

**Calais BHF 037-2(11)
Bridge 82 on VT 14
Over the Kingsbury Branch
Public 502 Informational Hearing**



Presented by
Christopher P. Williams, P.E.
Senior Project Manager
Structures Section
Vermont Agency of Transportation
Chris.Williams@State.VT.US

Hearing date 7/17/13

Meeting Outline

- Purpose of the Meeting
- Existing bridge information
- Proposed project information
- Next Steps
- Questions

Purpose of Meeting

- Present the Conceptual plans
- Provide you with the chance to ask questions.
- Provide you with the chance to voice concerns
- Build consensus for the proposed project-

Phases of Development

Project
Funded

Project
Defined

Contract
Award

Project Definition

Project Design

Construction

Identify resources &
constraints

Evaluate alternatives

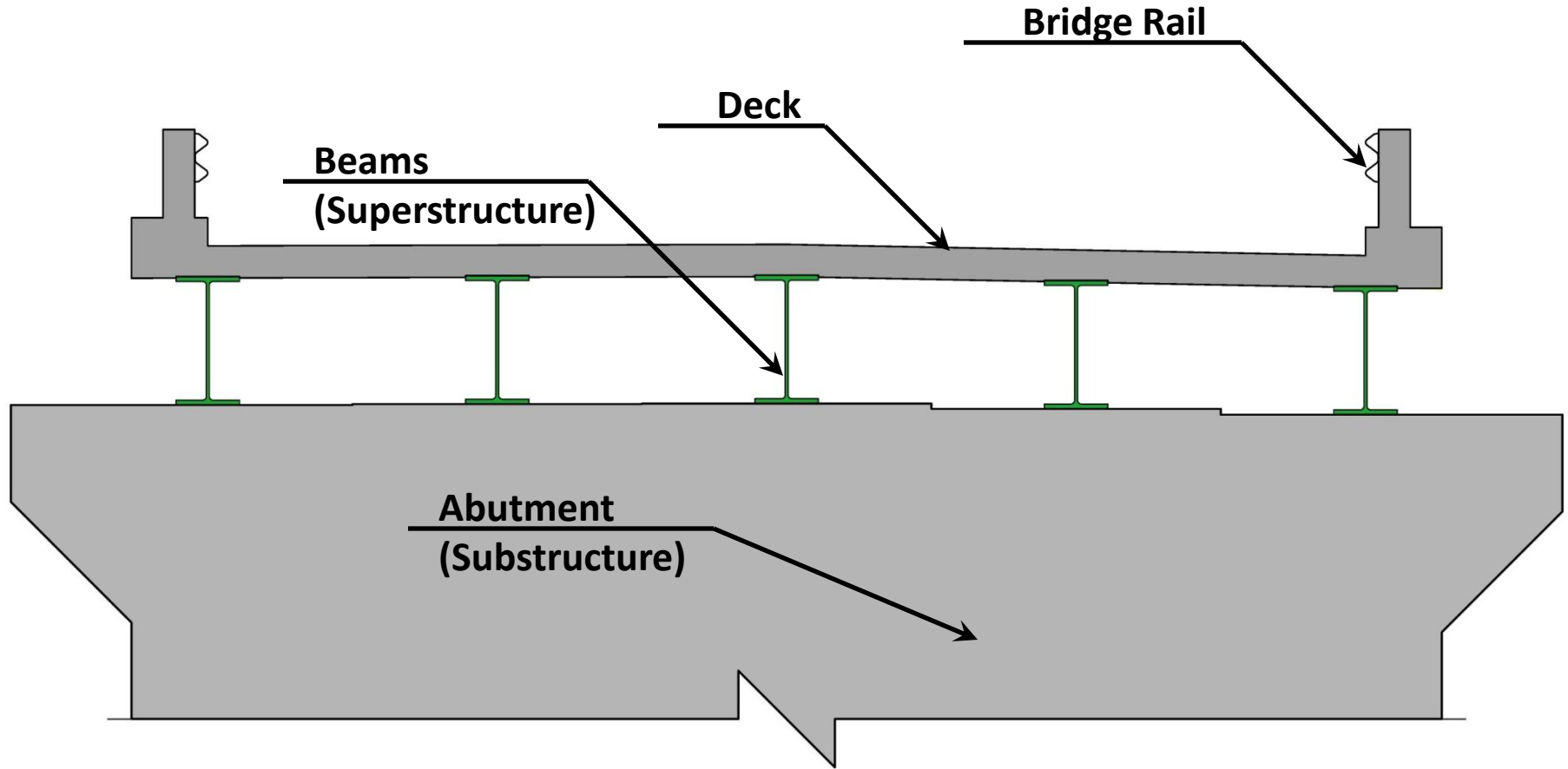
Public Participation

- Quantify areas of
impact

- Environmental
permits

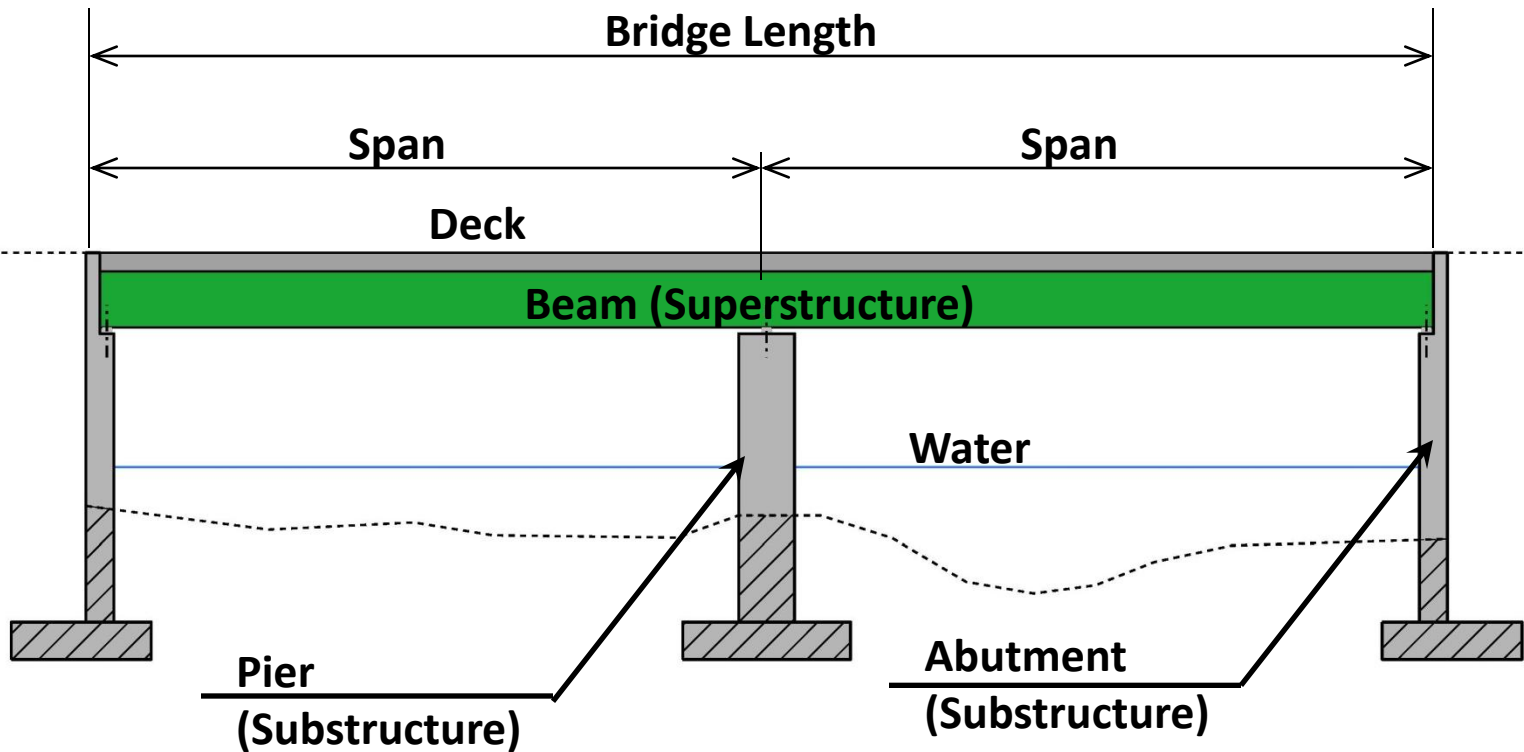
- Develop plans,
estimate and
specifications

Description of Terms Used



Cross Section of Bridge

More Terms Used



Elevation View of Bridge

Project Background

- The structure is owned and maintained by the State (no local funds)
- VT 14 functional classification is **Rural Minor Arterial**.
- Existing bridge is a single span concrete T-beam bridge
- Span length = 34'
- Bridge width = 32'
- Age is unknown – **reconstructed in 1946**
- Posted speed limit = 50 mph
- **Priority 17** in the State Bridge Program

Project Background (Cont)

- Traffic Data

TRAFFIC DATA	2015	2035
AADT	2,700	2,900
DHV	320	340
ADTT	310	510
%T	9.1	14.2

EXISTING BRIDGE DEFICIENCIES

Inspection Report Information (Based on a scale of 9)

Bridge Deck Rating	4 Poor
Superstructure Rating	5 Fair
Substructure Rating	5 Fair

Deficiencies

- Structural Capacity/Condition of the Bridge Deck and T-beams
- Bridge railing does not meet the current standard
- The bridge does not meet the hydraulic standard

Bridge Looking North



Bridge Looking South



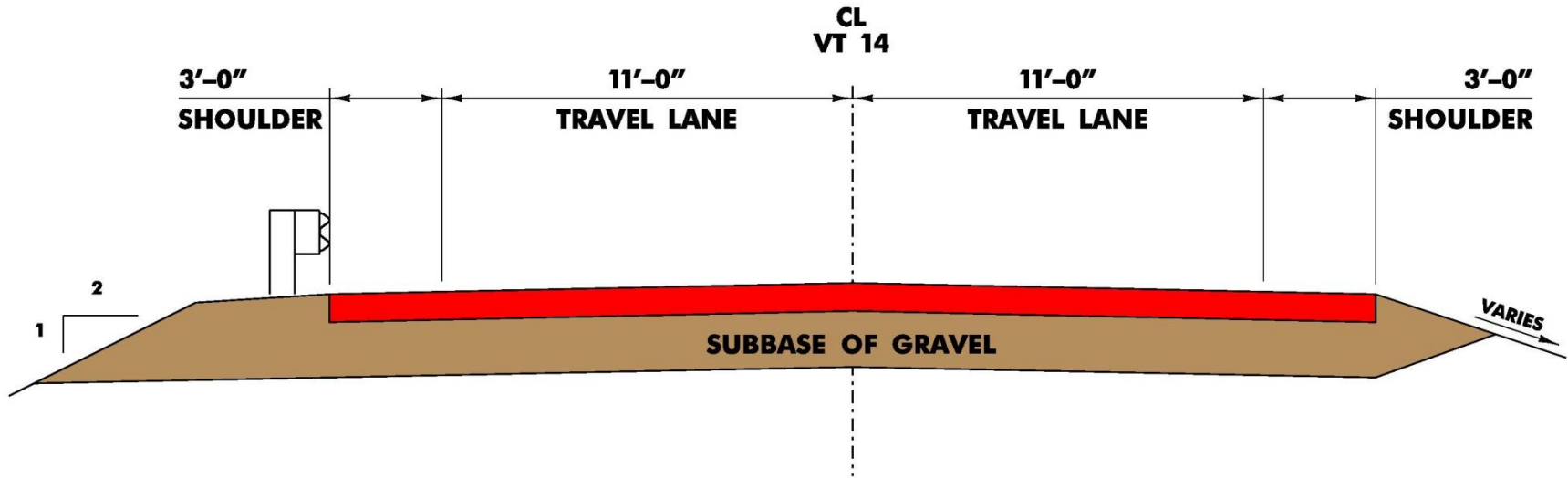
Northeast Wingwall



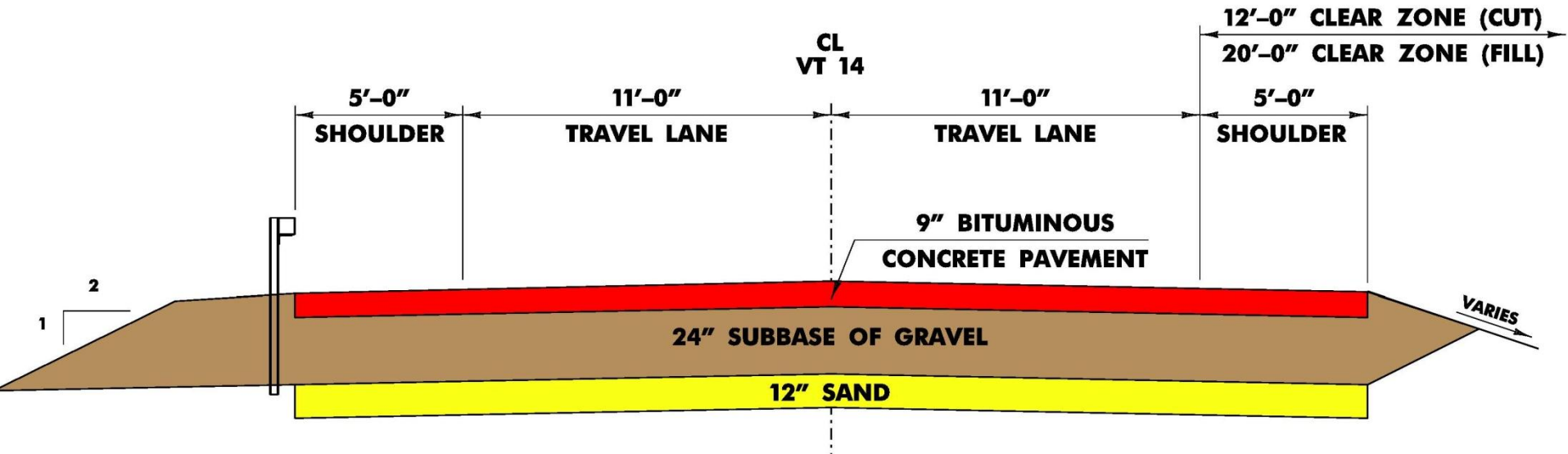
Proposed Project

- Complete bridge replacement warranted
- Use 11' lanes and 5' shoulders (32' rail-rail width)
- Use 60' single span bridge
- Maintain existing centerline of road
- Raise vertical grade of road to improve hydraulics-

Proposed Roadway Typical

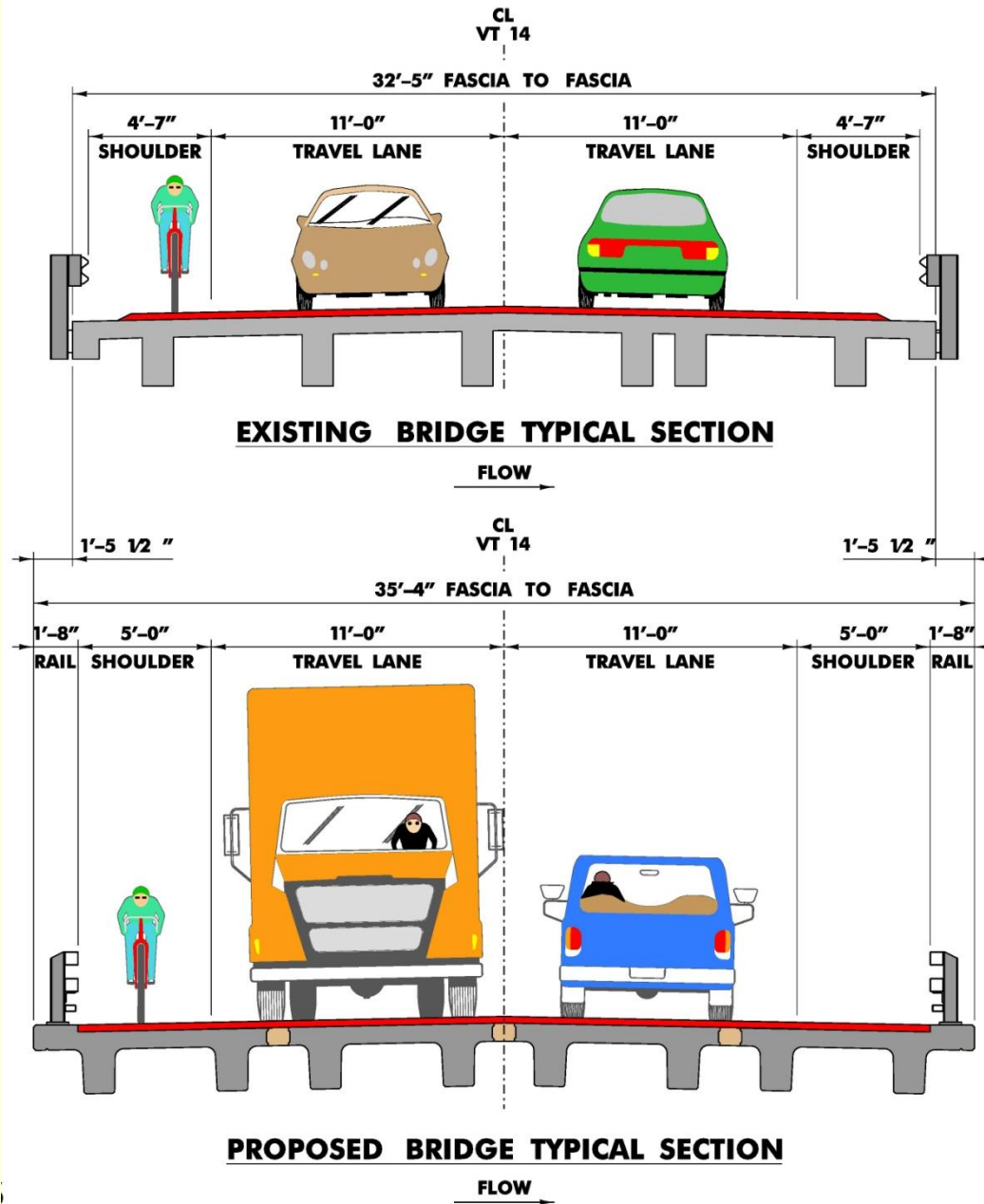


EXISTING VT 14 TYPICAL SECTION

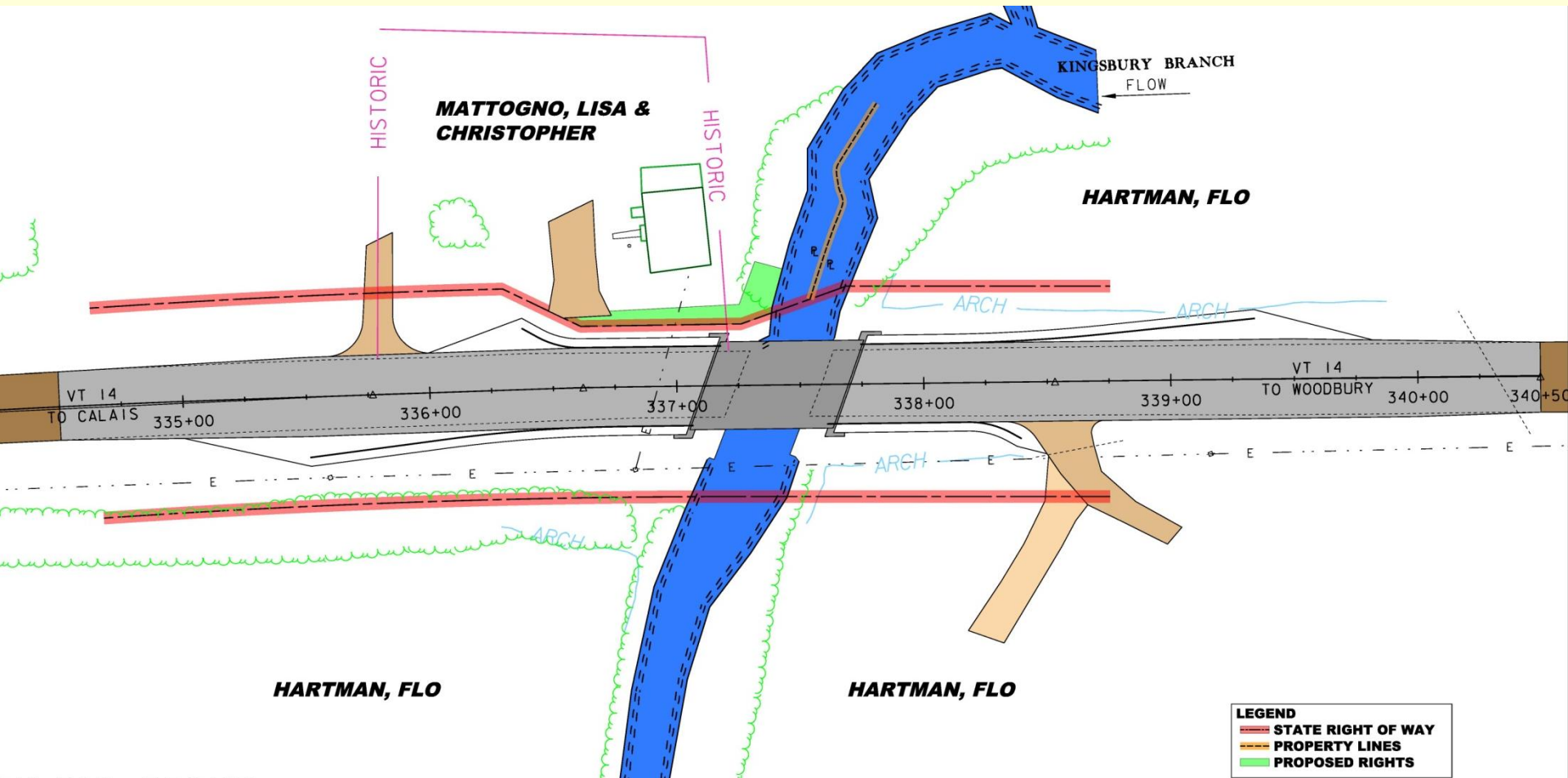


PROPOSED VT 14 TYPICAL SECTION

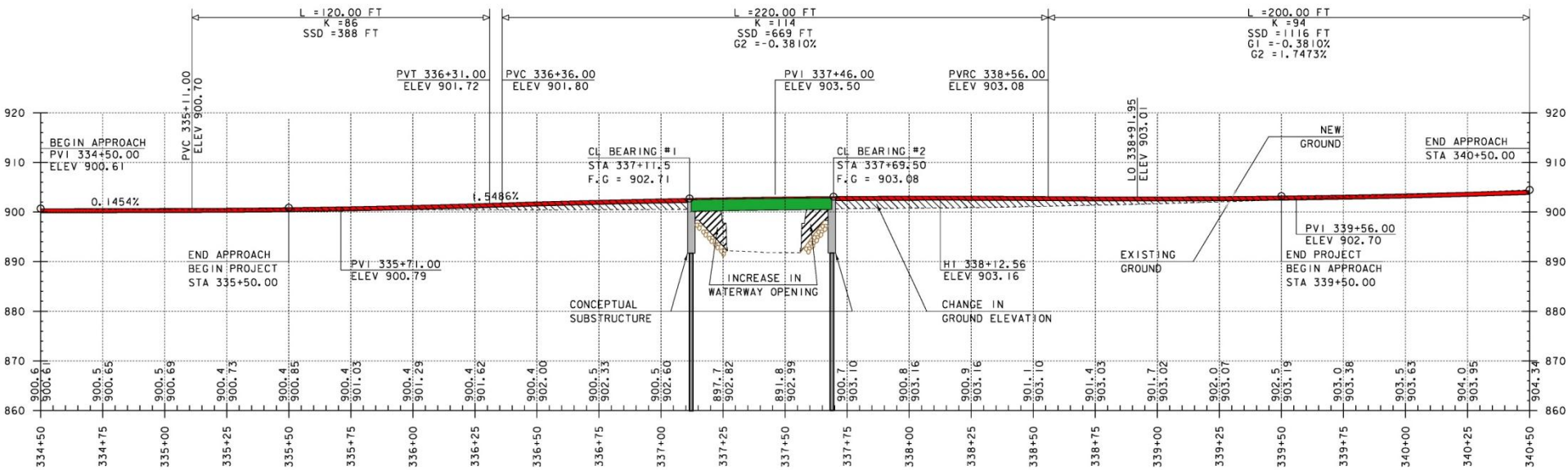
Proposed Bridge Typical



Layout of Proposed Bridge



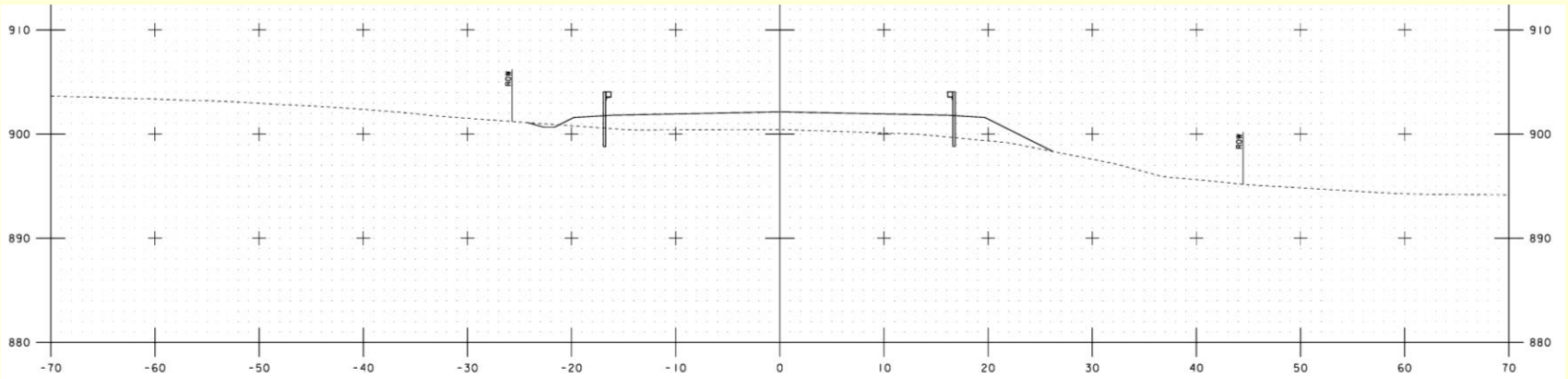
Profile of Proposed Bridge



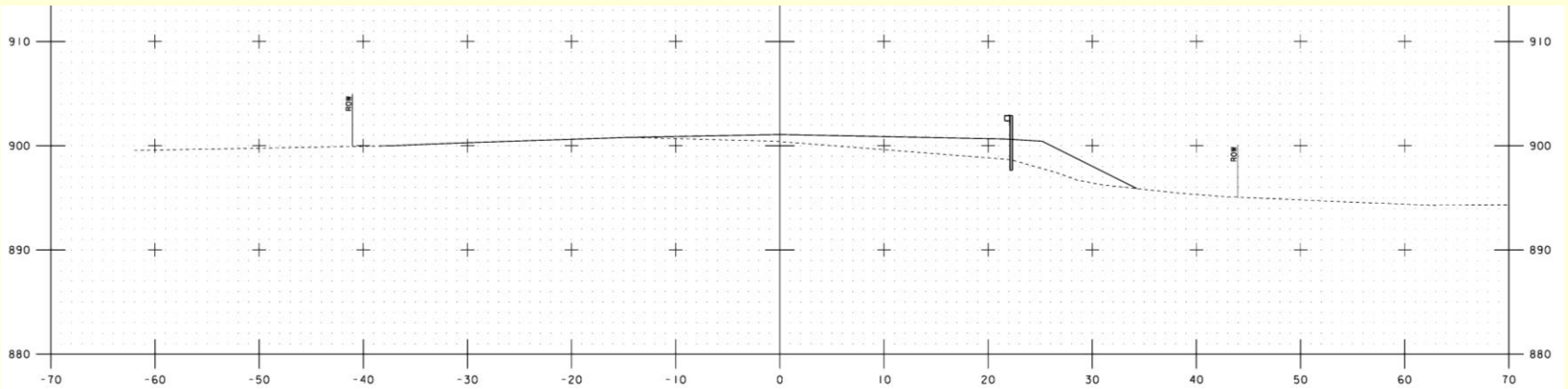
VT 14 BRIDGE REPLACEMENT PROFILE

SCALE: HORIZONTAL 1"=20'-0"
VERTICAL 1"=10'-0"

Drive Cross Sections (1)

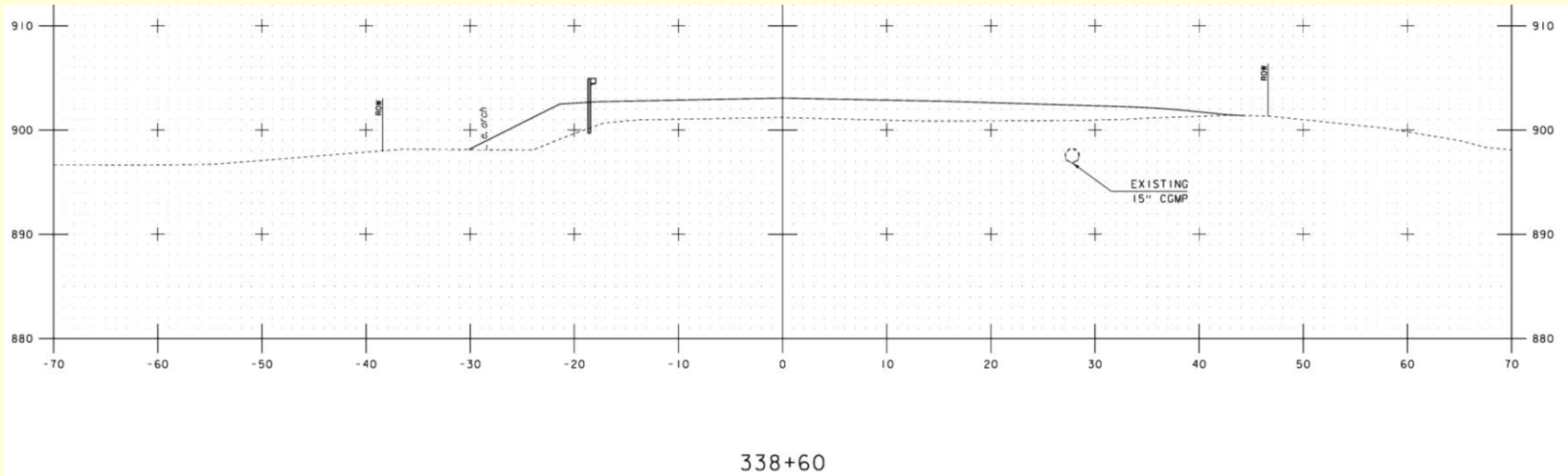


336+60

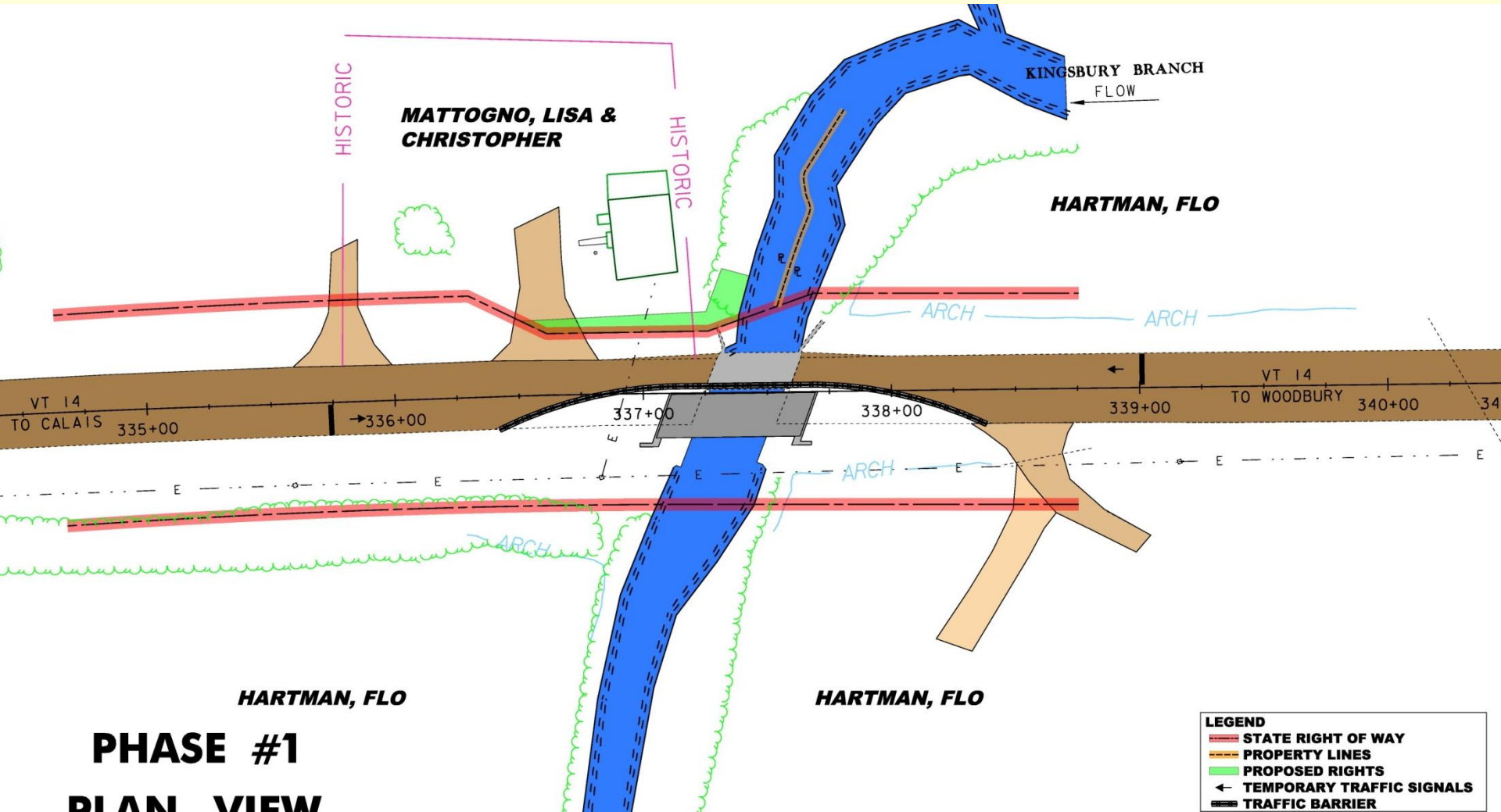


335+80

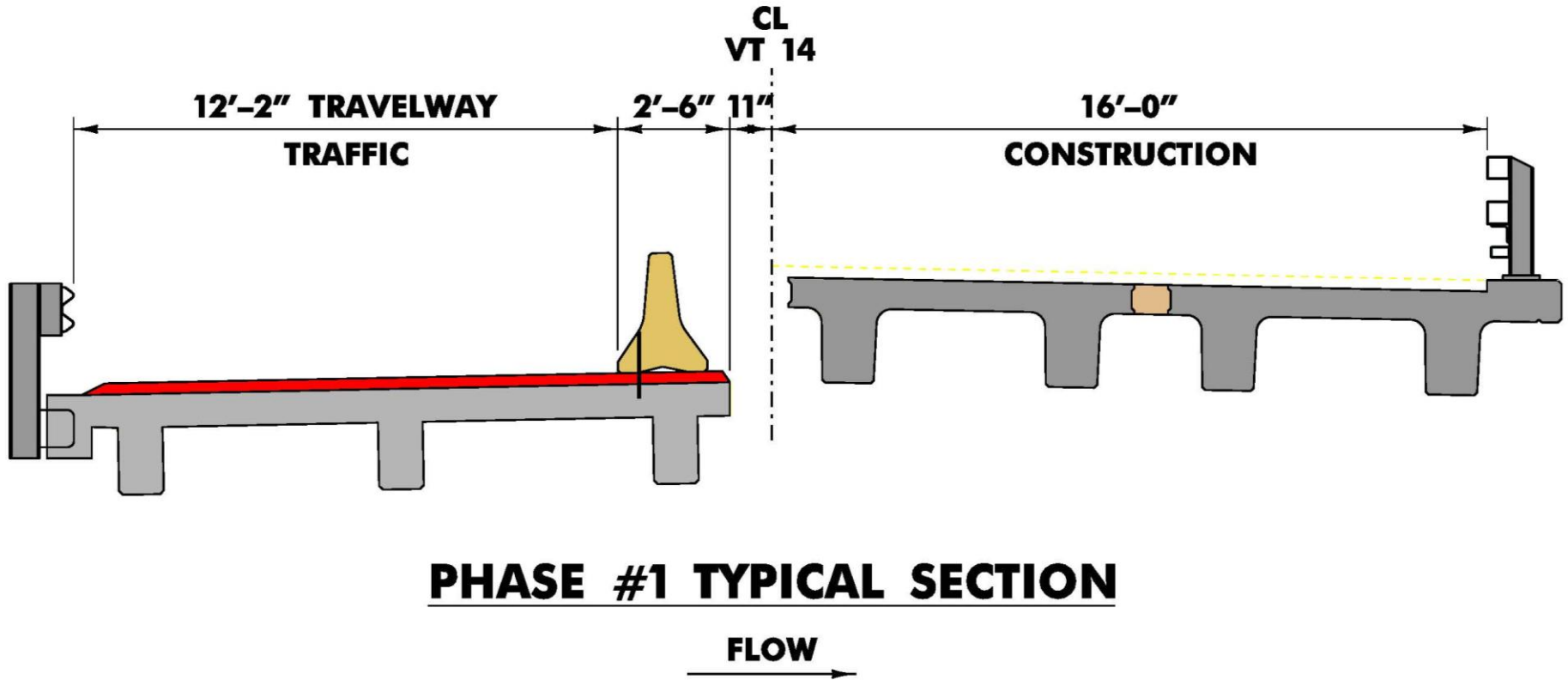
Drive Cross Sections (2)



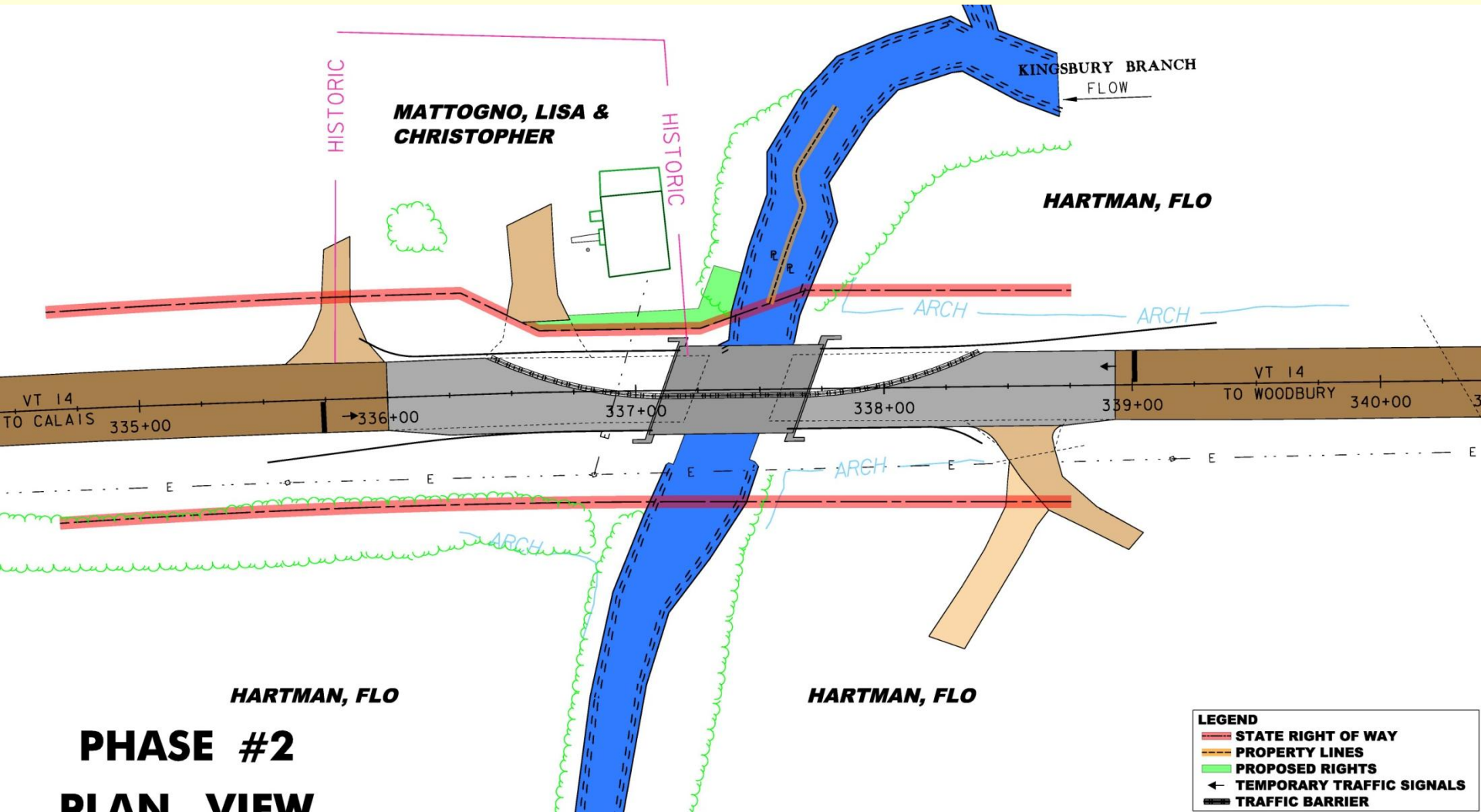
Maintenance of Traffic Phase 1



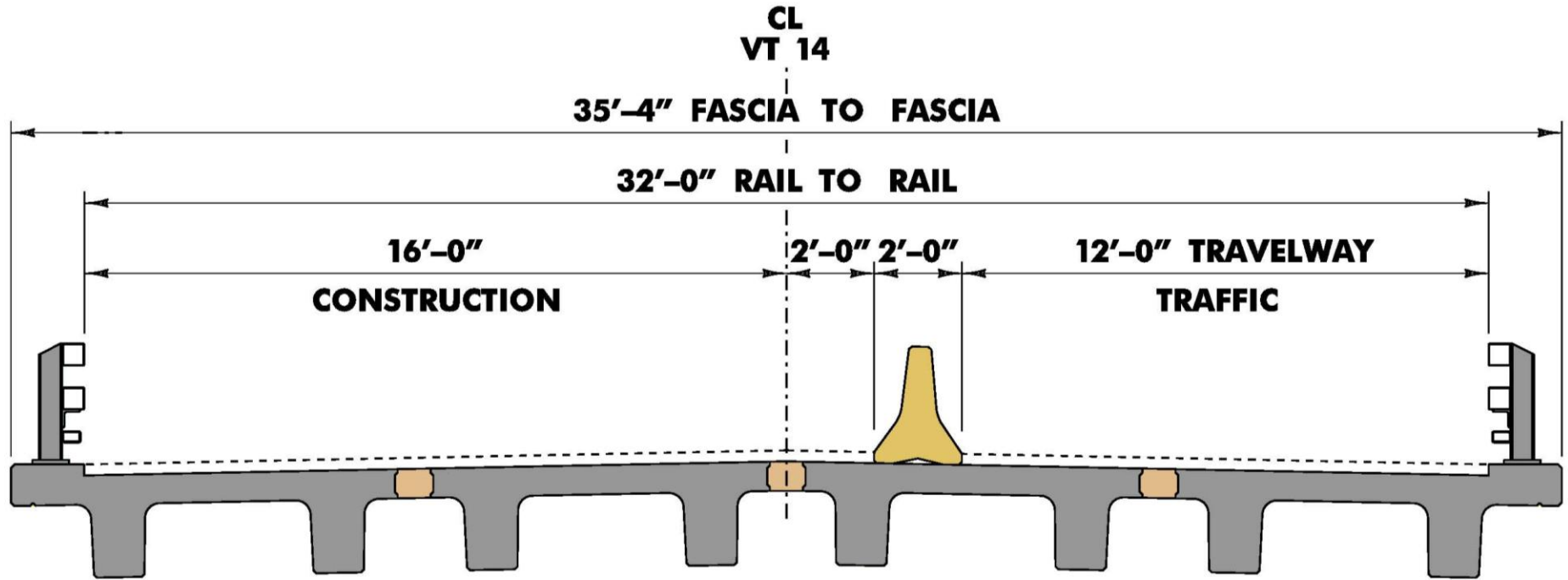
Maintenance of Traffic Phase 1 Typical Section



Maintenance of Traffic Phase 2



Maintenance of Traffic Phase 2 Typical Section



PHASE #2 TYPICAL SECTION

FLOW



PAVING TO OCCUR

AFTER PHASE #2

Scope - Cost - Schedule

The project cost and schedule can not be determined until the scope of the project is clearly defined.

Preliminary Engineering	\$ 350,000
Right-of-Way	\$ 60,000
Construction w/ CE and Contingencies	\$1,500,000
Total	\$2,000,000

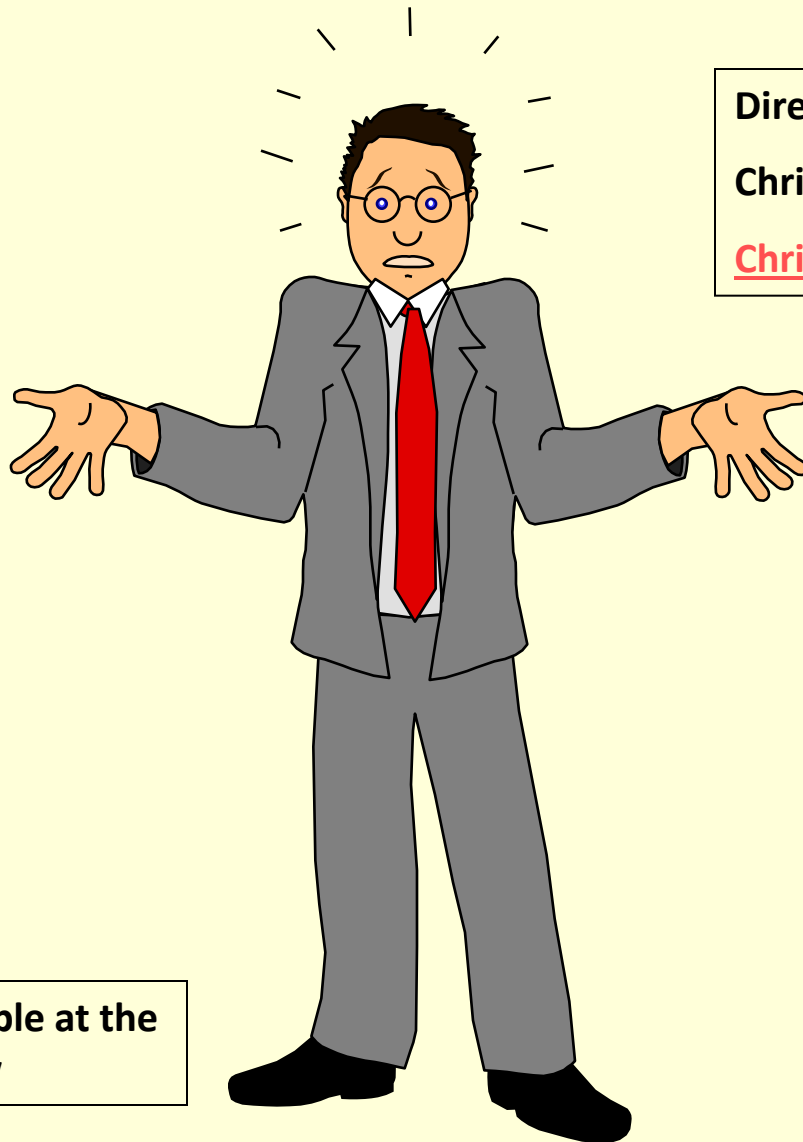
- Construction is currently scheduled for 2017
- Many factors can effect construction year
- Construction year is assuming Federal & State funding is available (project is funded 80% Fed – 20% State)

Next Steps

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

- Consider comments received at Public Meeting
- Provide written response to Town with decisions
- **PROJECT DESIGN PHASE BEGINS**
- Develop Preliminary Plans
- Environmental permitting process
- Utility relocation routing
- Meet with adjacent property owners
- Right-of-Way acquisition process
- Final design details

Questions



Direct any questions to:

Christopher P. Williams, P.E.

Chris.Williams@State.VT.US

This presentation is available at the
web address shown below

<https://outside.vermont.gov/agency/vtrans/external/Projects/Structures/12B146>