

Berlin BF 026-1(43) Regional Concerns Meeting

US Route 302 – Bridge #3 over Stevens Branch



Introductions

Carolyn Carlson, P.E.

VTrans Design Project Manager

Laura Stone, P.E.

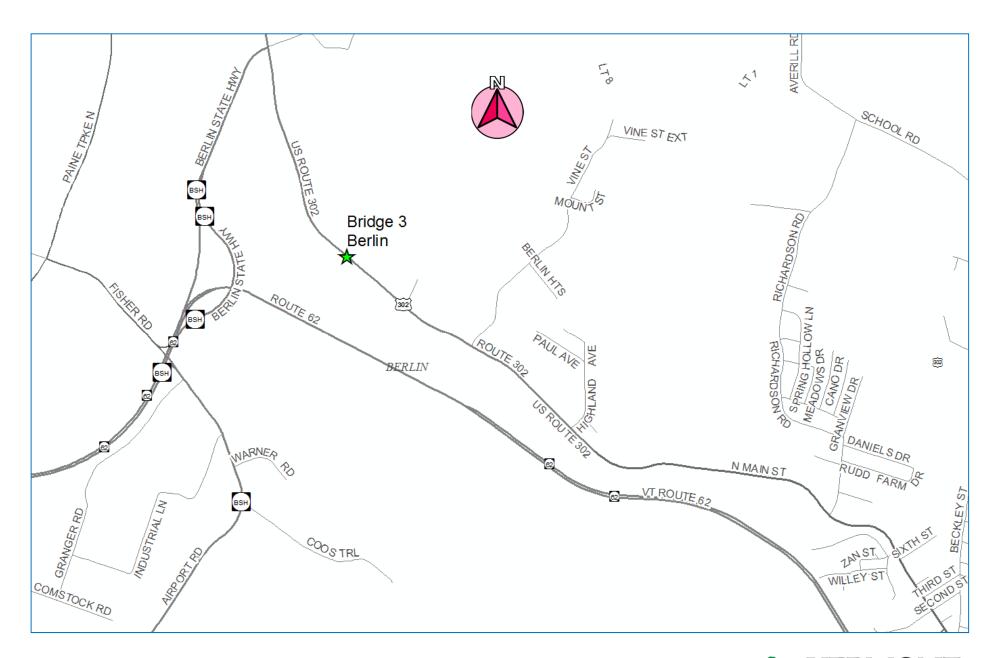
VTrans Scoping Engineer



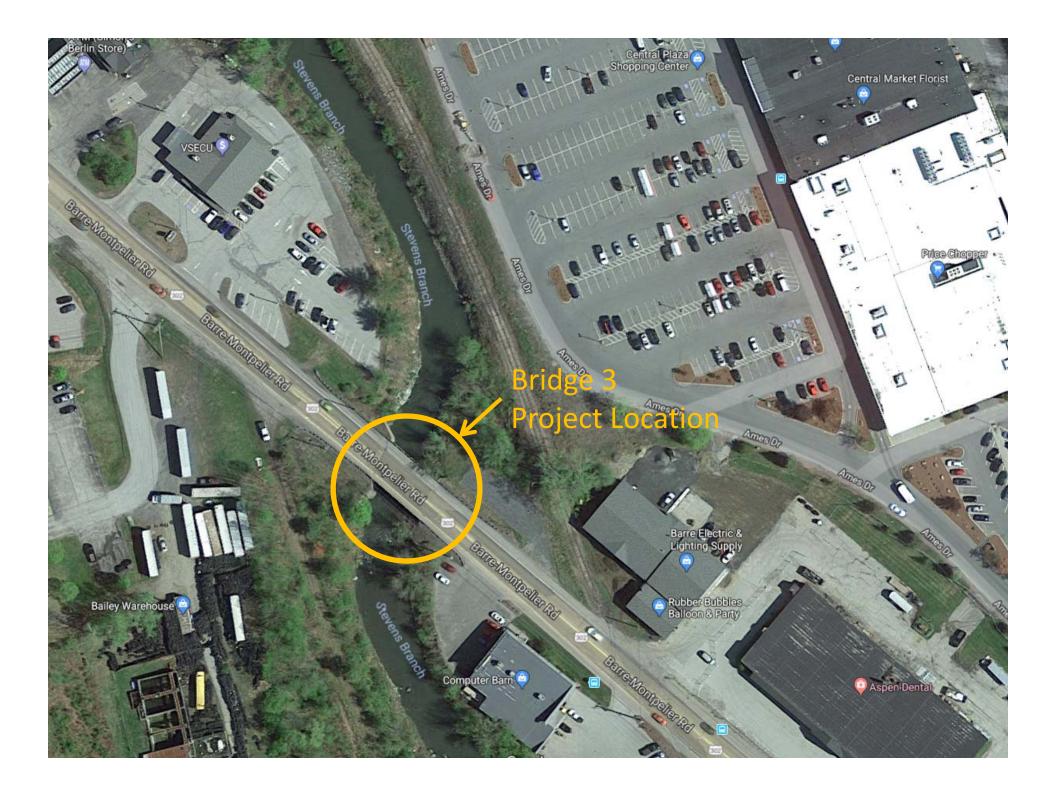
Purpose of Meeting

- Provide an understanding of our approach to the project
- Provide an overview of project constraints
- Discuss our recommended alternative
- Provide an opportunity to ask questions and voice concerns









Meeting Overview

- VTrans Project Development Process
- Project Overview
 - Existing Conditions
 - Alternatives Considered
 - Recommended Alternative
- Maintenance of Traffic
- Schedule
- Summary
- Questions



VTrans Project Development Process

Initiated

Project Contract
Funded Defined Award

Project Project Design Construction
Definition

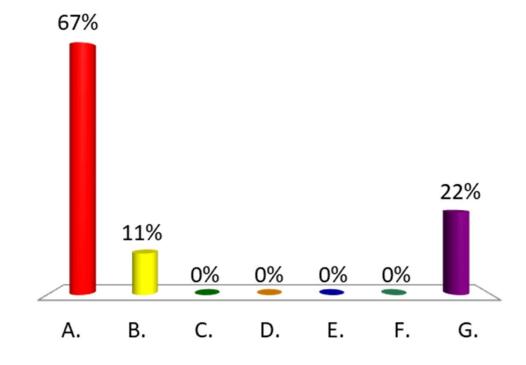
- Identify resources & constraints
- Evaluate alternatives
- Public participation
- Build Consensus

- Quantify areas of impact
- Environmental permits
- Develop plans, estimate and specifications
- Right-of-Way process if necessary



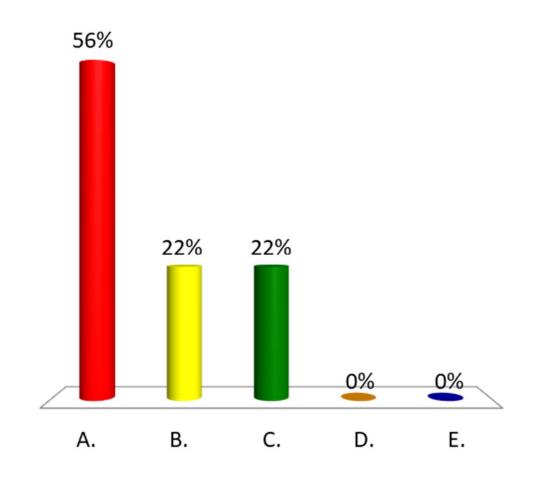
Who are you representing?

- A. Municipal Official
- B. Resident
- C. Local Business
- D. School
- E. Emergency Services
- F. Independent Organization
- G. Other



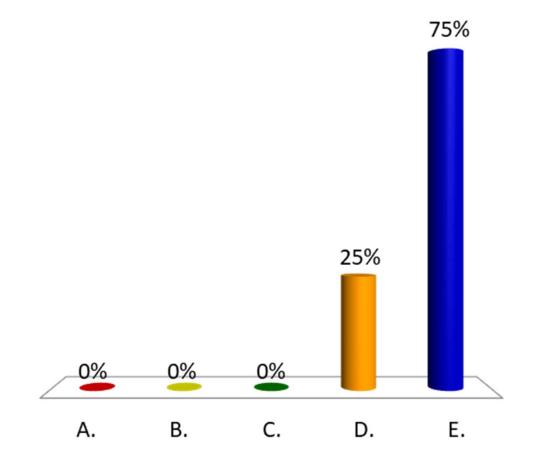
How often do you use this segment of US Route 302?

- A. Daily
- B. Weekly
- C. Monthly
- D. Rarely
- E. Never



How often do you walk over the bridge?

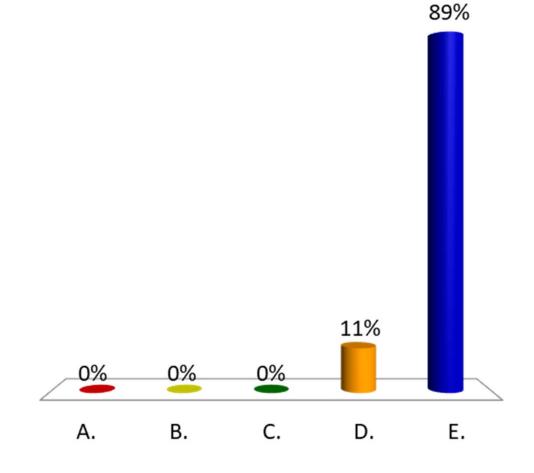
- A. Daily
- B. Weekly
- C. Monthly
- D. Rarely
- E. Never



How often do you bike over the bridge?

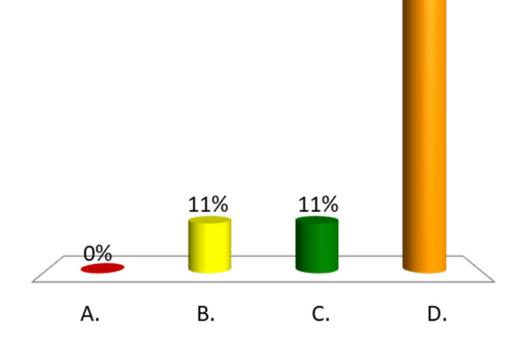


- B. Weekly
- C. Monthly
- D. Rarely
- E. Never



What is your reason for attending this meeting?

- A. Specific Concern
- B. General Interest
- C. Live in Close Vicinity
- D. Other



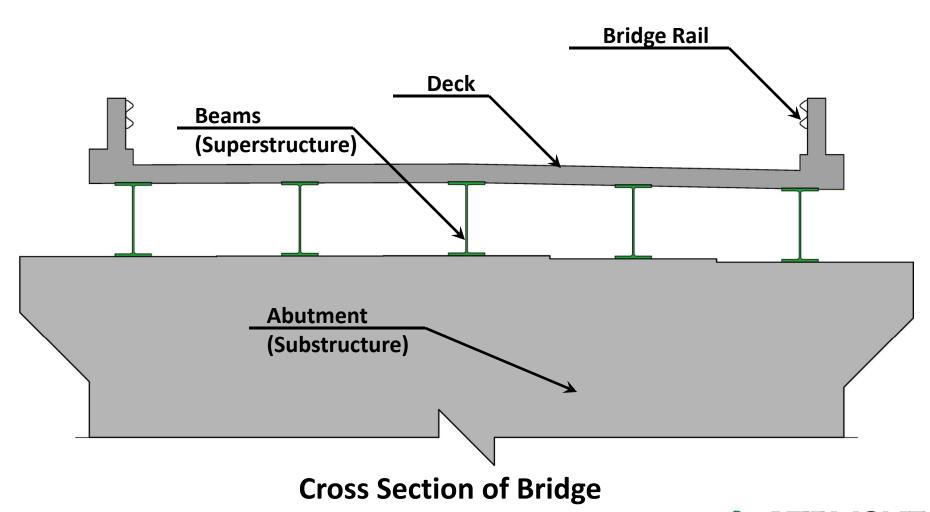
78%

Project Overview

- Existing Conditions
- Alternatives Considered
- Selected Alternative

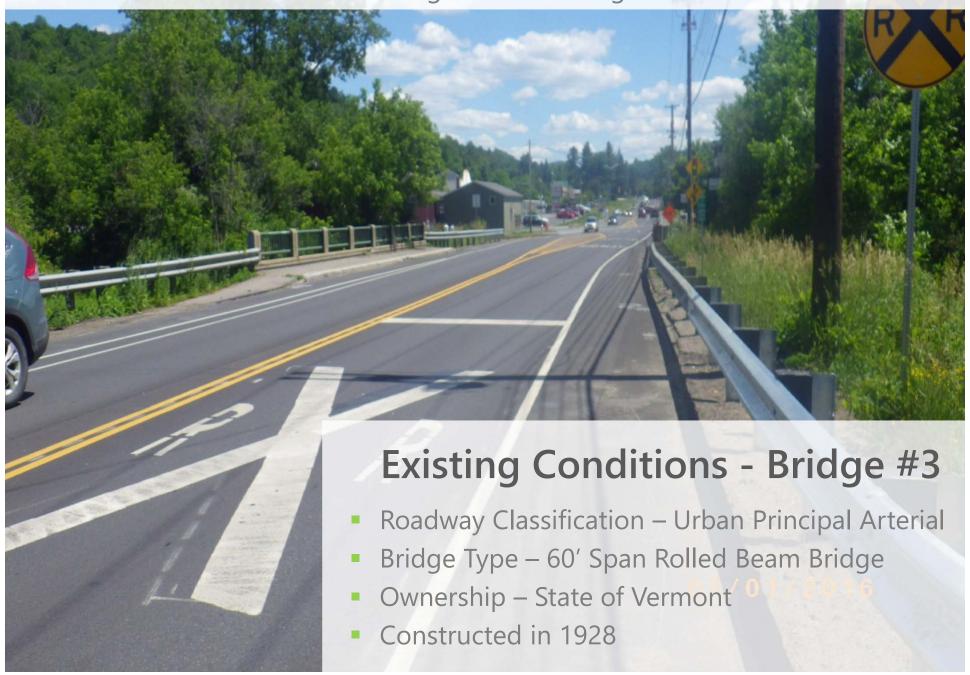


Description of Terms Used



AGENCY OF TRANSPORTATION

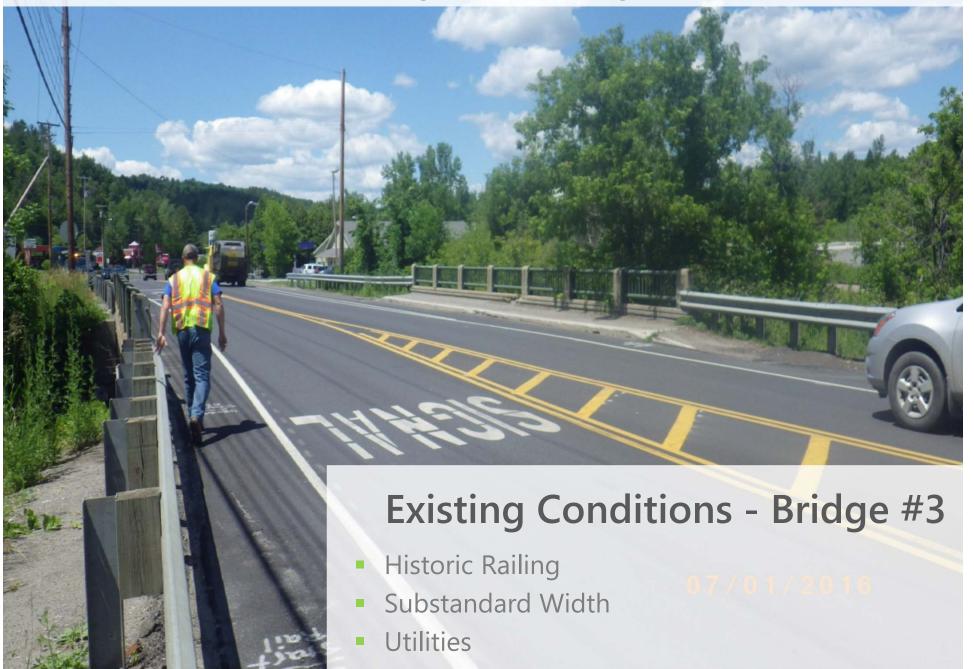




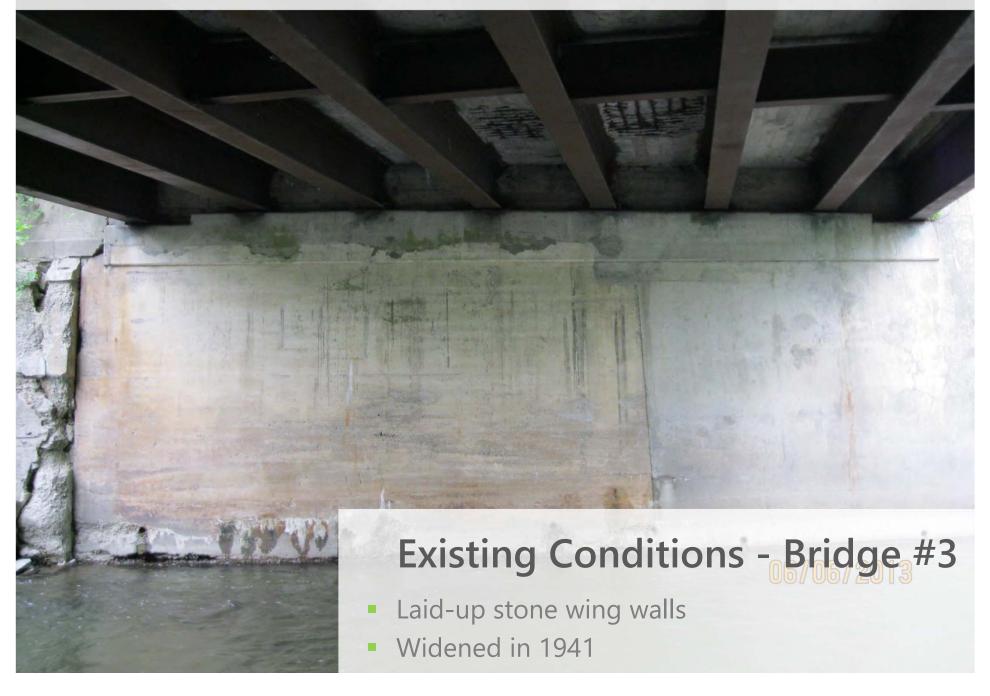
Bridge Deck



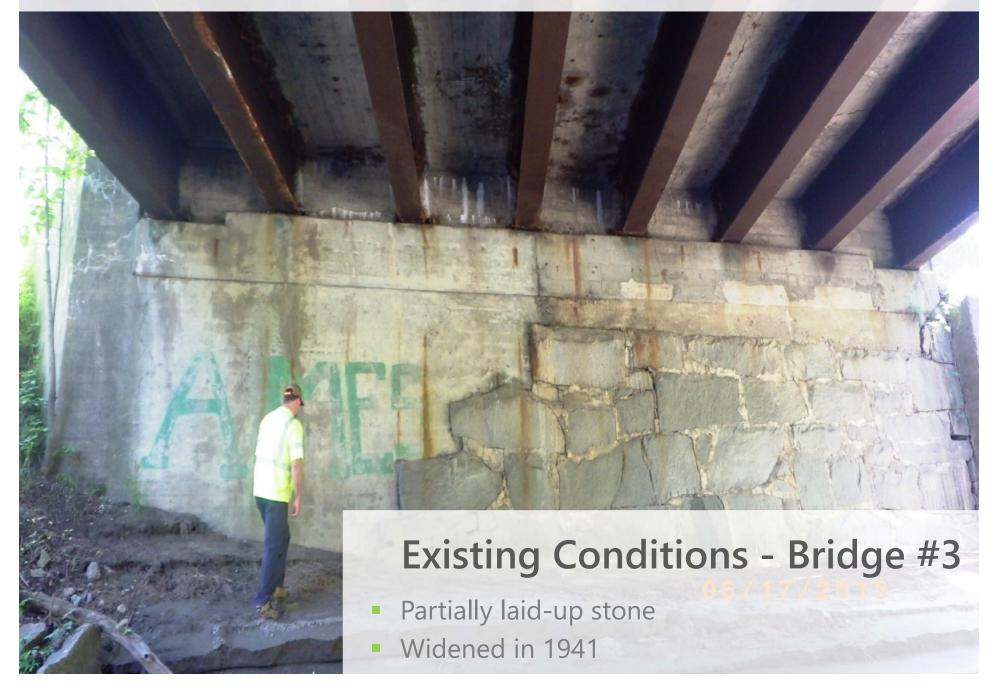
Looking West Over Bridge

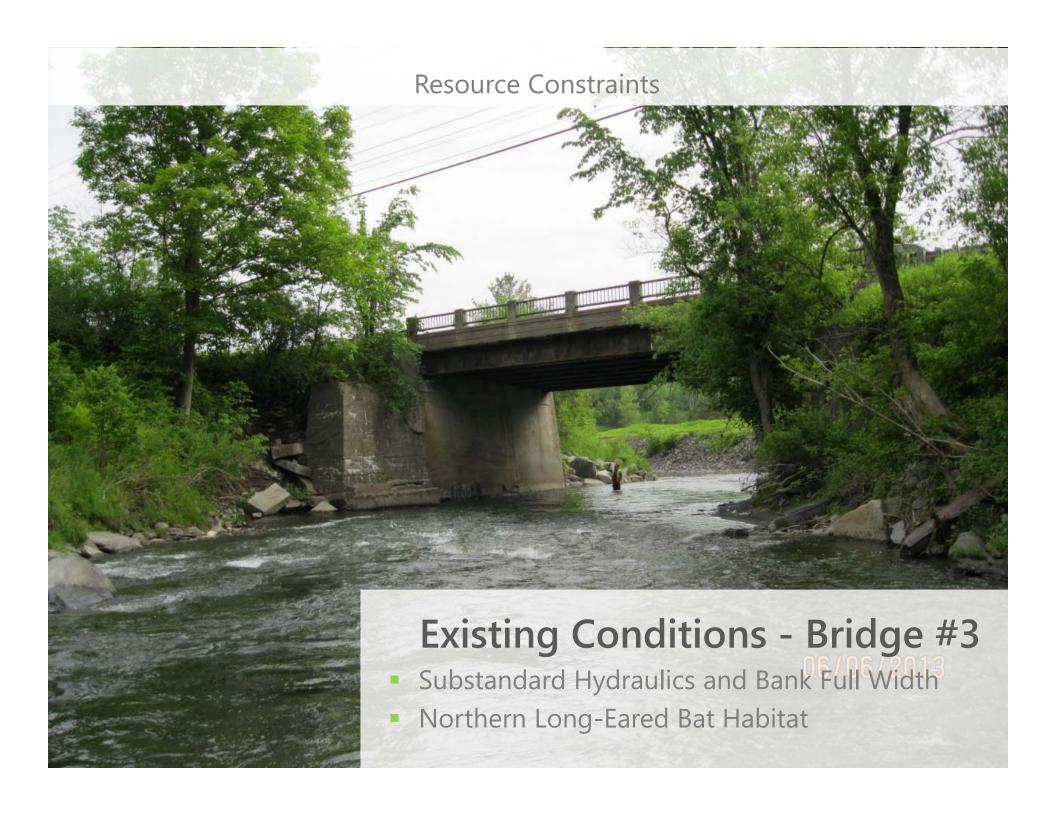


Western Abutment

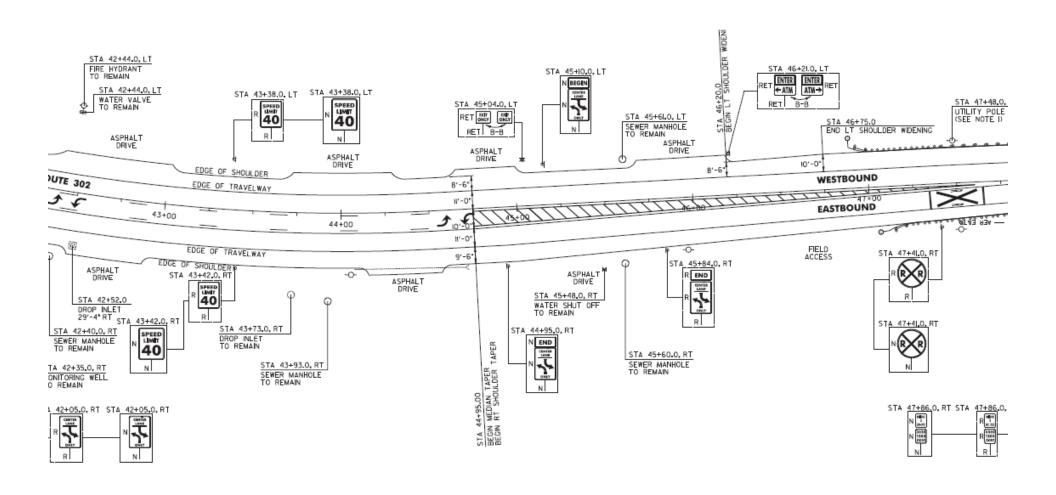


Eastern Abutment



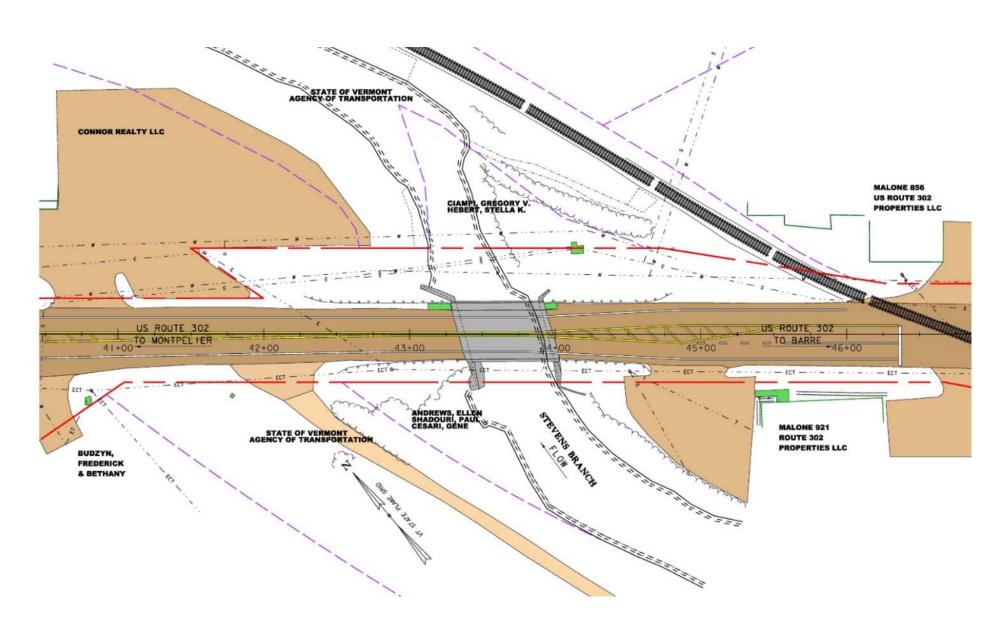


US Route 302 Typical Roadway Geometry



Existing Conditions





Design Criteria and Considerations

- ADT of 14,400
- DHV of 1,500
- % Trucks: 5.6
- Design Speed of 40 mph
- Utilities
- Area of significant commercial development



Alternatives Considered – Bridge #3

No Action

Additional maintenance required within 10 years

Deck Replacement

- Structural deficiencies would be addressed
- Does not meet minimum roadway width or match the corridor (11'/5' Typical)
- Sidewalk Eliminated
- 40 year design life
- Does not meet Hydraulic Requirements

Superstructure Replacement

- Structural deficiencies would be addressed
- Does not meet minimum roadway width or match the corridor (11'/5' Typical)
- Sidewalk Eliminated
- 40 year design life
- Does not meet Hydraulic Requirements

Full Bridge Replacement

- Widen to minimum standard matching corridor (5.5 sidewalk-8-11-11-11-8)
- 80 year design life
- Meets BFW, Does not meet Design Flood



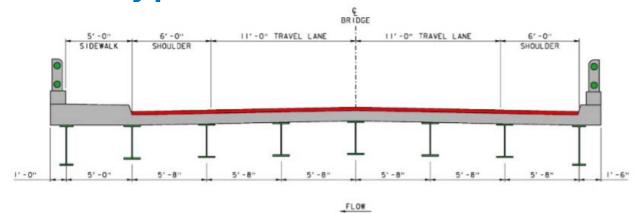
Selected Alternative - Bridge #3

- Full Bridge Replacement
 - Hydraulics improved
 - Widen to minimum standard (11'/8') matching corridor
 - Sidewalk widened to meet ADA Standards
 - 80 year design life
 - Historic Documentation Required
 - Right-of-Way needed
 - Utility Relocation Needed

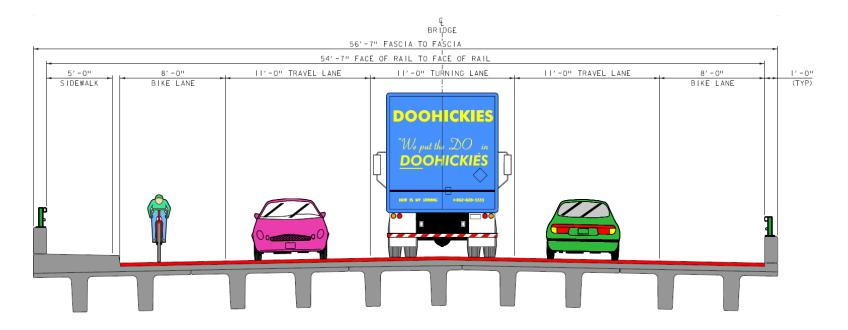




Proposed Typical Section

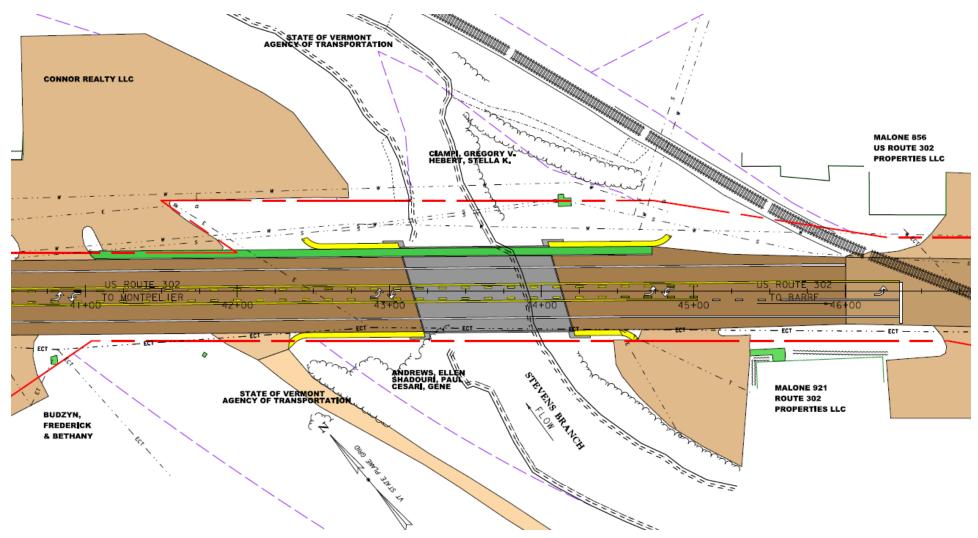


EXISTING BRIDGE TYPICAL SECTION



Proposed Layout



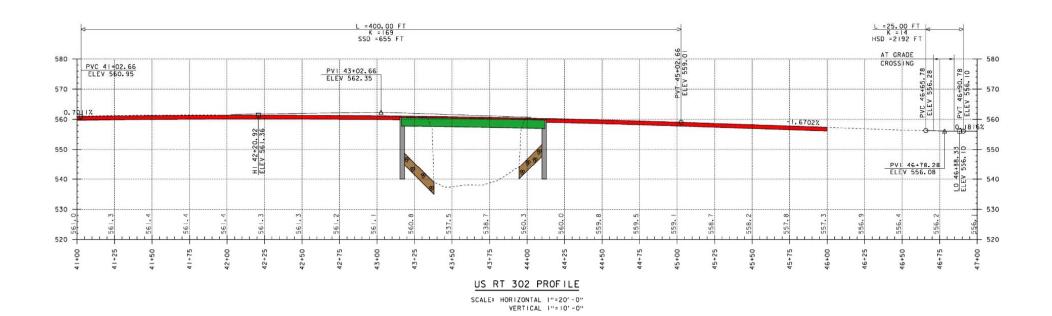


Full Replacement On Alignment - Bridge #3

11'/8' typical, 80 year design life





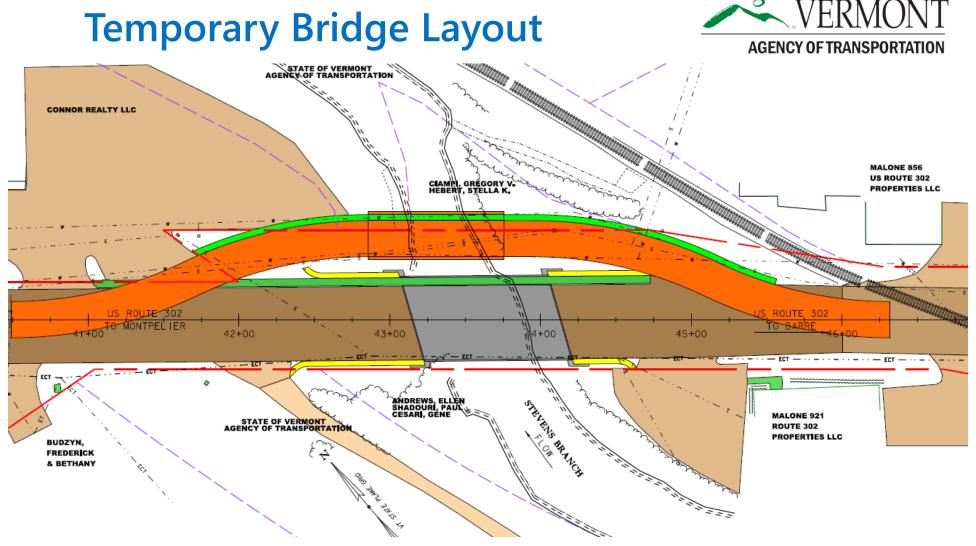


Maintenance of Traffic Options Considered

- Offsite Detour
- Phased Construction
 - 3 Phases with two-way traffic
 - Long Construction Duration
- Temporary Bridge







Temporary Bridge Option - Bridge #3

- Upstream temporary bridge has a greater impact to adjacent properties
- Downstream temporary bridge has a greater impact to utilities

Downstream Temporary Bridge Location





Temporary Bridge Option - Bridge #3

Downstream temporary bridge has potential impact to utilities

Preliminary Project Schedule

Construction – Summer 2022 or 2023



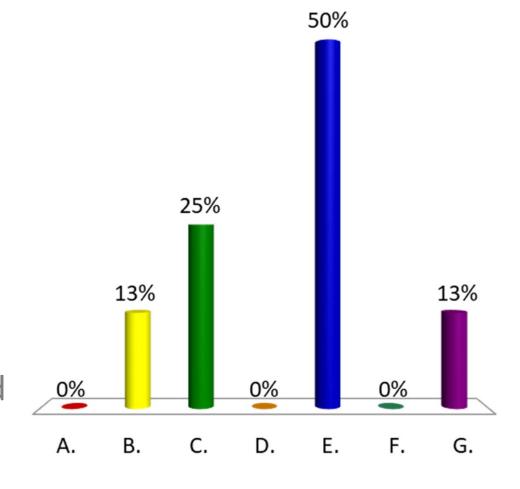
Project Summary



- Full Bridge Replacement with Traffic Maintained on a Temporary Bridge
 - Hydraulics improved
 - Widen to minimum standard (11'/8') matching corridor
 - Sidewalk widened to meet ADA Standards
 - Two Lane Temporary Bridge with Sidewalk
 - Right-of-Way needed
 - Aerial Utility Relocation Needed
 - Underground utility relocation should be avoided

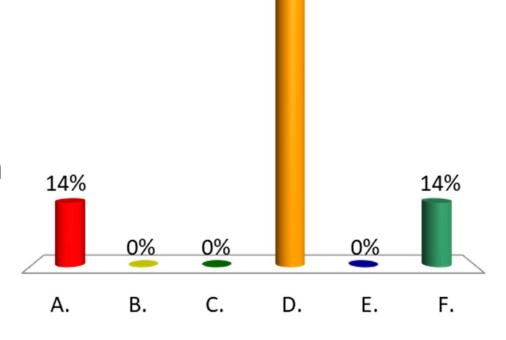
Which would you be most concerned about?

- A. Bridge Aesthetics
- B. Environmental Impacts
- C. Business Impacts
- D. Recreational Impacts
- E. Traffic Impacts
- F. Other
- G. Not Really Concerned



Which design aspect is the most important to you?

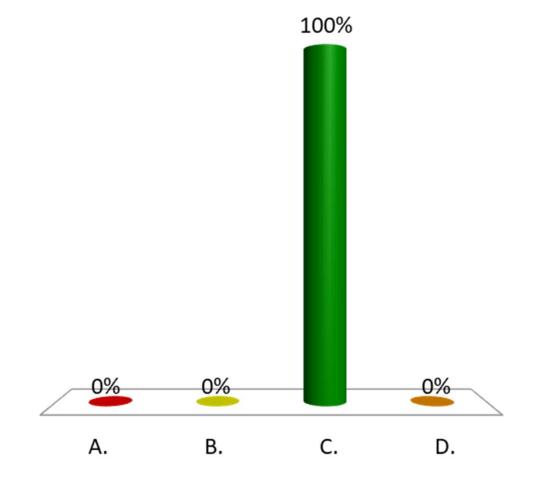
- A. Shoulder width/bicycle accommodations
- B. Aesthetics BridgeRailing
- C. Construction Year
- D. Construction Duration
- E. Cost
- F. Other



71%

Did you find this presentation to be?

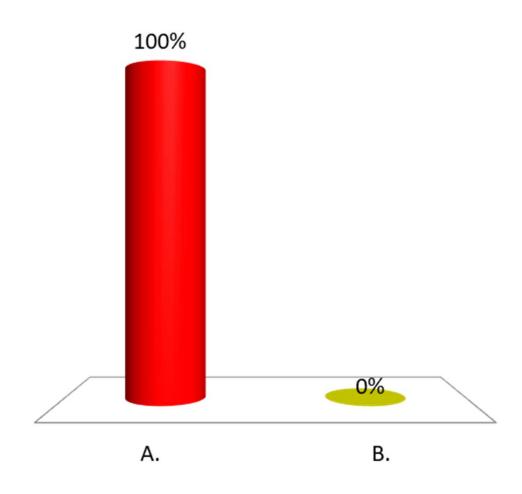
- A. Too technical in nature
- B. Too simplified
- C. Just about right
- D. Not much use at all



Do you find the recommended scope of work satisfactory?

A. Yes

B. No



For more information:

https://outside.vermont.gov/agency/vtrans/external/Projects/Structures/13B254



Berlin BF 026-1(43) Questions and Comments

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