

Reconstruction of Bridge 1400-808, Mill Road over Watnong Brook

Township of Morris | Morris County, NJ



Van Cleef provided design services for the replacement of existing deteriorated 26.8-foot span rolled steel girder bridge with corrugated metal decking, with new precast concrete voided slab beams with composite concrete deck on new reinforced concrete substructure. The proposed bridge has a 29.5-foot span and a 30.0-foot-wide roadway, with 5.5-foot-wide sidewalks along both sides, for an out-to-out width of 44.83 feet. Superstructure included unique prestressed concrete channel beam to accommodate relocated gas line crossing the waterway. Project included approximately 100 Linear Feet of approach roadway reconstruction. Project design required the construction to be completed while maintaining traffic on an intersecting roadway that was 20 feet from the end of the existing bridge. Adjustments were made to the roadway vertical profile and drainage patterns to eliminate ponding water near one of the bridge abutments, which was identified as contributing to the existing structure deterioration. Project also included approximately 75 Linear Feet of Embankment Stabilization of eroded approach / waterway embankment along the township roadway approaching the bridge, with large diameter boulders, live stake treatments and erosion control materials.

CLIENT CONTACT

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PROJECT HIGHLIGHTS

- Complete Bridge Replacement
- Channel Embankment Stabilization
- Utility Coordination and Relocation
- NJDEP Flood Hazard and Freshwater Wetlands Permits
- ROW/Easement Acquisitions
- Coordination with Township Officials and Property Owners