

Construction Inspection Services for the Replacement of 6 New Haven Line Substations Various Towns, CT

Project Description:

Location

Various Towns, CT

Owner

ConnDOT

Duration

2009 onwards

Prime/Sub

Prime

Construction Cost

\$25 million

AI Engineers Inc. was selected by ConnDOT to perform construction inspection services for the replacement of six (6) New Haven Line Substations, scheduled for sometime in 2010. The project includes the demolition of existing electrical traction substation facilities and related structures. The project also includes the construction of temporary and new substations and electrical delivery systems including underground and overhead facilities to convey power from the substations to the tracks as well as tie into existing facilities. Key construction tasks shall be civil/foundation, structural ductbanks, sitework and overhead structures.

In addition to the substations themselves, there are two to four auto-transformers at each location. The auto-transformers are to be furnished by Metro-North. The contractor is to refurbish, install and connect them.

Work will include inspection for the following: Substation Foundations, Auto Transformer Foundations, Substation Enclosure, Auto Transformers, High Voltage Switchgear, Cable and Conduit, Grounding, Ductbanks & Manholes. In addition, there is to be a new Supervisory Control and Data Acquisition system to control the operation of the substations.



Salient Features

- Demolition of Electrical Traction Facilities
- Replacing 6 New Haven Line Substations
- Underground & Overhead Electrical Cables
- Auto Transformers Furnished by Metro-North
- Civil/Foundation & Sitework
- New SCADA Systems