TRI-TECH
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1785 S. Metro Parkway
Centerville, OH 45459

"Established in 1977"

The Ohio State University Cannon Drive Relocation Phase 1

Columbus, OH

Construction Completion: 2018
Construction Cost: $36,000,000
Tri-Tech Services: Electrical Engineering

4 VIEW FROM NORTH EAST
NOT TO SCALE

2 VIEW FROM SOUTH EAST
NOT TO SCALE

Project Description

The city of Columbus and the Ohio State University contracted EMH&T, a Tri-Tech client, for engineering services to relocate Cannon Drive between John Herrick Drive and King Avenue. This relocation project would make twelve developable acres of land available to OSU's medical campus.

The project included constructing a new certified levee between the relocated Cannon Drive and the Olentangy River, providing flood protection for the OSU Medical Campus.

This first phase of construction included a new stormwater pumping station with backflow prevention measures, as part of the storm-sewer system to drain the campus area east of the levee when the river's level rises. The pump station provides flood protection from river flooding and localized storm events equivalent to a 500-year flood recurrence interval.

Tri-Tech provided designs for the electrical and controls for the pump station, including modified 13.2kV underground power distribution from the OSU substation to the pump station and modifications to other 13.2kV distribution cables and routing.

Tri-Tech's electrical design for the pump-station's power service included two independent 13.2kV circuits with an automatic source-selecting switch ahead of the 480V power transformer, a 480V automatic transfer switch, and 1MW generator after the transformer, plus a manual transfer switch for a 1MW mobile generator connection for a fourth possible power source.

The Tri-Tech design team for this project has been selected for the second phase of this project as well.