

Kettering Health Network Electrical-Utility Studies

Kettering, OH and Miamisburg, OH

Project Completion: 2013
Sizes: 1,136,575 SF and 382,055 SF
Tri-Tech Services: Electrical Engineering

Project Description

Kettering Health Network (KHN) commissioned Tri-Tech Engineering to perform electrical utility surveys for its Sycamore Hospital in Miamisburg, OH, and Kettering Memorial Hospital in Kettering, OH. The surveys were part of KHN's ongoing efforts to document existing facility conditions and simplify accreditation surveys.

Tri-Tech's electrical-utility surveys would provide the hospitals with a single document for each facility containing the entire facility single-line diagram, in addition to providing locations for the equipment utilized in the electrical distribution.

Tri-Tech compiled existing hospital as-built drawings and conducted multiple site visits to document the existing conditions and equipment information. Tri-Tech used their analysis and site-visit information to create new documents for each hospital.

Tri-Tech provided the hospital an accurate, up-to-date single-line diagram for the facilities, documenting equipment sizes and physical capacity—spare switches, breakers, and space for future expansion—as well as documenting separate branches of emergency power—life safety, critical, and equipment.

Large-format plans of the single-line diagram were printed in color and supplied to be used in the hospitals' main electrical rooms. The final electrical-utility product was provided to the hospitals in 11"x17" binders showing the entire electrical distribution on floor plans with the single-line diagram, enabling the facilities staff to reference up-to-date information about the electrical systems in their buildings.

