	Improvement Title	Improvement Description
WA-SI-12 ECM-W2 ECM-M6	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station and add a rain gauge.
WA-SI-14	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars, directional arrows, and bus stall numbers. Add striping for bus stalls, basketball court in playshed, one pickleball court, and one more box hockey game. Restripe all existing painted pavement markings.
WA-SI-17	Traffic Signage Improvements	Provide signage to designate visitor parking stalls and student drop off and pick up area.
WA-EQ-03	Gym Basketball Backboard Addition	Provide 4 additional backboards at sidewalls in gym.
WA-ME-01 ECM-M2	Automatic Controls Upgrade	Upgrade the control system front end equipment and software to the district standard - BacNet compatible, web based.
WA-ME-02 ECM-M3	CO2 Control Addition	Expand Alerton control system to add CO2 control to the main air handling systems in the gym and library.
WA-ME-05 ECM-M5	Heat Pump Addition	Provide new rooftop heat pumps for the gymnasium classrooms.
WA-ME-07 ECM-M4	Occupancy Sensor Temperature Control Addition	Install occupancy sensors in gym and library to set back the spaces when they are unoccupied.
WA-ME-08 ECM-M1	TAB and Commissioning	Perform air and water testing, adjusting and balancing (TAB) on the mechanical systems. Commission the existing HVAC control system to verify proper operation.
WA-ME-09 ECM-W1	Plumbing Fixture Retrofit Review	Review water saving opportunities including retrofit or replacement of sinks, urinals and water closets.
WA-EL-05 ECM-L2	Exit Sign Replacement	Replace incandescent and compact fluorescent exit signs with LED exit signs.
WA-EL-06	Exterior Lighting Level Improvements	Provide additional illumination at front entry, bus area, delivery area, parking lots and pathways.
WA-EL-09 ECM-L1	Interior Lighting Upgrade	Retrofit or replace T-12 fixtures, magnetic ballast and incandescent fixtures with T-8, electronic ballast and compact fluorescent technology.

# CASCADE MIDDLE SCHOOL - APPROVED FACILITY IMPROVEMENTS

Item No.	Improvement Title	Improvement Description
CA-SI-01	Accessible Parking Stall Additions	Change 3 standard parking stalls to 2 handicap stalls at north parking lot. Add signage designating handicap parking stalls.
CA-SI-07	Baseball and Softball Infield Improvements	Add and regrade soil at baseball and softball infields. Add clay block soil amendment to baseball field's pitcher's mound and batter's box.
CA-SI-09	Cinder Track Upgrade	Add cinders and regrade running track.
CA-SI-10	Courtyard Slab Improvement	Replace wood trim expansion joints at courtyard concrete slab.
CA-SI-11	Curb Ramp Additions	Provide curb ramp at sidewalk at front entrance and at north parking lot.
CA-SI-12	Curb Repair	Replace sections of broken curb.
CA-SI-21	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station.
CA-SI-23	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars, directional arrows, and bus stall numbers. Restripe all existing painted pavement markings at parking lots. Add thermo-plastic markings at for cross-walks at entry driveways and at staff parking lot at north side of school. Restripe game lines at outdoor play area.
CA-SI-29	Underground Storage Tank Removal	Remove underground 1,000 gallon starter and 10,000 gallon primary fuel oil storage tank that serves heating system.
CA-SI-34	Tennis Court Fence Removal	Remove chainlink fence and posts at tennis courts.
CA-SI-35	Baseball and Softball Outfield Turf Improvements	Aerate, top dress and overseed grass turf baseball and softball outfields.
CA-SI-36	Baseball and Softball Field Backstop Improvements	Install full chainlink hood at baseball backstop. Replace softball backstop with new cone-type backstop and chainlink wing sections each 60' long and 10' high plus dugout fencing.
CA-ST-01	Masonry Wall / Roof Anchoring	Provide anchorage between masonry walls and the low roof structure at 500 Unit.
CA-ST-02	AHIC Plywood Sheathing Addition	Remove existing finishes, provide plywood sheathing and new finishes under the attic east of Room 511.
CA-ST-03	Roof Diaphragm Connection Addition	Provide connection at the roof diaphragm joint between the original roof structure and the 1988 addition.
CA-ST-04	Masonry Chimney Anchoring	Provide roof blocking and tension ties into the masonry chimney.
CA-ST-05	Commons Column Reinforcement Repair	Repair exposed reinforcing at Commons.
CA-ST-06	Mechanical Equipment Anchoring	Anchor equipment at mechanical room.
CA-ST-07	Gym Column Reinforcement Repair	Repair exposed reinforcing at concrete column at south side of gym.
CA-ST-08	Concrete Column Grout Repair	Repair grout at top of concrete columns and under beam bearing plates.
CA-EX-01	Automatic Door Opener Addition	Provide automatic door opener at front entry doors.
CA-EX-08	Masonry Water Repellant Application	Provide application of water repellant at exterior masonry.
CA-IN-03	Carpet Replacement	Replace carpet in 100 unit.
CA-IN-04	Ceiling Repairs	Repair or replace areas of damaged ceiling tile in 500 unit.
CA-IN-09	Field House Cabinet Addition	Provide locking storage cabinets in field house.
CA-IN-10	Interior Door Hardware Upgrade	Replace interior door handles with ADA compliant lever handles.
CA-IN-15	PE Storage Cabinet Addition	Provide additional storage cabinets in PE storage room.
CA-EQ-01	Classroom Furniture Upgrade	Replace teacher and student furniture in classrooms.
CA-EQ-02	Computer Furniture Upgrade	Provide furniture designed for computer and other technology equipment use.
CA-EQ-05	Gymnastics Vault Table Addition	Provide gymnastics vault training table.
CA-EQ-07	Office and Workroom Furniture Upgrade	Replace office and workroom furniture.

# CASCADE MIDDLE SCHOOL - APPROVED FACILITY IMPROVEMENTS

Item No.	Improvement Title	Improvement Description
CA-EQ-10	Wrestling Mat Holder Addition	Provide mat holders and associated electrical power and control in auxiliary gym to hang wrestling mats from ceiling.
CA-ME-01	Art Room Eye Wash Addition	Provide eye wash in art room area.
CA-ME-02 ECM-M5	Automatic Controls Upgrade	Upgrade control system front end and software to the district standard - BacNet compatible, web based.
CA-ME-04	Circulation Pump Replacement	Replace circulation pumps for hot water heating system.
CA-ME-05	Classroom HVAC Improvements	Improve HVAC system at interior classrooms in 300 and 400 units.
CA-ME-06 ECM-M4	CO2 Control Addition - 100 / 200 / 500 Units	Expand control system to add CO2 control to the main air handling systems in commons, gym and stage, industrial technology lab and library.
CA-ME-07 EMC-M10	Dishwasher Booster Heater Replacement	Resize and replace the dishwasher booster heater.
CA-ME-08	Drinking Fountain Replacement	Replace non-operable drinking fountains in 300 and 400 units and in commons.
CA-ME-10	Drying Room Heat and Ventilation Upgrade	Provide improved heating and ventilation system for drying room with a bypass timer and controls connected to EMS.
CA-ME-13 EMC-M7	Hot Water Piping Insulation	Insulate the supply and return heating water piping.
CA-ME-14 EMC-M6	Locker Room Air Handler Improvement	Provide a runaround heat recovery loop for locker room air handlers.
CA-ME-15	Mechanical Cooling Addition	Provide mechanical cooling at main office area and library.
CA-ME-17 EMC-M2	Occupancy Sensor Temperature Control Addition - Classrooms	Expand control system to add occupancy sensor control to the VAV boxes serving in classrooms.
CA-ME-18 EMC-M3	Occupancy Sensor Temperature Control Addition - Non-Classroom Areas	Expand control system to add occupancy sensor control to the VAV boxes serving commons, gym and stage, library, locker rooms, and music rooms.
CA-ME-20 ECM-W1	Plumbing Fixture Replacement - Partial	Replace water closets and provide aerators for sinks.
CA-ME-21 ECM-M8	Stack Dampers Linkage Reconnection	Reconnect the stack dampers on the heating water boiler to shut off air through the stack when the boiler is not firing.
CA-ME-22 ECM-M1	TAB and Commissioning	Perform air and water testing, adjusting and balancing (TAB) on the mechanical systems. Commission the existing HVAC control system to verify proper operation.
CA-ME-23	Telecommunication Rooms Cooling and Ventilation Addition	Provide independent mechanical ventilation and cooling system in existing MC room and HC rooms.
CA-ME-26	CO2 Control Addition - Library	Expand control system to add CO2 control to the main air handling system in library.
CA-EL-08	Data Outlet Addition at Library	Provide 18 additional data outlets in library at student computer stations.
CA-EL-09	Emergency Generator Replacement	Replace emergency generator and transfer switch.
CA-EL-10 ECM-L4	Exit Sign Replacement	Replace incandescent and compact fluorescent exit signs with new LED exit signs.
CA-EL-11	Exterior Lighting Level Improvements	Provide additional illumination at front entry, bus area, delivery area, pathways, and the north and east parking lots.
CA-EL-13 ECM-L2	Main Gym Lighting Replacement	Replace HID fixtures in the main gym with new fixtures using T-8 or T-5 technology.
CA-EL-15 ECM-L1	Interior Lighting Upgrade	Retrofit or replace T-12 fixtures, magnetic ballast and incandescent fixtures with T-8, electronic ballast and compact fluorescent technology.
CA-EL-18	Library Electrical Outlet Additions	Provide 4 electrical outlets at search stations and 18 additional electrical outlets at student computer stations in library.
CA-EL-19 ECM-L3	Occupancy Sensor Lighting Control Addition	Provide occupancy sensor in areas with fluctuating occupancy to turn off lights when the spaces are unoccupied.
CA-MD-11	Foods Classroom Modernization	Expand and modernized foods classroom to provide 8 cooking stations.
CA-MD-15	Industrial Technology Modernization	Modernize industrial technology classroom and lab.
CA-MD-23	Locker Room Locker Additions	Provide additional lockers in boy's and girl's locker rooms.
CA-MD-24	Locker Room Restroom Addition	Provide restrooms that are directly accessible from locker rooms with additional toilet fixtures and ADA compliant.
CA-MD-26	Music Office Improvements	Provide interior window between music office and band and orchestra rooms.



## CASCADE MIDDLE SCHOOL - APPROVED FACILITY IMPROVEMENTS

Item No.	Improvement Title	Improvement Description
CA-MD-32	Public Restroom Addition	Convert locker room restrooms to public restrooms that are ADA compliant.
CA-MD-34	Special Education Classroom Addition	Provide special education classroom that includes a testing room and ADA compliant restroom.
CA-MD-38	Structured Learning Classroom Addition	Provide classroom for structured learning that includes ADA compliant restroom, shower, changing area and testing room.
CA-MD-43	Visual Communications Classroom Addition	Provide a visual communications classroom.
CA-MD-50	Auxiliary Gym Improvements	Modernize auxiliary gym by providing 6 side-swing basketball backboards, wall mats below backboards, game line striping on floor, scoreboard and control panel, and new light fixtures. Paint walls and ceiling, and replace operable wall with motorized divider curtain.
CA-MD-51	Kitchen Improvements	Provide combi-oven and associated electrical and gas service. Enlarge hood to accommodate combi-oven. Replace dishwasher, reach-in coolers, steamer and kettle. Replace existing 110 SF walk-in cooler / freezer with new 160 SF walk-in cooler / freezer that utilizes a portion of the existing storage room 211A. Provide quarry tile floor and epoxy paint at walls and ceilings.
CA-MD-52	Kitchen Serving Area Improvement	Provide a third line for serving lunch.

## MT. BAKER MIDDLE SCHOOL - APPROVED FACILITY IMPROVEMENTS

Item No.	Improvement Title	Improvement Description
MB-SI-02	Baseball and Softball Backstop Upgrade	Increase height of backstop fencing and extend fencing along baselines at two fields that are adjacent to streets and neighboring property.
MB-SI-03	Baseball and Softball Bullpen Additions	Provide chainlink bullpens enclosures at baseball and softball fields.
MB-SI-07	Cinder Track Upgrade	Add cinders and regrade running track.
MB-SI-08	Curb Ramp Additions	Provide curb ramps at sidewalks at on-site cross walks, front entry, and building entries at east parking lot.
MB-SI-17 ECM-W2	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station.
MB-SI-18	Long Jump Runway Upgrade	Improve drainage and rebuild long jump runway and take-off boards.
MB-SI-19	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars, directional arrows, and bus stall numbers. Provide painted lines at bus stalls. Restripe pickleball courts, basketball courts, cross-walks and parking stall lines.
MB-SI-22	Sidewalk Improvements	Repair damaged section of sidewalk at building entry near classroom 204 and add crown in sidewalk to improve surface drainage.
MB-SI-25	Baseball & Softball Infield Clayblock Additions	Provide clay block at baseball and softball field pitcher's mound and homeplate.
MB-EX-01	Automatic Door Opener Addition - Main Entrance	Provide automatic door opener at main entrance.
MB-EX-02	Exterior Door Hardware Upgrade	Replace exterior door lock cylinders with Primus cylinders.
MB-EX-05	Masonry Water Repellant Application	Provide application of water repellant at exterior masonry.
MB-EQ-01	ADA Grab Bar Additions	Provide ADA compliant grab bars at toilet stalls in health, staff and student restrooms.
MB-EQ-08	Kitchen Equipment Upgrade	Provide combi oven and replace convection ovens and dishwasher in kitchen.
MB-EQ-13	Volleyball Standards Replacement	Replace volleyball post standards.
MB-ME-01 ECM-M7	Airflow Improvements	Rebalance mechanical units serving the computer room.
MB-ME-02	Art Room Eye Wash Addition	Provide eye wash in art room area.
MB-ME-04 ECM-M4	CO2 Control Addition	Expand control system to add CO2 control to the main air handling systems in commons, gym, library, music room, and stage.
MB-ME-05 ECM-M8	Expansion Tank Addition	Add expansion tank to hot water heating system.
MB-ME-07 ECM-M9	Gym Variable Speed Drive Addition	Provide a variable speed drive on the gym air handling units to reduce airflow during periods of low or no occupancy, as determined by the CO2 and occupancy sensors.
MB-ME-08	Heating Water Circulation Pump Replacement	Replace heating water circulation pumps.
MB-ME-09 ECM-M5	Kiln Hood Damper Addition	Provide a damper on the kiln exhaust system and interlock it to the kiln operation.
MB-ME-10 EMC-M6	Locker Room Air Handler Improvement	Provide a runaround heat recovery loop for locker room air handlers.
MB-ME-12 EMC-M2	Occupancy Sensor Temperature Control Addition - Classrooms	Expand control system to add occupancy sensor control to the VAV boxes serving in classrooms.
MB-ME-13 EMC-M3	Occupancy Sensor Temperature Control Addition	Expand control system to add occupancy sensor temperature control the VAV boxes and air handling units serving the to the commons, drama area, gym, library, locker rooms, music rooms and stage.
MB-ME-14 ECM-W1	Plumbing Fixture Retrofit Review	Review water saving opportunities including retrofit or replacement of sinks, urinals and water closets.
MB-ME-15	Pressure Relief Damper Upgrade	Modify pressure relief dampers at classroom relief air vents.
MB-ME-16 ECM-M1	TAB and Commissioning	Perform air and water testing, adjusting and balancing (TAB) on the mechanical systems. Commission the existing HVAC control system to verify proper operation. Provide sequence modifications to the discharge air reset strategy to incorporate space conditions into the logic.
MB-ME-17	Telecommunication Rooms Cooling and Ventilation Addition	Provide independent mechanical ventilation and cooling system in existing MC room and HC rooms.
MB-EL-09 ECM-L2	Exterior Lighting Upgrade	Replace HID fixtures on the exterior of the building with compact fluorescent. Retrofit parking lot lights with pulse start metal halide or inductive lighting.

## MT. BAKER MIDDLE SCHOOL - APPROVED FACILITY IMPROVEMENTS

Item No.	Improvement Title	Improvement Description
MB-EL-11 ECM-L3	HID Lighting Replacement	Replace HID fixtures in the gym, foyer, commons, and corridors with new fixtures using T-8 or T-5 technology.
MB-EL-13 ECM-L1	Interior Lighting Upgrade	Retrofit 3-lamp T-8 fixtures in library and classrooms with 2-lamp fixtures with reflectors.
MB-EL-16	Library Data and Electrical Outlet Additions	Provide 20 additional data and electrical outlets in library for student computers.
MB-EL-17 ECM-L4	Occupancy Sensor Lighting Control Addition	Provide occupancy sensor in areas with fluctuating occupancy to turn off lights when the spaces are unoccupied.
MB-MD-04	Kitchen Serving Area Improvement	Provide a third line for serving lunch.

# RAINIER MIDDLE SCHOOL - APPROVED FACILITY IMPROVEMENTS

Item No.	Improvement Title	Improvement Description
RA-SI-01	Accessible Parking Stall Additions	Change 3 standard parking stalls to one handicap stall and two van accessible stalls. Add signage designating handicap parking stalls at these three locations.
RA-SI-12	Cinder Track Upgrade	Add cinders and regrade running track.
RA-SI-19 ECM-W2	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station.
RA-SI-20	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars, directional arrows, and bus stall numbers. Add thermo-plastic directional arrows at west parking lot. Provide painting lines at bus stalls and courtyard basketball courts. Restripe pickleball court lines.
RA-SI-26	Traffic Control Sign Additions	Provide traffic control signs at west parking lot.
RA-SI-28	Baseball & Softball Infield Clayblock Additions	Provide clay block at baseball and softball field pitcher's mound and homeplate.
RA-EX-01	Automatic Door Opener Addition - Main Entrance	Provide automatic door opener at main entrance.
RA-EX-03	Exterior Door Hardware Upgrade	Replace exterior door lock cylinders with Primus cylinders.
RA-EX-06	Masonry Water Repellant Application	Provide application of water repellant at exterior masonry.
RA-EX-07	Roof Replacement - Shingles	Replace composition shingles.
RA-EX-09	Roof Fall Arrest Anchors Addition	Provide fall arrest system at roof.
RA-IN-02	Carpet Replacement	Replace carpet in main office area, computer classrooms and library.
RA-IN-03	Classroom Tackboard Additions	Provide additional tackboards in classrooms.
RA-IN-05	Coiling Door Modifications	Connect coiling fire doors at kitchen and industrial technology to local smoke detector for activation.
RA-IN-07	Door Hardware Upgrade	Replace 28 door handles with ADA compliant lever handles.
RA-EQ-01	Classroom Furniture Addition	Provide additional classroom furniture for students.
RA-EQ-02	Computer Furniture Upgrade	Provide furniture designed for computer and other technology equipment use.
RA-EQ-04	Foods Classroom Equipment Replacement	Replace range / ovens and microwave ovens at student stations in foods classroom.
RA-EQ-05	Gym Volleyball Post Addition	Provide power volleyball posts and nets for use at main court in main gym.
RA-EQ-08	Kitchen Equipment Upgrade	Provide combi oven and replace convection ovens and dishwasher in kitchen.
RA-ME-01 ECM-M12	Art Room Storage Return Air Addition	Provide a return air grille at the art room storage area.
RA-ME-02 ECM-M2	Automatic Controls Upgrade	Upgrade control system front end and software to the district standard - BacNet compatible, web based.
RA-ME-03 ECM-M9	Boiler and Hot Water Heater Demand Limiting Addition	Provide controls at the heating boilers and domestic water heaters to take over step control of the heating elements with the EMS to reduce electrical demand charges.
RA-ME-04 ECM-M3	CO2 Control Addition	Expand control system to add CO2 control to the main air handling systems in commons, gym and library.
RA-ME-05 ECM-M10	Electric Hot Water Heater Replacement	Replace electric hot water heaters with heat pump water heaters
RA-ME-07 ECM-M5	Gym Variable Speed Drive Addition	Provide a variable speed drive on the gym air handling units to reduce airflow during periods of low or no occupancy, as determined by the CO2 and occupancy sensors.
RA-ME-08 ECM-M7	Heat Pump Replacement - Boilers	Replace air-to-water heat pumps with high efficiency boilers.
RA-ME-10	Heating System Control Valve Replacement	Replace heating system control valves.
RA-ME-11 ECM-M1	HVAC Control System Commissioning	Commission the HVAC control system to verify proper operation.
RA-ME-13 EMC-M4	Occupancy Sensor Temperature Control Addition	Expand control system to add occupancy sensor temperature control to the commons, drama area, gym, library, locker rooms, and music rooms.
RA-ME-14 ECM-M11	Overhead Door Switch Addition	Provide control switch at overhead door in industrial technology lab that disables heat when door is open.

## RAINIER MIDDLE SCHOOL - APPROVED FACILITY IMPROVEMENTS

Item No.	Improvement Title	Improvement Description
RA-ME-15 ECM-W1	Plumbing Fixture Retrofit Review	Review water saving opportunities including retrofit or replacement of sinks, urinals and water closets.
RA-ME-16	Refrigerant Piping Modification	Modify refrigerant piping serving walk-in cooler and freezer.
RA-ME-17	Telecommunication Rooms Cooling and Ventilation Addition	Provide independent mechanical ventilation and cooling system in existing MC room and HC rooms.
RA-ME-18 ECM-M6	VAV Unit Variable Speed Drive Addition	Provide a variable speed drives and replace inlet vanes on all VAV air handling equipment serving 300, 400, and 600 units along with office and drama areas.
RA-EL-10 ECM-L2	Exit Sign Replacement	Replace incandescent and compact fluorescent exit signs with new LED exit signs.
RA-EL-12 ECM-L3	Exterior Lighting Upgrade	Replace HID fixtures on the exterior of the building with compact fluorescent. Retrofit parking lot lights with pulse start metal halide or inductive lighting.
RA-EL-13	Fire Alarm Smoke Detector Replacement	Replace fire alarm smoke detectors.
RA-EL-14	Gym and Commons Sound System Upgrade	Replace sound systems in main gym and commons.
RA-EL-15 ECM-L4	HID Lighting Replacement	Replace HID fixtures in the gym and commons with new fixtures using T-8 or T-5 technology.
RA-EL-16	Industrial Technology Data and Electrical Outlet Addition	Provide 5 data and electrical outlets in industrial technology classroom for student computers.
RA-EL-18 ECM-L1	Interior Lighting Upgrade	Retrofit or replace T-12 fixtures, magnetic ballast and incandescent fixtures with T-8, electronic ballast and compact fluorescent technology.
RA-EL-21	Library Data and Electrical Outlet Addition	Provide 30 data and electrical outlets in library for student computers.
RA-EL-22	Library Search Station Electrical Outlet Addition	Provide 7 additional electrical outlets at search stations in library.
RA-EL-23 ECM-L5	Occupancy Sensor Lighting Control Addition	Provide occupancy sensor in areas with fluctuating occupancy to turn off lights when the spaces are unoccupied.
RA-MD-03	Health Restroom Modernization	Provide larger and ADA compliant restroom at health room.
RA-MD-05	Kitchen Serving Area Improvement	Provide a third line for serving lunch.
RA-MD-17	Staff Restroom / Storage Modernizations & Additions	Provide storage rooms for emergency supplies, furniture and records. Modernize and expand staff restrooms.

# AUBURN HIGH SCHOOL - APPROVED FACILITY IMPROVEMENTS

Item No.	Improvement Title	Improvement Description
AH-SI-11	Curb Ramp Additions	Provide curb ramps at north entrance to greenhouse, east parking lot entry to building, east entry drive, and building entry at bus loading area.
AH-SI-14	Disabled Parking Signage Additions	Provide disabled parking signs on posts at 12 handicap parking stalls.
AH-SI-15	Disabled Parking Stall Modification	Modify pavement striping at disabled parking stalls south of portable classrooms to provide aisle between disabled stalls.
AH-SI-36	Traffic Control Sign Upgrade	Provide larger, additional, and more prominently displayed traffic control signs at bus zone, staff parking, student parking, and delivery areas.
AH-SI-44	Water Service Backflow Prevention Additions	Provide backflow prevention devices at three water service meters.
AH-IN-02	ADA Signage Additions	Provided interior signage identifying spaces accessible for disabled at 7 rooms, 4 wheelchair accessible seats at theater, and at locations of assistive listening devices in theater.
AH-IN-26	Main Gym Floor Settlement Repair	Repair a 400 SF section of floor in main gym that has settled approximately 1".
AH-IN-29	Theater Carpet Replacement	Replace carpet at theater orchestra pit and balcony areas.
AH-IN-30	Theater Disabled Seating Addition	Provide removable or folding arm rests and ADA compliant signage at 11 seats in theater.
AH-IN-31	Theater Handrail Additions	Provide handrails at stairs at both sides of front seating area in theater.
AH-ME-08 ECM-M24	Auto Shop Door Switch Addition	Provide switch connected to EMS at overhead exterior doors in auto shops to disable heating system when the doors are open.
AH-ME-17 ECM-M23	Compressor Control Addition	Provide EMS control of shop compressors to disable the compressors on weekends and holidays and include a manual override button.
AH-ME-18 ECM-M18	Damper Actuator Additions	Provide barometric relief dampers actuators to the relief vents at the theater.
AH-ME-19 ECM-M17	Diffuser Additions	Provide additional diffusers to improve airflow from the two large heat pumps serving the theater and add a return air fan to the north unit.
AH-ME-35 ECM-M20	Heat Pump Replacement - Theater	Replace two small heat pumps serving the theater and increase their heat capacity.
AH-ME-44 ECM-M19	Occupancy Sensor Addition - Theater	Provide an occupancy sensor and relocate a thermostat for the rear stage area of the theater
AH-ME-61	Waste Line Modifications	Modify waste lines serving foods classroom 127 sinks, theater orchestra pit 601 floor drain, and theater workroom 609 sink to connect to sewer system.
AH-EL-13	Data Outlet Additions - Theater	Provide 2 data outlets at stage, 2 at orchestra pit and 2 at balcony in theater. Locate adjacent to existing electrical outlets.
AH-EL-35 ECM-L6	Lighting Retrofit - Theater	Replace or retrofit theater walkway and seat lights to CFL or LED technology, retrofit can fixtures in theater entry to CFL, and investigate an alternate lighting system for house lights for illumination during
AH-EL-48	Theater Electric Pipe Batten Upgrade	Replace electrical cabling at 2 electric pipe battens in theater.
AH-EL-50	Theater Lighting Control Improvements	Modify lighting control to provide a separate circuit for seat lights.
AH-EL-52	Theater Pathway Lighting Addition	Provide additional pathway lighting in theater balcony at back wall and behind sound board.
AH-EL-54	Theater Speaker Upgrade	Modify speaker system in theater to replace single speaker cluster with new speakers at both sides of proscenium opening, replace side fill woofer speakers, and add balcony and lecture bay speakers.

# AUBURN RIVERSIDE HIGH SCHOOL - APPROVED FACILITY IMPROVEMENTS

Item No.	Improvement Title	Improvement Description
AR-SI-08	Curb Ramp Additions	Provide two curb ramps. Ramps located at south end of bus loading zone and at new van accessible parking stalls adjacent to tennis courts.
AR-SI-10	Discus Throw Modifications	Relocate discus pad to provide discus throw area in compliance with current regulations.
AR-SI-13	Football Goal Post Upgrade	Replace football goal posts with high quality, V-neck, gooseneck, steel goal posts.
AR-SI-14	Football / Soccer Field Synthetic Turf Upgrade	Replace conventional synthetic turf at football / soccer field with infill system synthetic turf.
AR-SI-15 ECM-W2	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station.
AR-SI-18	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars, directional arrows, and bus stall numbers. Repaint existing lines in parking lots.
AR-SI-27	Tennis Court Surface Upgrade	Repair cracks and provide new surface coat at 9 tennis courts.
AR-SI-30	Van Accessible and Disabled Parking Stall Additions	Convert three standard parking stalls at tennis court area to one van accessible stall and one handicap stall and add associated signage. Convert two standard parking stalls at south lot adjacent to main gym to a single van accessible stall and add associated signage.
AR-SI-33	Baseball & Softball Infield Clayblock Additions	Provide clay block at baseball and main softball field pitcher's mounds and homeplates.
AR-SI-34	Student Parking Entry Drive Improvement	Provide a left turn exit lane at the entry drive serving the student parking lot.
AR-SI-36	Softball Field Drainage Improvements	Provide a Greenshield drainage system at the outfield of the main softball field.
AR-SI-37	Track and Field Event Replacement	Replace rubberized surface at running track, pole vault, long jump and high jump areas.
AR-EX-01	Automatic Door Opener Additions	Provide automatic door opener at building entrances at front of school, gym lobby, theater lobby and door serving bus area.
AR-EX-04	Exterior Door Hardware Upgrade	Replace exterior door lock cylinders with Primus cylinders.
AR-EX-05	Exterior Door Replacement	Replace 6 hollow metal doors at gym lobby entry.
AR-EX-09	Masonry Water Repellant Application	Provide application of water repellant at exterior masonry.
AR-IN-18	Theater Disabled Seating Signage Addition	Provide disable seating signage at four existing theater seats where removable or folding arm rests are located.
AR-IN-20	Corridor VCT Addition	Replace carpet and rubber base in second floor corridors with VCT and new rubber base.
AR-EQ-01	ADA Grab Bar Additions	Provide ADA compliant side grab bars at all wheel chair accessible toilet stalls and individual toilet rooms.
AR-EQ-04	Computer Furniture Upgrade	Provide furniture designed for computer and other technology equipment use.
AR-EQ-06	Foods Classroom Equipment Replacement	Replace range / ovens, built-in microwave ovens, and exhaust fans at 7 cooking stations in foods classroom.
AR-EQ-07	Gymnastics Spring Floor Upgrade	Replace existing gymnastics spring floor with a more advanced spring floor system.
AR-EQ-08	Kitchen Equipment Replacement	Replace convection ovens and reach-in coolers.
AR-EQ-12	Main Gym Bleacher Replacement	Replace bleachers in main gym.
AR-EQ-16	Records Storage Cabinet Additions	Provide high-density, rolling file shelving units in records storage room 323.
AR-EQ-17	Student Chair / Desk Repair	Replace student combo chair / desks that are damaged.
AR-EQ-23	Projection Screen Addition - Commons	Provide 12' x 12' motorized projection screen in commons.
AR-ME-01	AHU Variable Speed Drive Replacement	Replace variable speed drives at 50% of the air handling units.
AR-ME-02 ECM-M2	Automatic Controls Upgrade	Upgrade control system front end and software to the district standard - BacNet compatible, web based.
AR-ME-04	Computer Classroom HVAC Improvements	Improve HVAC system serving computer classrooms 200 and 202.
AR-ME-05	Chiller Compressor Replacement	Replace compressors in chillers that have failed.

# AUBURN RIVERSIDE HIGH SCHOOL - APPROVED FACILITY IMPROVEMENTS

Item No.	Improvement Title	Improvement Description
AR-ME-06 ECM-M3	CO2 Control Addition	Expand control system to add CO2 control to the main air handling systems serving the commons, gym and library.
AR-ME-07 ECM-M7	Computer Classroom Heat Pump Addition	Provide dedicated heat pumps for cooling of computer classrooms 801 and 803.
AR-ME-08 ECM-M6	Construction / Manufacturing Dust Filter Addition	Provide a dust control fan and filter system for the construction / manufacturing lab to allow the exhaust fan to be disabled except via a hand timer.
AR-ME-09 ECM-M10	Dishwasher Booster Heater Replacement	Replace 500 MBH Lochinvar booster heater at dishwasher with instantaneous booster heater.
AR-ME-11	Fire Sprinkler Head Replacement	Replace fire sprinkler heads throughout building.
AR-ME-13 ECM-M12	Heating Water Boiler Modifications	Retrofit heating water boilers to improve turn-down or add a small pony boiler to handle low load conditions.
AR-ME-14	Heating Water Circulation Pump Replacement	Replace heating water circulation pumps.
AR-ME-15	Heating Water System Control Valve Replacement	Replace control valves at heating water system.
AR-ME-17 ECM-M1	HVAC Control System Commissioning	Commission the HVAC control system to verify proper operation.
AR-ME-19 ECM-M14	Kiln Exhaust System Modifications	Reduce the kiln exhaust airflow.
AR-ME-21	Natural Gas System Metering	Provide electronic meter for natural gas system connected to energy management system.
AR-ME-22 ECM-M5	Occupancy Sensor Temperature Control Addition - Construction / Manufacturing	Provide occupancy sensors connected to the general exhaust fan in construction / manufacturing. Connect domestic water pump in fieldhouse to occupancy sensor and connect lights in gyms to occupancy sensors.
AR-ME-23 ECM-M4	Occupancy Sensor Temperature Control Addition - Miscellaneous Areas	Provide occupancy sensors connected to the Energy Management System in band and choral rooms, gyms, main building and field house locker rooms. Connect domestic water pump in fieldhouse to occupancy sensor and connect lights in gyms to occupancy sensors.
AR-ME-25 ECM-W1	Plumbing Fixture Replacement - Partial	Retrofit aerators on sinks.
AR-ME-26	Student Store HVAC Improvements	Improve HVAC system at student store 308 to eliminate overheating.
AR-ME-28 ECM-M9	Variable Speed Drive Replacement	Replace variable speed drive at air handling unit serving office area.
AR-ME-29 ECM-M8	Variable Speed Drive Retrofit - Science Rooms	Retrofit science room air handling units with variable speed drives to reduce air flow when the science classrooms are not in use.
AR-ME-30 ECM-M13	Variable Speed Drive Retrofit - Water Pumps	Retrofit the chilled water pumps and hot water pumps with variable speed drives and change control valves at the coils to 2-way valves.
AR-EL-06	Data Outlet Additions - Commons and Theater	Provide 4 data outlets in commons and 4 at stage in theater. Locate adjacent to existing electrical outlets.
AR-EL-08 ECM-L4	Daylighting Control Addition	Provide daylighting control to the light fixtures in the entry foyer and commons.
AR-EL-09	Electrical Service Metering	Provide electronic meter for electrical service connected to energy management system.
AR-EL-11 ECM-L3	Exterior Lighting Upgrade	Replace HID fixtures on the exterior of the building with compact fluorescent. Retrofit parking lot lights with pulse start metal halide or inductive lighting.
AR-EL-16 ECM-L2	Interior Lighting Replacement - Gym and Entry Foyer	Replace HID fixtures in gyms and entry foyer with new fixtures using T-8 or T-12 technology and provide a minimum of 30 foot-candle illumination in gyms.
AR-EL-17 ECM-L1	Interior Lighting Retrofit - Corridors	Retrofit T-8 light fixtures in corridors to reduce total number of fixture lamps.
AR-EL-20	Library Data and Electrical Outlet Additions	Provide 24 additional data outlets and 36 additional electrical outlets at student computer area in library.
AR-EL-22	MC Room Improvements	Add electrical capacity, add a 8' high - 2 post rack, re-rack and re-cable existing data communications equipment to improve organization within room.
AR-EL-23 ECM-L5	Occupancy Sensor Lighting Control Addition	Provide occupancy sensors in the commons and gyms to turn off lights when the spaces are unoccupied.
AR-EL-26	Sound System Upgrades	Upgrade sound systems in commons, auxiliary and main gyms.
AR-EL-27	Surveillance Camera Addition	Provide surveillance camera system to monitor parking lots and areas around building with monitoring capability at each administrator's desk.
AR-EL-30	Theater Electrical Outlet Additions	Provide 8 additional dedicated 30 amp electrical outlets in theater with 2 in located in control room, 2 in workroom, and 2 at each side of the lighting catwalks.
AR-EL-33	Intrusion Alarm Audible Signal Upgrade - Intercom System	Connect intrusion alarm system to intercom system to provide audible alarm.



## AUBURN RIVERSIDE HIGH SCHOOL - APPROVED FACILITY IMPROVEMENTS

Item No.	Improvement Title	Improvement Description
AR-MD-07	Construction / Manufacturing Wall Removal	Remove wall between construction / manufacturing classroom 504 and adjacent shop area 505.
AR-MD-08	Darkroom Modernization	Convert darkroom 348C to a computer lab with 12 computer stations with lab opening directly into visual communications classroom 348.
AR-MD-09	Drama Office Addition	Provide a 100 SF office with relites in the drama classroom.
AR-MD-11	Electronics Classroom Storage Modernization	Convert the north section of resource room 347 to a 96 SF electronic classroom storage area with direct access from electronic classroom 349.
AR-MD-21	Music Area Storage Modernization	Convert instrument storage room 513 to a uniform and sound equipment storage room for orchestra / choral and large instrument storage room for band.
AR-MD-22	Music Instrument Storage Upgrade	Provide locking storage cabinets for instruments at perimeter walls of band and orchestra / choral classrooms.
AR-MD-27	Science Classroom Modernization	Convert classroom 710 to a general science classroom with cabinets and student work stations at perimeter of room.
AR-MD-42	Video Lab Interior Window Addition	Provide an interior relite window between video lab 348A and viscom classroom 348.

# WEST AUBURN HIGH SCHOOL - APPROVED FACILITY IMPROVEMENTS

Item No.	Improvement Title	Improvement Description
WE-SI-05 ECM-W2	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station and add a rain gauge.
WE-SI-07	Parking Sign Additions	Provide signs on posts designating 3 parking stalls for visitors and one disabled parking stall at south parking lot.
WE-SI-08	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars and directional arrows. Add crosswalk from disabled parking stalls at south parking lot to front entry.
WE-EX-01	Automatic Door Opener Addition	Provide automatic door opener at south and east entry doors.
WE-EX-02	Exterior Door Hardware Upgrade	Replace exterior door lock cylinders with Primus cylinders.
WE-EX-08	Masonry Water Repellant Application	Pressure wash and provide application of water repellant at exterior masonry.
WE-IN-03	Grab Bar Additions	Provide ADA compliant grab bars at a total of two handicap toilet stalls in student restrooms 305 and 308.
WE-IN-06	Interior Signage Additions	Provide handicap accessible signage at student restrooms 305 and 308.
WE-EQ-02	Computer Furniture Upgrade	Provide furniture designed for computer and other technology equipment use.
WE-ME-01 ECM-M2	Automatic Controls Upgrade	Upgrade the EMS control system to be BacNet compatible, web based and include new software, new field controllers, and a new front end computer.
WE-ME-02 ECM-M4	CO2 Control Addition - Fan Coil Units	Expand the control system to add CO2 control to the fan coil units serving the classrooms.
WE-ME-03 ECM-M3	CO2 Control Addition - Gym & Library	Expand the control system to add CO2 control to the main air handling systems serving the gym and library.
WE-ME-04 ECM-M7	Damper Actuator Replacement	Replace Barber Colman damper actuators.
WE-ME-05 ECM-M6	Domestic Hot Water Improvements	Connect the domestic hot water systems together to serve the entire school with the gas fired system.
WE-ME-06 ECM-M9	Door Switch Sensor Addition	Provide occupancy sensor door switch at roll-up door at shop building.
WE-ME-09	Heating System Control Valve Replacement	Replace heating system control valves.
WE-ME-11	Mechanical Cooling Addition	Provide mechanical cooling at main office area and computer room 307.
WE-ME-13 ECM-M5	Occupancy Sensor Temperature Control Addition	Install occupancy sensors in gym and library to set back the spaces when they are unoccupied.
WE-ME-15 ECM-W1	Plumbing Fixture Replacement - Partial	Replace water closets and provide aerators for sinks.
WE-ME-16 ECM-M1	TAB and Commissioning	Perform air and water testing, adjusting and balancing (TAB) on the mechanical systems. Commission the existing HVAC control system to verify proper operation.
WE-EL-06 ECM-L2	Exit Sign Replacement	Replace incandescent and compact fluorescent exit signs with new LED exit signs.
WE-EL-09 ECM-L4	Gym Lighting Replacement	Replace HID fixtures in the gym with fixtures using T-8 or T-5 technology and increase illumination level.
WE-EL-12 ECM-L1	Interior Lighting Upgrade	Replace T-12 fixtures, magnetic ballast and incandescent fixtures with T-8, electronic ballast and compact fluorescent technology.
WE-EL-15 ECM-L3	Occupancy Sensor Lighting Control Addition	Provide occupancy sensor in areas with fluctuating occupancy to turn off lights when the spaces are unoccupied.
WE-MD-11	ADA Restroom & Record Storage Modernization	Modernize Conference Room 104 to provide a 80 SF record storage room and a 50 SF unisex ADA compliant restroom.

## **Appendix G – Approved Facility Improvements: Support Facilities**

### Support Facilities:

Administration Building

Administrative Annex

Auburn Memorial Stadium

Auburn Pool

Support Services Center

Transportation Center

## ADMINISTRATION BUILDING - APPROVED FACILITY IMPROVEMENTS

Item No.	Improvement Title	Improvement Description
AD-SI-01	Accessible Parking Stall Addition	Change a 5 standard parking stalls at south parking lot to 4 handicap stalls. Provide 6 post mounted signs designating handicap parking stalls at 2 existing stalls and 4 new stalls.
AD-SI-07 ECM-W3	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station and add a rain gauge.
AD-SI-11	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars and directional arrows. Add thermo-plastic crosswalk from handicap parking stalls to curb cut at north parking lot. Repaint all existing parking stall lines.
AD-SI-13	Sanitary Sewer Line Replacement	Replace existing sanitary sewer mainline.
AD-SI-15	Sidewalk Replacement - Off Site	Replace sections of concrete sidewalk at street frontage at 4th St. NE and J St. NE that are uneven and create a trip hazard.
AD-SI-21 ECM-W2	Water Meter Addition	Provide a deduct water meter for irrigation system.
AD-EX-01	Automatic Door Opener Addition	Provide automatic door opener at front entry door and at entry door to elevator vestibule.
AD-IN-06	Grab Bar Additions	Provide ADA compliant grab bars as handicap accessible toilet stalls in restrooms 204 and 209.
AD-IN-08	Interior Door Hardware Upgrade	Replace interior door handles with ADA compliant lever handles.
AD-IN-09	Interior Room Sign Additions	Provide ADA compliant interior signs at every room including handicap accessible symbol at restrooms 204 and 209.
AD-EQ-01	Conference Rooms Furniture Upgrade	Provide new and additional tables and chairs in all conference rooms.
AD-EQ-03	Records Storage Cabinet Additions	Provide high-density, rolling file shelving units for record storage vaults 120, 211A, and 215A.
AD-EQ-04	Wireless Computer Lab Addition	Provide 30 laptop computers with wireless cards, two 15 units computer carts with laptop charging system, one printer on a cart with a wireless connection, and wireless hub device in Board Room,
AD-ME-02 ECM-M5	Domestic Water Heater Replacement	Investigate savings opportunities for replacing the existing tank style domestic water heater with point of use instantaneous water heaters.
AD-ME-05 ECM-M1	HVAC Control System Commissioning	Commission the HVAC control system to verify proper operation.
AD-ME-06	HVAC System Improvements	Improve HVAC system to correct inadequate heat at office 121 and correct overheating at offices 201 and 219.
AD-ME-07 ECM-M3	Occupancy Sensor Temperature Control Additions	Provide occupancy sensors in offices areas to set back the space temperature when the spaces are unoccupied.
AD-ME-08	Outside Air Damper Control Modification	Modify control sequence for outside air dampers to improve occupant comfort.
AD-ME-09 ECM-M4	Piping Insulation Additions	Provide insulation at uninsulated heating water, chilled water, and domestic hot water piping.
AD-ME-12 ECM-M2	Relief Dampers Control Modifications	Modify control sequence for relief dampers to reduce heat loss through opening when associated system is in a recirculation mode.
AD-EL-05	Fire Alarm System Upgrade	Provide an automatic addressable fire alarm and detection system with control panel in custodial room 127 and graphic annunciator panel at front entry door.
AD-EL-07 ECM-L1	Interior Lighting Upgrade	Retrofit or replace T-12 fixtures, magnetic ballast and incandescent fixtures with T-8, electronic ballast and compact fluorescent technology.
AD-EL-11 ECM-L2	Occupancy Sensor Lighting Control Addition	Provide occupancy sensors in offices areas to turn off lights when the spaces are unoccupied.

## ADMINISTRATIVE ANNEX - APPROVED FACILITY IMPROVEMENTS

Item No.	Improvement Title	Improvement Description
AA-SI-04	Delivery Area Pavement Addition	Provide asphalt pavement at delivery area and service drive at south side of building.
AA-SI-09	Handrail Upgrade	Replace wood railings and hand rails at exterior stairs and ramps with painted metal handrails and provide handrail extensions at the top and bottom of exterior ramps serving upper and lower floors.
AA-SI-15	Sidewalk Replacement and Addition	Replace sidewalk at east side of building. Add sidewalk at south side of building.
AA-SI-18 ECM-W3	Water Meter Addition	Provide a deduct water meter for irrigation system.
AA-EX-01	Automatic Door Opener Addition	Provide automatic door opener at the upper and lower front entry doors.
AA-EX-02	Exterior Door Hardware Upgrade	Replace exterior door lock cylinders with Primus cylinders.
AA-IN-05	Restroom Floor Upgrade	Provide new sheet vinyl flooring in restrooms 217 and 218.
AA-ME-04 ECM-M1	HVAC Control System Commissioning	Commission the HVAC control system to verify proper operation.
AA-ME-05	Pipe Insulation Additions	Provide insulation on exposed water supply lines and drain pipes below sinks in restrooms 217 and 218.
AA-ME-06 ECM-W1	Plumbing Fixture Replacement - Partial	Replace water closets and provide aerators for sinks.
AA-EL-08 ECM-L2	Exit Sign Replacement	Replace incandescent and compact fluorescent exit signs with new LED exit signs.
AA-EL-11 ECM-L1	Interior Lighting Upgrade	Retrofit or replace T-12 fixtures, magnetic ballast and incandescent fixtures with T-8, electronic ballast and compact fluorescent technology.

# AUBURN MEMORIAL STADIUM - APPROVED FACILITY IMPROVEMENTS

Item No.	Improvement Title	Improvement Description
ME-SI-04	Discus Throw Modifications	Relocate discus pad to provide discus throw area in compliance with current regulations.
ME-SI-06	Exterior Signage Additions	Provide signs at home grandstand designating seat locations for disabled .
ME-SI-09	Football / Soccer Field Synthetic Turf Upgrade	Replace conventional synthetic turf at football / soccer field with infill system synthetic turf.
ME-SI-10	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station and add a rain gauge.
ME-SI-12	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars and directional arrows. Restripe lines at east and west parking lots.
ME-ST-01	Precast Panel Repair	Repair cracks at precast concrete panels at home grandstand.
ME-IN-02	Cabinet Replacement	Provide plastic laminate surface cabinets with locking drawers and doors at concession stands.
ME-IN-04	Handrail Addition	Provide handrails at ramp at corridor 020 serving the press box.
ME-ME-02	Concession Stand Sink Upgrades	Provide 3-compartment sinks in home and visitor concession stands.
ME-ME-05 ECM-M1	HVAC Control System Commissioning	Commission the HVAC control system to verify proper operation.
ME-ME-07 ECM-M2	Occupancy Sensor Temperature Control Addition	Provide occupancy sensors in the locker rooms to set back the heating system when spaces are unoccupied.
ME-ME-11	Press Box Heat Control Addition	Provide mark-timers for bypass heat control of electric heaters in press box.
ME-ME-12 ECM-W2	Solenoid Valve Addition	Provide a solenoid valve on the urinal siphon style tank and connect the valve to the EMS to allow the valve to be scheduled for use during periods of occupancy.
ME-EL-04	Grandstand Lighting Upgrade	Provide additional lighting at home and visitor grandstands that can be operated independently from field lights.
ME-EL-06 ECM-L1	Interior Lighting Upgrade	Retrofit or replace T-12 fixtures, magnetic ballast and incandescent fixtures with T-8, electronic ballast and compact fluorescent technology.
ME-EL-07 ECM-L2	Occupancy Sensor Lighting Control Addition	Provide lighting control occupancy sensors in the locker rooms to turn the lights off when the spaces are unoccupied.
ME-EL-10	Security Lighting Addition	Provide energy efficient security lighting around stadium.
ME-EL-11	Sound System Upgrade	Replace sound system with new equipment.
ME-EL-13	Visitor's Concession Electrical Improvements	Increase electrical capacity at concession stand and ticket booth at visitor's side.
ME-EL-14 ECM-L3	Photo Cell Addition	Provide photo cell lighting control for the concession area exterior lights to turn the lights off when there is adequate ambient light.
ME-MD-03	ADA Restroom Addition	Provide uni-sex ADA compliant restroom addition at home side of field.

## AUBURN POOL - APPROVED FACILITY IMPROVEMENTS

Item No.	Improvement Title	Improvement Description
AP-SI-03	Bicycle Rack Addition	Provide a bike rack for 12 bicycles at front entry
AP-SI-05	Exterior Bench Additions	Provide two 6' long ribbon metal exterior benches at front entry.
AP-SI-07	Exterior Waste Receptacle Upgrade	Provide ribbon metal exterior waste receptacle with push-door dome top at front entry.
AP-SI-09	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars and directional arrows.
AP-SI-11	Sidewalk Additions	Provide sidewalk and curb between north and east entries and at south side of property along 3rd St. NE.
AP-SI-12	Underground Storage Tank Removal	Remove underground fuel oil storage tank that serves heating system.
AP-SI-14 ECM-W3	Water Meter Additions	Provide a makeup water meter and a wastewater meter to deduct water lost due to evaporation from sewer bill.
AP-ST-02	Roof Cross Tie Additions	Provide cross ties at subdiaphragms anchoring concrete walls the run parallel to the roof decking.
AP-ST-03	Wall Crack Repair	Repair cracks in concrete wall buttresses.
AP-ST-04	Parapet Wall Reinforcement	Provide a continuous horizontal steel strong-back near the top of parapet and anchored to the parapet.
AP-EX-02	Clerestory Window Upgrade	Replace existing plastic clerestory window located at north end of building with insulated window.
AP-EX-03	Exterior Door Hardware Upgrade	Replace exterior door lock cylinders with Primus cylinders.
AP-EX-05	Exterior Window Upgrade	Replace single-pane exterior windows and hollow metal frames at front entry with aluminum window wall with dual-glazing and new exterior doors.
AP-EX-07	Automatic Door Opener Additions	Provide automatic door opener at the front and side entry doors.
AP-EQ-01	Lifeguard Stand Replacement	Replace two lifeguard stands.
AP-EQ-02	Locker Upgrade	Replace lockers at men's and women's locker rooms and include more half-size lockers.
AP-EQ-03	Office Furniture Upgrade	Replace existing desks, chairs and tables in office and workroom.
AP-EQ-04	Toilet Accessory Replacement	Replace mirrors and soap dispensers in locker rooms and restrooms.
AP-EQ-05	Washer and Dryer Upgrade	Provide new high capacity and energy efficient washer dryer.
AP-ME-02	Automatic Controls Upgrade	Upgrade the EMS control system to be BacNet compatible, web based and include new software, new field controllers, and a new front end computer.
AP-ME-03 ECM-W2	Domestic Water Piping and Shower Upgrade	Replace underground domestic water piping with above grade piping and replace shower columns.
AP-ME-04	Domestic Water Tank / Heat Exchanger Upgrade	Provide new domestic hot water storage tank and double-wall heat exchanger.
AP-ME-05	Dryer Vent Addition	Provide vent for dryer located in workroom 109.
AP-ME-06	Ductwork Upgrade	Replace underground ductwork with above grade ductwork.
AP-ME-07	Exhaust Fan Replacement	Replace roof mounted exhaust fans.
AP-ME-09 ECM-M1	HVAC Control System Commissioning	Commission the HVAC control system to verify proper operation.
AP-ME-10	Louver Replacement	Replace mechanical system louvers and diffusers that are damaged.
AP-ME-11	Natural Gas System Metering	Provide electronic meter for natural gas system connected to energy management system.
AP-ME-13 ECM-W1	Plumbing Fixture Replacement - Full	Replace plumbing fixtures throughout the facility.
AP-ME-16	Pool Water Pump Replacement	Replace pool water circulation pump.
AP-ME-19 ECM-M2	Variable Speed Drive Addition -Main Fan	Provide occupancy sensors for pool deck area and a variable speed drive on the main pool air handling unit to reduce airflow during periods of no occupancy as determined by new occupancy sensors.

## AUBURN POOL - APPROVED FACILITY IMPROVEMENTS

Item No.	Improvement Title	Improvement Description
AP-ME-20 ECM-M3	Variable Speed Drive Addition - Pool Pump	Install a variable speed drive on the pool circulation pump to reduce flow at night.
AP-ME-21	Boiler Upgrade	Replace existing boiler with higher efficiency boiler.
AP-EL-02 ECM-L2	Exit Sign Replacement	Replace incandescent and compact fluorescent exit signs with new LED exit signs.
AP-EL-04	Fire Alarm System Upgrade	Expand and improve fire alarm system.
AP-EL-05 ECM-L3	HID Lighting Replacement	Replace HID fixtures in the pool area with new fixtures using T-8 or T-5 technology.
AP-EL-07 ECM-L1	Interior Lighting Upgrade	Retrofit or replace T-12 fixtures, magnetic ballast and incandescent fixtures with T-8, electronic ballast and compact fluorescent technology.
AP-EL-08	Intrusion Alarm System Upgrade	Expand intrusion alarm system to cover pool and front entry area and provide audible alarm.
AP-EL-11	Electrical Panel Upgrade	Replace and modify secondary electrical panels to provide new panels and separate light switch control.



## SUPPORT SERVICES CENTER - APPROVED FACILITY IMPROVEMENTS

Item No.	Improvement Title	Improvement Description
SS-SI-02	Accessible Parking Stall Addition	Change a standard parking stalls to a handicap stall and add post mounted signage designating handicap parking stall.
SS-SI-03	Automatic Gate Upgrade	Replace motorized system that operates entry gate.
SS-SI-04 ECM-W3	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station and add a rain gauge.
SS-ME-01 ECM-M3	Air Compressor Control Addition	Provide control for air compressor connected to the EMS system to shut compressor off during unoccupied times.
SS-ME-02	Air Conditioning Modification	Modify controls for air conditioning system to correct problem with system shutting down.
SS-ME-03 ECM-M6	Block Heater Control Addition	Provide controls for vehicle block heaters connected to the existing building EMS to control the heaters based on schedule and temperature.
SS-ME-04	Boiler Replacement	Replace boiler.
SS-ME-06	Domestic Water Circulation Improvements	Modify domestic water circulation system to improve the supply of hot water to areas of the building that are a long distance from hot water tank by adding a 50 gal DWH and pipe.
SS-ME-07	Domestic Water Tank Replacement	Replace domestic water tanks.
SS-ME-09 ECM-M2	HVAC Control System Commissioning	Commission the HVAC control system to verify proper operation.
SS-ME-11 ECM-W1	Plumbing Fixture Replacement - Partial	Replace water closets and provide aerators for sinks.
SS-ME-12 ECM-M4	Occupancy Sensor Temperature Control Additions	Provide occupancy sensors in the warehouse and offices to set back temperatures when spaces when are unoccupied.
SS-ME-13 ECM-M5	Overhead Door Sensor Additions	Provide sensors at overhead doors in warehouse to turn off the heating equipment when doors are open.
SS-EL-03 ECM-L3	Exterior Lighting Upgrade	Replace or retrofit HID and incandescent exterior fixtures with compact fluorescent technology.
SS-EL-04	Fire Alarm System Upgrade	Replace fire alarm system smoke detectors and bases.
SS-EL-06 ECM-L1	Interior Lighting Upgrade	Replace 400 watt metal halide light fixtures in warehouse with T-8 or T-5 fluorescent technology.
SS-EL-08 ECM-L2	Occupancy Sensor Lighting Control Addition	Provide occupancy sensor in the warehouse and offices to turn off lights when the spaces are unoccupied.
SS-MD-01	Walk-in Freezer Removal	Remove 1,800 SF walk-in freezer located in warehouse and associated equipment.

## TRANSPORTATION CENTER - APPROVED FACILITY IMPROVEMENTS

Item No.	Improvement Title	Improvement Description
TC-SI-02	Asphalt Settlement Repair	Repair asphalt settlement in southwest section of bus parking area.
TC-SI-04	Bus Wash Oil / Water Separator Upgrade	Replace oil / water separator serving bus wash with a manufactured unit.
TC-SI-05 ECM-W3	Irrigation System Upgrade	Connect the irrigation system to the school district's energy management system with a weather station and add a rain gauge.
TC-SI-06	Pavement Marking Upgrade	Provide thermo-plastic pavement markings at parking lot stop bars and directional arrows.
TC-EX-01	Automatic Door Opener Addition	Provide automatic door opener at the front entry door.
TC-ME-01 ECM-M6	Block Heater Control Addition	Provide controls for bus block heaters connected to the existing building EMS to control the heaters based on schedule and temperature.
TC-ME-02 ECM-M3	CO2 Control Addition - Air Handling Units	Expand the Barber Coleman control system to add CO2 control to the main air handling systems to regulate the amount of outside air being delivered to the occupied spaces based on CO2 levels.
TC-ME-05 ECM-M4	Occupancy Sensor Temperature Control Addition	Install occupancy sensors in areas fluctuating occupancy to set back the spaces when they are unoccupied.
TC-ME-06 ECM-M5	Overhead Door Sensor Additions	Provide sensors at overhead doors in shop area to turn off the heating equipment when doors are open.
TC-ME-07 ECM-W1	Plumbing Fixture Replacement - Partial	Provide aerators for sinks.
TC-ME-08 ECM-M1	TAB and Commissioning	Perform air and water testing, adjusting and balancing (TAB) on the mechanical systems. Commission the existing HVAC control system to verify proper operation.
TC-ME-10 ECM-M2	Waste Oil Heater Addition	Provide a waste oil heater in the main bus shop to supplement heating with waste oil.
TC-EL-03	Fire Alarm System Upgrade	Replace fire alarm smoke detectors and detector bases.
TC-EL-06 ECM-L1	Interior Lighting Upgrade	Replace 400 watt metal halide fixture in the main shop with T-8 or T-5 fluorescent technology.
TC-EL-07 ECM-L2	Occupancy Sensor Lighting Control Addition	Provide occupancy sensors in offices, training room, lounge, small parts, drivers lobby, and locker room to turn off lights when the spaces are unoccupied.
TC-MD-01	Dispatch Office Modernization	Provide larger dispatch office with adequate work area and outlets for four staff members.