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AGENCY OF TRANSPORTATION

Shrewsbury

TH 4 (Lincoln Hill Road) Bridge 37

Shrewsbury Bridge 37 – STP 1443(44)

Project Location: Town of Shrewsbury in Rutland County on TH 4 over a branch of the Mill River. The bridge is located approximately 0.25 miles east of the intersection of TH 4 and VT 103.

The Shrewsbury TH 4 (Lincoln Hill Road) Bridge 37 project will replace the existing bridge that is in substandard condition. Bridge 37 is a 6-foot diameter by 65-foot long steel pipe that outlets into a 10-foot high by 10-foot wide by 26-foot long concrete arch. The new structure will be a Precast Concrete Arch, Frame, or other similar product as determined by the Contractor and approved by the Agency of Transportation.

VTrans evaluated multiple alternatives for the replacement of Shrewsbury TH 4 Bridge 37 in an engineering study. Each alternative addressed the proposed design criteria for the bridge and roadway alignment, right of way impacts, hydraulics, and historical as well as archaeological resources. During the design phase, concerns were expressed with potential impacts to nearby residences, right of way impacts, the length of the bridge closure period, and sight distances. Given all of the different interests this alternative was chosen to be the most effective as measured by cost, time, and impacts.

A new Precast Concrete Arch or Frame structure was chosen because these types of structures have a relatively short construction period and comparatively low construction and maintenance costs. The new structure will be 120-feet in length and have a minimum span of 12-feet including two 9-foot travel lanes and two 2-foot shoulders. The new structure will have footings placed 6-feet below streambed for scour protection, as well as flared wingwalls for improved hydraulics.

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. This project is on an accelerated schedule and will be constructed during an allowable road closure period of 28 days with temporary single lane closures prior to and following the bridge closure period.

PROJECT MILESTONES

Preliminary Plans
May 24, 2011

Permitting
March 22, 2012

Final Design
May 30, 2013

Right-of-Way Complete
April 22, 2014

Bid Advertisement
September 12, 2014

Contract Award
October 24, 2014

Target Construction Schedule
April 2015 - September 18, 2015

Facing Upstream at the Concrete Arch

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Construction Schedule: Construction activities will take place beginning in June 2015. The allowable bridge closure period will be no more than 28 days and will take place between July 6th and August 3rd 2015. Construction activities will continue after the bridge is re-opened with project completion scheduled by September 18, 2015.

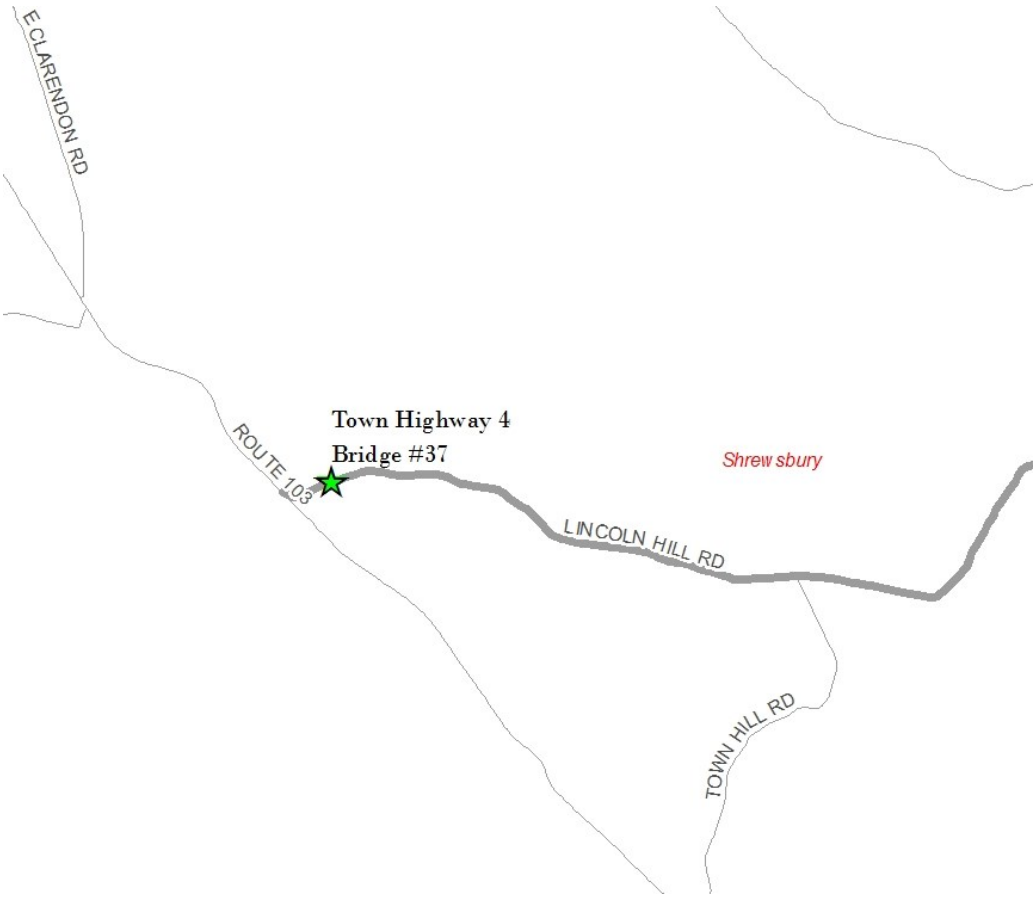
Contractor: Casella Construction, Inc.

Cost: $751,670.82.

VTrans Resident Engineer: Timothy Pockette

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

Detour Route: During construction, traffic will be rerouted onto a local detour as determined by the town.



Bridge Location Map

For more details, click here.

Arch / Pipe Interface

Facing Upstream at the Pipe

https://www.facebook.com

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