



Deteriorated deck & pier

BRUNSWICK BRIDGE 6

BF 0271(23)

REPLACEMENT OF BRIDGE NO. 6 ON VT102 IN BRUNSWICK, OVER PAUL STREAM.

Project Location: Town of Brunswick in Essex County on VT 102 over Paul Stream. The bridge is located approximately 4.8 miles south of the intersection of VT 102 and VT 105.

This project will replace the existing bridge, which is in poor condition, with a new bridge on the same alignment. The existing bridge is three span, two lane structure which was constructed in 1932. The bridge is 87-feet in length. The existing bridge superstructure (deck and beams) is composed of concrete t-beams, as well as a concrete slab, and are in poor condition with areas of significant concrete spalling and exposed rebar on the underside of the deck. Additionally, the existing bridge railing is not structurally adequate for modern design standards.

VTrans has evaluated various alternatives for the replacement of the VT 102 bridge over Paul Stream. The criteria assessed for the proposed design included the roadway alignment, right of way impacts, wetland and archaeological resources, aesthetic requirements, bridge railing, and hydraulics. Several alternatives were considered including no action, repair and rehabilitation, superstructure replacement, and full bridge replacement. Given the poor condition of both the superstructure and substructure components, it was recommended that a full bridge replacement be undertaken.

The new bridge will be composed of a paved concrete deck on curved steel girders. However, the new structure will be lengthened to approximately 107-feet and become a single span structure to aid in passing larger hydraulic flows. Additionally, the bridge will be widened from approximately 22' wide to 28'. The new bridge will feature 10' lanes and a 4' shoulder in each direction. The bridge railing will be galvanized 3-rail box beam guardrail meeting state standards.

The new bridge will be constructed on the same alignment as the existing bridge, while maintaining vehicular traffic on a one-lane temporary bridge downstream of the existing bridge.

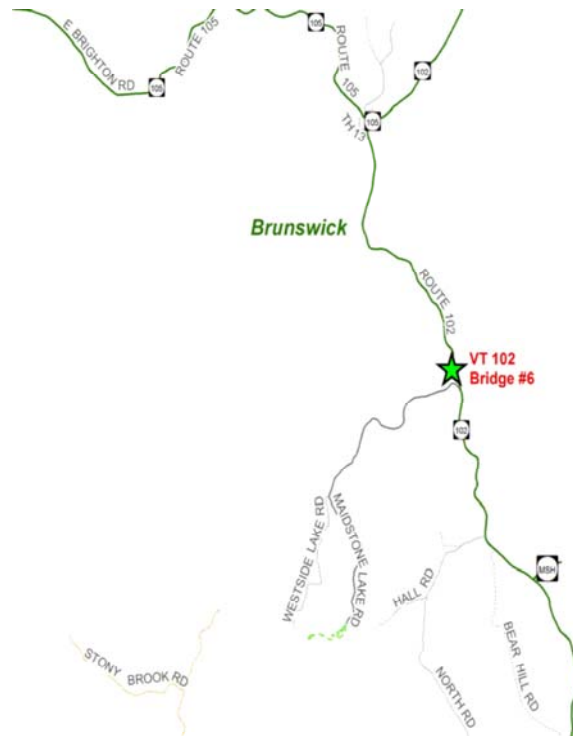


Deteriorating Pier and Deck



Reduced Hydraulic Capacity

Accommodations for Traffic During Construction: A one-way temporary bridge will be constructed downstream of the existing bridge.



Link to project sharepoint site:

<https://outside.vermont.gov/agency/vtrans/external/Projects/Structures/13c056>
<https://outside.vermont.gov/agency/vtrans/external/Projects/Structures/13c056>

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