



VT ROUTE 110 OVER THE FIRST BRANCH OF THE WHITE RIVER

Tunbridge, VT

CLIENT

Vermont Agency of Transportation
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LOCATION

Tunbridge, Vermont

COST

Total Project Cost: \$3.8 Million

PROJECT COMPLETION

Dates of Service 2003 to 2007



DESCRIPTION

This project, located in the Town of Tunbridge, involved the replacement of VT Route 110 over the First Branch of the White River and the construction of a retaining wall along the west side of the northerly approach to the bridge.

The existing bridge was a two-span steel girder structure situated in a local urban compact. The close proximity of the abutting properties required limiting impacts as much as possible. The roadway geometry, which could not be altered significantly, placed the new bridge on 45-degree skew. The existing bridge also had historic characteristics which needed to be accounted for in the design of the new bridge. As VT Route 110 is an important thoroughfare, vehicular and pedestrian traffic had to be maintained during construction.

The new bridge was a replacement two-span steel girder bridge on a high 45-degree skew. New concrete abutments and a pier were constructed. The pier was detailed to replicate the existing pier as much as possible to preserve its historic nature. An ornamental rail with ornamental lights was added to the new bridge to enhance the aesthetics of the bridge. A temporary bridge was constructed to maintain traffic throughout construction. A large retaining wall was constructed at the northwest corner of the project to limit impacts to an adjoining property. The wall was faced with a stone replicating treatment to also complement the aesthetics of the area.

- Preliminary and Final Bridge Design
- Contract Plan Preparation
- Unique Bridge Geometrics
- Aesthetic Improvements
- Landscape Plans
- Cost Estimating
- Construction Services