

Rehabilitation of Wiltshire Park Pedestrian Bridge

Township of East Windsor | Mercer County, NJ



Van Cleef was contracted by East Windsor Township to provide final design and post-design construction support services for the rehabilitation of the Wiltshire Park Pedestrian Bridge over Bear Brook.

The existing structure is a 4'-8" wide, 30-foot long, single span, two-girder system supported by concrete abutments and served as a key route for local children to get to school before its closure due to its poor condition. The bridge deck and superstructure were beyond repair and in need of full replacement. The final design proposed to replace the bridge deck and superstructure in-kind by maintaining the existing bridge width, structural depth, and the low chord elevation while improving aesthetics and bringing the bridge up to current codes. Upgrades include using galvanized steel with a duplex paint system, installing an AASHTO compliant railing, and utilizing Advanced PVC deck boards. Repairs to the bridge seat, including the construction of a header is also proposed. Approach sidewalks are being replaced and improved to meet ADA requirements. A unique and major challenge for this project included an accelerated project timeline from Notice to Proceed through construction completion (less than 9 months) due to the Client's requirement of the bridge needing to be reopened by the start of the impending school year. This challenge was further amplified due to the bridge also being below the flood hazard elevation, which necessitated design and construction to be conducted in accordance with NJDEP permit by rule requirements in order to meet the project deadline.

CLIENT CONTACT

East Windsor Township
Community Development
East Windsor, NJ

PROJECT HIGHLIGHTS

- 🔩 Bridge Rehabilitation
- 🔩 Construction Inspection
- 🔩 Structural Steel Design
- 🔩 Accelerated Project Schedule