



Richford

TH 3 (N Branch Road/FAS 0302) Bridge 6

Richford Bridge 6 – BRF 0302(29)

Project Location: Town of Richford in Franklin County on TH 3 over the Berry Brook. The bridge is located approximately 1.2 miles west of the intersection of TH 1 (River ST) and TH 3 (N Branch Rd).

PROJECT MILESTONES

Preliminary Plans	March 14, 2014
Permitting	August 27, 2014
Final Design	August 26, 2014
Right-of-Way Complete	October 2, 2014
Bid Advertisement	February 6, 2015
Contract Award	March 9, 2015
Target Construction Schedule	April 2015 - September 2015

The Richford TH 3 (N Branch Road) Bridge 6 project will replace the existing bridge, which has a substandard width and bridge railing, does not have adequate hydraulic capacity and is considered structurally deficient, with a new concrete arch that meets current design standards. The existing Richford TH 3 Bridge 6 is a single span, Concrete T-Beam bridge which was constructed in approximately 1900 (the exact construction year is unknown). The bridge is 26-feet in length and 23-feet wide. There are areas on the substructures where the concrete has spalled off and left the steel reinforcing showing. Additionally, there has been undermining and settlement of the substructures.

VTrans evaluated a number of alternatives for the replacement of Richford TH 3 Bridge 6 in an engineering study completed in February 2013. The study assessed the proposed design criteria for the channel alignment, right of way impacts, hydraulics, scour and wetland and archaeological resources. Several alternatives were considered including no action, preventative maintenance with a concrete apron, and full bridge replacement. Given the age of the structure and existing structural and geometric deficiencies, the engineering study recommended full bridge replacement using Accelerated Bridge Construction (ABC) methods with an offsite detour.

The new bridge will be a Precast Concrete Arch or Rigid Frame, which has a relatively short construction period and comparatively low construction and maintenance costs. The new bridge will be 28-feet in length and 29-feet wide including two 10-foot travel lanes and two 3-foot shoulders. The new bridge will feature a 2-Rail Box Beam Galvanized Bridge Rail system which will be an upgrade from the current bridge railing, which has no approach rail and is of inadequate height.

The bridge will be constructed during the summer of 2015 using Accelerated Bridge Construction methods, which will expedite construction and reduce disturbance to the public. There will be an allowable 28 day road closure with temporary single lane closures prior to and following the bridge closure period.



Bridge Fascia

Target Construction Schedule: Construction activities will take place beginning in June 2015. The allowable bridge closure period will be for no more than 4 weeks. The contractor will choose the four week bridge closure period based on their schedule. The contract is scheduled to be completed by September, 2015.

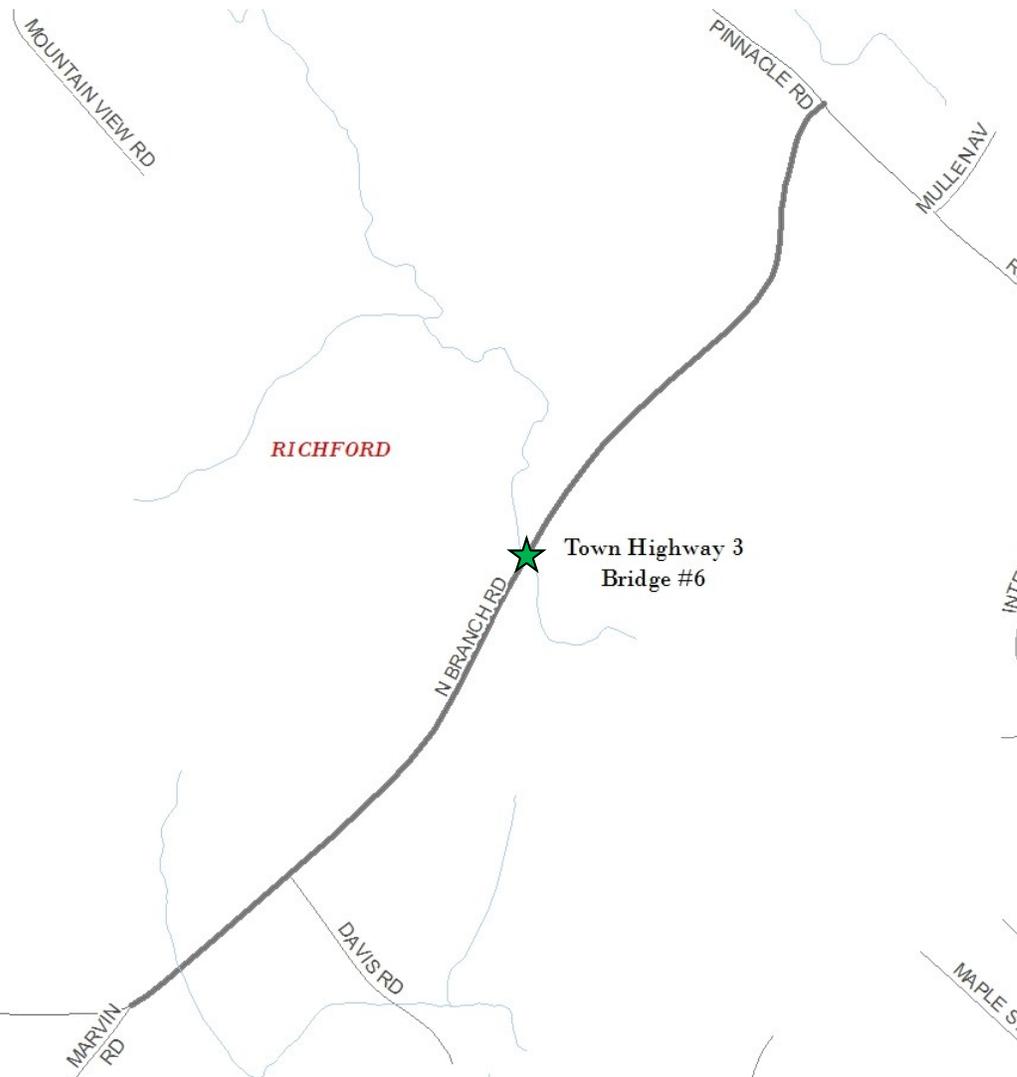
Contractor: G.W. Tatro Construction, Inc.

Cost: \$459,111.00

VTrans Resident Engineer: Scott Wheatley

VTrans Project Manager: Carolyn W. Carlson, P.E.

Detour Route: Traffic will be maintained on an off site detour. The town is responsible for choosing and signing the detour route.



Bridge Location Map

[For more details, click here.](#)



Vertical Crack in Abutment—Indicates Differential Settlement



Exposed Rebar Under Concrete Rail



Exposed Footing—Indicates Scour



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