



# Westminster

## Interstate 91, Bridges 21 North & South

### Westminster IM 091-1(70)

**Project Location: Town of Westminster in Windham County on Interstate 91 over The Saxtons River and Saxtons River Rd (VT 121) . The bridges are located approximately 2.4 miles north of exit 5 along Interstate 91 (I-91).**

#### PROJECT MILESTONES

Preliminary Plans

July 2016

Permitting

Sept. 2014– Summer 2018\*

Final Design

February 2017

Right-of-Way Complete

Fall 2018

Bid Advertisement

Fall 2020 (Funding Delay)

Contract Award

Fall 2020

Target Construction Schedule

Spring 2021– Fall 2022

\*Extended to still be in effect during Construction

The Westminster I-91 Bridges 21 North and South were built in 1963 and consist of 7 and 8 span cast-in-place decks on rolled steel beams. The 35 foot wide bridge structures are 534-feet and 542-feet in length, respectively. This project will replace the existing decks and repair the piers and pier caps.

The existing bridges have a substandard width, approach rail and bridge railing and are considered structurally deficient. All these conditions will be addressed by the project. The superstructure beams are in good condition, but the deck components are only in fair condition. The substructures are in fair to poor condition, as a result of the deteriorated deck sections above, which allow water to seep onto the bridge seats, damaging the pier caps.

VTrans evaluated alternatives for rehabilitation of Westminster I-91 Bridges 21 N&S in an engineering study completed in October 2014. The study assessed the proposed design criteria for the bridge and roadway alignment, right-of-way impacts, hydraulics and wetland and archaeological resources. Several alternatives were considered including no action, repair and rehabilitation, deck replacement, superstructure replacement and full bridge replacement. Because of the structure’s age and condition, the study recommended a deck replacement with phased construction.

Both bridge decks will be completely removed and replaced, as will the substandard bridge and approach rails. Deck joints will be eliminated or replaced to provide additional protection to the underlying superstructures. Deteriorated and loose concrete on the piers will be removed and repaired. The steel beams will be repainted in coordination with the deck repairs, since costly scaffolding will be in place.

A new Cathodic (electrical) protection system will be installed to slow future concrete deterioration from deicing salts and moisture. The new decks will be the same length as the existing ones, but will be widened slightly on each side, resulting in two 4’-8” wide shoulders and two 12-foot travel lanes for each bridge. The new decks will feature F-shape concrete bridge rail with Heavy Duty Steel Beam approach rails.

The bridges will be reconstructed in turn using crossovers which will transition both directions of traffic on to one bridge, so the other may be more safely repaired and upgraded.



Looking North , along I-91



**Target Construction Schedule:** Construction activities are planned to begin in the spring of 2021 and last two full construction seasons.

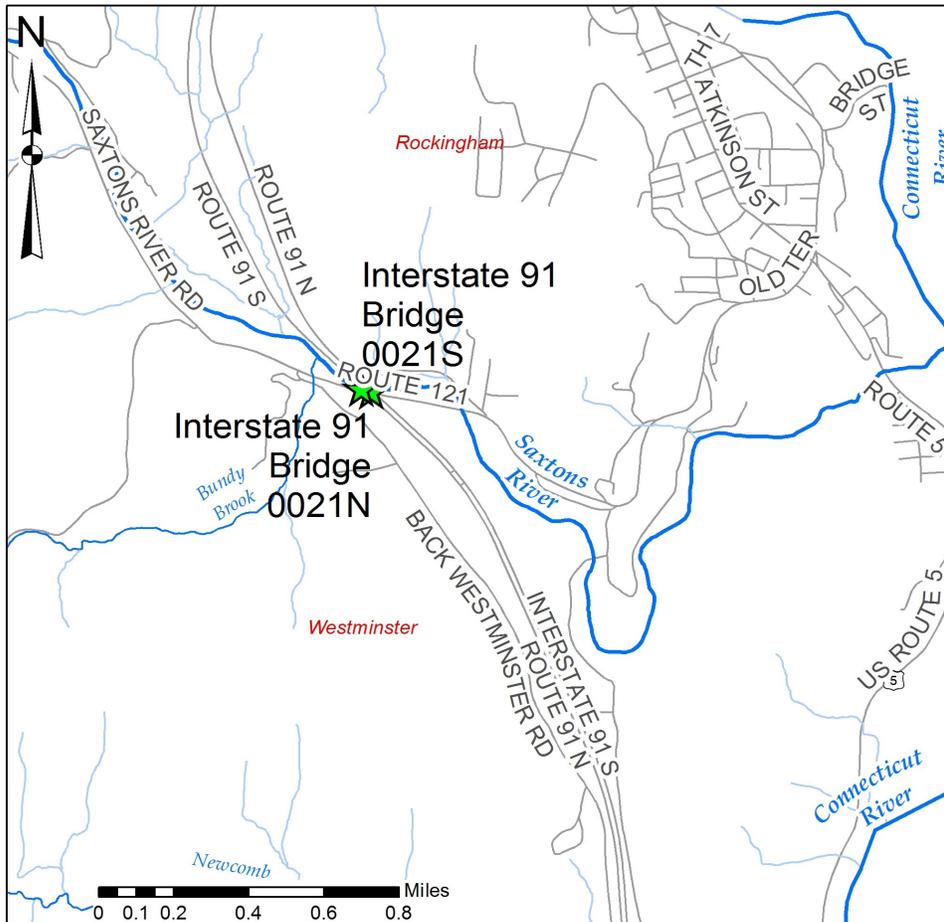
**Contractor:** To be Determined

**Estimated Total Project Cost (including engineering and contingencies):** ~7 Million Dollars

**VTrans Project Manager:** Wendy Pelletier, PE

**VTrans Resident Engineer:** To be Determined

**Traffic Control:** Construction will be maintained in both directions using a crossover.



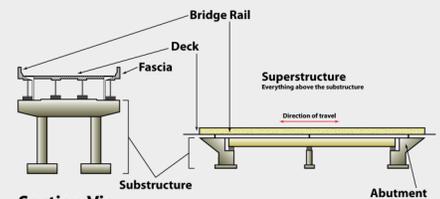
Bridge Location Map



Saxtons River and Saxtons River Road looking Downstream



Saxtons River and Saxtons River Road looking Upstream



Section View

Generic Bridge Element Description



<https://www.facebook.com>



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For more information, please go to the following file:  
<https://outside.vermont.gov/agency/vtrans/external/Projects/Structures/13A098>