

Killington

US Route 4 Bridge 33

Killington BF 020-2(42)

Project Location: Town of Killington in Rutland County on US Route 4 over the Ottauquechee River. The bridge is located approximately 1.0 mile west of the intersection of US Route 4 and VT Route 100 in the Town of Bridgewater.

The Killington BF 020-2(42) Bridge 33 project will replace the existing bridge, which has substandard shoulder widths, non-crash-tested approach and bridge railing, and is considered structurally deficient. The new bridge will meet all current Vermont State Design Standards except shoulder width, which will be improved and will match the typical width in the US Route 4 corridor. The bridge is a single span cast in place deck on rolled steel beams constructed in 1956. The existing bridge structure is 67 feet in length and 29.8 feet wide. The bridge deck is in poor condition.

VTrans evaluated alternatives for replacement of Killington US Route 4 Bridge 33 in an engineering study completed in November 2014. The study assessed the proposed design criteria for the bridge and roadway alignment, right-of-way impacts, hydraulics, and biological, historical and archaeological resources. Several alternatives were considered including no action, repair and rehabilitation, superstructure replacement and full bridge replacement. Given the age of the structure and existing structural and geometric deficiencies, and the importance of the corridor, the engineering study recommended full bridge replacement using accelerated construction methods maintaining traffic on an off-site detour. A 10 day closure is proposed, with periodic lane closures preceding and succeeding the 10 day closure.

The new bridge will be a Precast Pre-stressed Concrete NEXT Beam Bridge or Prefabricated Bridge Unit bridge, built of prefabricated steel beams and concrete deck. Integral abutments on piles are the likely foundation choice. The new bridge will be approximately 73 feet in length and 40 feet wide including two 12-foot travel lanes and two 8-foot shoulders. The new bridge will feature a 3 rail box beam bridge rail with box beam approach rails terminating beyond the bridge.

The bridge will be constructed during the summer of 2018.



Looking west



Deck Patch



Looking East



Target Construction Schedule: 2018

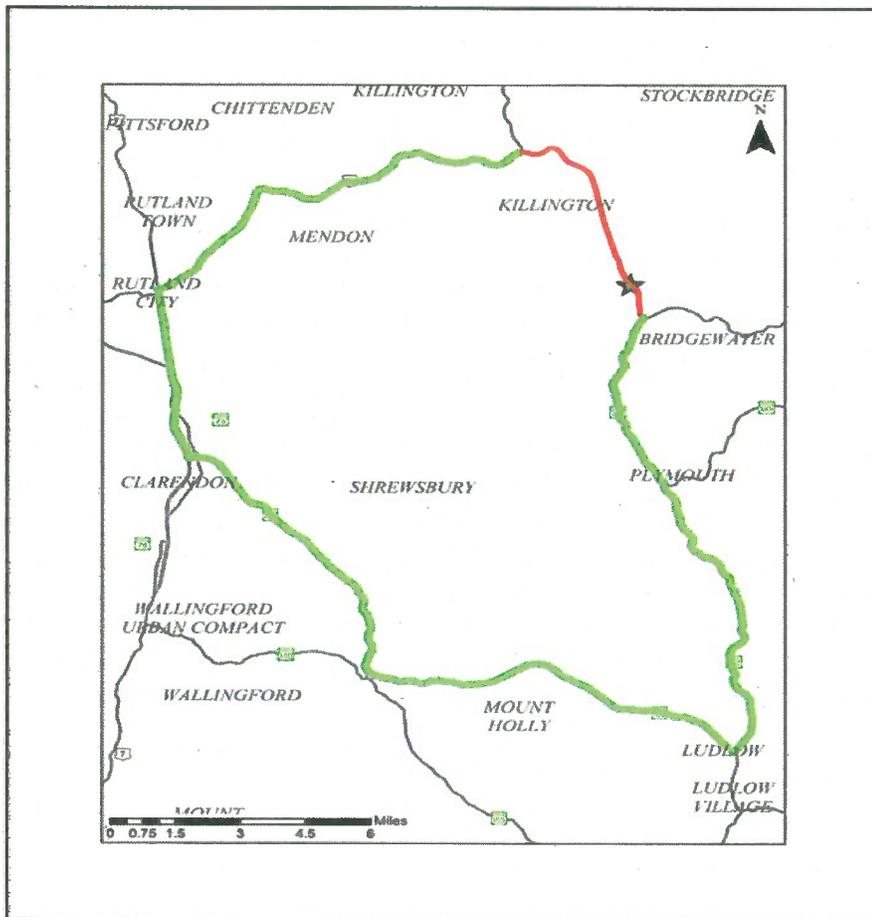
Contractor: TBD

Cost: TBD

VTrans Project Manager: TBD

VTrans Resident Engineer: TBD

Detour Route: Head south on VT 100 from the intersection of VT 100 and US 4. Turn right onto VT 103 in Ludlow. Follow VT 103 west to US 7 in Clarendon. Follow US 7 north and turn right onto US 4 in Rutland. Follow US 4 to VT 100 in Killington. Turn left onto VT 100.



Detour Map



Deck Deterioration



Looking Southwest



Deck Fascia Deterioration



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