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AGENCY OF TRANSPORTATION

Middlesex

US 2 Bridge 55

Middlesex Bridge 55 — IM 089-2(41)

Project Location: Town of Middlesex in Washington County on US Route 2 over Interstate 89 and the New England Central Railroad (NECR). The bridge is located approximately 1.9 miles east of the intersection of US 2 and VT 100B.

PROJECT MILESTONES

Preliminary Plans
Spring 2012

Permitting
Fall 2014

Final Design
Spring 2015

Bid Advertisement
February 2016

Contract Award
Spring 2016

Target Construction Schedule
Construction Seasons '16-'18

The Middlesex US 2 Bridge 55 project will replace the existing bridge, which is in poor condition, with a new bridge on a new alignment to the east of the existing alignment. The existing Middlesex US 2 Bridge 55 is a nine span, two lane structure which was constructed in 1960. The bridge is 660-feet in length and 35-feet wide. The bridge superstructure is in fair condition but the multiple substructure components are in poor condition. There are multiple areas of spalling and chipping on the fascias and the underside of the concrete bridge deck, and the piers caps and bearing seats are also in very poor condition.

VTrans has evaluated various alternatives for the replacement of Middlesex US 2 Bridge 55. The criteria assessed for the proposed design included the roadway alignment, right of way impacts, wetland and archaeological resources, aesthetic requirements, interstate impacts, and railroad impacts. Several alternatives were considered including no action, repair and rehabilitation, superstructure replacement, and full bridge replacement. Given the poor condition of both the superstructure and substructure components, it was recommended that a full bridge replacement be undertaken.

The new bridge will be of similar construction as the existing bridge with a paved concrete deck on steel girders. However, the new structure will be a three-span structure. The new bridge will be 512-feet in length and 40-feet wide featuring two, 12-foot travel lanes and 6-foot shoulders. The new bridge will feature a two-rail, galvanized steel box beam bridge railing with protective fencing over the railroad and standard snow fencing over the interstate. The new structure will also incorporate non-corrosive reinforcing in the deck to aide in extending the design life of the new structure.

The bridge will be constructed over the course of three construction seasons from 2016 to 2018. Due to the complexity of the structure and it being over both the interstate and a railroad, the new bridge will be constructed on a new alignment, which will allow vehicular traffic to be maintained on the existing bridge during construction.

Looking at the Bridge from I-89 SB

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Target Construction Schedule: It is anticipated that construction activities will take place beginning in July 2016. The bridge will be constructed during the 2016 and 2017 seasons and the existing structure will be removed in 2018.

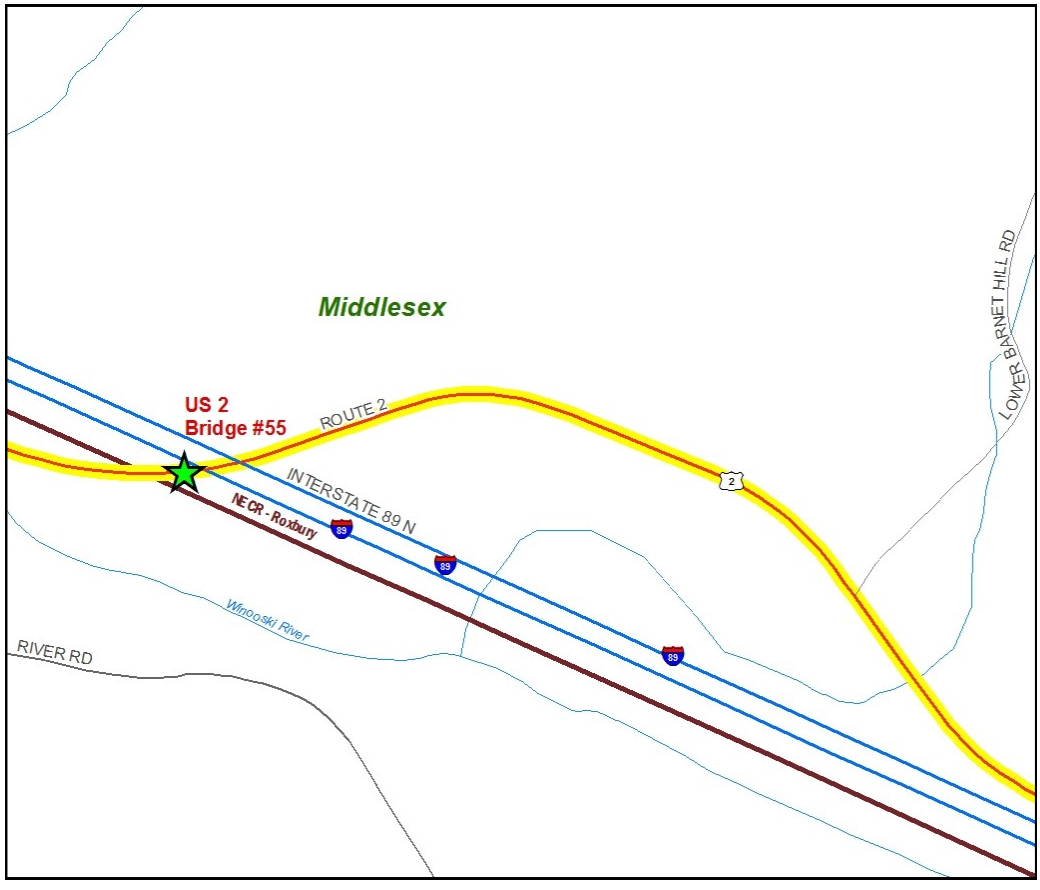
Contractor: Beck & Bellucci, Inc.

Cost: $9,580,340

VTrans Resident Engineer: Tom Mancini

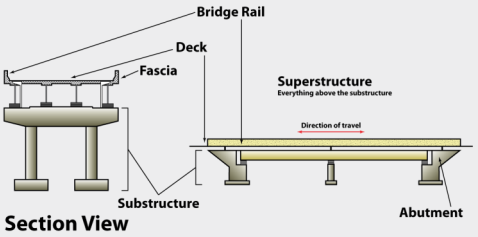
VTrans Project Manager: Doug Bonneau, P.E.

Accommodations for Traffic During Construction: Traffic will be maintained on the existing bridge and alignment for the majority of the project while the new bridge is constructed. At times, alternating one-way traffic should be anticipated for brief periods throughout the day for certain construction activities.



For more details, click here.

Top Surface of Bridge



Section View

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