



MNR New Haven Line Catenary and Third Rail System Upgrade Traction power substation commissioning

This project involved inspection and testing during commissioning of the catenary and third rail system. Responsibilities included construction supervision; inspection, testing & commissioning; preparing punch-list; verifying and signing-off issues; and witnessing the test train run. Tasks included scheduling and staging during construction replacing existing fixed catenary with that of swing arm registry system having local and express tracks and taking outages for construction issues and working during regular busy/rush hours and week-end/holidays, and night time, particularly resolving the critical installation at the interlockings. Upgrade included TGV technology for trainloads, 3.5 miles of 750V-DC third rail and 18.5 miles of 2x12.5kV catenary system replacing existing with new contact/messenger wires, registering structures (fixed and moving) for both catenary contact and messenger wires, staggers overlaps, hangers, insulators, curve pulls, yoke and balance weights, end of line structure anchorage; rectifier substations (TPSS at Bronxville, Mount Vernon West and Pelham Manor), impedance bonds, reactors, sensationalizing/isolating switches, fiber optics with RTUs; substation interior/exterior lighting, FA, SACS and fan interlocks.

This project was completed on schedule and within budget. Mr. Majdood Siddiqui, PE (AG's employee and proposed commissioning engineer) worked on this project prior to joining AG.



Location:
Various locations, NY

Owner:
Metro North Railroad

Completion Date:
2014

Services Provided:
Commissioning

A.G. Consulting Engineering, PC
131 W 33rd Street, Floor 12
New York, NY 10001
212-268-0950
agceng@agceng.com
www.agceng.com