

Cavendish Bridge 1



Cavendish Bridge 1 – ER BRF 0146(13)

Closed to Through Traffic 6/23/14 thru 7/25/14

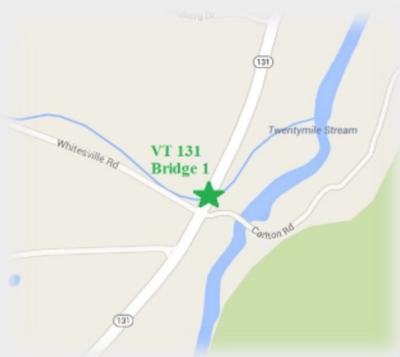
Project Location: Town of Cavendish in Windsor County on VT 131 over Twenty Mile Stream. It is located approximately 3.1 miles east of the VT 131 / VT 103 junction.

The Cavendish VT 131 Bridge 1 project will replace the existing bridge, which has structural deficiencies, with a new bridge that meets current design standards. The existing Cavendish VT 131 Bridge 1 is a two span, two lane structure which was constructed in 1947. The bridge is 128-feet in length and 30-feet wide.

During Tropical Storm Irene, the southern abutment was significantly undermined, extending approximately 2 feet below the bottom of the footing, and 7 feet back from abutment footing. The abutment cracked vertically near the middle of the bridge in two locations between girder (beam) lines. Following the storm, an emergency grout bag repair was placed below the undermined southern abutment to stabilize the structure. Stone fill was added to the stream banks and against the abutments to stabilize the channel. During an inspection following the emergency repair, the bridge's structural capacity of the girders (beams) and stability of the substructure (abutments) were found to be deficient and need to be replaced.

VTrans evaluated alternatives for replacement of Cavendish VT 131 Bridge 1 in an engineering study completed in September 2012. The design addressed the proposed design criteria for bridge and roadway alignment, right of way impacts, hydraulics, cultural and environmental resources. During the design phase, concerns were expressed with potential impacts to nearby residences, right of way impacts, and the length of the bridge closure period.

The new bridge will be a single-span steel girder bridge. The bridge will be constructed with Accelerated Bridge Construction methods, which will expedite construction and reduce disturbance to the public. Construction will be complete on August 22nd, 2014.



PROJECT MILESTONES

- Bid Advertisement
Summer 2013
- Contract Award
Fall 2013
- Closure Schedule
June 23rd—July 25th, 2014
- Target Project Completion
August 2014



Easterly View

Cavendish Bridge 1



Target Construction Schedule: Construction activities will take place beginning in June 2014. The allowable bridge closure period is from 7:00 AM on Monday, June 23, 2014 to 6:59 PM on Friday, July 25, 2014. During the bridge closure period, the contractor will be allowed to work 7 days per week, including holidays. Night work (9:00 pm to 6:00 am) is allowed, and has a noise restriction of 75 decibels measured from the nearest occupied residence. The total project work is scheduled to be completed by August 22, 2014.

Contractor: The Contractor for VT 131 Bridge 1 is Cold River Bridges, LLC

Cost: Bids were opened on September 5th, 2013 and the low bidder was Cold River Bridges, LLC at \$1,756,378.

Detour Route: During construction, traffic will be rerouted on VT 103 / VT 10 / VT 106.

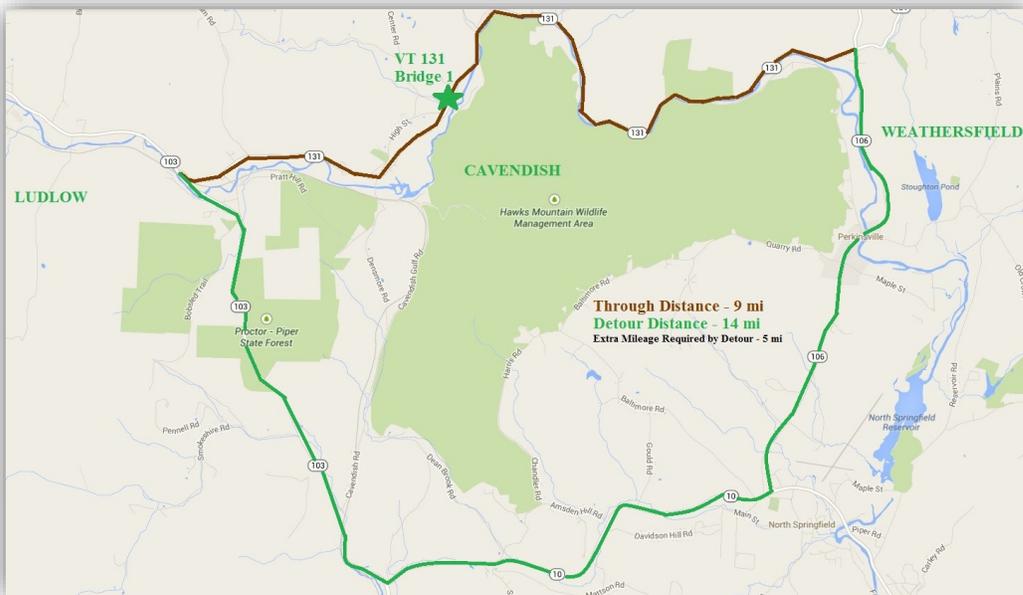
Through Distance: 9 mi Detour Distance: 14 mi

From the East:

Drive 4.5 miles south on VT 106. Turn right on VT 10 and drive 4.5 miles west. Turn right onto VT 103 and travel north for 5 miles. Arrive at junction with VT 131.

From the West:

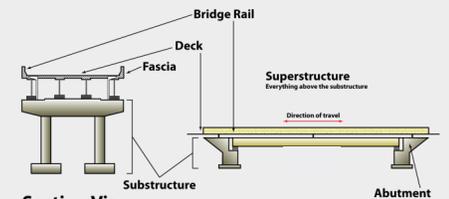
Drive 5 miles south on VT 103. Turn left on VT 10 and drive 4.5 miles east. Turn left onto VT 106 and travel north for 4.5 miles. Arrive at junction with VT 131.



Downstream View of Bridge 1



Upstream View



Single Span Steel Girder Bridge



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