

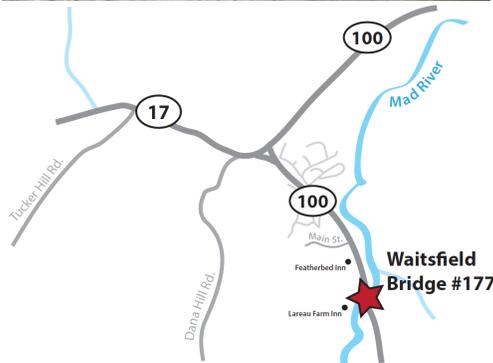


# **Waitsfield**

## VT ROUTE 100 Bridge 177

### Waitsfield BRF 013-4(39) Bridge 177 over the Mad River

**Project Location:** Bridge 177 is located in the Town of Waitsfield in Washington County on VT Route 100. The bridge is located 0.8 miles south of the junction with VT 17.



The Waitsfield Bridge Project will replace the existing bridge, which was built in 1938 and is now in poor condition. The design of the new bridge will improve safety, meet current design standards and address geometric deficiencies.

VTrans evaluated alternatives for rehabilitation or replacement of the bridge in an engineering study completed in November 2012. The study assessed the proposed design criteria for the bridge and roadway alignment, right of way impacts, hydraulics, and natural and historical resources. Several alternatives were considered including no action, rehabilitation and deck replacement, and a new structure on the existing alignment. Given the age and condition of the structure, the engineering study recommended a new structure while maintaining traffic with an offsite detour.

The new bridge will have a single span of 180 feet and a skew of 45 degrees to match the channel. The final design increases the roadway width to 32-ft. to accommodate wider travel lanes to meet Vermont State Standards. The bridge design includes future trail access below the new bridge.

The bridge will be replaced using Accelerated Bridge Construction (“ABC”) methods, which provides many advantages over conventional construction. With ABC, the major bridge components will be constructed off-site and then installed using heavy lifting equipment. ABC techniques will minimize construction-related impacts by moving as much work as possible out of the roadway, reducing the construction period to a single construction season, and minimizing impacts to adjacent property owners and environmental resources.

The new bridge will be built with a road closure while maintaining traffic on an offsite detour on local roads. The 10-mile long detour route will route traffic on Route 100 to Route 17 to German Flats Road and Sugarbush Access Road.

VTrans will secure the work zone by closing a portion of VT 100 within the work area and establishing the detour route. The contractor will then demolish the existing structure and construct the new bridge.

The estimated duration of the detour route is 35 days, beginning in mid June after school is out. The public will be notified in advance of the closure.

#### PROJECT MILESTONES

- > Bid Advertisement  
September 2015
- > Construction
  - Start  
April/May 2016
  - Est. Bridge Opening  
July 2016
  - Completion  
September 2016

#### CONTRACTOR & COST

- > A.L. St. Onge
- > \$4,220, 668.15





# Waitsfield BRIDGE PROJECT

### Detour Route

**From the North:** Take Route 100 South to Route 17. Bear right on Route 17 and drive west toward Fayston. Bear left on Germantown Flats Road south and connect to Sugarbush Access Road in Warren. Bear left on Route 100 North toward Waitsfield.

**From the South:** Take Route 100 to Sugarbush Access Road in Warren. Turn left and proceed west on Sugarbush Access Road to Germantown Flats Road. Bear right onto Route 17 and drive east to connect to Route 100 in Waitsfield.



Through Distance: 3 miles

**Detour Distance: 7 miles**

Total driving distance: 10 miles

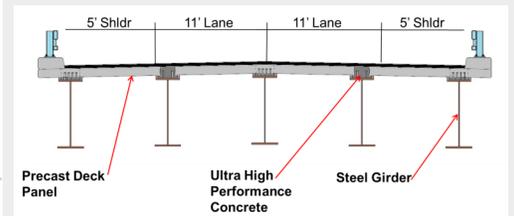
Extra mileage required by detour: 4 miles



*Deteriorating concrete*



*Pier deterioration*



*Cross Section*

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### Project Website:

<http://waitsfield.vtransprojects.vermont.gov>