

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 because of 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 is aged to a point where replacement equipment is warranted.
- Buildings are experiencing control and comfort challenges associated with older equipment and controls as well as continued maintenance needs.

The installation of current generation HVAC systems 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 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.

June 2022 Planned Progress

Twin Valley Elementary Center – Limited Work until Summer Break

- The last day for students (i.e. Summer Break) is on June 9, 2022. Construction activities will start during the day (i.e. first shift) on June 13, 2022.

Twin Valley Middle School – Select Work at Nights/Weekends

- Removal of ceiling tile in corridors (including supporting of existing lights and devices).
- Field measuring and installation of new duct work and piping.
- Electrical conduit rough-ins.
- Clean up daily.
- If any LIMITED work is required in classrooms at night, arrangements will be with the principal and staff in that room.
- The last day for students (i.e. Summer Break) is on June 9, 2022. Second shift work will change to first shift for construction activities on June 13, 2022.

Twin Valley High School – Select Work at Night/Weekends

- Installation of natural gas lines and duct work on roof occurring during the day when approved by TVSD Administration.
- Removal of ceiling tile in corridors (including supporting of existing lights and devices).
- Field measuring and installation of new duct work and piping.
- Electrical conduit rough-ins.

- Clean up daily.
- If any LIMITED work is required in classrooms at night, arrangements will be with the principal and staff in that room.
- The last day for students (i.e. Summer Break) is on June 9, 2022. Second shift work will change to first shift for construction activities on June 13, 2022.

May 2022 Progress

Twin Valley Elementary Center – No work was scheduled in May. Work is scheduled to begin in early June. There will be limited work until Summer Break.

Twin Valley Middle School – Select Work at Nights/Weekends

- Completed the removal of ceiling tile in corridors including supporting of the existing lights and devices.
- Removal of ceiling tile in the 2nd Floor Corridor's "A" & "B" classrooms.
- Completed masonry penetrations for new ductwork through classroom walls into the "A" & "B" Wing Corridors on the 2nd Floor.
- Completed the electrical conduit rough-in for 400 amp feed.
- All but two 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 to field measure and layout for miscellaneous new duct work, piping, and equipment.
- Miscellaneous electrical conduit rough-in work was completed in 2nd Floor of Corridors "A", "B" & "C".
- Receipt of materials continued.
- Clean up in the areas affected by the 2nd Shift work continued.

Twin Valley High School – Select Work at Night/Weekends

- Completed the removal of ceiling tile in corridors including supporting of the existing lights and devices.
- Completed 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".
- Started the installation of new ductwork in 2nd Floor of Corridor "A".
- Ductwork for the remainder of Area "A" is in fabrication.
- Delivery of rooftop curbs for new equipment were received.
- Partial delivery of rooftop equipment to the site received in mid-May.
- Field measurement and layout for new duct work, piping, and equipment continues.
- Layout and/or of wall/floor/ceiling penetrations continued.
- Receipt of materials continued.
- Clean up in the areas affected by the 2nd Shift work continued.