



Mt. Holly BO 1443(56) Project Update

Town Highway 17 – Bridge 64 over Mill River Branch

June 10, 2025

10/08/2020

Introductions

Dave Peterson, P.E.

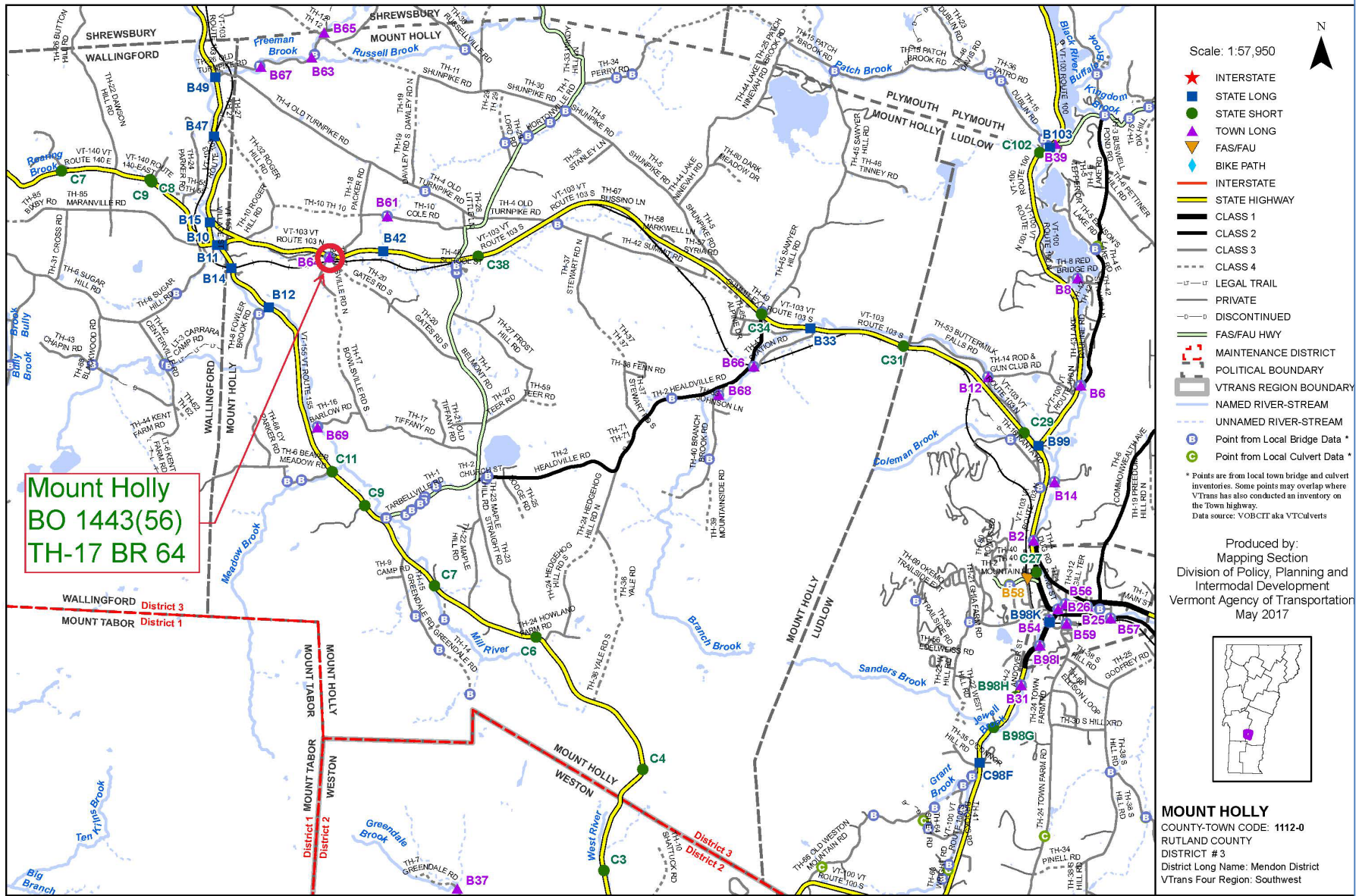
VTrans Design Project Manager

Robert Hood

VTrans Project Engineer

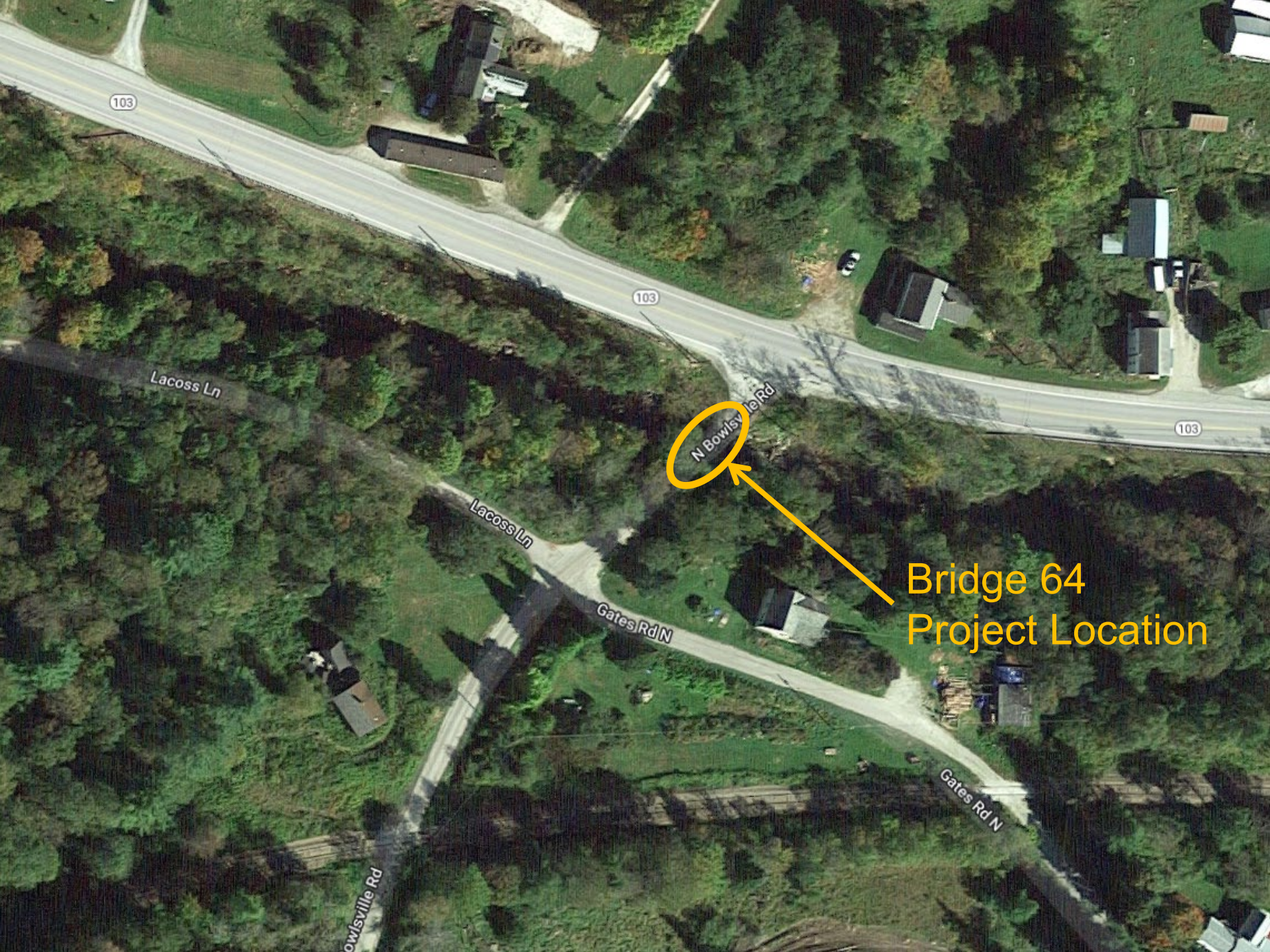
Purpose of Meeting

- Provide an update of project design
- Provide an overview of project schedule
- Update on project estimate
- Provide an opportunity to ask questions



This map was funded in part through grants from the Federal Highway Administration, U.S. Department of Transportation. The representation of the authors expressed herein do not necessarily state or reflect those of the U.S. Department of Transportation.

Location Map



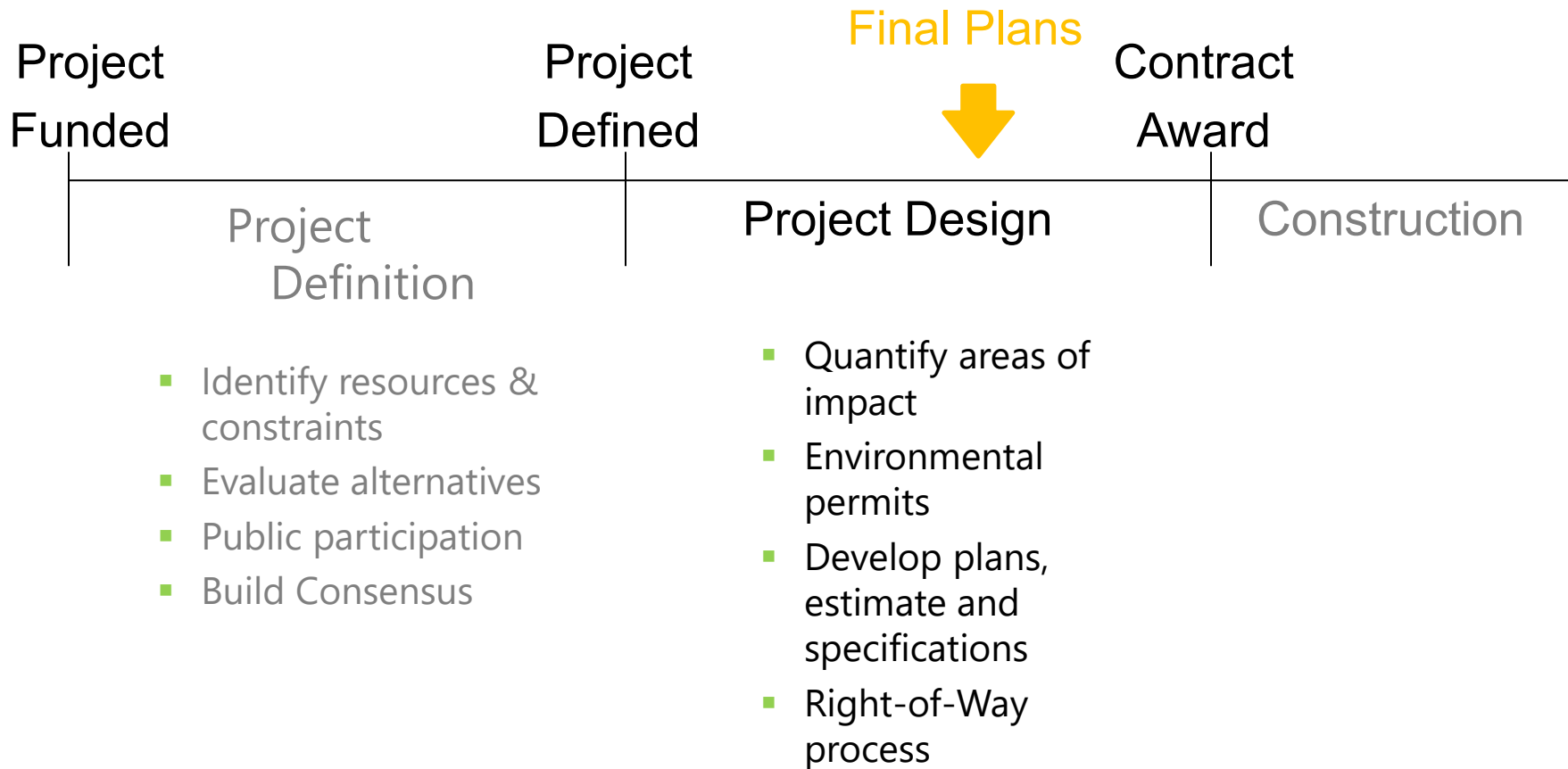
N Bowlsby Rd

Bridge 64
Project Location

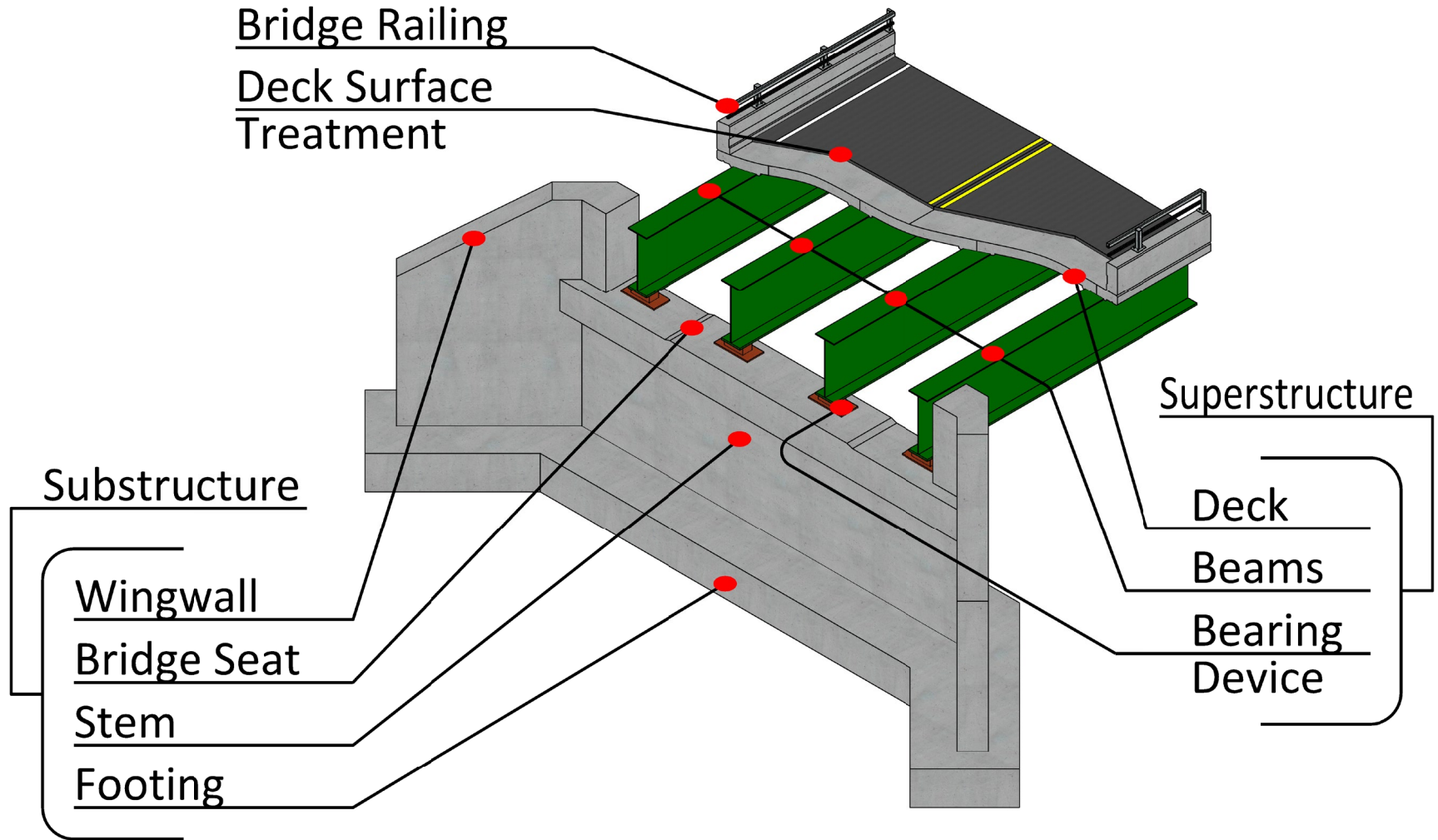
Meeting Overview

- VTrans Project Development Process
- Project Overview
 - Existing Bridge Review
 - Proposed Structure Layout
- Maintenance of Traffic
- Schedule
- Summary
- Next Steps
- Questions

VTrans Project Development Process



Description of Terms Used





Existing Conditions – Bridge #64

- Roadway Classification – Rural Local Road (Class 3)
- Bridge Type – 31-foot span Rolled Beam Bridge
- Ownership – Town of Mt. Holly
- Constructed in 1934

Looking Northeast



Existing Conditions – Bridge #64

- Aerial Utilities – Green Mountain Power (3 phase electric); Comcast (internet); Vermont Telephone Company (communications)
 - These lines run parallel to VT Route 103 along the eastbound lane which runs perpendicular to North Bowlsville Road. These powerlines are close to the bridge location and may have to be relocated for construction.

Existing Site Conditions – Bridge #64

- The bridge has heavy deterioration and map cracking along the abutments, backwalls, and wingwalls.. There are many areas of section loss along the fascia beams and bottom flanges along the bridge. Scour hole occurring under one wingwall.
- The bridge does not meet the minimum standards for width.
- The bridge railing is substandard.
- Does not meet hydraulic standard for bank full width, and has a scour critical rating

Bridge Inspection Report Ratings



Existing Conditions - Bridge #64

- Deck Rating 6 (Satisfactory)
- Superstructure Rating 4 (Poor)
- Substructure Rating 5 (Fair)
- Channel Rating 5 (Fair)

Fascia Beam Rust



Existing Conditions - Bridge #64

Scour Deterioration



Existing Conditions - Bridge #64

Missing/Compromised Bridge Rail



Existing Conditions - Bridge #64

Abutment Cracking & Spalling



Existing Conditions - Bridge #64

Superstructure Corrosion



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Existing Conditions - Bridge #64

Looking East (Upstream)

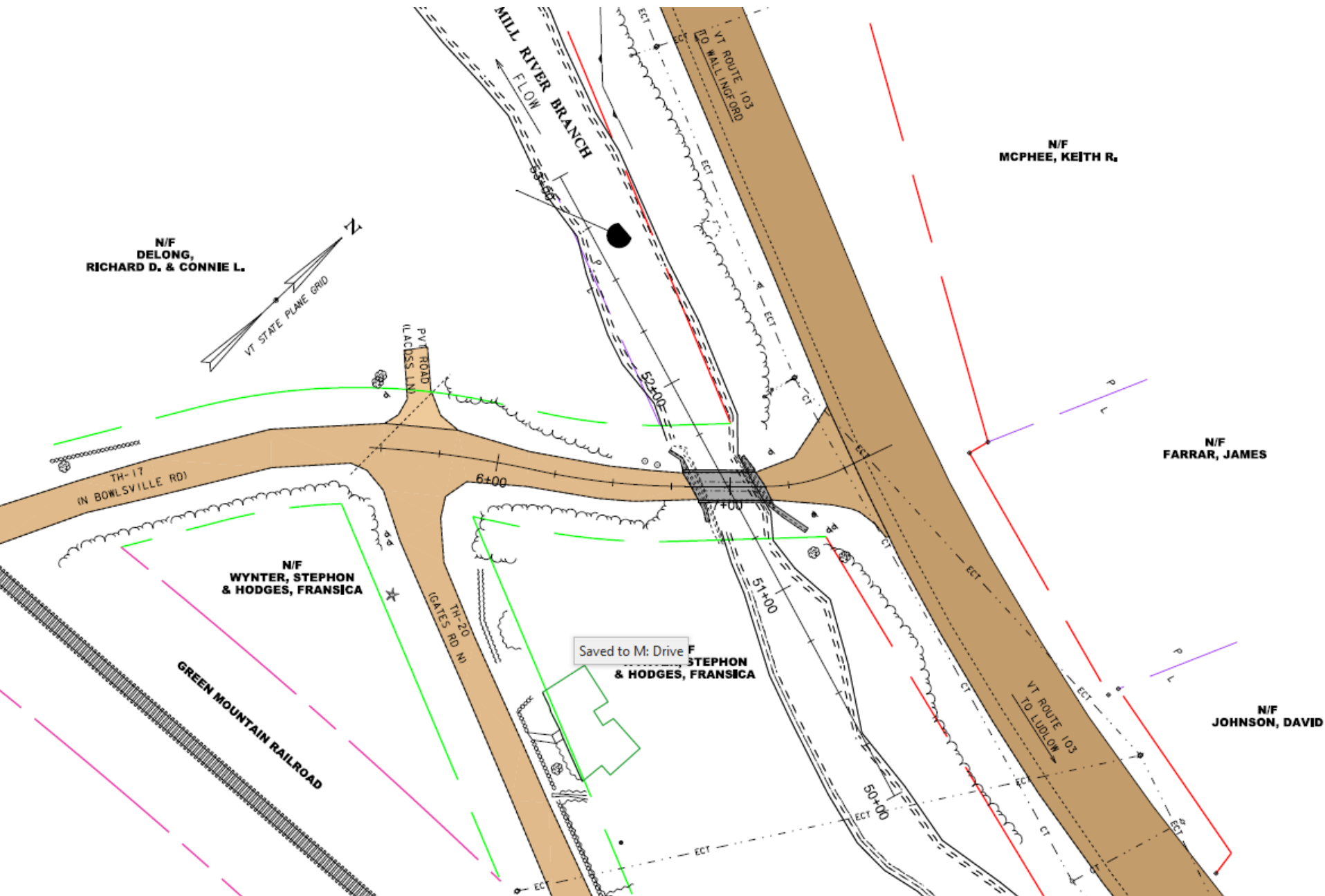


Environmental Resources - Bridge #64

- Class II wetlands in 3 quadrants of the project area
- Agriculturally significant soils
- Suitable summer bat habitat
- Wildlife habitat

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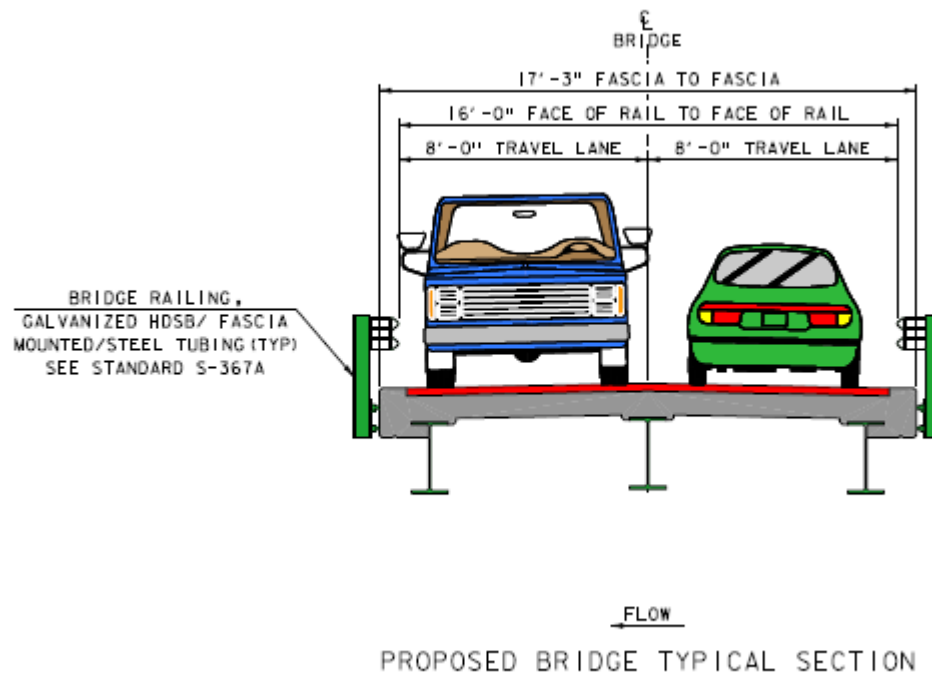
Existing Conditions



Design Criteria and Considerations

- Average Daily Traffic
 - 35 vehicles per day
- Design Hourly Volume
 - 5 vehicles per hour
- % Trucks
 - 8.0%

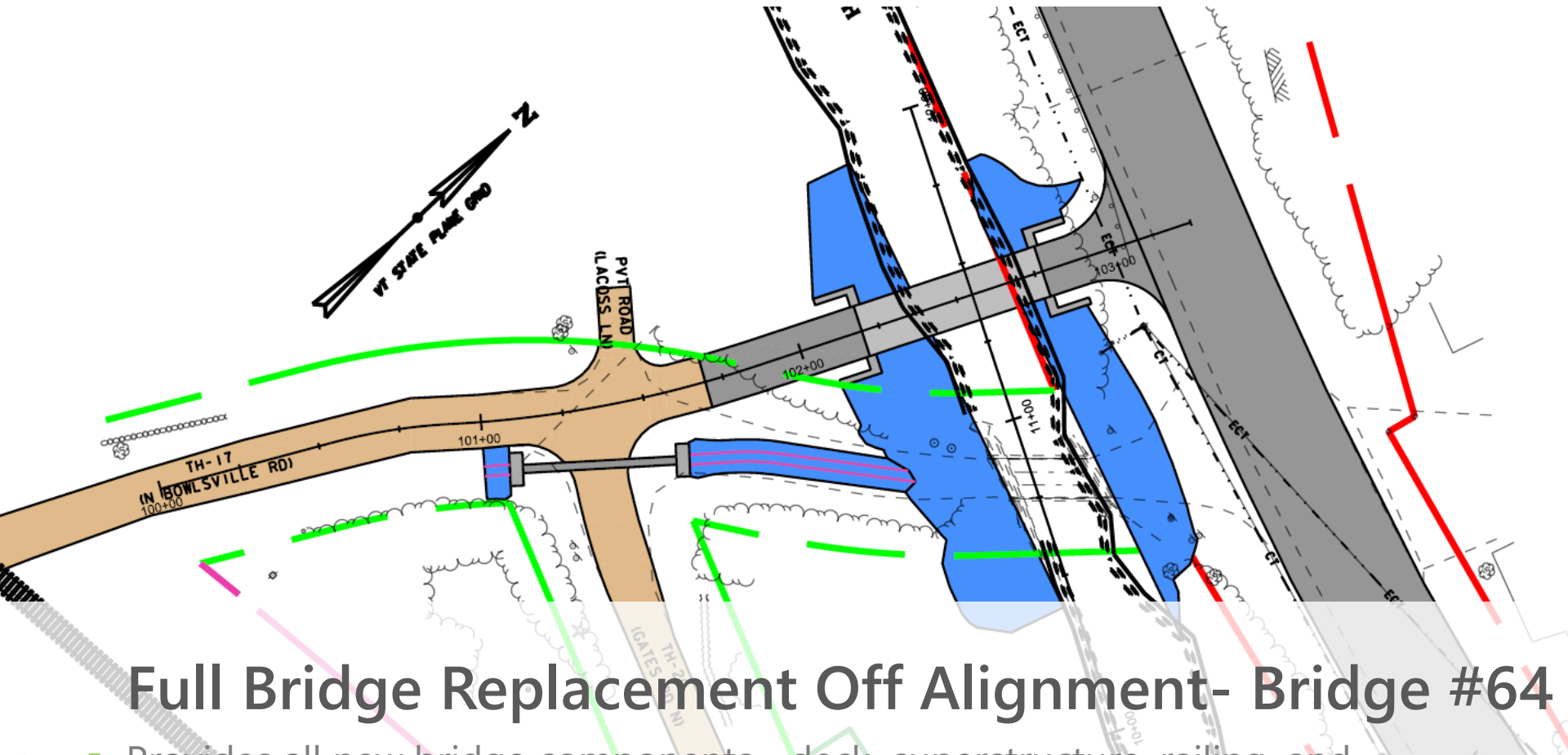
New Bridge On-Alignment Typical Section



Full Bridge Replacement On Alignment- Bridge #64

- 16' bridge typical

New Bridge Off-Alignment Layout



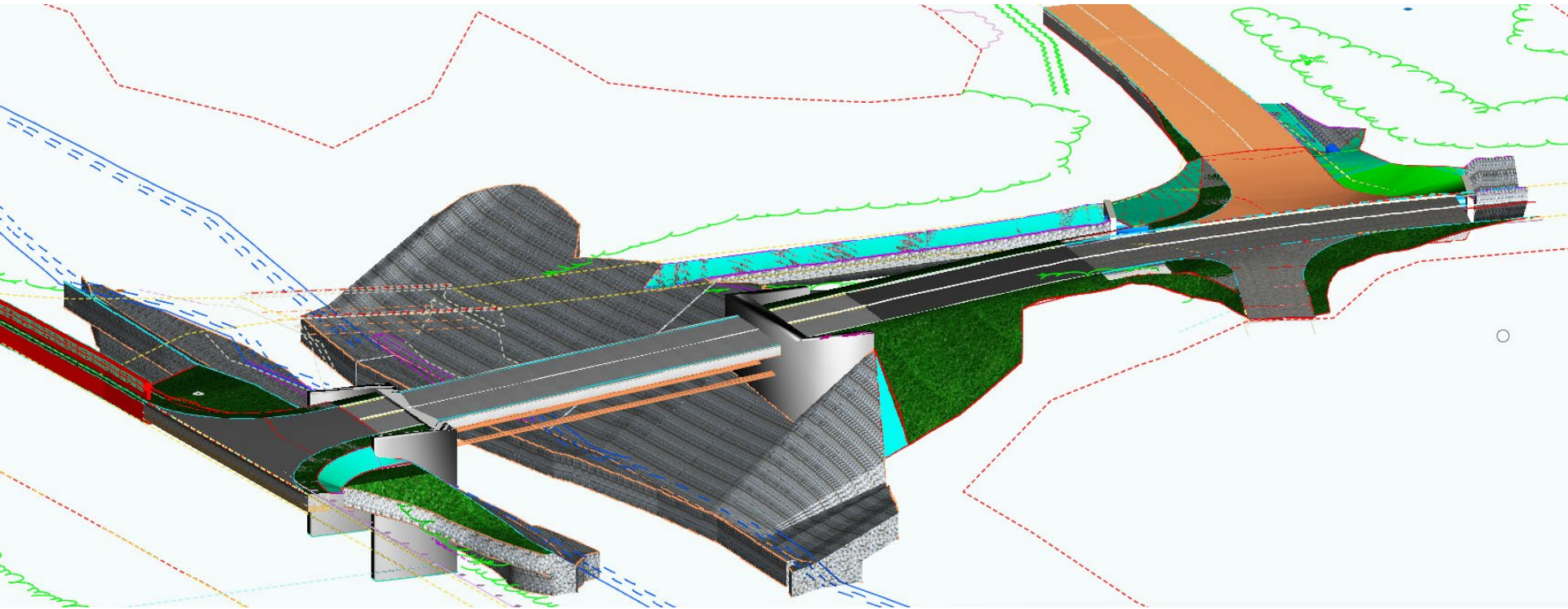
Full Bridge Replacement Off Alignment- Bridge #64

- Provides all new bridge components - deck, superstructure, railing, and substructure.
- Existing bridge can be used for traffic control
- Meets minimum bank full width standard
- Bedrock located approx. 60-64 ft deep: Integral abutment bridge
- Design Life; 75 years

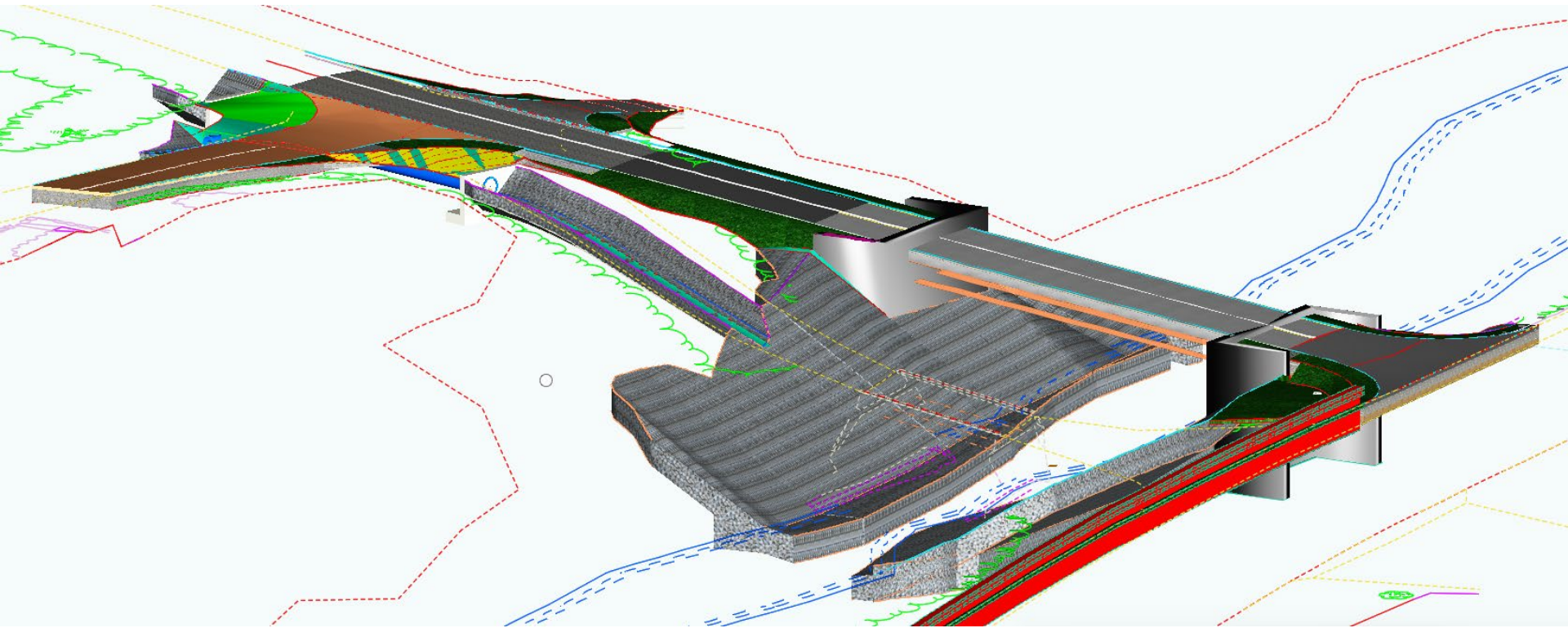
New Structure- Bridge #64

- Full Bridge Replacement
 - Minimum 16' typical section to meet minimum standards
 - Minimum 40-foot span to meet the hydraulic standard for BFW
 - Design life - 75 years
 - Traffic maintained on existing bridge during construction
 - Access to all roads and drives retained

New Structure- Bridge #64



New Structure- Bridge #64



Project Schedule

- Construction Start – Summer 2027
 - Total Cost Estimate: \$3,000,000
 - Construction: \$2,470,000
 - PE, ROW, Scoping: \$528,000
 - Town Share: \$53,000(10% share for Scoping, PE and ROW only*)

*Construction phase will be 100% federally funded

Next Steps – Bridge #64

This is a list of a few important activities expected in the near future and is not a complete list of activities.

- ➡ ■ Finish Design and Plans for the new bridge
- Complete ROW process
 - Negotiations underway now
- Environmental Permits (submitted May 2025)
 - Anticipated completion Winter 2025-2026

For more information:

- <https://outside.vermont.gov/agency/vtrans/external/Projects/Structures/12J642>



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Questions and Comments

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