

ConnDOT Inspection of Overhead Sign Structures Statewide, CT

Project Description:

Location

New London, CT

Owner

ConnDOT

Duration

2002 – 2005, 2006 - 2009

AI Engineers was selected to perform inspection of overhead sign support structures in 2002 (544 Structures) and in 2006 (485 Structures). The contract included the inspection of overhead sign support structures in accordance with the requirements of the Bridge Inspection Manual and Federal NBIS, 23CFR Part 650. The project includes cantilever, full-span and bridge mounted sign supports.

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 (MPT). Completed reports include overhead structure stability and design review, structure inventory and appraisal (BRI-49) sheet, and structure inspection notes.

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

Final deliverables include an Executive Summary; DOT Bridge Inspection (BRI) forms; Maintenance Memoranda if needed; Load Rating for certain signs 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 Sign Structures
- Design/Wind Load and Fatigue
- Analysis Where Required
- Inventory and Data Compilation
- Non-Destructive Testing
- Verification of Minimum Vertical Clearance

