

Jay BHF 0278(3)

Bridge 10 on VT 242 over Jay Branch

Public 502 Informational Hearing



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Hearing Date 8/20/13

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

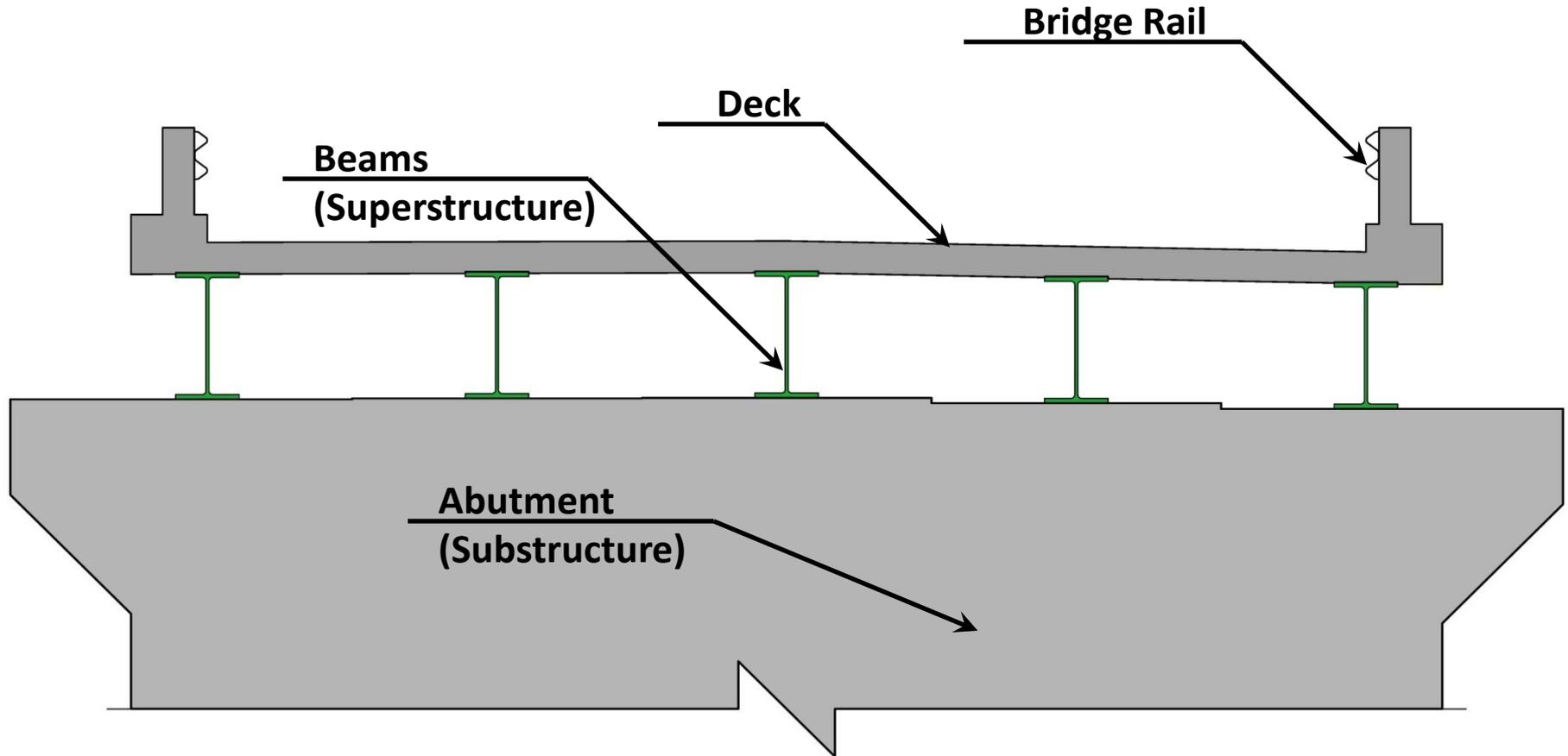
Public Participation

- Quantify areas of
impact

- Environmental
permits

- Develop plans,
estimate and
specifications

Description of Terms Used



Cross Section of Bridge

Project Background

- Existing bridge is a single span concrete T-beam bridge
- Span length = 28'
- Bridge width = 30'
- Built in **1927 (86 years old) – reconstructed in 1964**
- Posted speed limit = 40 mph
- Owned and maintained by the State (no local funds)
- VT 242 functional classification is Rural Major Collector
- **Priority 24** in the State Bridge Program-

Project Background

- Traffic Data

TRAFFIC DATA	2015	2035
Average Annual Daily Traffic	1,400	1,500
Design Hourly Volume	290	300
Average Daily Truck Traffic	170	240
%Trucks	11.6	15.6

EXISTING BRIDGE DEFICIENCIES

Inspection Report Information (Based on a scale of 9)

Bridge Deck Rating	4 Poor
Superstructure Rating	5 Fair
Substructure Rating	6 Satisfactory

Rating Definitions

- 9 Excellent
- 8 Very Good
- 7 Good
- 6 Satisfactory
- 5 Fair
- 4 Poor
- 3 Serious
- 2 Critical
- 1 Imminent Failure

Deficiencies

- Structural Capacity/Condition of the Bridge Deck and T-beams
- The bridge is undersized hydraulically
- Undermining and scour on the downstream wingwall on the north abut

Looking North



Bridge Looking South



Looking Upstream



Utility along west side



03.22.2012

Southeast Wingwall (Sewer line under bridge)



Northeast Wingwall



Southwest Wingwall



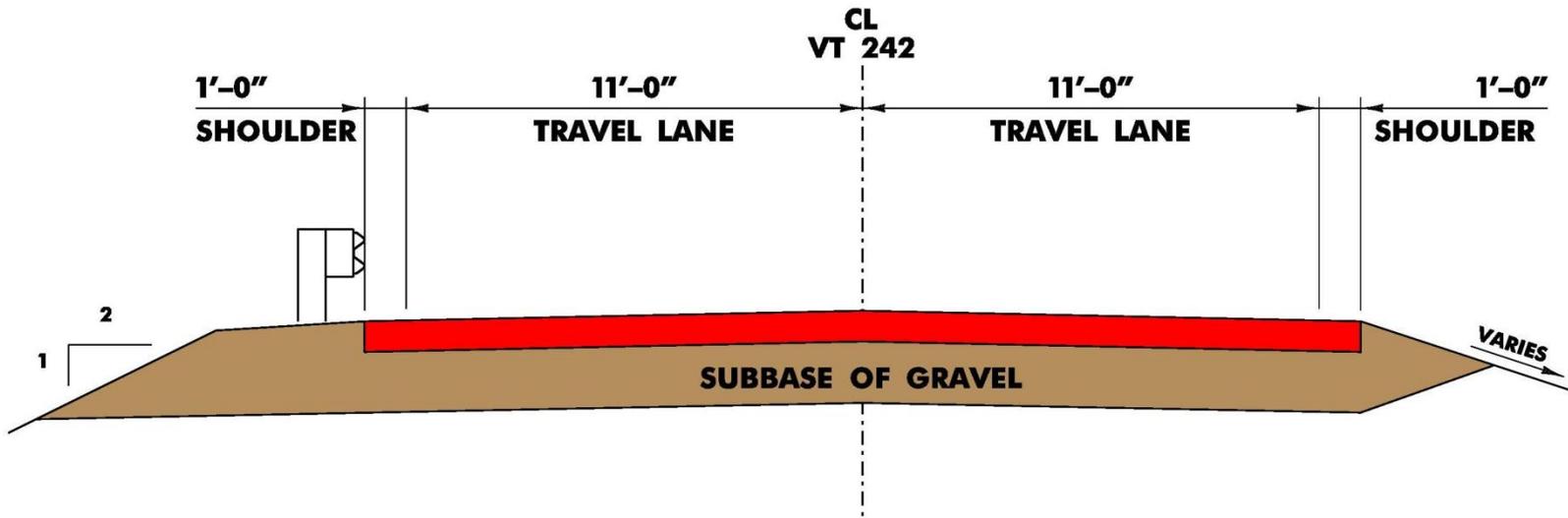
Underside of Deck



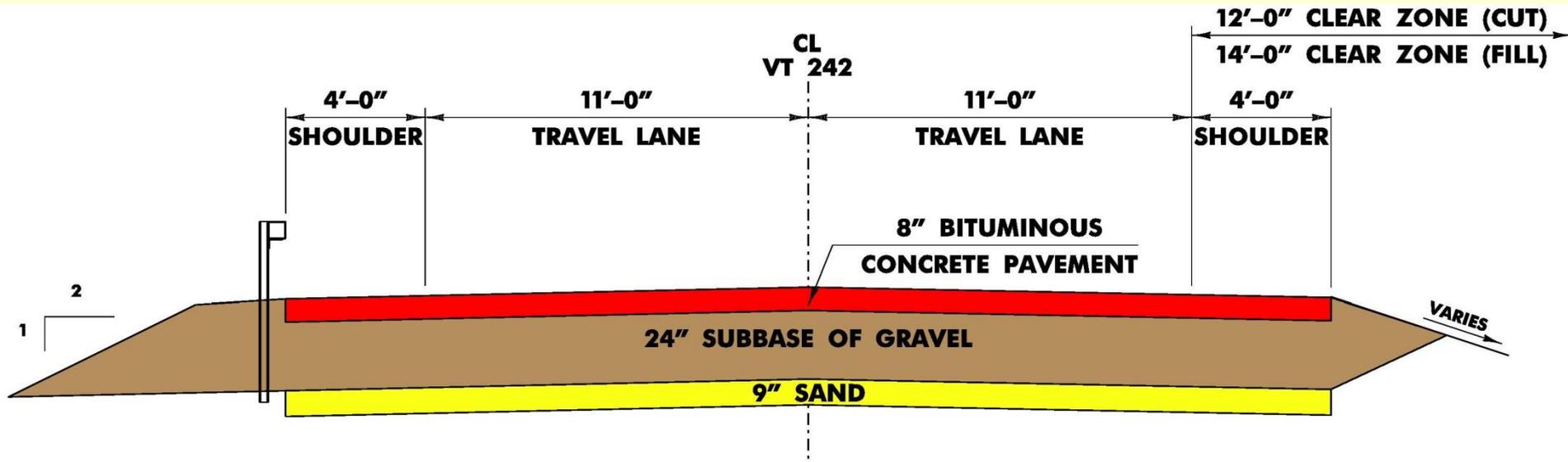
Proposed Project

- Complete bridge replacement warranted
- Use 11' lanes and 4' shoulders (30' rail-rail width)
- Use 44' single span bridge
- Maintain existing centerline of road
- Maintain vertical grade of road-

Proposed Roadway Typical



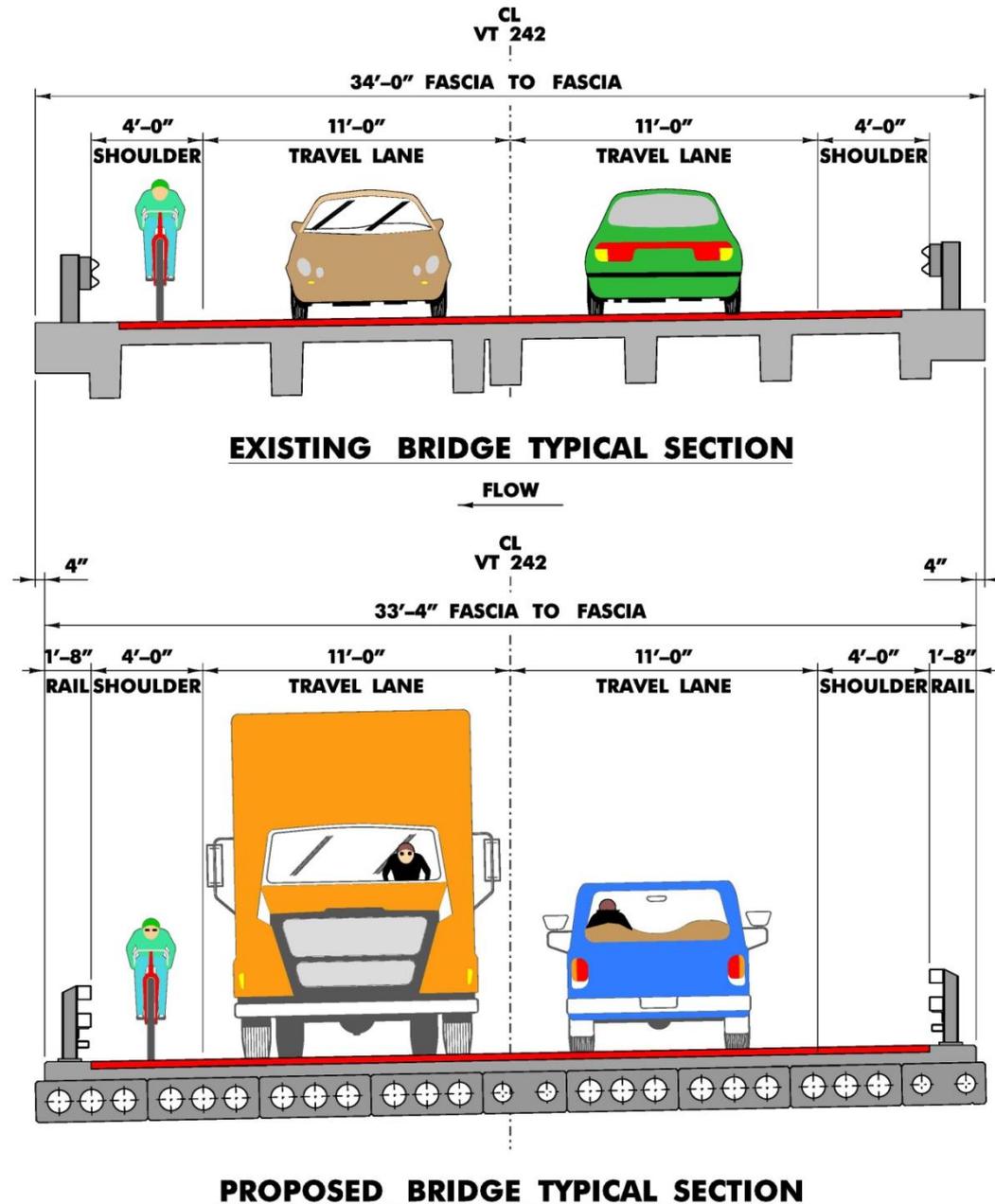
EXISTING VT 242 TYPICAL SECTION



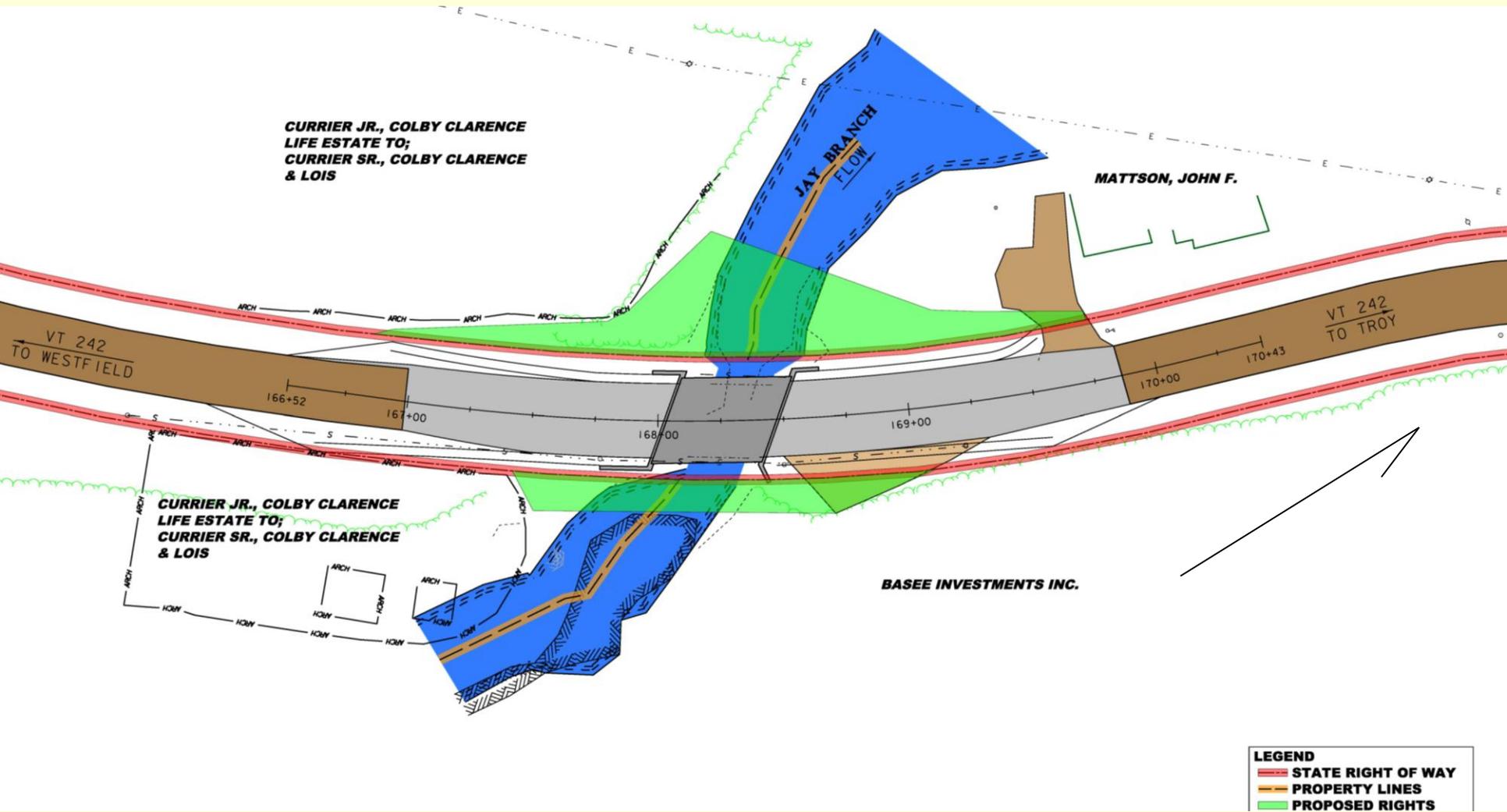
PROPOSED VT 242 TYPICAL SECTION

NTS

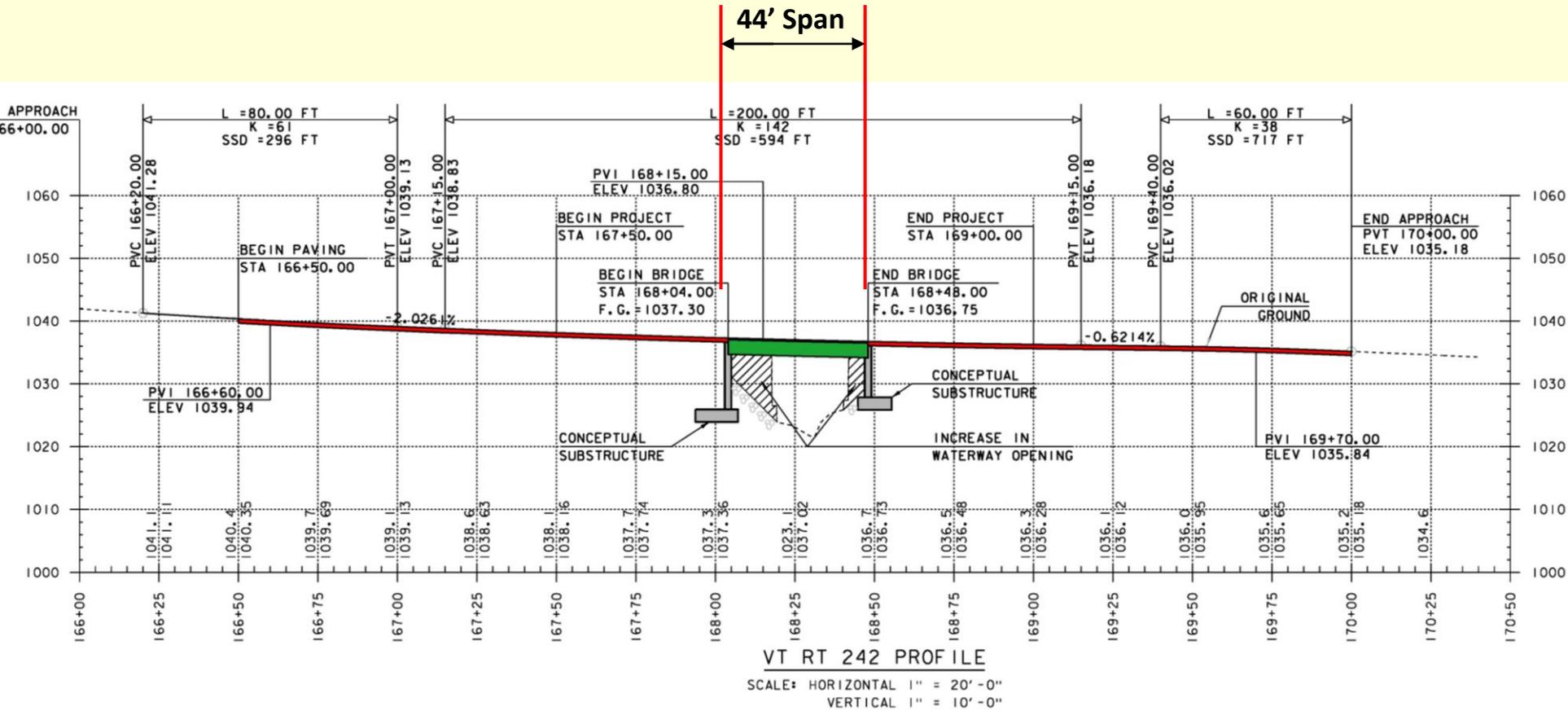
Proposed Bridge Typical



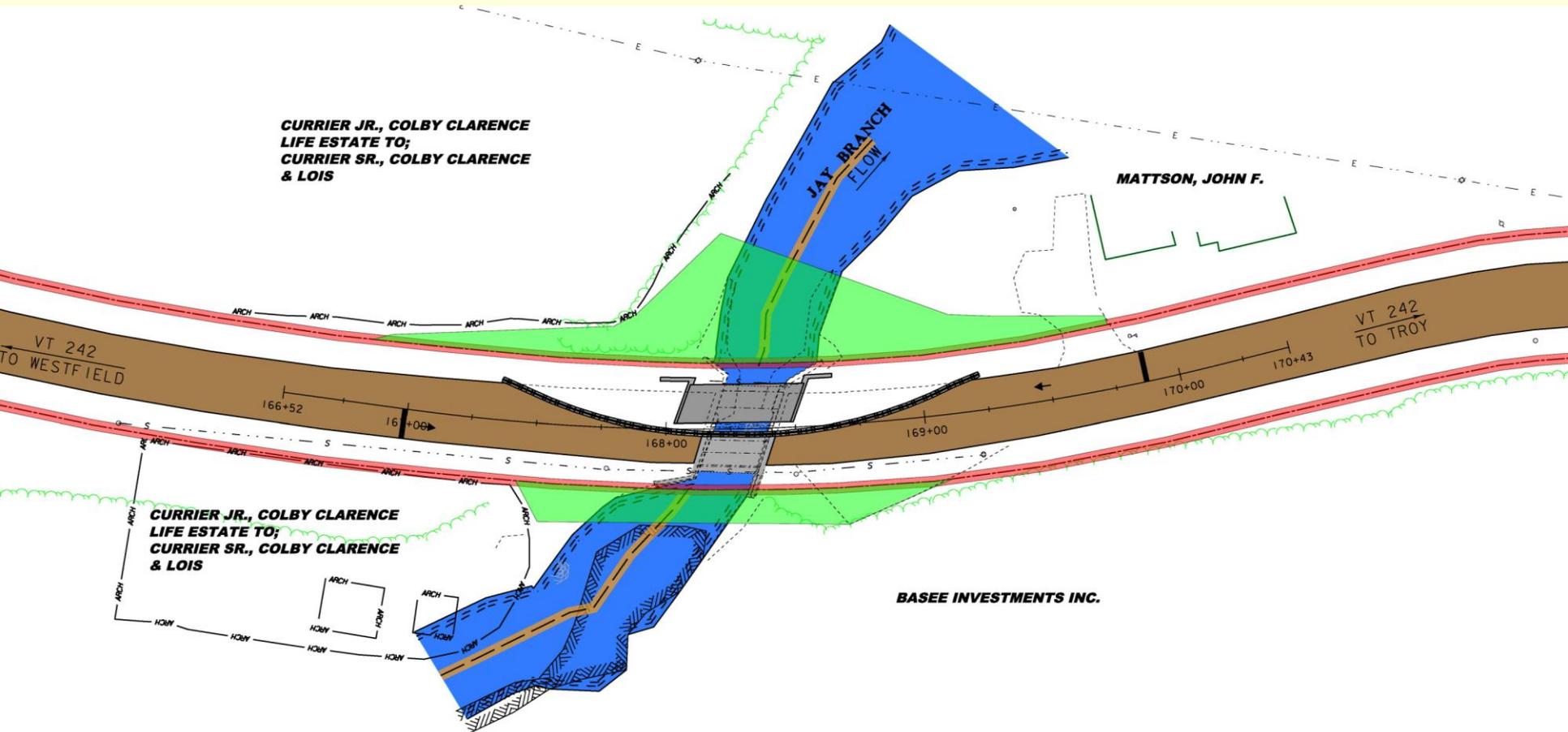
Layout of Proposed Bridge



Profile of Proposed Bridge



Maintenance of Traffic Phase 1

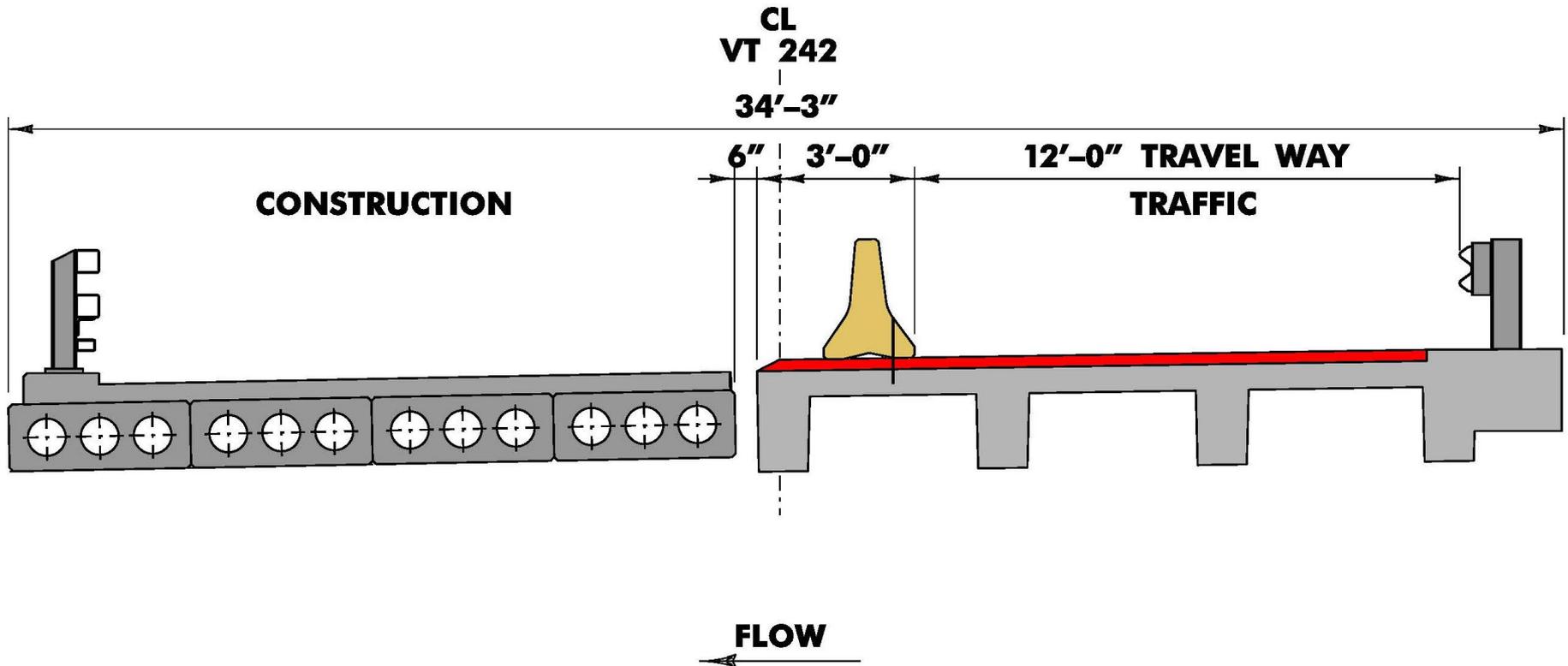


PHASE #1

PLAN VIEW

LEGEND	
	STATE RIGHT OF WAY
	PROPERTY LINES
	PROPOSED RIGHTS
	TEMPORARY TRAFFIC SIGNALS
	TRAFFIC BARRIER

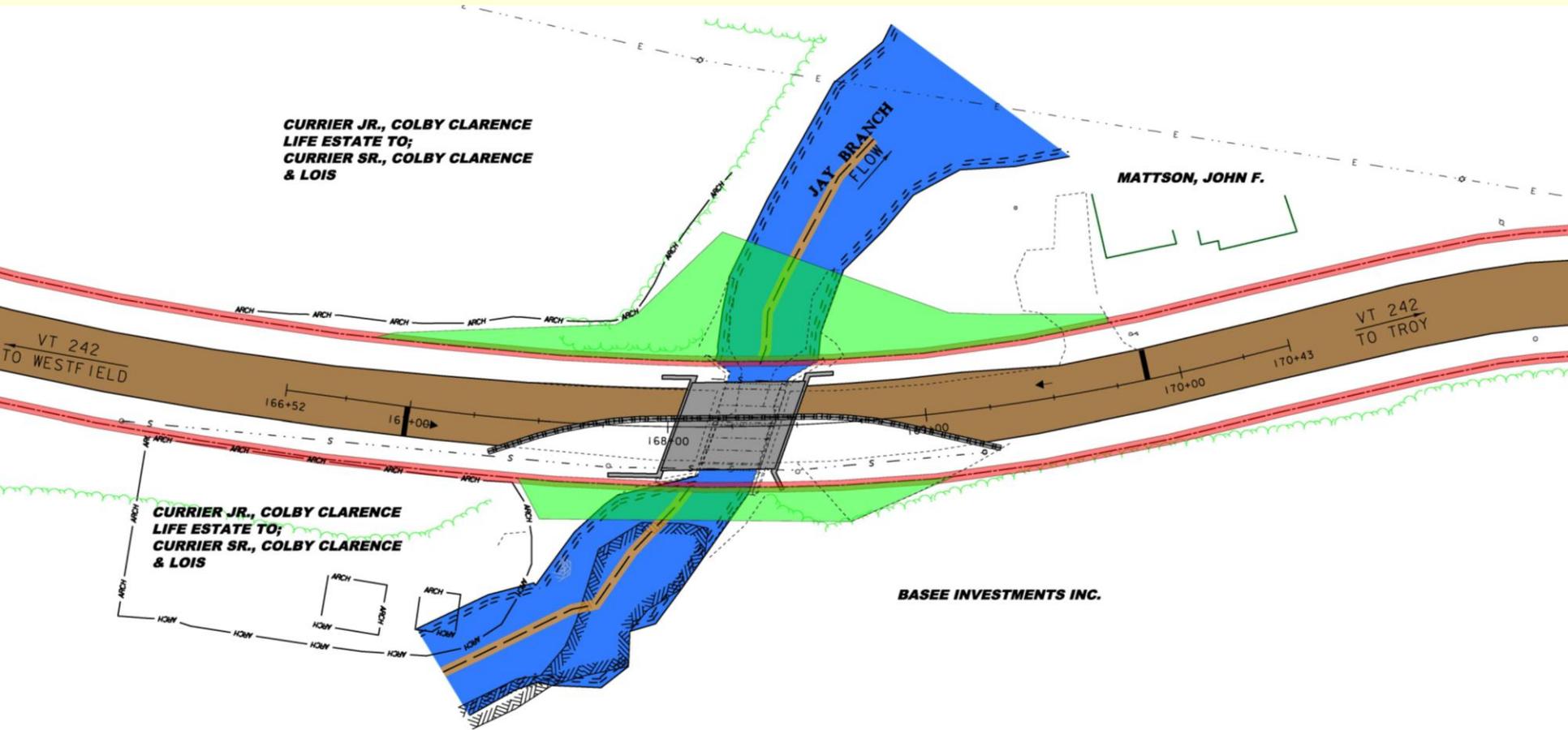
Maintenance of Traffic Phase 1 Typical Section



PHASE #1 TYPICAL SECTION

DIMENSIONS ARE RADIAL UNLESS NOTED

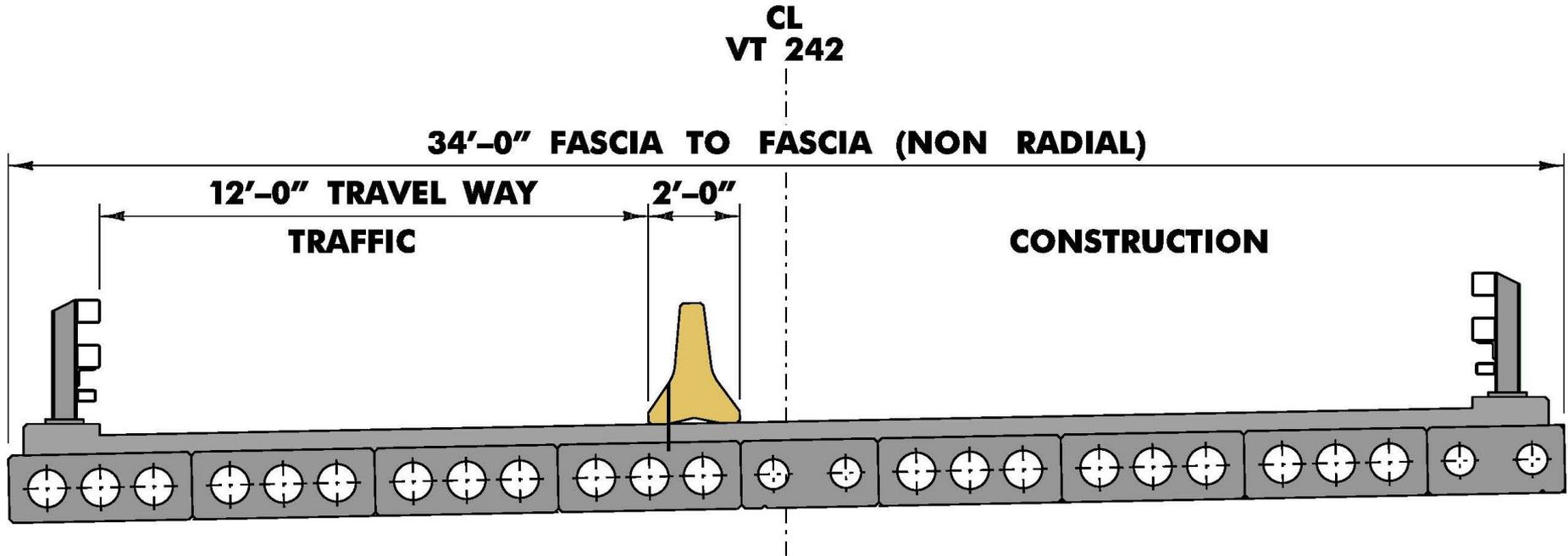
Maintenance of Traffic Phase 2



PHASE #2
PLAN VIEW

LEGEND	
	STATE RIGHT OF WAY
	PROPERTY LINES
	PROPOSED RIGHTS
	TEMPORARY TRAFFIC SIGNALS
	TRAFFIC BARRIER

Maintenance of Traffic Phase 2 Typical Section



PHASE #2 TYPICAL SECTION

DIMENSIONS ARE RADIAL UNLESS NOTED

Scope - Cost - Schedule

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

Preliminary Engineering	\$ 280,000
Right-of-Way	\$ 45,000
Construction w/ CE and Contingencies	\$ 875,000
Total	\$1,200,000

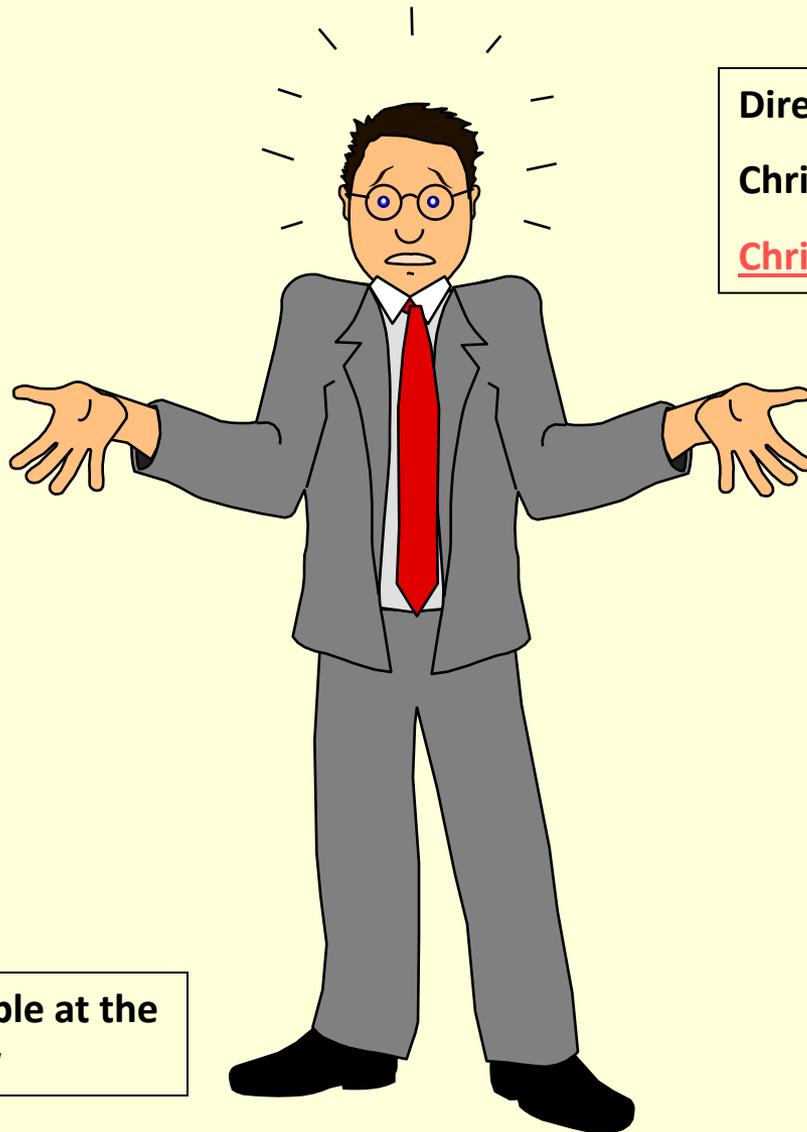
- Construction is currently scheduled for 2018
- Many factors can effect construction year
- Construction year is assuming Federal & State funding is available (project is funded 80% Fed – 20% State)

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 DEFINED - Milestone
- 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:

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This presentation is available at the
web address shown below

<https://outside.vermont.gov/agency/vtrans/external/Projects/Structures/12C154>