

Inspection and Testing of Traffic Signal Mast Arm Statewide, CT

Project Description:

AI Engineers was selected to perform inspection of 216 Traffic signal Mast Arm in 2008. The contract includes the hands-on inspection of all fatigue sensitive welds between the arm and vertical post and at the base of the post. Also, non-destructive testing procedure required when a crack or defect is spotted. The connection bolts are checked for looseness and where necessary torque all bolts for a tight fit.

Our firm manages and coordinates all activities associated with inventory and QC/QA. The project team consists of experienced bridge/structural engineers who also perform maintenance and protection of traffic (M&PT).

Tools and equipment used for these projects include bucket trucks, MPT, torque wrenches, D meters, dye penetrate test kit, etc. The software for design analysis is provided by the Connecticut Department of Transportation.

Sketches and drawings provided for newly inventoried mast arms. Traffic Signals will be grouped by intersection into one report including a location map of the intersection with structure numbers labeled and a representative photo of the intersection on the cover.

Final deliverables include an Executive Summary; Maintenance Memoranda if needed; and electronic photos. Maintenance and flagging memoranda are issued based on condition or degree of deterioration and need of timely maintenance and repair.



Salient Features

- Structural Condition Survey
- Tightening of Loose Connections and Perform Minor Maintenance
- Logging of New Structures
- Inventory and Data Compilation
- Non-Destructive Testing
- Verification of Minimum Vertical Clearance