



Pittsford Regional Concerns Meeting

US 7 – Bridge #108

February 18, 2015



Introductions

Jennifer Fitch, P.E.

VTrans Project Manager

Laura Stone, P.E.

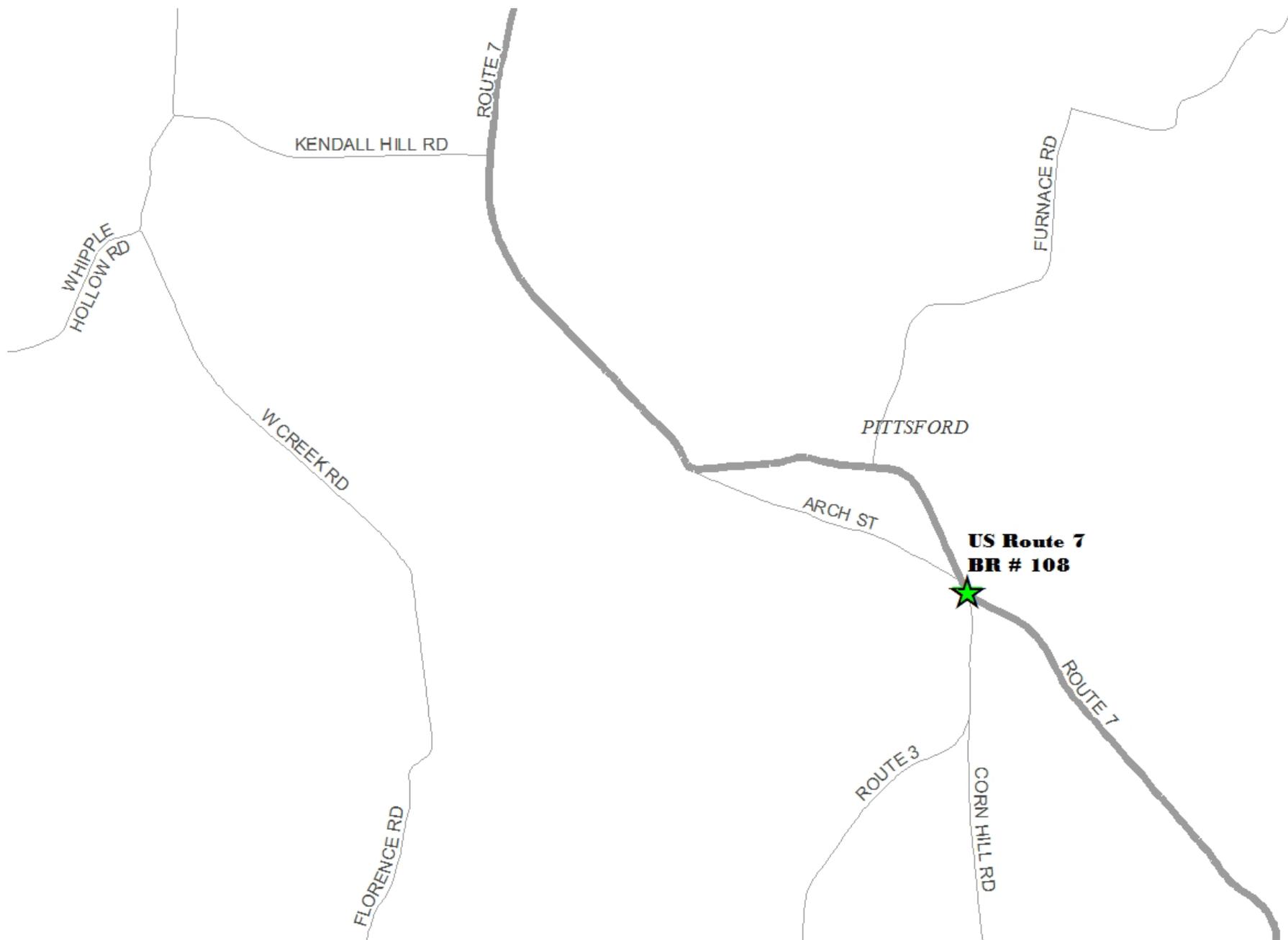
VTrans Scoping Engineer

Doug Bonneau, P.E.

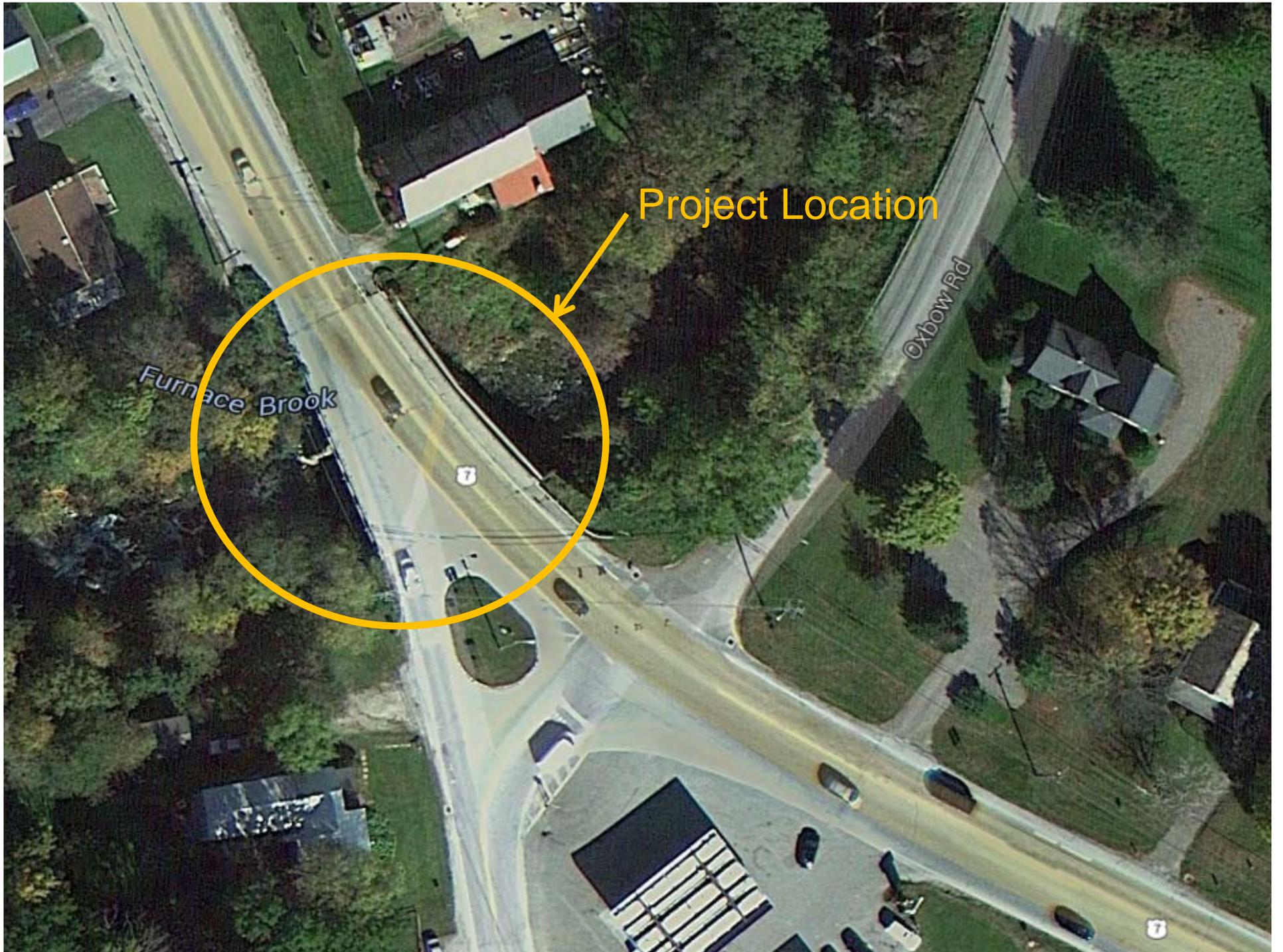
VTrans Project Manager

Purpose of Meeting

- Provide an understanding of our approach to the project
- Provide an overview of project constraints
- Discuss alternatives that were considered
- Provide an opportunity to ask questions and voice concerns
- Foster support for the recommended alternative



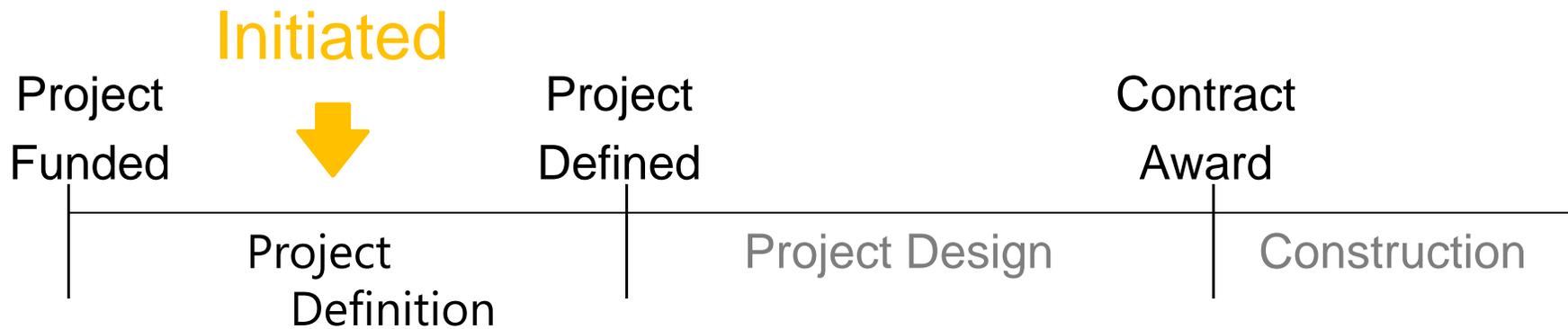
Location Map



Meeting Overview

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

VTrans Project Development Process

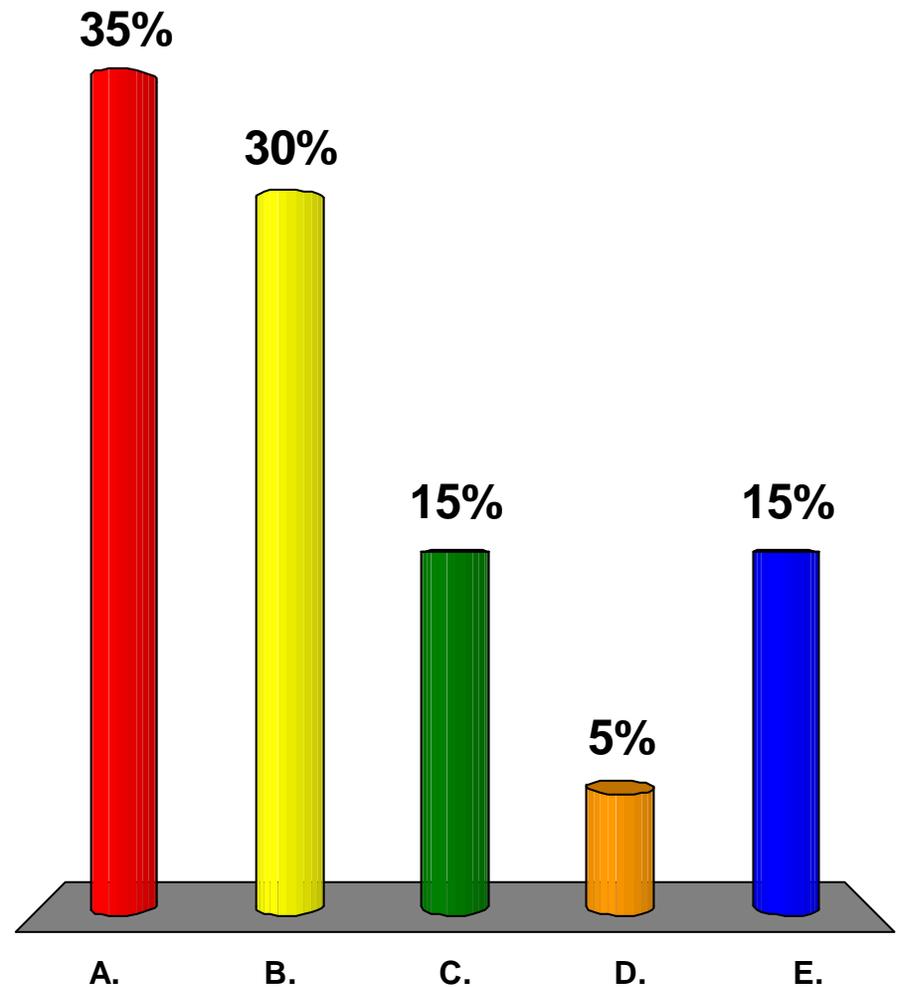


- Identify resources & constraints
- Evaluate alternatives
- Public participation
- Build Consensus

- Quantify areas of impact
- Environmental permits
- Develop plans, estimate and specifications

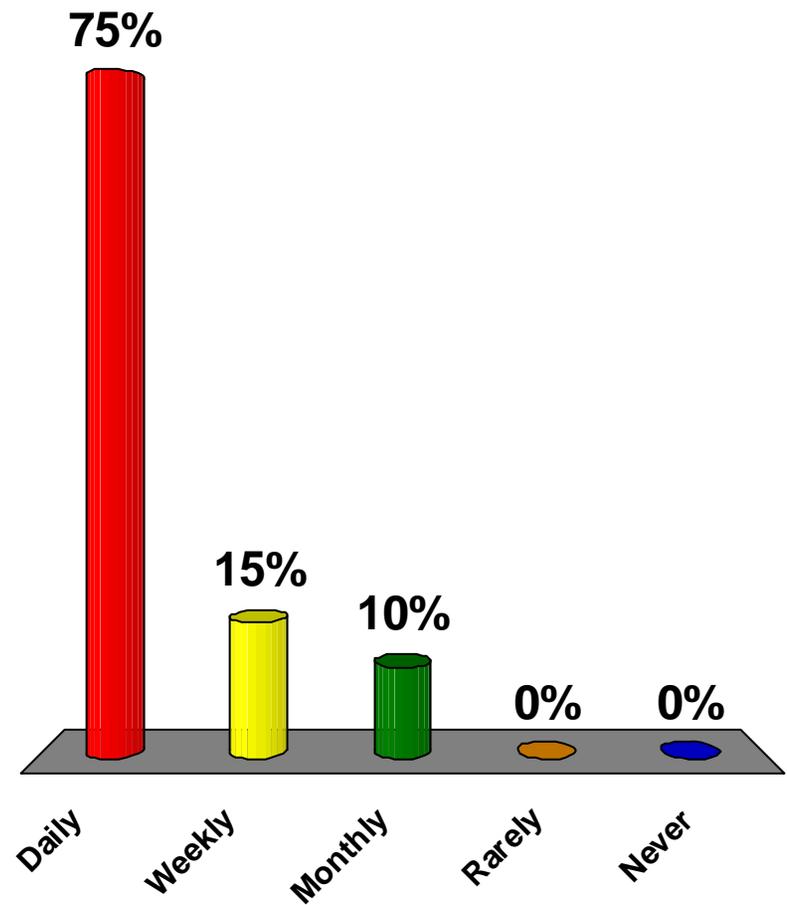
Who are you representing?

- A. Municipal Official
- B. Resident
- C. Local Business
- D. Independent Organization
- E. Other



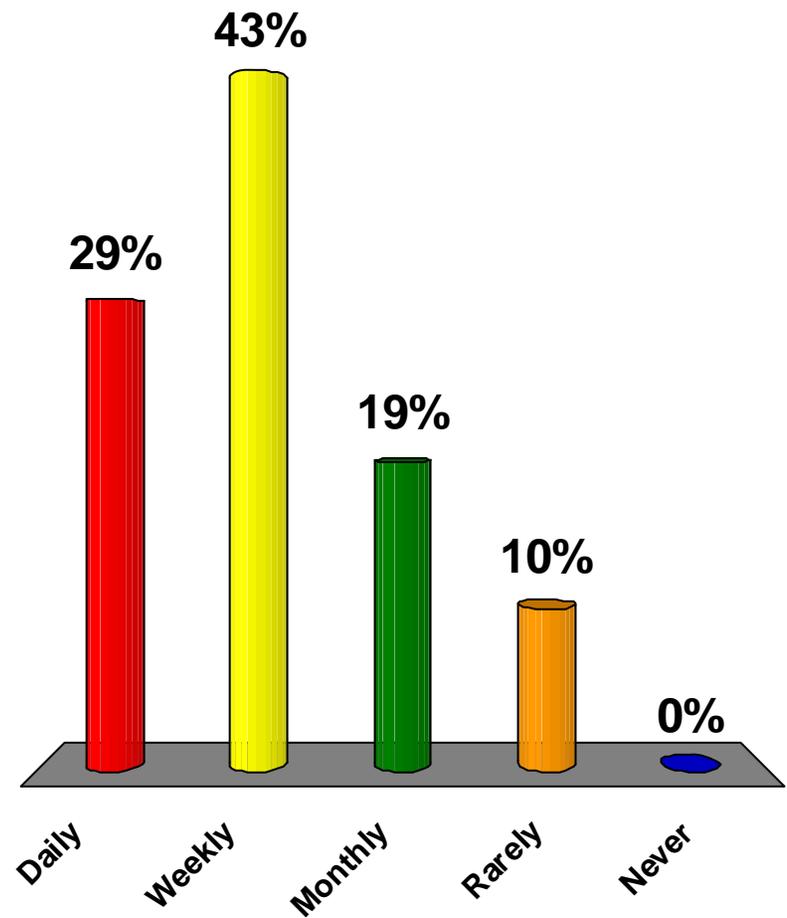
How often do you use this segment of US Route 7?

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



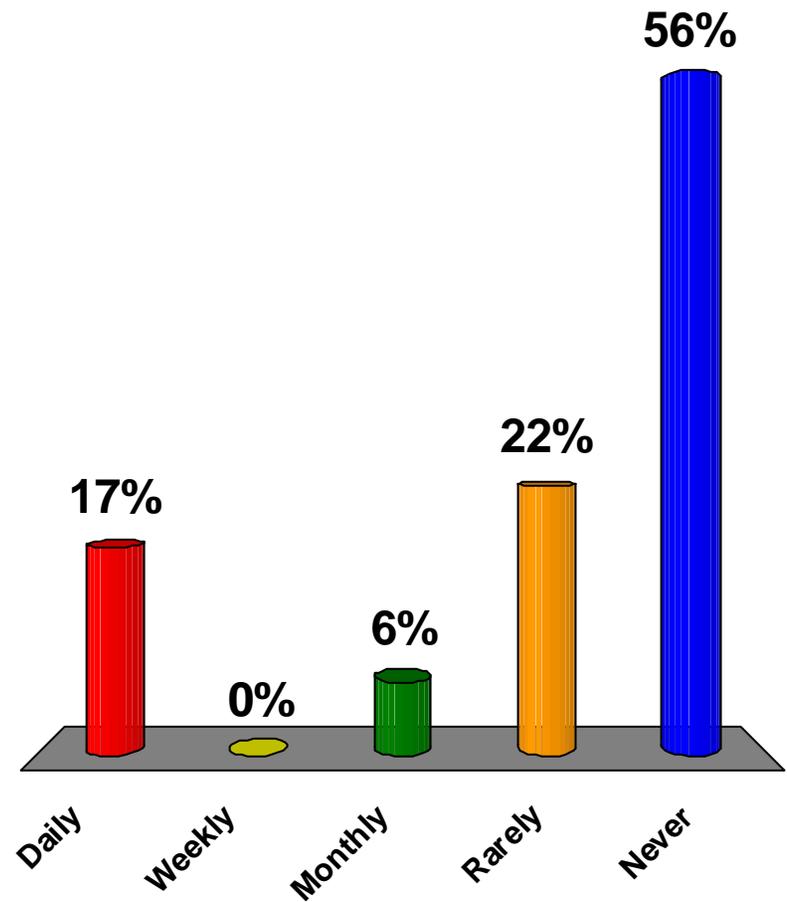
How often do you use this segment of US Route 3?

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



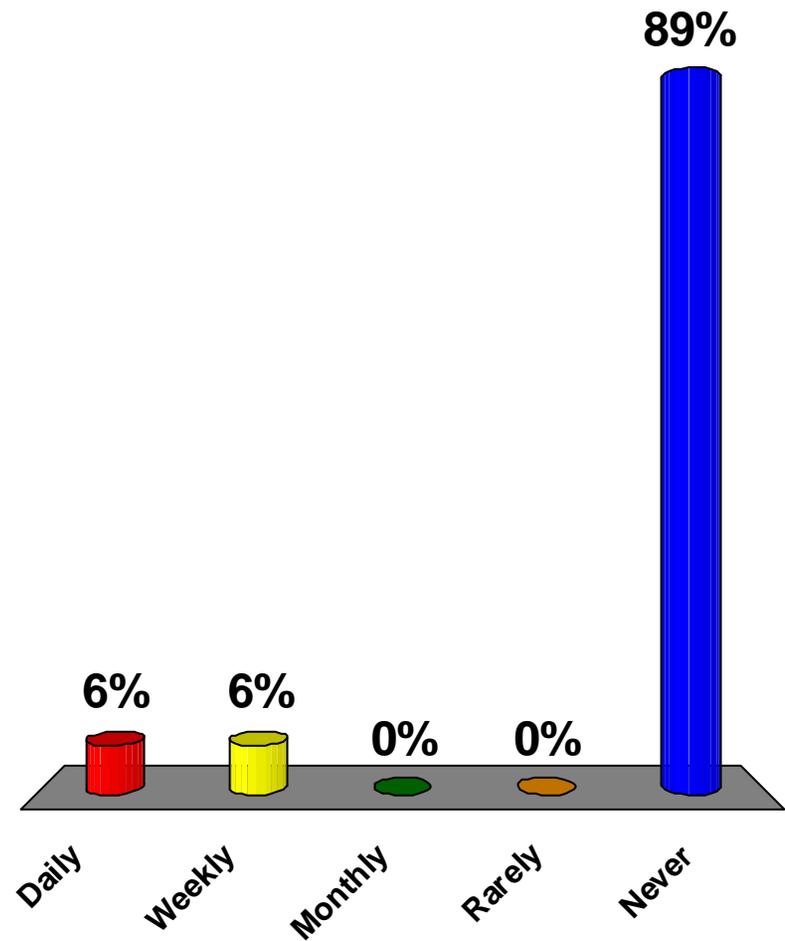
How often do you use the sidewalk over the bridge?

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



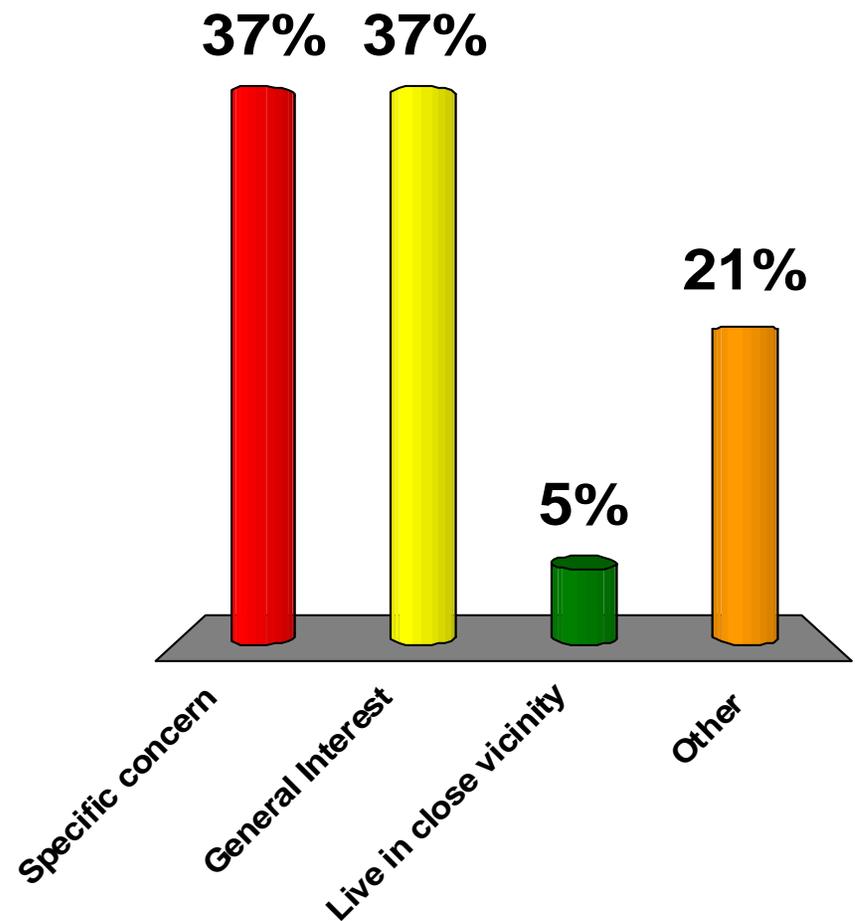
How often do you bike over the bridge?

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



What is your reason for attending this meeting?

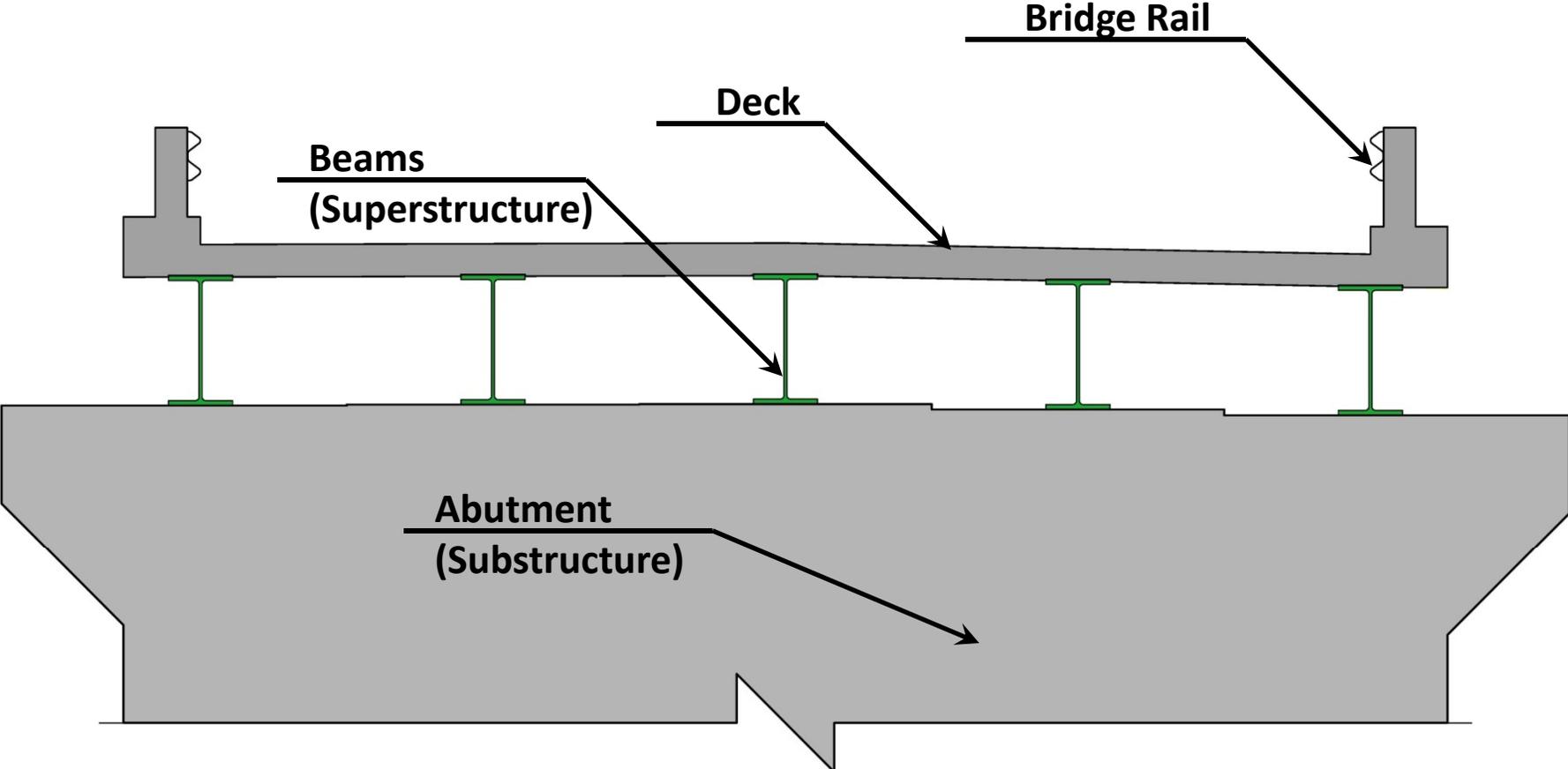
- A. Specific concern
- B. General Interest
- C. Live in close vicinity
- D. Other



Project Overview

- Existing Conditions
- Alternatives Considered
- Recommended Alternative

Description of Terms Used



Cross Section of Bridge



Existing Conditions – Bridge #108

- Superstructure – 2 Span, Concrete T-Beam Bridge
- Substructure – Reinforced Concrete Abutments & Pier
- Constructed in 1931

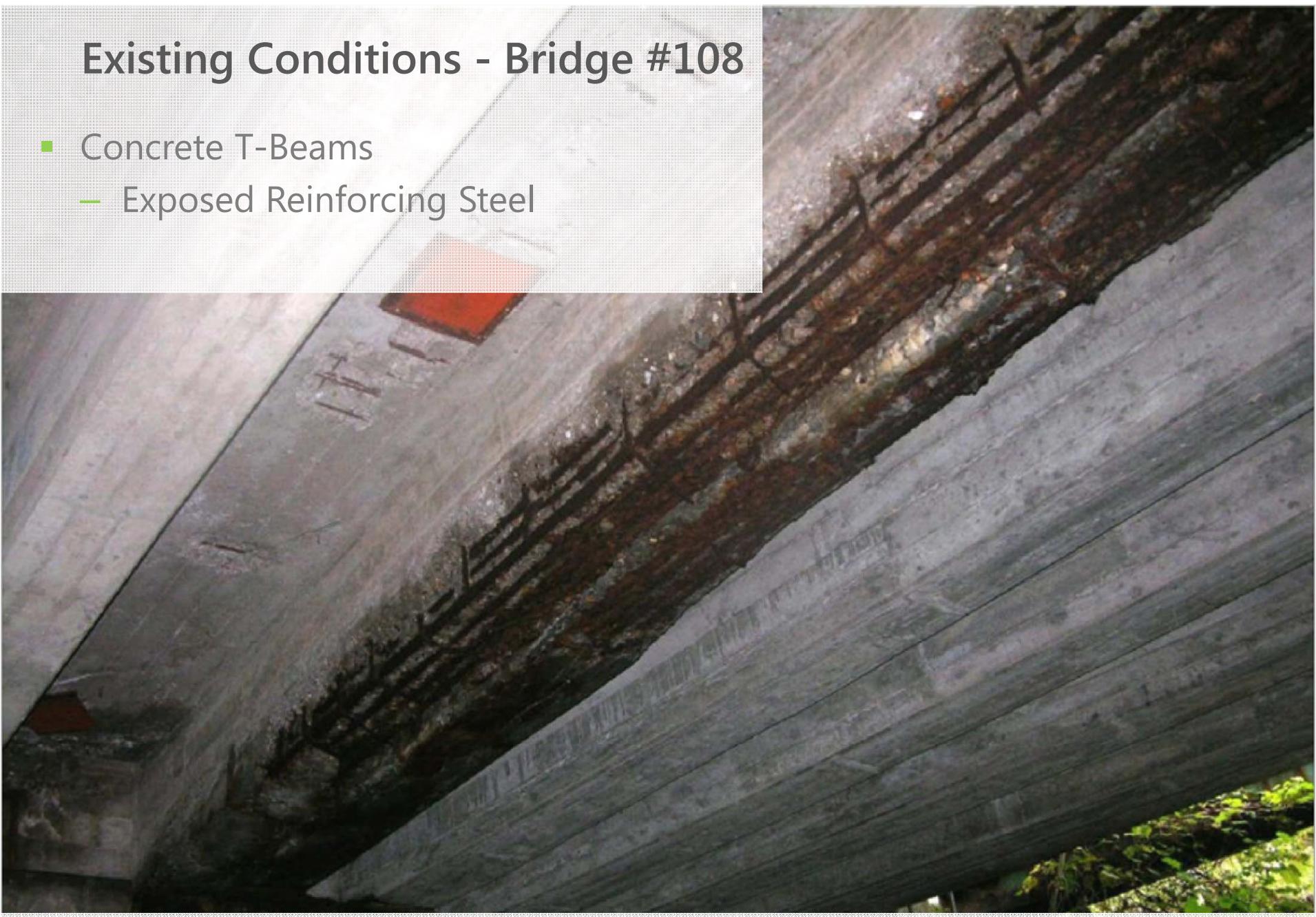
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Existing Conditions – Bridge #108

- Concrete T-Beams have exposed reinforcing steel
- Pot holes throughout the deck surface
- Leaky Bridge Joints
- Sag vertical curve and headlight site distance are substandard
- Deck geometry is substandard
- Bridge railing is substandard
- Utilities attached to bridge

Existing Conditions - Bridge #108

- Concrete T-Beams
- Exposed Reinforcing Steel



Exposed Reinforcing Steel in beam and deck

Approach looking north



Existing Conditions - Bridge #108

- Substandard Deck Geometry
- Substandard Railing

Approach looking south



Existing Conditions - Bridge #108

- Substandard vertical curve and headlight sight distance

Upstream Fascia



Existing Conditions - Bridge #108

- Utilities attached to bridge

Alternatives Considered – Bridge #108

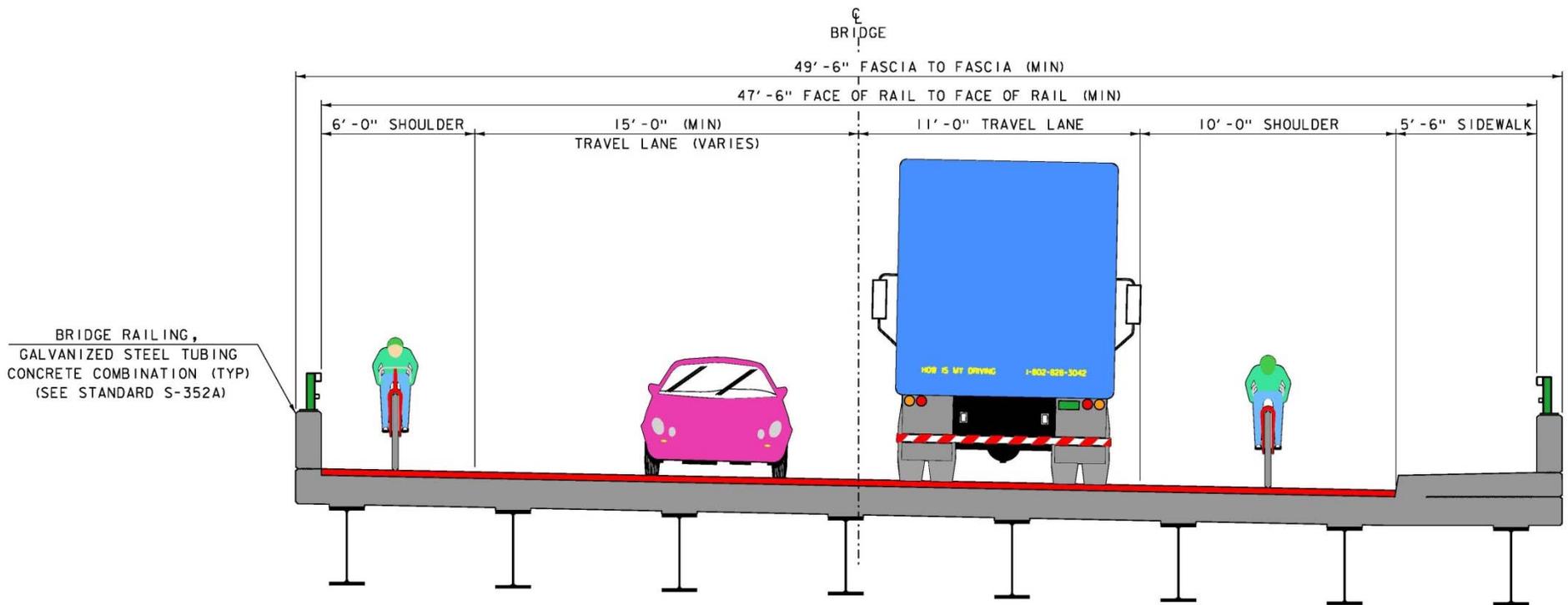
- No Action
 - Additional maintenance required within 10 years
- Superstructure Replacement
 - Least-up front cost
 - Substructure Patching
 - Substandard width and vertical curve
 - 2 Span bridge
- Full Bridge Replacement On Alignment
 - Resolve all geometric issues except vertical alignment
 - Longest service life
 - Single Span bridge

Selected Alternative - Bridge #108

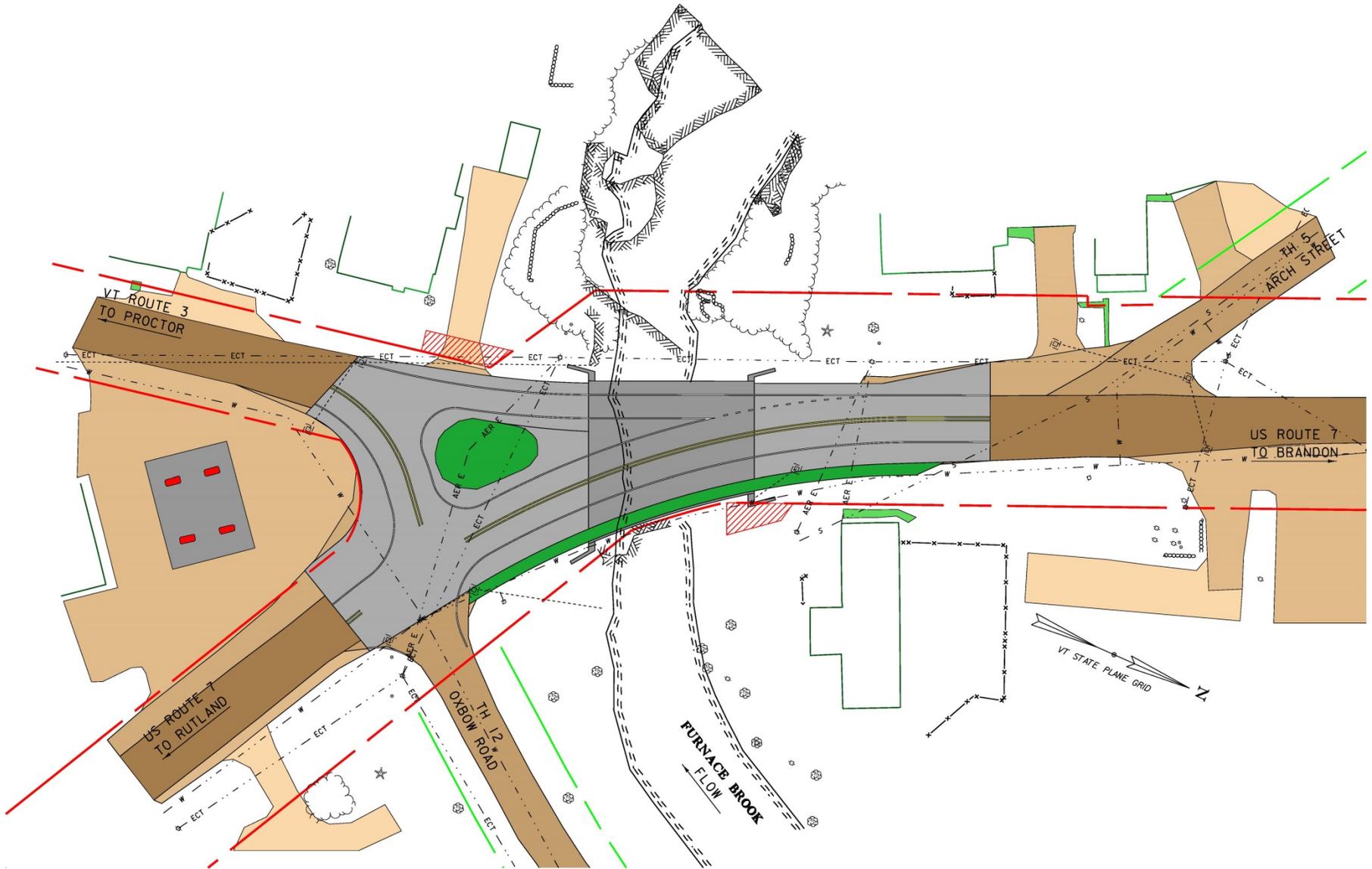
- Replace entire structure on alignment with new single span structure
 - 75' single span founded on ledge
 - Widen structure to meet VT State Standards
 - Substandard vertical alignment to match existing

Proposed Bridge Section

- Proposed Bridge Rail to Rail = 47.5' (Existing is 39')
- Proposed Bridge Rail to Sidewalk Curb = 42' (Existing is 34')



Proposed Layout



What Will the New Bridge Look Like?



Proposed Example - Bridge #108

- Steel Beam Bridge
- Historic Railing – Bridge #108 is within the Pittsford-Mills Historic District
- Utilities attached to Bridge

(Picture from FAS Route 105 Bridge 32 in Readsboro)

12/04/2013

Maintenance of Traffic Options Considered

- Road Closure
- Phased Construction
- Temporary Bridge

Selected Maintenance of Traffic

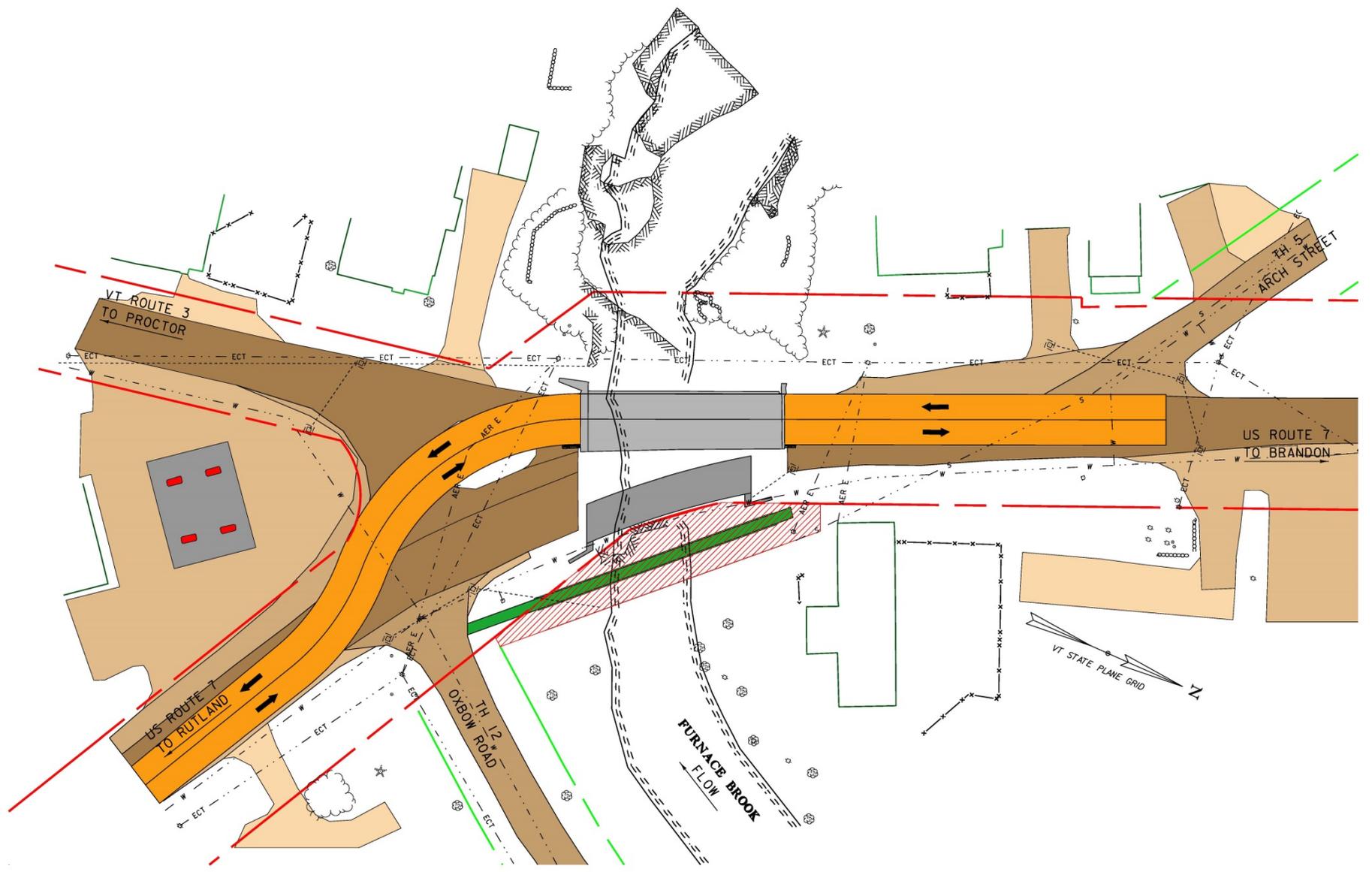


Phased Construction

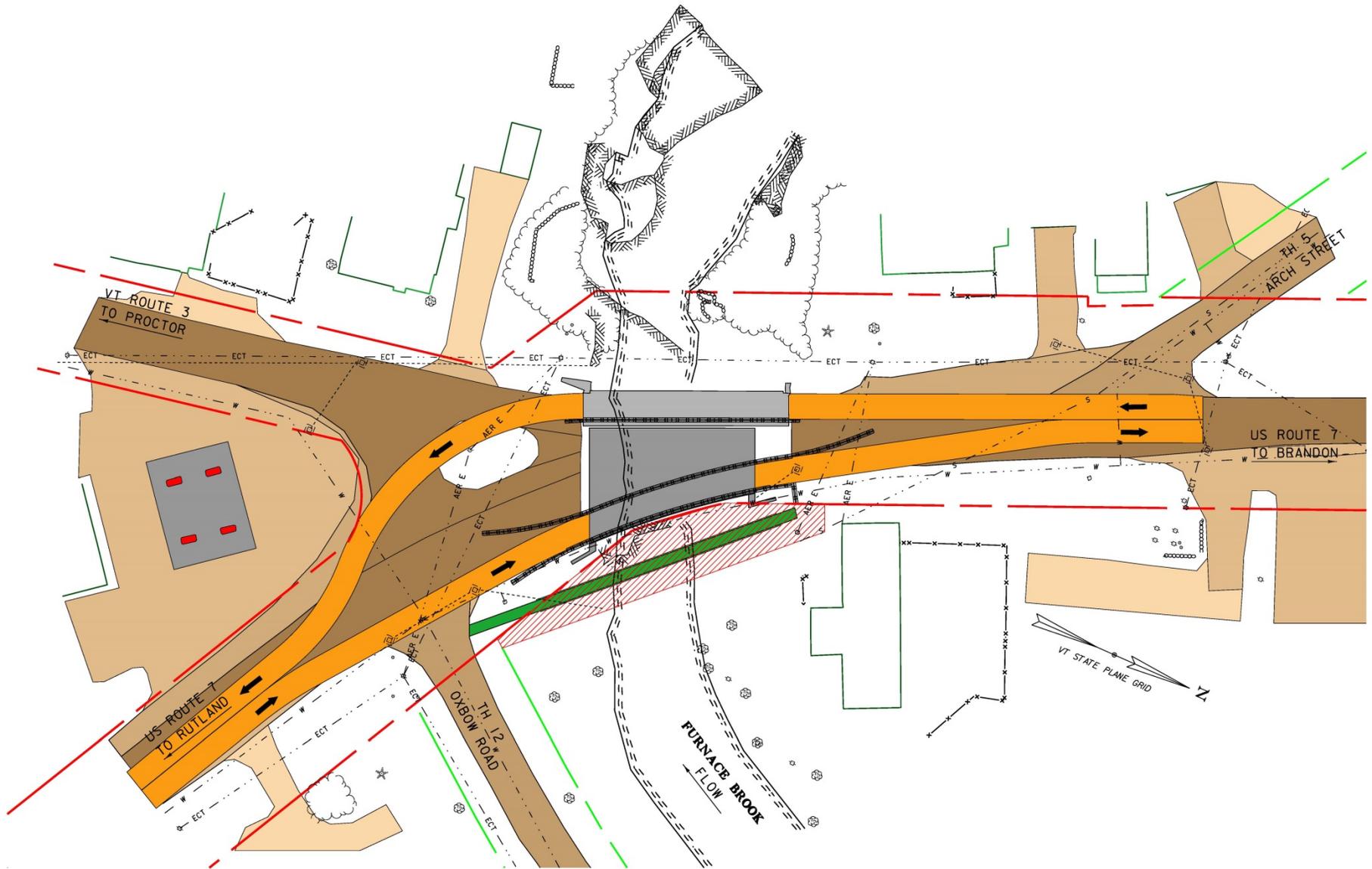
- 3 Phases with Northbound and Southbound traffic maintained on Bridge 108.
- Pedestrians maintained on an upstream temporary pedestrian bridge

(Picture from US Route 7 Bridge 184 in Highgate)

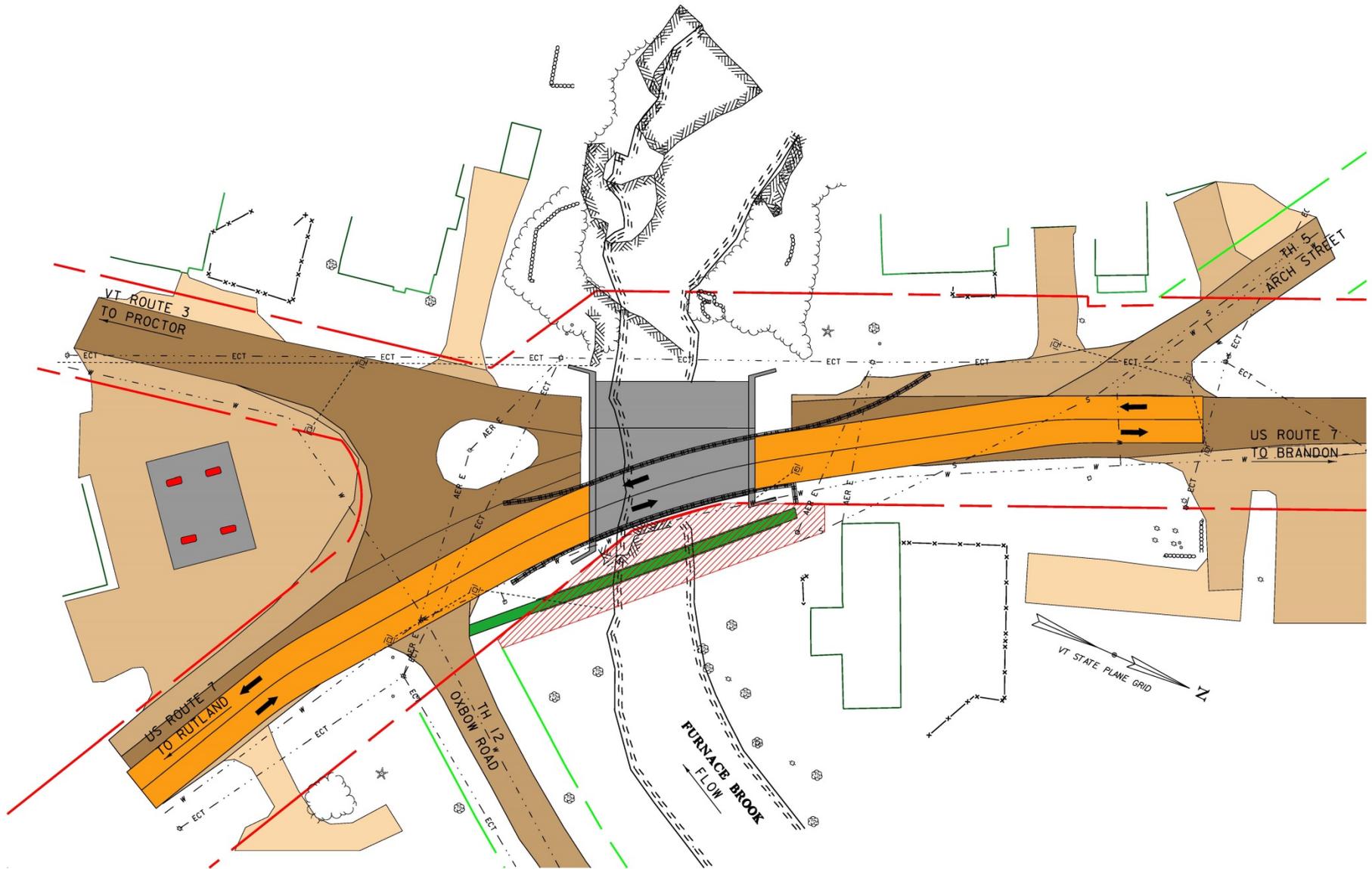
Traffic Control – Phase 1



Traffic Control – Phase 2



Traffic Control – Phase 3



Preliminary Project Schedule

- Construction – Summer 2019 or 2020

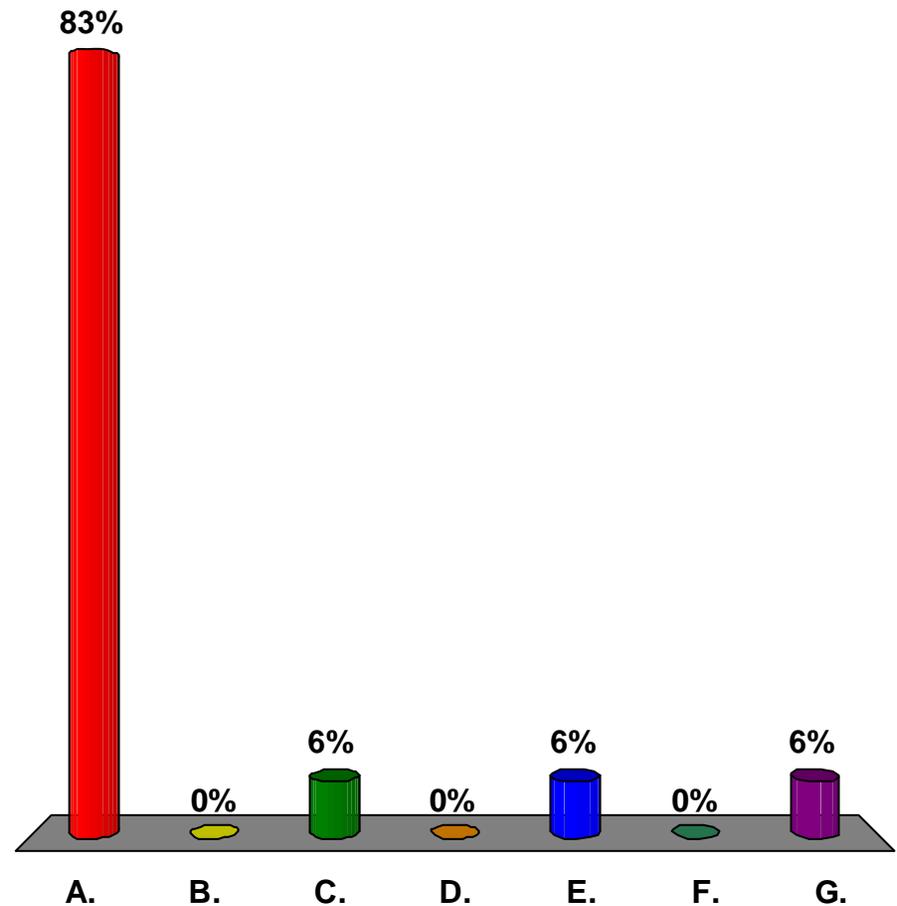
(to be coordinated with the Pittsford Brandon US 7 roadway project)

Project Summary

- Replace entire structure on alignment with a new single span bridge:
 - Two-way phased construction with a temporary pedestrian bridge placed upstream of the existing bridge
 - 3 Phases
 - Substandard vertical alignment to match existing
 - 75' single span
 - Utility relocation needed
 - ROW needed

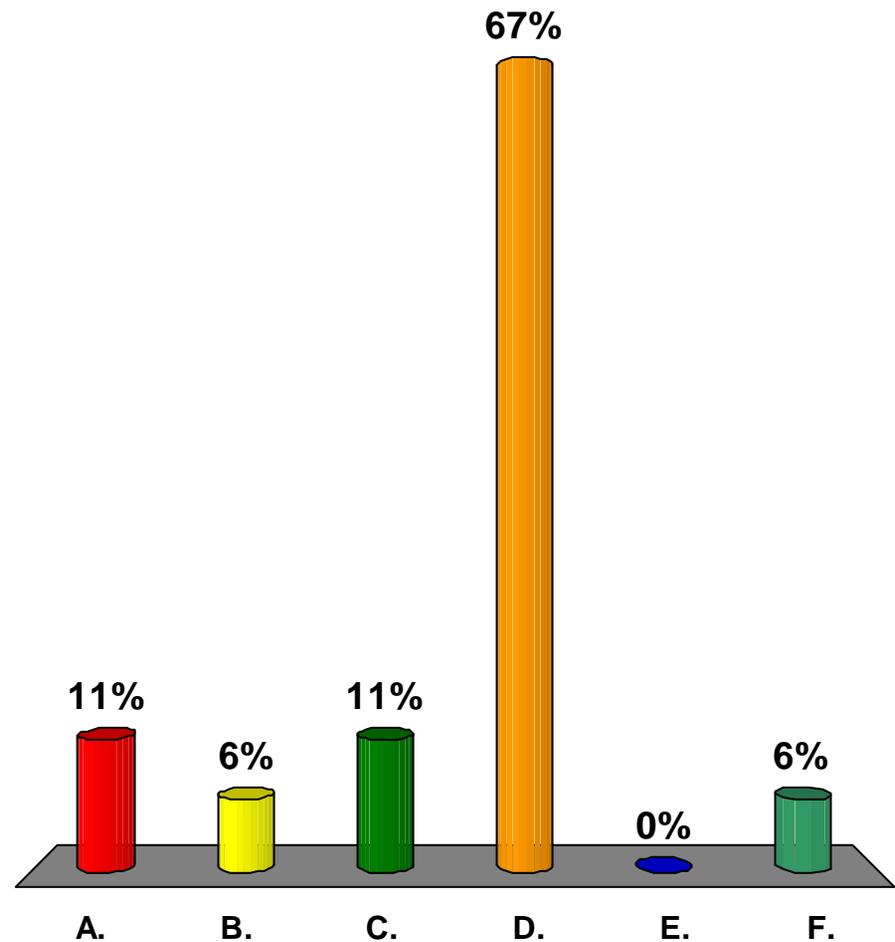
Which would you be most concerned about?

- A. Construction delays on US Route 7
- B. VT Route 3 Delays
- C. Bridge Aesthetics
- D. Environmental Impacts
- E. Recreational Impacts
- F. Other
- G. Not really concerned



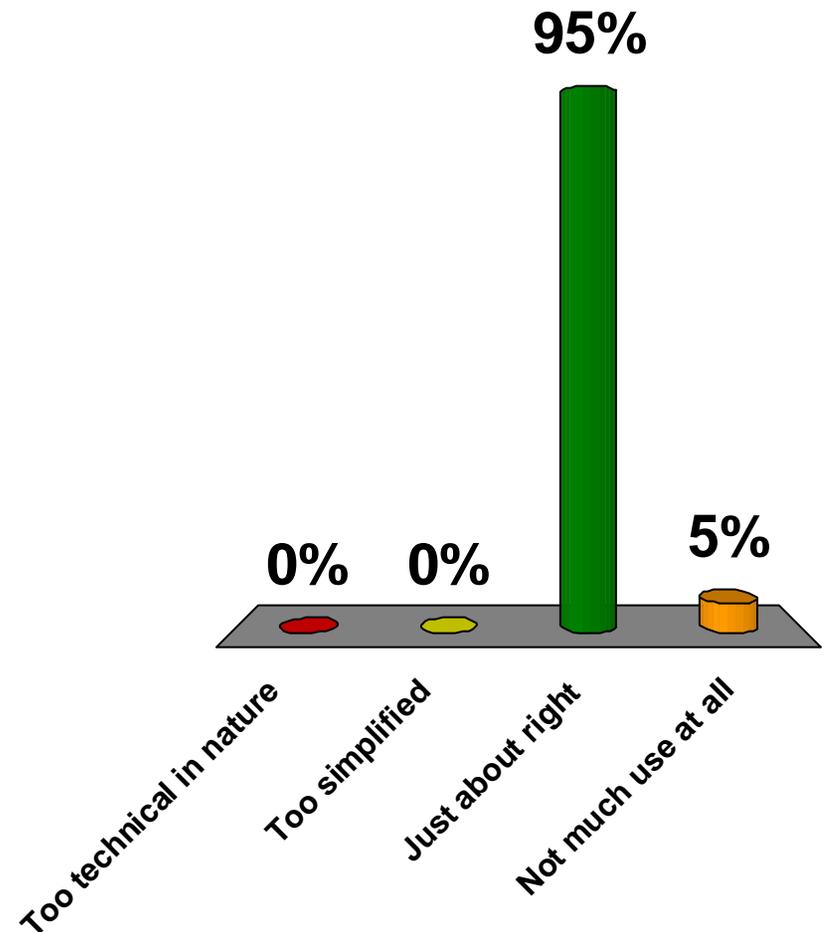
Which design aspect is the most important to you?

- A. Shoulder width/bicycle accommodations
- B. Aesthetics - Bridge Railing
- C. Construction year
- D. Construction Duration
- E. Cost
- F. Other



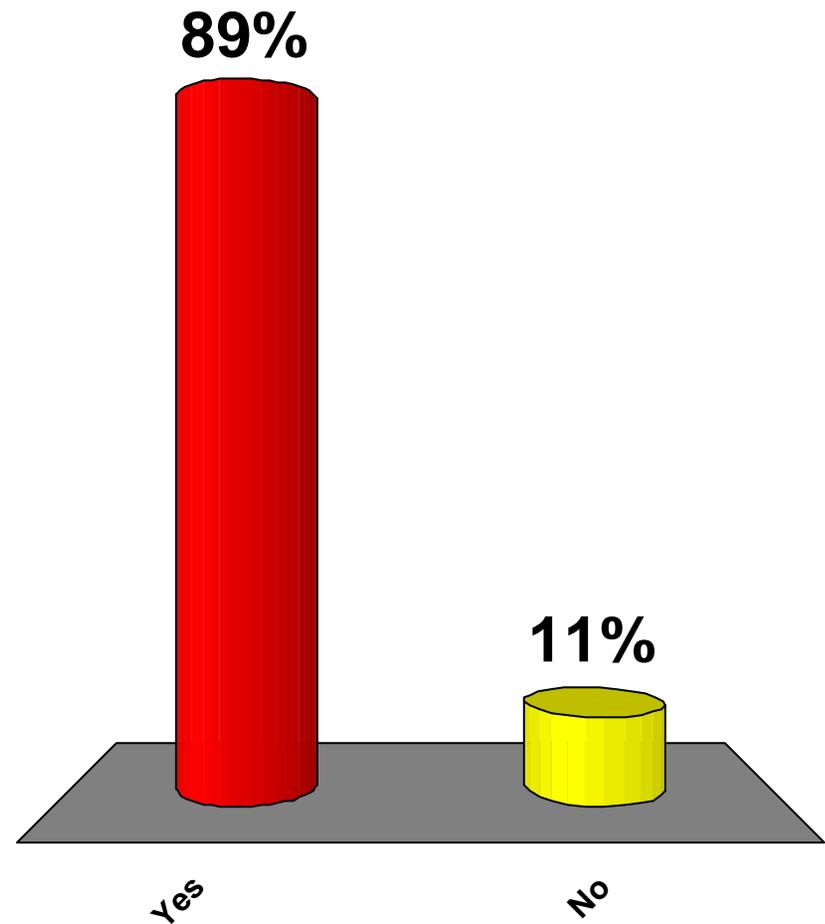
Did you find this presentation to be?

- 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/13B266>



Pittsford BF 019-3(59) Questions and Comments

US 7 – Bridge #108

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