



GENERAL PROJECT DESCRIPTION

Ravi Engineering & Land Surveying, P.C. (RE&LS) provided design and construction inspection services as the prime for the Walnut Street Bridge (BIN 3316660) over Keshequa Creek is located in the Village of Nunda, Livingston County. The bridge is located on the east side of the village, approximately 400' north of the intersection with State Route 436 (Mill Street).

The existing bridge was a relatively light-duty truss constructed circa 1895. A major rehabilitation was completed in 1952, which improved the capacity of the bridge to 15 tons. There was sporadic corrosion damage and numerous welded repairs throughout the bridge, which were vulnerable to cracking or failure and the south abutment exhibited severe concrete deterioration and movement. In addition, the existing narrow deck width does not accommodate two-way traffic

RE&LS prepared a design report evaluating alternatives for rehabilitation or replacement of the existing bridge. The replacement option was evaluated to be the preferred alternative. The new bridge was widened to accommodate two-way traffic and was designed in accordance with all current standards. The superstructure consists of adjacent prestressed concrete box beams with a waterproof membrane and asphalt wearing surface. The substructures consists of steel sheet piles with a concrete seat supported by H-piles. The existing sheet pile wingwalls in the southwest and northeast quadrants were retained..

Owner: Livingston County

Client: Don Higgins

Services Provided: Highway Design, Environmental, Survey and Construction Inspection

Completion Date: 2014