

GESA HVAC Project April Update

Project Narrative

The Twin Valley School District has begun work to address heating, ventilation, and air conditioning (HVAC) needs in District buildings. The District has decided to proceed with this work for the following reasons:

- Existing mechanical systems under consideration for this project are 20-30+ years old and at or beyond their useful life.
- Equipment targeted under this program has been well maintained; however, it has aged to a point where replacement is warranted.
- Buildings are experiencing control and comfort challenges associated with older equipment and controls as well as continued maintenance needs.

The installation of a current generation HVAC system was the next logical step for consideration by the Twin Valley School District. The solutions vary slightly by building. They include replacing existing HVAC systems with Dedicated Outdoor Air System (DOAS) units and 4-pipe unit ventilators in the classroom (and similar) areas and/or upgrades to existing heat pump/energy recovery ventilator systems. The benefits of these upgrades include improved control and comfort, improved humidity control, increased system efficiency, and reduced maintenance issues.

Work in 2022 will occur in the Twin Valley Elementary Center, the Twin Valley Middle School, and the Twin Valley High School.

Prior to the end of the school year, you will see the following activity in each of the schools slated for work in 2022, inclusive of the following:

- TVEC – Limited work until Summer Break.
- TVMS – Select work at night and/or on the weekends as follows:
 - Removal of ceiling tile in the corridors (including supporting of lights and devices in the ceiling).
 - Field measurement for new duct work as well as piping and installation of those systems in corridors.
 - Electrical conduit installation.
 - Clean up daily.

Note...If any LIMITED work is required in classrooms at night, arrangements will be with the principal and staff in that room.

- TVHS – Select work at night and/or on the weekends as follows:
 - Installation of natural gas lines and duct work on the roof, which may occur during the day when approved by TVSD Administration.
 - Removal of ceiling tile in the corridors (including supporting of lights and devices in the ceiling).
 - Field measurement for new duct work as well as piping and installation of those systems in corridors.
 - Electrical conduit installation.

- Clean up daily.

Note...If any LIMITED work is required in classrooms at night, arrangements will be with the principal and staff in that room.

April 2022 Progress

- TVEC – No work was scheduled in April. Work is scheduled to begin in late May. However, preliminary above ceiling investigations by the electrical contractor was completed.
- TVMS – Select work at nights and/or on the weekends has included the following:
 - Completion of the removal of ceiling tile in corridors, including supporting of lights and devices in the ceiling.
 - Starting the select removal of ceiling tile in the 2nd Floor Corridor's A & B classrooms.
 - Completion of masonry penetrations for new ductwork through classroom walls into the A & B Wing Corridors on the 2nd Floor.
 - Completion of the electrical conduit rough-in for the 400 amp feed.
 - All new rooftop equipment curbs were installed and flashed/weatherproofed.
 - Ductwork for Corridors A, B, C, & D is in fabrication.
 - Piping for the new chillers is in fabrication.
 - Continued field measure and layout for miscellaneous new duct work, piping, and equipment.
 - Miscellaneous electrical conduit rough-in work was completed in the 2nd Floor of Corridors A, B, & C.
 - Receipt of materials continued.
 - Clean up in the areas affected by the 2nd Shift work every night continued.
- TVHS – Select work at night and/or on the weekends has included the following:
 - Completion of the removal of ceiling tile in corridors including supporting of lights and devices in the ceiling.
 - Completion of the installation and testing of chiller piping in 2nd Floor of Area A.
 - Started the rough-in of chiller piping in 1st Floor of Area C.
 - Installation of new ductwork in 2nd Floor of Corridor A started.
 - Ductwork for the remainder of Area A is in fabrication.
 - Delivery of rooftop curbs for new equipment was received.
 - Field measurement and layout for new duct work, piping, and equipment continues.
 - Layout and/or wall/floor/ceiling penetrations started.
 - Receipt of materials continued.
 - Clean up in the areas affected by the 2nd Shift work every night continued.

May 2022 progress will proceed as planned according to the goals for work prior to the end of the school year with minimal disruption to educational operations.