

Greater Dayton RTA Electrical Utility Replacement

Dayton, OH

Construction Completion: 2018
Size: 140,000 SF
Construction Cost: \$507,500
Tri-Tech Services: Electrical Engineering



Project Description

The Greater Dayton RTA's primary facility operated from multiple electrical services at different voltages. Greater Dayton RTA knew their old equipment and using more than one electrical service needed to change. A new service replacement was added, requiring 480V power. And RTA recognized the need to replace aging equipment and to consolidate the building onto one electrical service.

Working with the RTA, Tri-Tech evaluated the facility's existing electrical distribution. Tri-Tech then provided RTA with design options that most effectively consolidated their electrical service. The design included Tri-Tech's plan to replace existing distribution equipment and power requirements with new equipment. Tri-Tech discussed options with the owner and decided to provide a single 208V-3PH service to the building.

Tri-Tech planned to replace existing primary distribution, and to back feed existing panels throughout the building from the new service. Tri-Tech's designed also incorporated new transformers to be provided in locations requiring different operating voltages for existing and new equipment.

Based on these design decisions, Tri-Tech completed the design for the service replacement. To ensure the design met the owner's project budget, Tri-Tech provided Opinions of Probable Construction Cost.

Throughout the design process, and to help meet budget standards and reduce during construction, Tri-Tech sought to reuse as much of the existing distribution as possible. The existing pole-mounted utility transformers will be removed and replaced with a new pad-mounted utility transformer as well.

Tri-Tech thorough electrical design and committed to client care ensured a budget-friendly and timely construction process for RTA.