



Weathersfield

Interstate 91

Bridges 30N and 30S over VT Route 131

Weathersfield IM 091-1(69)

Project Location: Town of Weathersfield in Windsor County on I-91 at exit 8. Bridge 30N (south end) begins at approximately mile marker 51.35. The Interstate bridges cover approximately 200 linear feet of VT Route 131, which passes below and begins at mile marker 8.20. The angle between I-91 and VT 131 is about 48 degrees.

Project Facts

- No changes to roadway geometry are anticipated.
- There are no watercourses, biological or cultural resources within the project area, which may have required special permits.
- The work is proposed to be performed in phases, with alternating lane closures.

This Interstate bridge maintenance project addresses structural deficiencies and deterioration in the existing deck, superstructure, and substructure. Deck replacement is recommended to address concrete damage in curbs and fasciae. Repairs will also be made to deteriorated expansion joints. New crash-tested bridge and approach railing is recommended. Several beams have been damaged by over-height truck impacts from below and need repair. There are a number of repairs needed to the substructures including patching deteriorating surfaces, crack repair, and repair of some beam seats.

Although some geometric features are slightly substandard, there are no plans to modify the existing Interstate alignments or grades. Shoulder widths are narrow, but will be maintained. This is not a high crash location, so it is recommended that this the project scope be contained in order to make the best use of the remaining service life in the bridge.

VTrans evaluated alternatives for rehabilitation or replacement of these bridges in an engineering study completed in July 2015. The study assessed the proposed design criteria for the roadway, including any rare/threatened/endangered species impacts, archaeological resources, and wetland resources. Several alternatives were considered for each bridge, including no action, deck repairs, deck replacement, superstructure replacement, and complete replacement.

Given the observed concrete deterioration and uncertainties associated with the condition of other portions of the decks, the engineering study recommended full deck replacement and rehabilitation of steel girders and substructures. The work will be done in phases, with alternating closures of one lane on each bridge. Periodic lane closures on VT Route 131 (below) are also required in order to access to the bottoms of bridge beams that need repair. This project is expected to add approximately 20 years of service life to the I91 bridges.



I91 Bridge 30N—Looking north

Target Construction Schedule: Bid Fall 2019, Build 2020

Contractor: TBD

Estimated Total Project Cost (including engineering and contingencies): Approx. \$2.7 M

VTrans Project Manager: Wendy Pelletier, PE

VTrans Resident Engineer: TBD

Detour Route: None anticipated



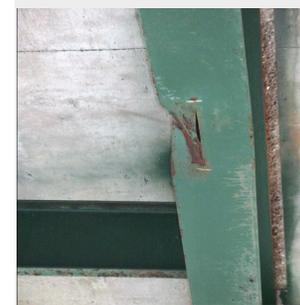
Bridge 30N, looking north



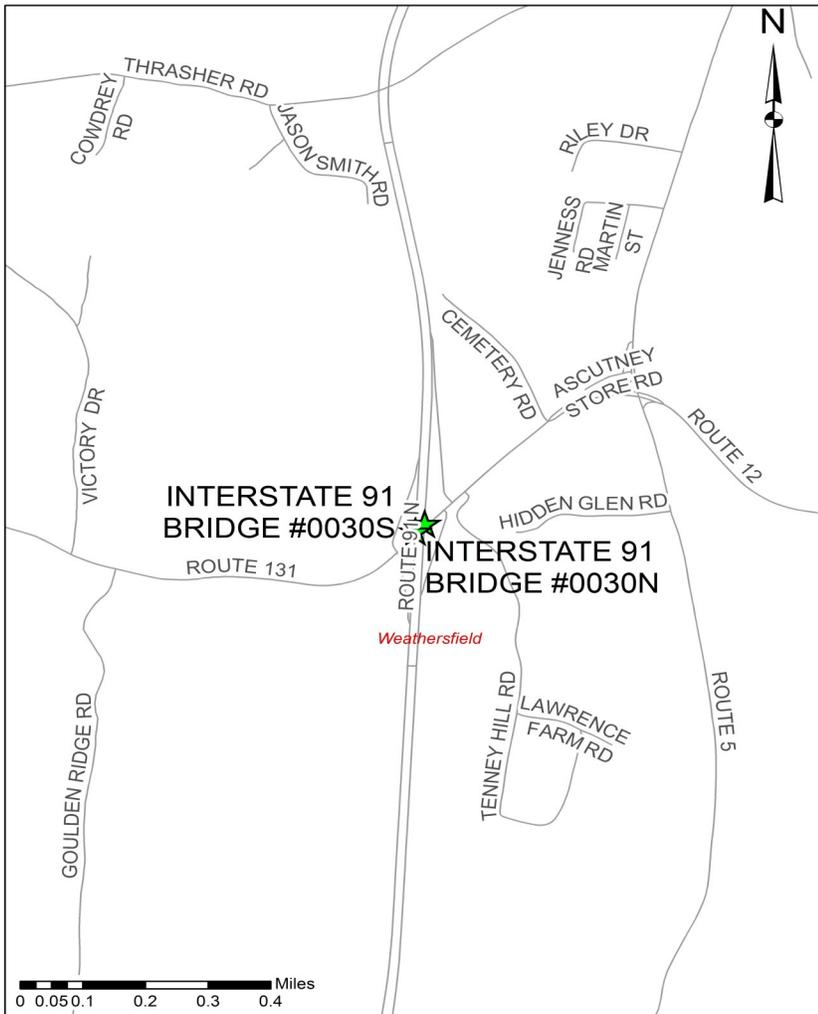
Bridge 30S, looking north



Deteriorated Concrete Fascia BR 30S



Impact damage to Steel BR 30S



Bridge Location Map



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