



Weathersfield

Vermont Route 131 Bridge 15 over Mill Brook

Project Facts

- The existing culvert meets the hydraulic standard, but does not meet bank full width.
- There are no mapped wetlands, plants of special concern, or hazardous waste sites in the project area.
- Utility relocation is not anticipated.
- The acquisition of permanent Right of Way is not anticipated.
- This project is not expected to be done in the Accelerated Bridge Program.
- No road closures are expected.
- There is a waterfall adjacent to the project. No impacts are expected.



Upstream Waterfall

Weathersfield STP 0146(16)

Project Location: Town of Weathersfield in Windsor County on Vermont Route 131 over Mill Brook. Bridge 15 is located approximately one third of a mile west of the intersection with TH-1, Weathersfield Center Road, at approximately mile marker 5.8275

The Weathersfield Bridge 15 project includes the repair of the existing 11 ft. dia. multi-plate pipe culvert. The culvert currently has a rating of 5, "Fair" and has cracking along the bolt line. The culvert was installed in 1959 and is 114 ft. in length. There are signs that the culvert is deforming or squashing. There are no known roadway deficiencies in the project area.

VTrans evaluated alternatives for rehabilitation or replacement of the culvert in an engineering study completed in December 2014. The study assessed the proposed design criteria for the bridges/culverts, existing conditions, rare/threatened/endangered species impacts, archaeological resources, and wetland resources. Several alternatives were considered including no action, rehabilitation using a couple of lining techniques, replacement using trenchless technology, and replacement using open cut. The engineering study recommended repair of the culvert using either slip lining (adding a new liner inside the existing culvert) or spray on lining (a new geopolymer mortar sprayed on the inside of the culvert). Both of the repair methods can be designed to provide full or partial structural integrity.

Since the roadway seems to meet the standards contained in the Vermont State Standards no changes to the roadway are proposed for this project.

Minor traffic impacts are expected, consisting of mostly delays caused by entry and exit of the work zone by construction vehicles. No closures or detours are planned.

Target Construction Schedule: It is anticipated that construction activities will take place beginning in June 2019 and last one construction season.

Contractor: TBD

Estimated Total Project Cost (including engineering and contingencies): +/- \$800,000

VTrans Project Manager: Nick Wark, PE

VTrans Resident Engineer: Unknown at this time



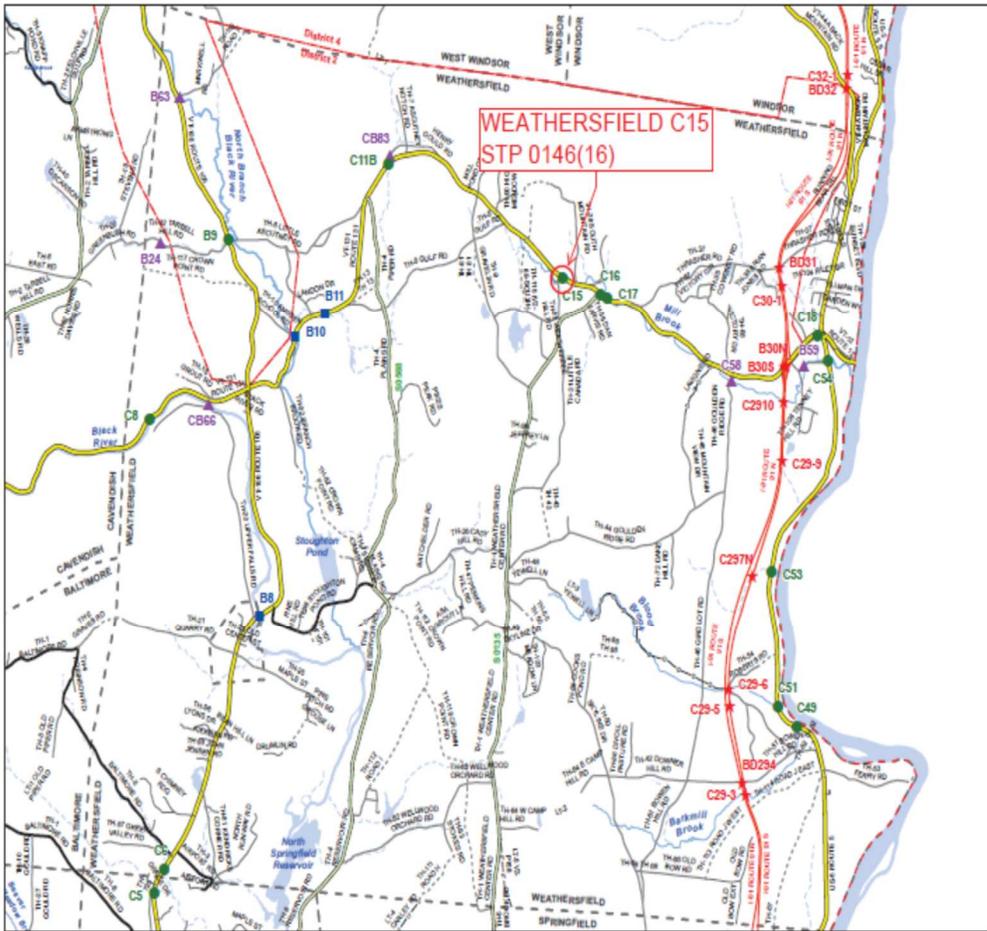
Upstream Waterfall and Stone Headwall



Outfall



Interior Condition



Bridge Location Map



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