



Brookfield

VT 65 Bridge 2

Brookfield BRFLBR(2)

Project Location: Town of Brookfield in Orange County on VT 65 at Sunset Lake. The bridge is located approximately 0.05 miles southwest of the intersection of VT 65 and TH 1 in Brookfield's Sunset Lake.

PROJECT MILESTONES

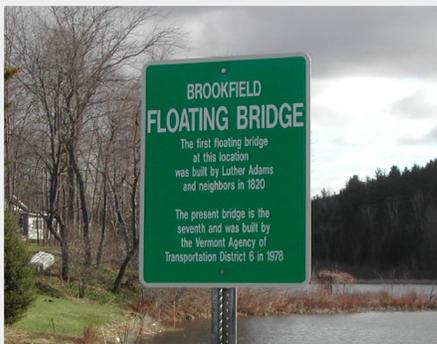
Preliminary Plans	Spring 2013
Permitting	Summer 2013
Final Design	Summer 2013
Right-of-Way Complete	Summer 2013
Bid Advertisement	Winter 2014
Contract Award	Winter 2014
Target Construction Schedule	Sequenced throughout 2014

The Brookfield VT 65 Bridge 2 project will replace the existing bridge which carries traffic across Sunset Lake in Brookfield. The bridge is in poor condition as the flotation system supporting the bridge has failed and the bridge is partially submerged. Further analysis concluded that the 380, 50-gallon barrels were leaking and deteriorating. As a result, the heavy timber structure supporting the deck became submerged in the water and was determined to be unsuitable for pedestrian and vehicular traffic. Subsequently the bridge was closed on May 15, 2008.

The existing bridge is a single lane floating bridge constructed in 1936 and reconstructed in 1978. The bridge is 318 feet in length and 20 feet in width including a 12 foot wide single travel lane and two 3 foot 8 inch wide elevated sidewalks. The floating bridge is listed in the National Register of Historic Places as a contributing element in the Brookfield Village Historic District.

VTrans evaluated alternatives for replacement of Brookfield VT 65 Bridge 2 in an engineering study completed in February 2013. The design addressed the proposed design criteria for bridge and roadway alignment, right of way impacts, hydraulics, historical and archaeological resources, and historic aesthetic requirements.

The historic bridge will be replaced with a design that preserves the structure and aesthetics. The final design was generated with extensive public input, including a bridge committee formed exclusively to work on this project. The new bridge will replicate the appearance of the existing structure and will employ a state-of-the-art flotation system in place of the 50'gallon barrels. The flotation will be made up of fiber reinforced polymer (FRP) pontoons with an anticipated design life of 100 years. The FRP flotation will be able to be maintained and replaced without pulling the bridge out of the water. The deck, runners, sidewalk, and plank railing will be constructed of timber. A number of improvements have also been incorporated into the project including the addition of sidewalk ramps in the approaches, widening the sidewalks on the bridge from 3 feet 8 inches to 5 feet, and increasing the pedestrian rail height to conform with current codes. These improvement will maintain the historic appearance of the existing structure.



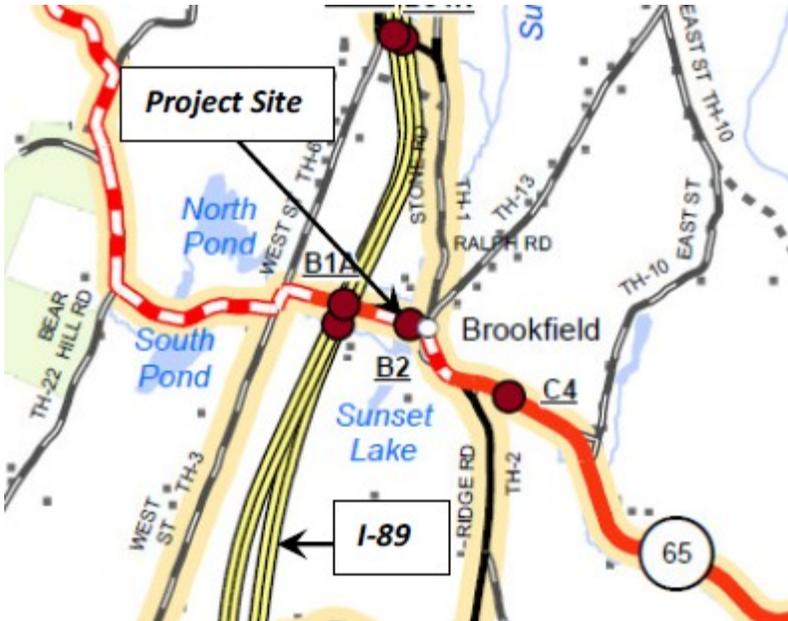
First Bridge Built in 1820



Target Construction Schedule: Construction activities will take place beginning in April 2014. The contract is scheduled to be completed by May 22, 2015. The bridge will remain closed to all pedestrian and vehicular traffic for the duration of construction.

Contractor: The Contractor for VT 65 Bridge 2 is Miller Construction, Inc.

Cost: Bids were opened on February 21, 2013 and the low bidder was Miller Construction, Inc. at \$2.4 million.



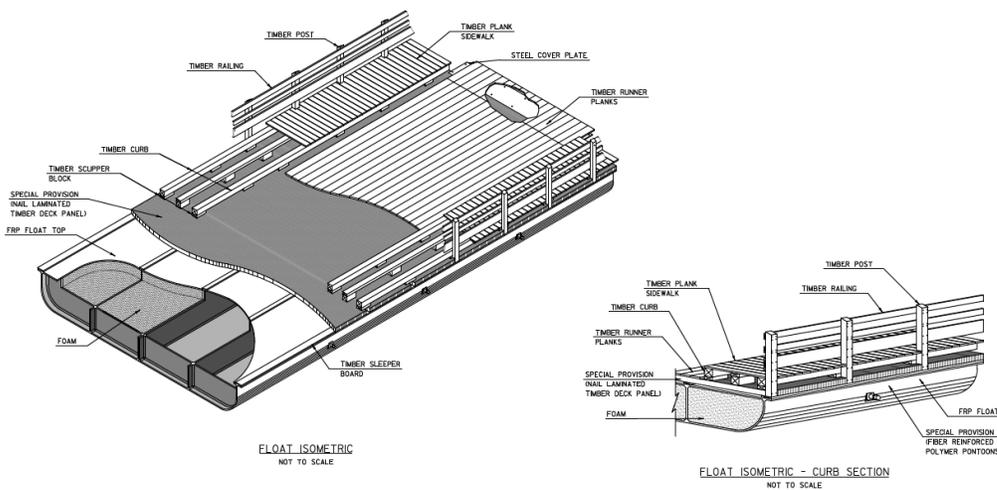
Location Map



Bridge Deck Submerged



Bridge Inspection



Isometric Views of Replacement Structure



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