

County Bridge #E-07, CR 631 over Wallkill River & NYS&W Railroad

Borough of Franklin | Sussex County, NJ



Van Cleef was contracted by the County of Sussex to provide design services for the replacement of the North Church Road Viaduct over the Wallkill River and New York, Susquehanna & Western (NYS&W) Railroad. The main viaduct was a 456-foot long, steel girder superstructure with a non-composite concrete deck, with an intersecting 200-foot-long steel girder with non-composite concrete deck, ramp framed in at the east side of the Wallkill River servicing a local street. This structure had undergone several rehabilitation projects in its life span and presently had a load restriction for truck traffic.

Work effort included: Structural design of the main viaduct replacement (North Church Street) as a 456-foot, five-span, multiple steel girder structure including a two-span continuous section, a three-span continuous curved section with an integral pier cap to provide minimum clearance over the railroad, a parallel 200-foot, two-span continuous multiple steel girder structure over the Wallkill River servicing Susquehanna Street, and five retaining walls; Roadway design including alignment for the relocated Susquehanna Street and improved roadway profiles; Geotechnical investigation and foundation design; traffic engineering for detailed detour plans and signing and striping plans; utility coordination and accommodation; topographic survey and right-of-way engineering; drainage system design and stormwater management plan including stormwater detention for water quality control; preparation and approval of NJDEP permit applications for Freshwater Wetlands General Permit, Flood Hazard Area Individual Permit with Riparian Replanting plan; Cultural resources including coordination with the NJ State Historic Preservation Office (NJHPO) related to design requirements of the North Church Street Viaduct and; extensive public outreach program to work with local residents and other stakeholders.

CLIENT CONTACT

Dept. of Engineering & Planning
County of Sussex
Newton, NJ

PROJECT HIGHLIGHTS

- ☞ County Client
- ☞ Structural Design
- ☞ NJDEP Permits
- ☞ Roadway Design
- ☞ Utility Coordination
- ☞ NJDOT Coordination
- ☞ Constructability Review
- ☞ Right of Way Engineering
- ☞ Construction Management
- ☞ Construction Inspection