



Ludlow

VT Route 103 Bridge 25

BRF 025-1(42) over the Black River

Project Location: Town of Ludlow in Windsor County on Vermont Route 103 (Main Street) over the Black River. The bridge is located near the intersection with Elm Street.

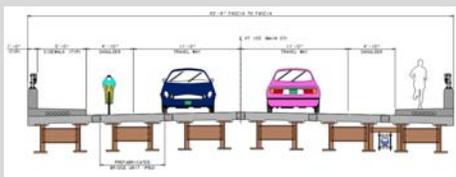
Benefits of Accelerated Bridge Construction:

- Reduces construction time
- Improves safety for workers and the traveling public
- Increases quality of bridge components
- Eliminates need for temporary bridge construction
- Reduced impacts to:
 - Environmental Resources
 - Utilities
 - Right-of-Way

The Ludlow Vermont Route 103 Bridge project will replace the existing structure with a new structure that meets current design standards. The existing bridge, which was built in 1928, is 86' in length with two 43' spans. The two lane bridge has a curb-to-curb width of 23.8' and 5' sidewalks. The approach roadway width is approximately 33', resulting in a difficult transition to the narrower bridge structure. The existing bridge is in fair condition with noticeable deterioration and spalling on all parts of the structure. Several safety issues were identified in the bridge inspection report including the bridge superstructure geometry, roadway approach transitions, and substandard approach roadway guardrail.

VTrans evaluated alternatives for replacement of Ludlow Vermont Route 103 Bridge in an engineering study completed in June 2010. The study assessed the proposed design criteria for the bridge and roadway alignment, utilities, natural resources and cultural resources, and hydraulics. Several alternatives were considered including no action, steel beam/concrete deck superstructure, precast/pre-stressed concrete box beam superstructure, and precast/pre-stressed concrete NEXT Beam superstructure. The study recommended full bridge replacement using Accelerated Bridge Construction (ABC) methods with an offsite detour.

The new bridge will be a Prefabricated Bridge Unit (PBU) type Superstructure, which has the shortest construction duration of the alternatives and therefore will reduce impacts to the public. The new structure will have 11' travel lanes and 4'-10" shoulders, and minimum 5'-0" sidewalks, which will improve sight distances and result in safer travel conditions. The bridge design will feature a Tenney Railing with a partial height concrete parapet with steel tubing for design consistency with the adjacent Ludlow Village Historic District.



Cross Section

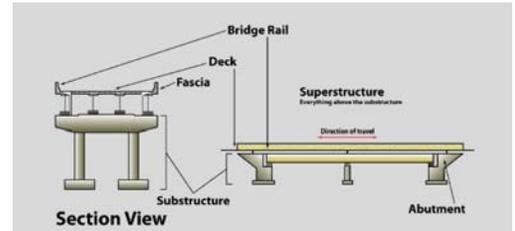


Schedule: The Ludlow BRF 025-1(42) project will be advertised in the Fall of 2016 and constructed in the Summer of 2017.

Detour Route: During construction, traffic will be rerouted on VT 103/VT 11/VT 100.

From the North: Traffic coming southward on VT 155 would take VT 100 and southward toward Londonderry. Turn left onto VT 11 and continue toward Chester. Bear left onto VT 103 north. Traffic coming westward on VT 131 would turn left onto VT 103 and proceed southward to Chester. Turn right on VT 11 in Chester and turn right on VT 100 in Londonderry and travel northward towards Ludlow.

From the South: Traffic coming northward on VT 103 would turn left on VT 11 and travel westward toward Londonderry. In Londonderry, turn right on VT 100 and



Bridge Components



Detour Map



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For more information click [here](#).

