Supplied Industrial Solutions

Granite City, IL 62040

Contract: USDA Building 8 HVAC, Peoria, IL.

Location: The site for this project is at the National Center of Agricultural Utilization Research (NCAUR) USDA-ARS, Peoria, IL.

Contract Amount:	Original Contract Amount	$ 550,000.00
	Final Contract Amount	$ 550,000.00

Period of Performance: 6/22/2017-10/25/2017

Client: USDA

SCOPE OF WORK AND PROJECT SUMMARY

The project involves the removal of an existing rooftop unit that was sitting on an elevated concrete pad, the elevated concrete pad itself, and removal of abandoned underground steam piping. This was followed by excavating for a grade beam and step footings followed by the erection of steel platform for the purposes of setting a new rooftop unit upon it for the purposes supplying the required environmental conditions to building 8 lab.

The project included:

- Reviewing site data.
- Review site layout and grading, site utilities, buildings.
- Design site layout and grading, site utilities, foundation systems, and structural platform.
- Submit SIS, Inc. Design Submittals and SIS, Inc. Construction Documents for review and approval.
- Provide schedule of construction work.
- Coordinate abatement of existing abandoned asbestos wrapped steam pipes.
- Secure work area.
- Coordination of meetings with structural engineer, geotechnical engineer, and erector for the purposes of designing step footing for the purposes of erecting elevated platform.
- Construct project.
- Create and provide operations and maintenance manual.

- Provide as-constructed drawings.

Challenges/Solutions

The project had several challenges to overcome with this project. The first being that we had a hard deadline to meet so that the lab could be back in service. The next issue was upon removal of the existing concrete pad and earth beneath it, we found an abandoned steam line chase that had existing abandoned steam pipes that were wrapped in asbestos. This created our first delay in the process. Next came the excavation for the footing, and with it came multiple issues with the design of the footing due to existence of multiple vaults and utilities in this location. The design of the footing was re-engineered several times due to these existing conditions. Another aspect of this project was the fact that the structural engineer was located in Las Vegas, while the project was located in Illinois. Coordination of meetings between all parties presented some timing issues. Once the footing design was finally approved and poured in place, we then had to fast track the production of the steel platform to get back on schedule. Coordination of delivery of the HVAC unit and ducting had to also be altered due to the footing being redesigned several times. Through all this, communication between all parties was maintained and the project was delivered on time and on budget as required by the client.


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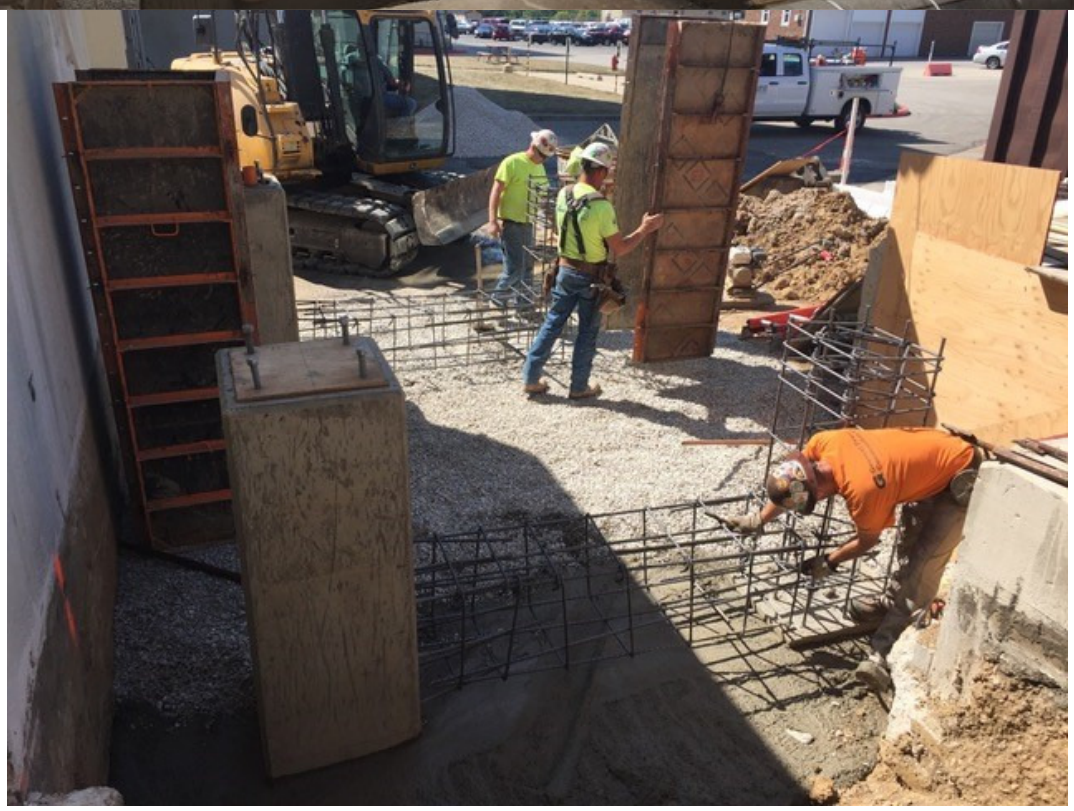


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