

Devon Bridge High Tower Emergency Work



Garg Consulting
Services, Inc.

Under this Emergency Work Order, Garg Consulting Services, Inc. (Garg) performed engineering services to design the replacement of frayed guy wires supporting the three Catenary High Towers (862, 862A and 863) at Devon Bridge (Br. 08080R M.P. 60.42 on the New Haven Line). Garg also provided engineering support during construction.



Scope of work included, but was not limited to:

- Performing a visual site survey from ground level emphasizing the anchorages of the equalizing strands for the end towers 862 and 863.
- Providing signed and sealed drawings, per the Connecticut Digital Projects Development Manual, showing staging plans and construction sequence to be used when replacing the existing equalizing strands and ground lines.
- When issues with the original staging plans occurred, Garg provided staging loads and recommendations based on a modified construction sequence as needed.
- Investigation of modifications to the existing equalizing cables either by adjusting the cable tension or adding cables to maximize the strength of the existing hi-towers and by obtaining loads that are as balanced on the tower legs as possible.

Organization Name	Location	Project Duration			Dollar Amount	Prime/Sub-Consultant
		Contract Date	Start Year	Completion Year		
CTDOT	Stratford / Milford, CT	09/15/17	2017	2018	Project Cost	Prime
					\$200,000	