



Public Informational Meeting Vermont Route 100 Bridge Replacement

July 13, 2015





VT 100 over the Mad River Bridge Replacement

Presented By

- **Rob Young, P.E.**
Project Manager – VTrans
- **Tom Kendrick, P.E.**
Senior Bridge Engineer – McFarland Johnson
- **Dave Kull, P.E.**
Bridge Engineer – McFarland Johnson





VT 100 over the Mad River Bridge Replacement

Agenda

- **Introductions**
- **Existing Bridge Condition**
- **Proposed Structure**
- **Proposed Closure Date & Duration**
- **Proposed Detour Route**
- **Questions**





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Existing Bridge

- Originally constructed in 1938
- Bridge is structurally deficient
- Less than desirable roadway width (22-ft)





Bridge Condition Rating

- **Bridge Deck: 4 (Poor)**
- **Bridge Superstructure: 6 (Satisfactory)**
- **Bridge Substructure: 5 (Fair)**
- **Overall Sufficiency Rating: 54 (Out of 100)**



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Existing Bridge





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Existing Bridge





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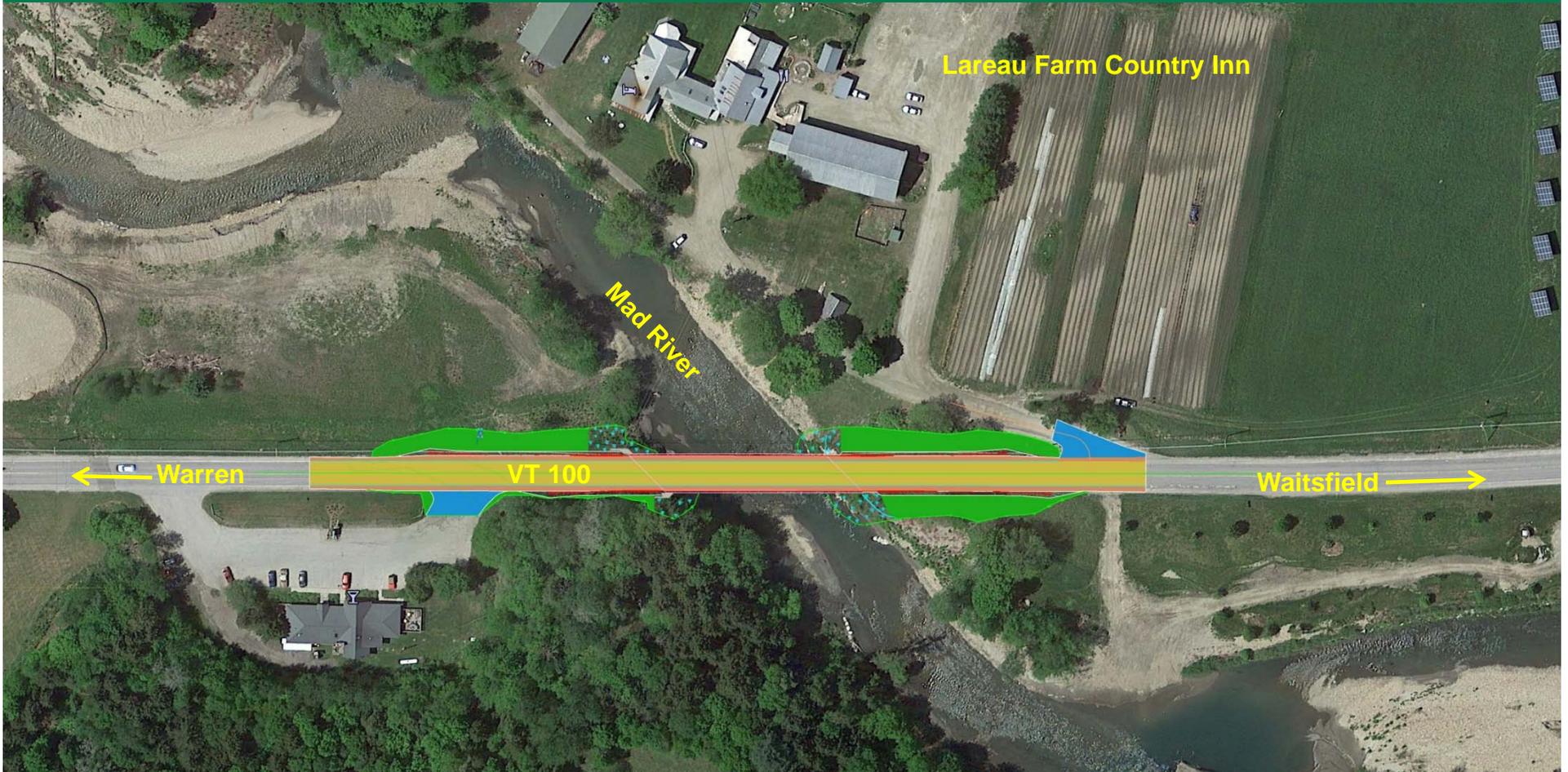
Existing Site





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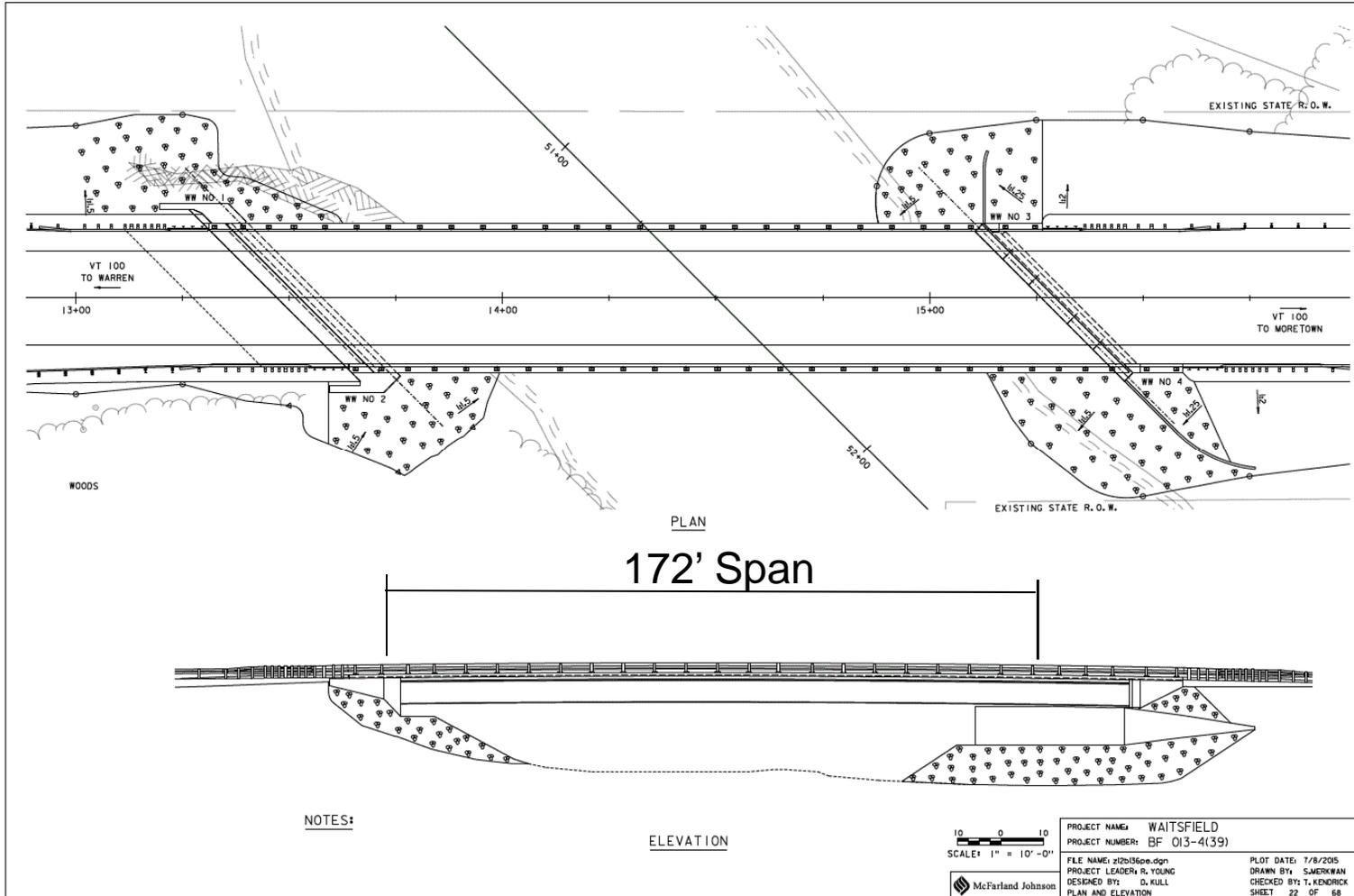
Proposed Improvements





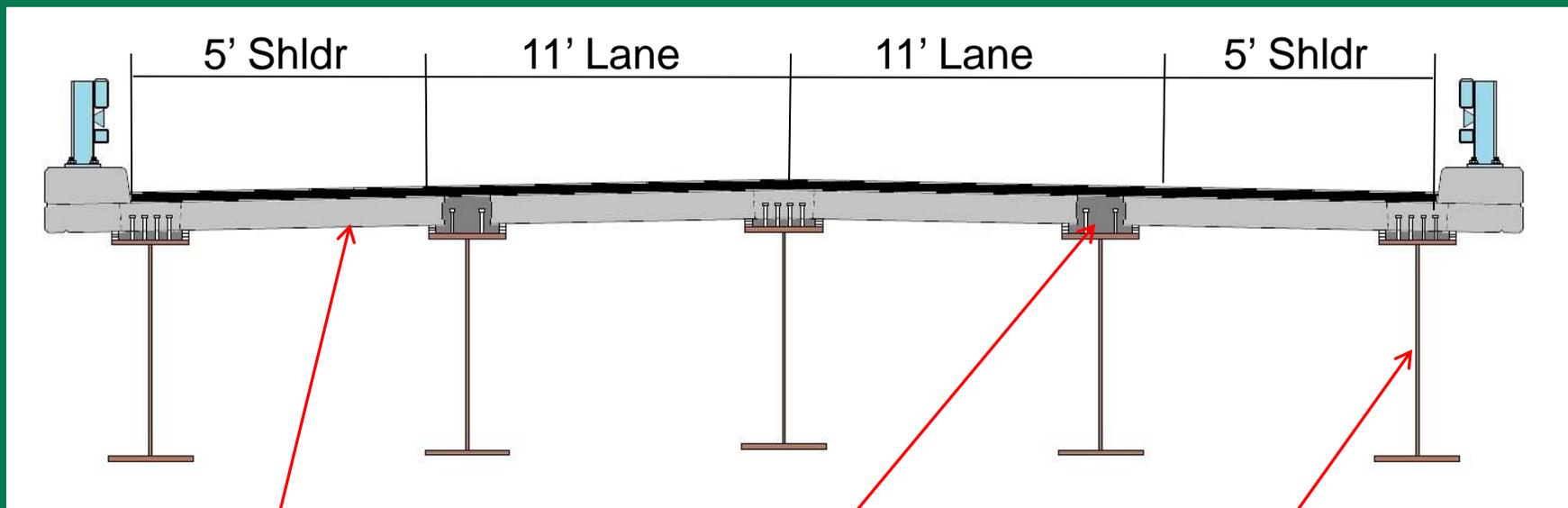
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Proposed Bridge



Proposed Bridge Section

- 11' Lanes, 5' Shoulders



Precast Deck
Panel

Ultra High
Performance
Concrete

Steel Girder



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Method of Construction: Accelerated Bridge Construction *Building Bridges While Minimizing Traffic Disruptions*





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Deck Panel Placement

- 38 Panels to be Placed





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Deck Panel Placement





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Ultra High Performance Concrete Placement





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Pre-Assembly





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Rock Removal



Mechanical Rock Removal Methods can be Slow and Disruptive





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Rock Removal

Approximate
Blasting Area



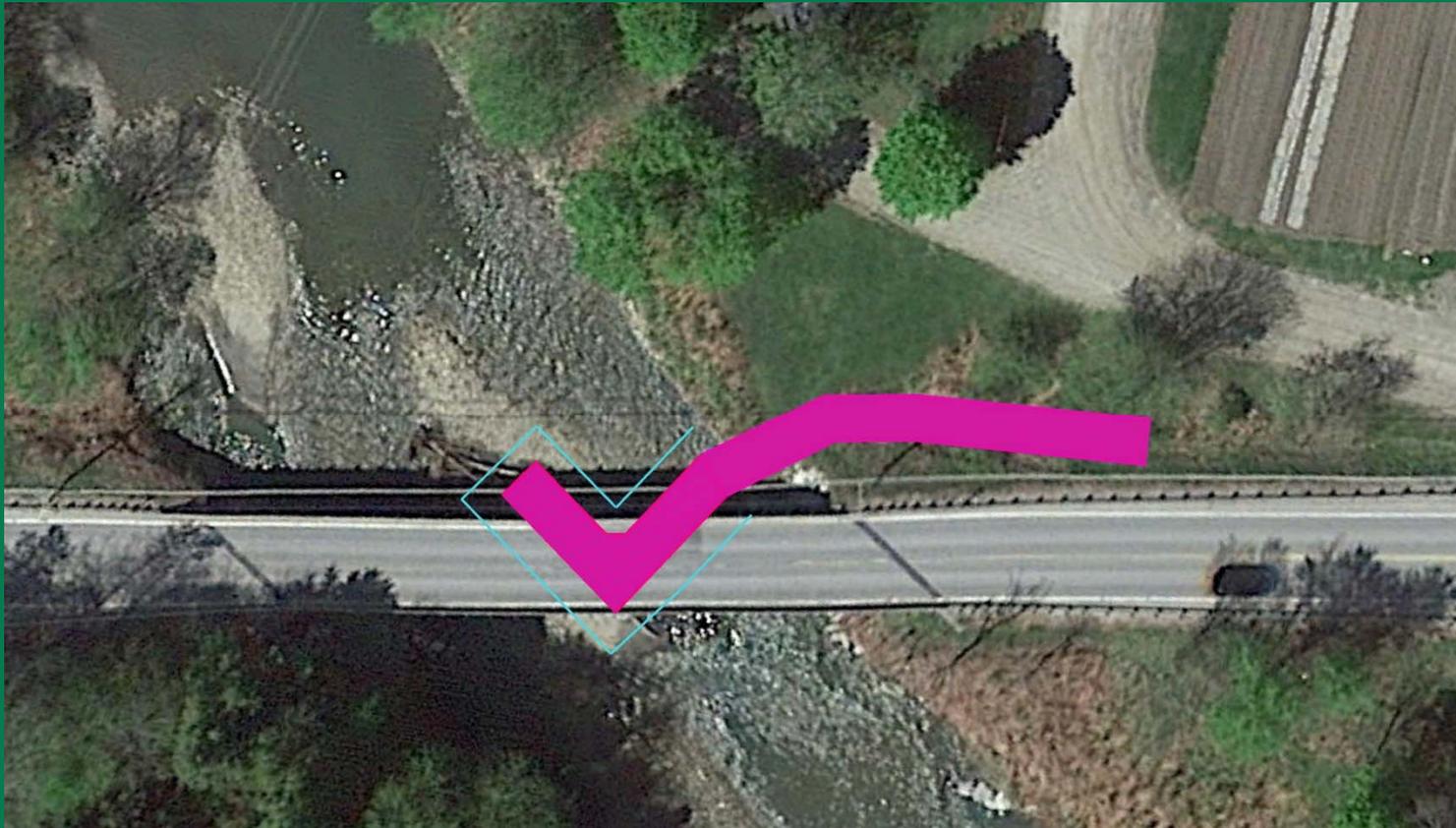
**Rock Blasting Will be Used to Reduce
Removal Time and Disruptions**





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Pier Removal



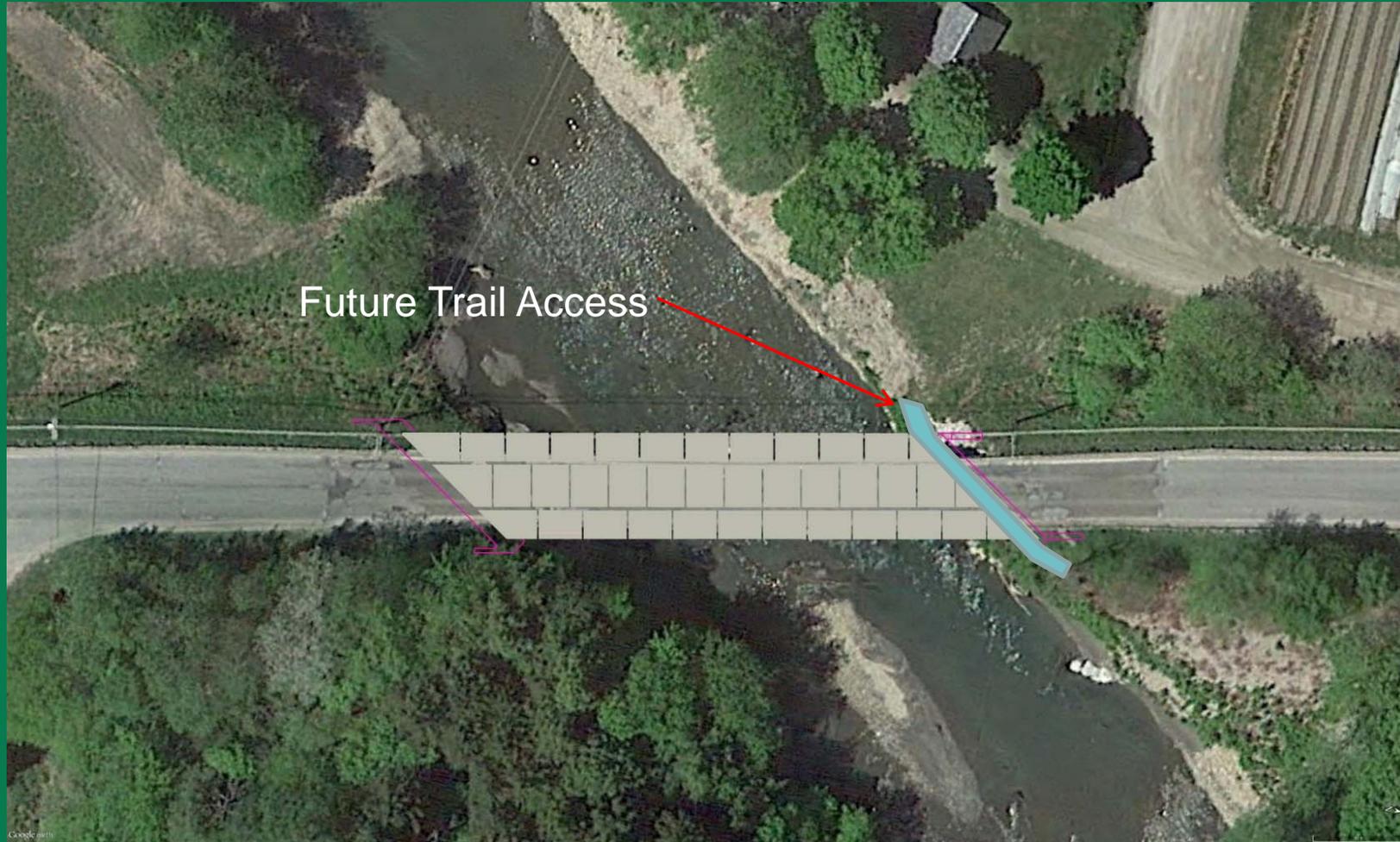
**Temporary Stone Causeway Proposed
for Construction Access**





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Future Trail Access





Project Schedule

- Project Advertised – September 2015
- Begin Pre-Closure Activities – April/May, 2016
- Bridge Closure – Tuesday, July 5, 2016
- Estimated Bridge Opening – August 6, 2016
- Project Completion – October 2016
- **Estimated Bridge Closure Duration – 33 Days**



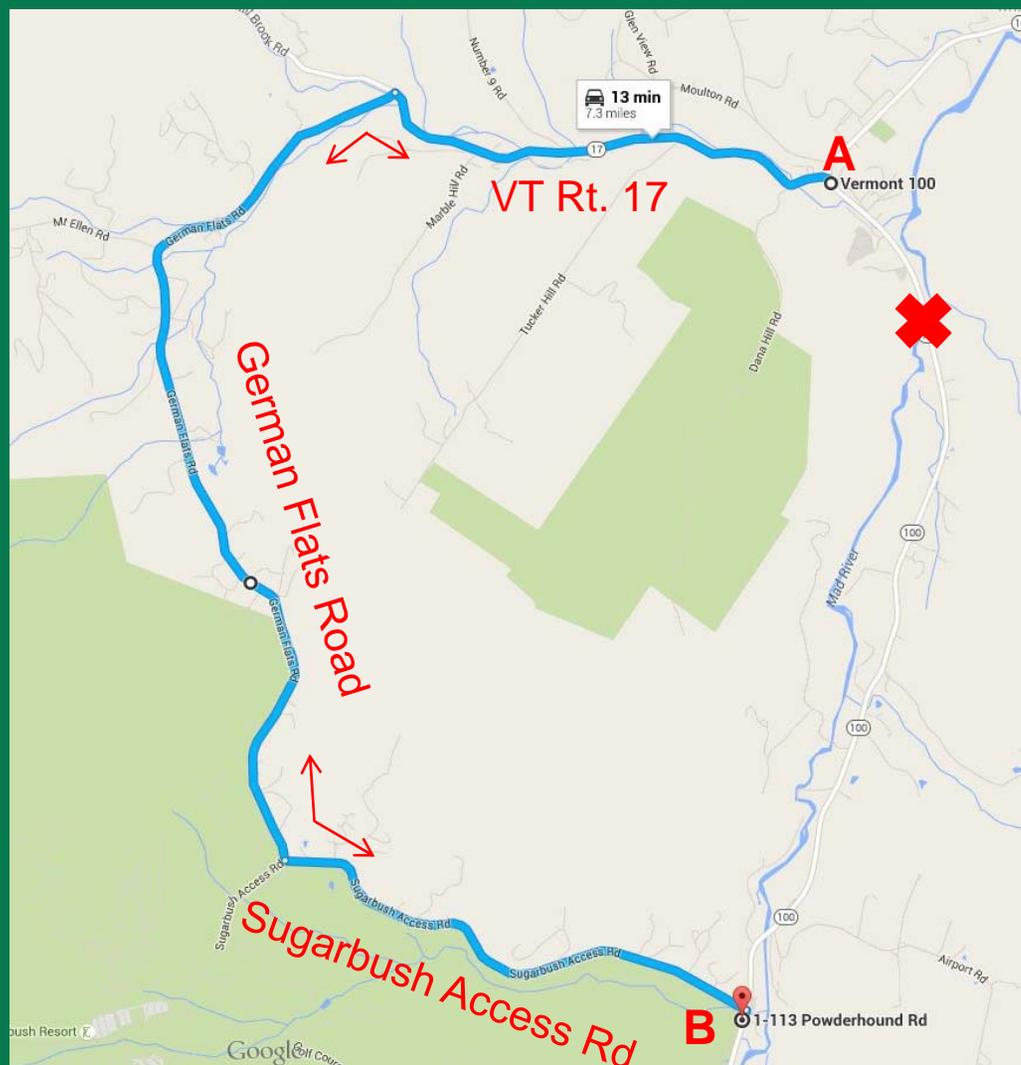
Project Schedule

- Daily Lane Closures Not Permitted Until 14 days Prior to Bridge Closure – June 21, 2016
- Financial Incentives & Disincentives Included in Contract to Encourage Early Completion



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Detour Route



Detour Summary

- A-B Thru = 3 miles
- A-B Detour = 7 miles
- Added = 4 miles
- End-End = 10 miles





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Local Road Maintenance

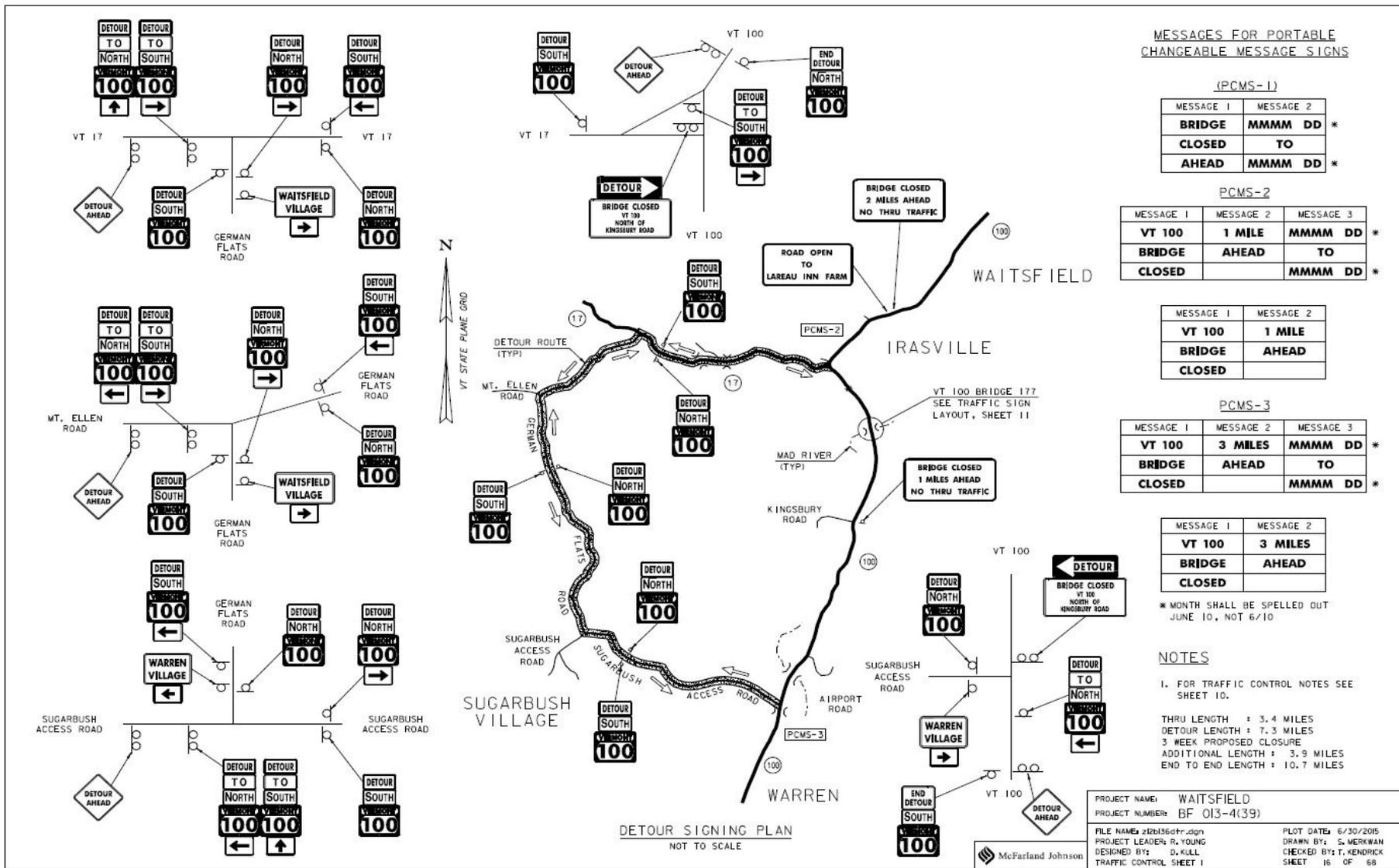
- Project Specifications Require the Contractor to Coordinate with Local Officials to Monitor and Maintain Local Roads used for Detours.
- Inspection of German Flats & Sugarbush Access Roads will be Done Pre & Post Closure.
- \$10,000 to be Allocated for Line Striping, Pothole & Other Required Maintenance





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Traffic Control





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Questions / Comments

