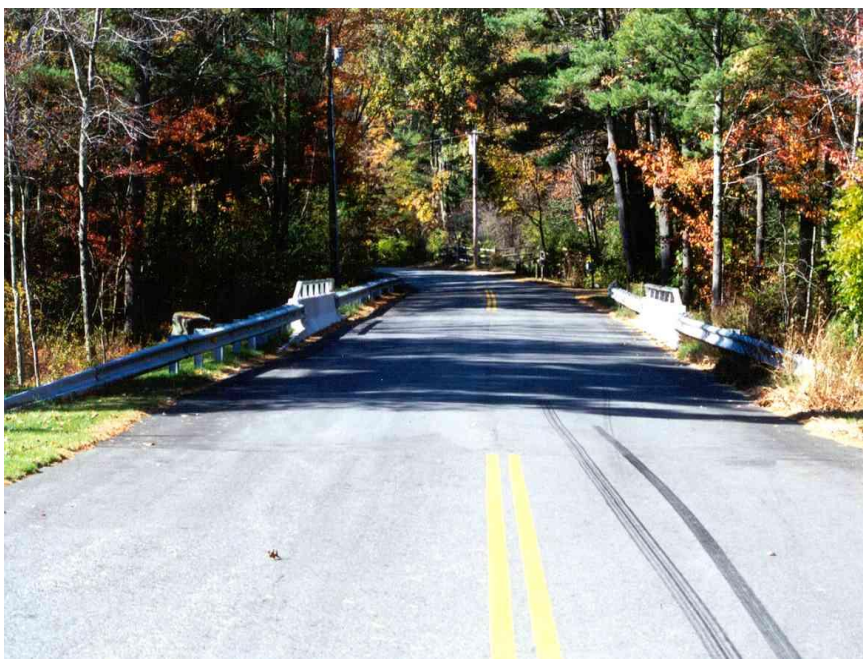


## Bridge Replacement / Geotechnical Engineering

HRP Associates, Inc. (HRP) prepared bridge replacement drawings and specifications for this bridge. The project involved removing the existing concrete bridge and installing pre-stressed concrete deck units and parapets on cast-in-place concrete abutments and bridge railing, as well as approximately 115 meters of roadway reconstruction.

As part of this work, HRP prepared topographic survey, hydrologic and hydraulic analysis, subsurface investigation, pile and sheeting design, structural design, and inland/wetlands permitting for the work. Of particular note was that due to seismic requirements, the bridge required the installation of end bearing piles to support the abutments.

In addition, the project required the design of left-in-place steel sheeting for use as a cofferdam during construction and storm protection of the footing during high velocity flood flows. This project was funded under the ISTEA program which entitles the town to 100% replacement costs for the bridge replacement with state & federal funds. HRP also performed shop drawing review, construction inspection, and project administration.



### FIRM

HRP Associates, Inc.  
197 Scott Swamp Road  
Farmington, CT 06032  
(860) 674-9570

### VALUE

\$500,000

- *The project involved removing the existing concrete bridge and installing pre-stressed concrete deck units and parapets on cast-in-place concrete abutments and bridge railing, as well as approximately 115 meters of roadway reconstruction*
- *This project was funded under the ISTEA program which entitles the town to 100% replacement costs for the bridge replacement with state & federal funds*