

TRANSPORTATION CENTER HVAC System Assessment



Completed for:



May 6, 2021

Site Visits, Analysis & Report by:

Metrix Engineers

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SCOPE

Metrix Engineers was hired to perform an assessment of the existing heating, ventilation and air conditioning systems at the Transportation Center site in Auburn School District. The goal of the assessment was to provide an executive summary level of detail regarding the type and condition of the existing mechanical systems, determine if the systems are operating in compliance with their original design intent, and identify any areas of improvement based on site observations.

The existing facility is a single story building of approximately 17,500 square feet and was originally constructed in 1998. The building underwent a small renovation of a couple offices in 2018.

A site walk was conducted on April 29, 2021 to review the existing mechanical systems. This report summarizes Metrix observations based on that visit.

EXECUTIVE SUMMARY

The building appears to be operating per its original design intent. No major operating points of concern were observed and there are no spaces that have been modified beyond the original design intent.

EXISTING SYSTEM OBSERVATIONS

HVAC:

The facility is primarily comprised of three different types of spaces: offices, a central shop and shop support spaces surrounding the central shop.

Offices and staff lounge receive ventilation and cooling from fan coil units located in a central mechanical loft. Heating is provided by duct mounted furnaces downstream of the fan coils. Each fan coil unit is served by a dedicated condensing unit located on grade in a service yard.

The central shop is heated via 15 radiant heaters spread throughout the space. A large exhaust system removes exhaust air through both low wall grilles and ceiling mounted grilles. Exhaust air is made up through a outside air louvers to the north and south of the space.

Shop support spaces receive heating and ventilation via gas fired furnaces located in a central mechanical loft. Separate exhaust fan systems evacuate fumes from each of the spaces.

A spot check of the internals of various HVAC system components was completed during the site visit. Systems scheduled on at the time of the site visit were verified operational. All heating, cooling and ventilation systems checked were verified operational with no major issues noted.

Controls:

During control system review, no space temperature deficiencies, space ventilation concerns or other operational issues were identified.





Transportation Center
HVAC System Assessment Notes

		Estimated Completion Date	Final Completion Date
	No deficiencies found	No action planned	

Revision Date 5/10/21