Burlington School District Attn. Lyall Smith, Director of Facilities
150 Colchester Road, Burlington, VT, 05401 September 20, 2024

Clerk of the Works Site Visit Report - IAA H.O. Wheeler Elementary School Project

The main vault for the geothermal piping arrived at the site this week. This vault is where the main heating and / or cooling water from the building comes into, and then gets dispersed out to the 30 different wells that are located in the playground. Manosh rigged the unit off from the trailer and installed the unit. See the pictures at the end of this report.

In the 1965 wing of the building, more underground plumbing work is happening for rerouting the existing stormwater piping out of the building into the stormwater holding system that Manosh has installed. See the picture at the end of this report.

In the 1965 wing of the building, insulation is being installed up against the foundation. This will help with the energy efficiency envelope for the building. See pictures at the end of this report.

The Electrical contractor is installing new conduits for the new mechanical equipment. They need to get power from the electrical room of the 1965 wing of the building to the Boiler room located in the 1904 wing of the building. See the pictures at the end of this report.

Lastly, the contractors have started their inspection of the existing chimneys in the 1904 wing of the building. See the picture at the end of this report.

A picture showing the new geothermal vault being moved from the delivery trailer into the site.

A picture showing the final resting place for the geothermal vault. In the foreground, you can see the geothermal piping heading in the direction of the vault. Manosh is in the process of extending and attaching the piping to the new vault.

Just like in the TV Show, “Gold Rush”, this is the same machine that will cut, and melt the plastic piping together to make one continuous piece of piping. Underground, you need the piping to be continuous with no joints, especially when the piping is delivered to the site in only 20 foot sections.

The concrete cutting contractor is coring a hole through the existing concrete foundation wall for the plumbing contractor to install new underground plumbing piping to be directed to the storm water storage system.

This picture is showing the installation of insulation on the Walnut Street side of the building against the foundation.

This picture shows the installation of insulation on the back side of the building against the foundation.

This picture shows the installation of insulation on the Manhattan Street side of the building against the foundation.

The new conduits in the ceiling are installed to a new junction box located in the corridor wall of the 1965 wing of the building. The concrete floor has been cut, and will be dug up for the installation of underground conduits that will go from this junction box out and to the existing Boiler Room. This is being done, because there is not space in the corridor ceilings to do this work.

Picture showing the existing concrete foundation wall being cut, so that new electrical conduits can be installed from the new transformer into the building and to the existing Electrical Room in the 1965 wing of the building.

This picture is showing the contractors up on a lift starting to inspect the existing chimneys in the 1904 wing of the building.