

Wells STP CULV(63) Regional Concerns Meeting

VT Route 30 – Bridge #83 over Unnamed Brook June 11, 2019



Introductions

JB McCarthy, P.E.

VTrans Design Project Manager

Laura Stone, P.E.

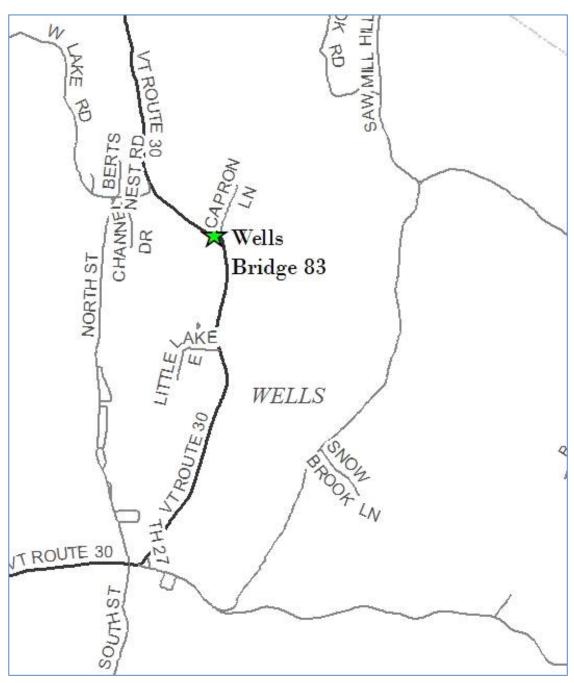
VTrans Scoping Engineer



Purpose of Meeting

- Provide an understanding of our approach to the project
- Provide an overview of existing conditions
- Discuss the proposed project and traffic control
- Provide an opportunity to ask questions and voice concerns



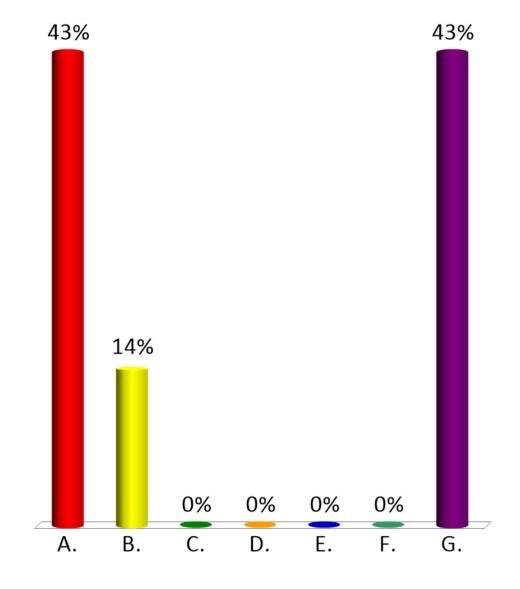


Location Map



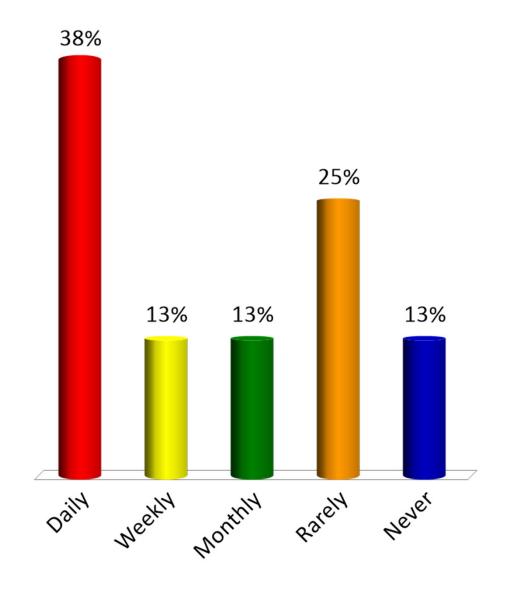
Who are you representing?

- A. Municipal Official
- B. Resident
- C. Emergency Services
- D. Local Business
- E. IndependentOrganization
- F. Press
- G. Other



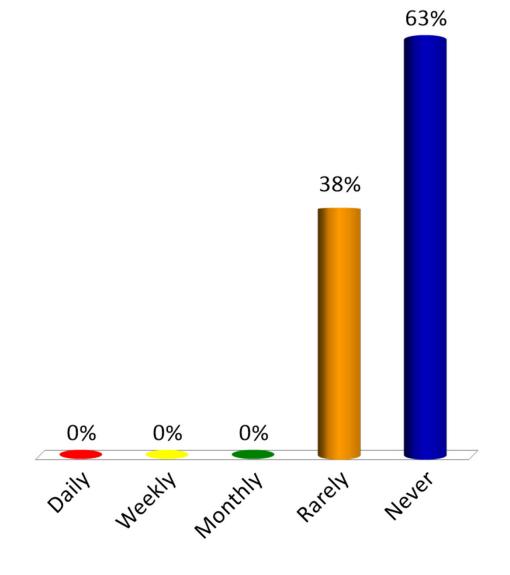
How often do you use this segment of VT Route 30?

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



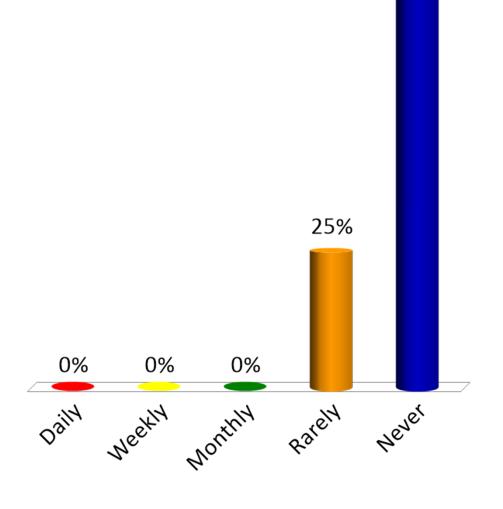
How often do you walk over the bridge?

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



How often do you bike over the bridge?

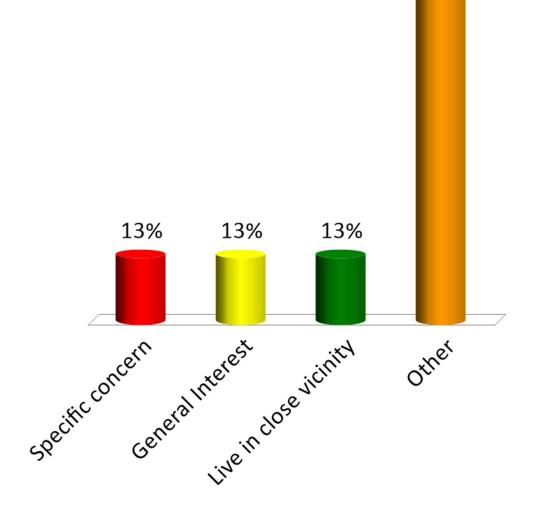
- A. Daily
- B. Weekly
- C. Monthly
- D. Rarely
- E. Never



75%

What is your reason for attending this meeting?

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



63%

Looking East (South on VT Route 30) over Bridge



Existing Conditions – Bridge #83

- Roadway Classification Minor Arterial
- Bridge Type 8' span, 48' long Corrugated Metal Plate Pipe Arch
- Ownership State of Vermont
- Constructed in 1977

Existing Conditions – Bridge #83

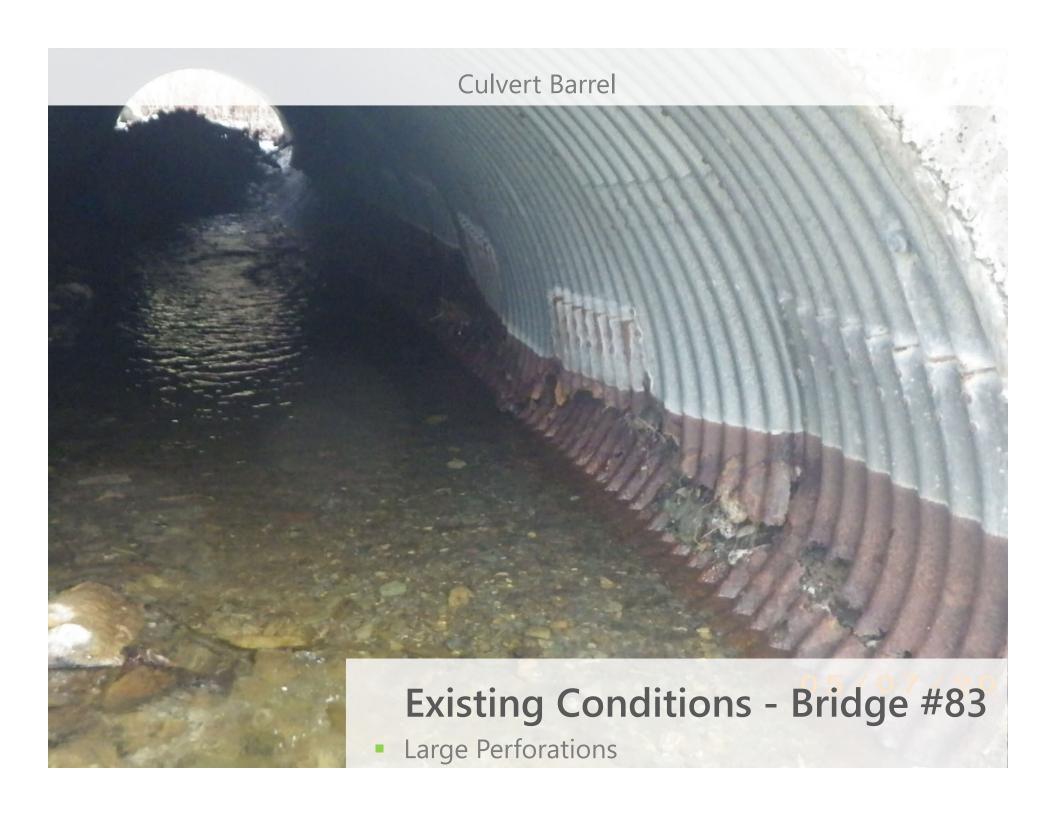
- The culvert is in critical condition
 - The culvert has failed with the invert torn through at inlet end and pushed upward
 - Outlet end has failed along the water line



Condition Ratings

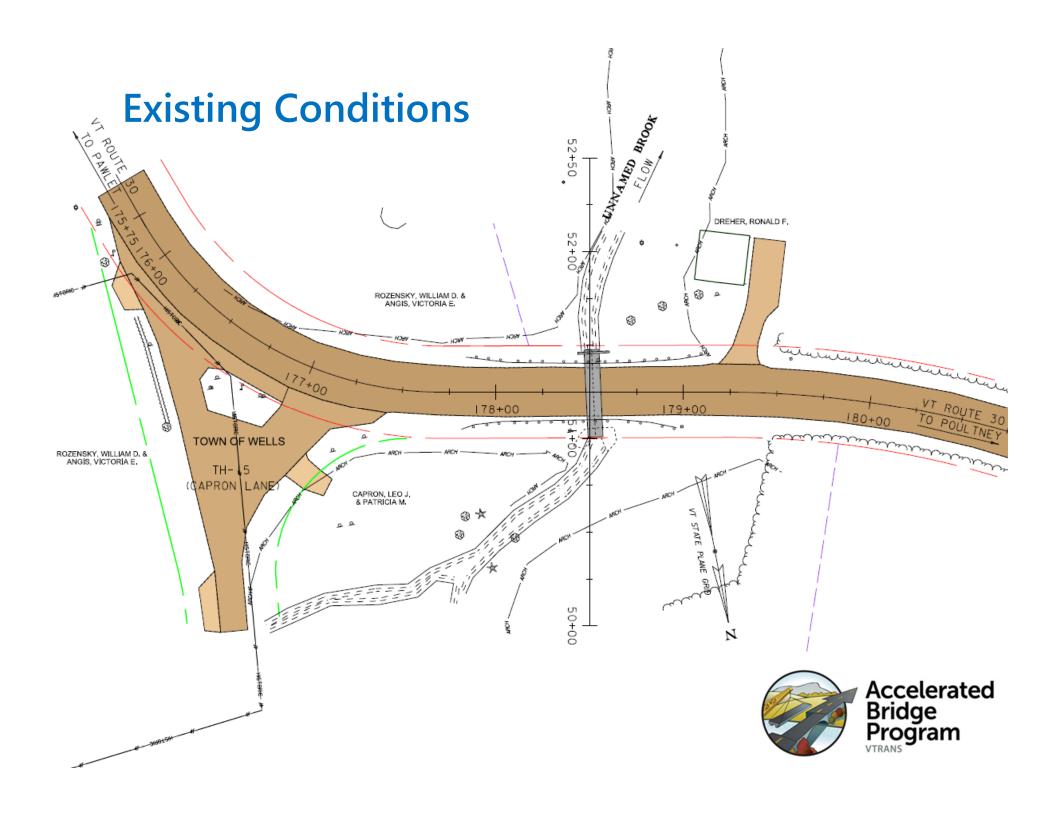






Resources – Looking Upstream





Design Criteria and Considerations

- Average Daily Traffic of 980 Vehicles per day
- Design Hourly Volume of 150 vehicles per hour
- % Trucks: 20.1
- Design Speed of 50 mph
 - Warned for 25 mph

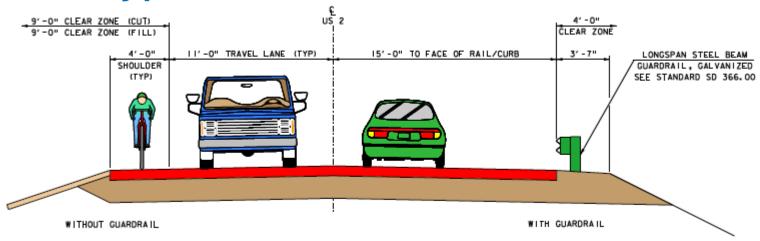


Proposed Project - Bridge #83

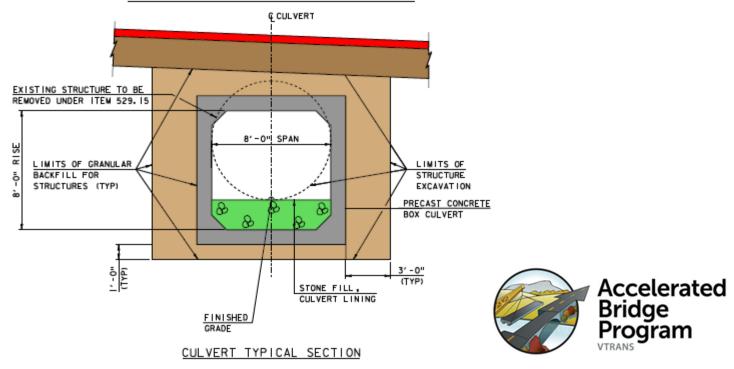
- Culvert Replacement with New Precast Box Culvert
 - 11'/4' typical
 - 75 year design life
 - Prefabricated 8-foot x 8-foot concrete box
 - Invert buried for natural stream bed

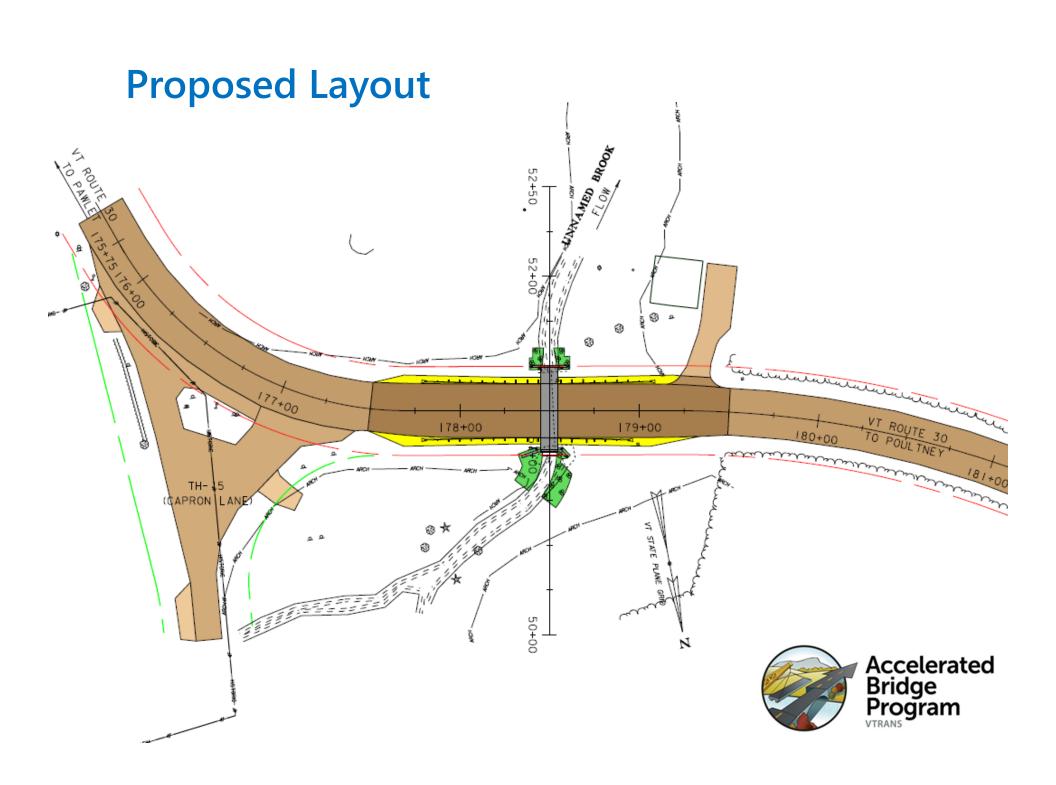


Proposed Typical Section

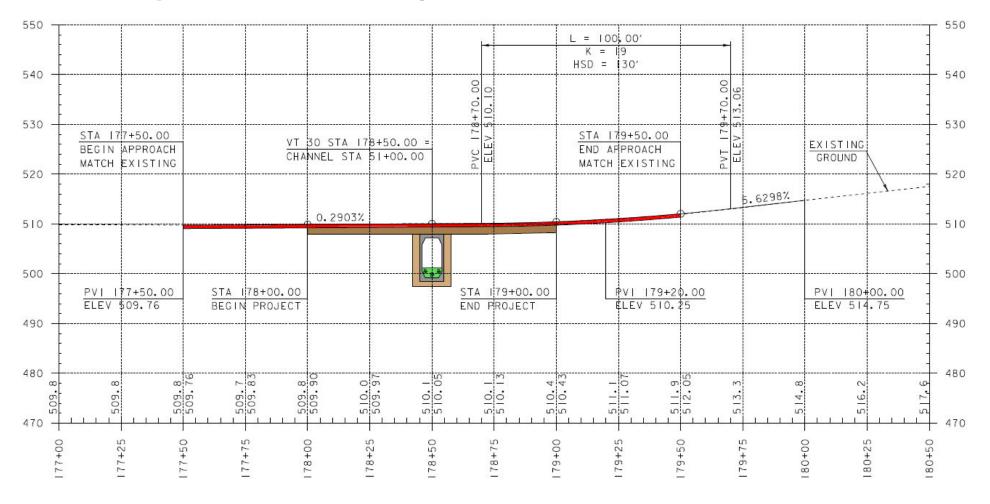


PROPOSED US ROUTE 2 TYPICAL SECTION





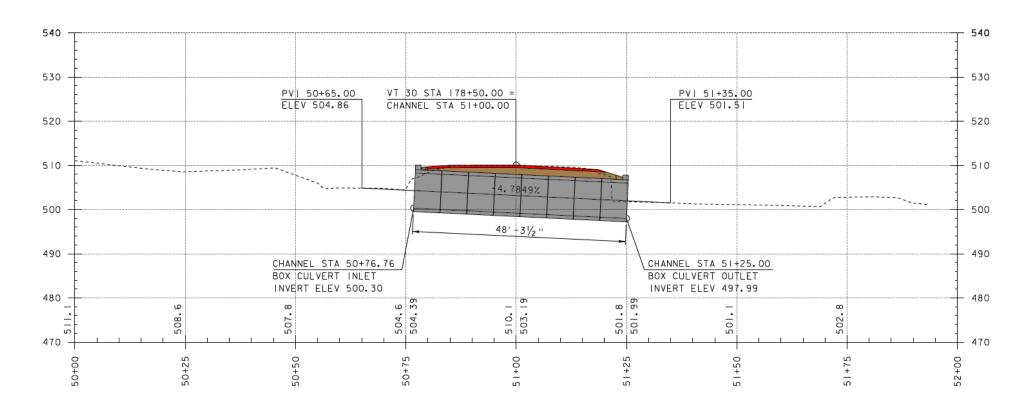
Proposed Roadway Profile



VT ROUTE 30 PROFILE



Proposed Channel Profile



VT ROUTE 30 BRIDGE 83 CHANNEL PROFILE



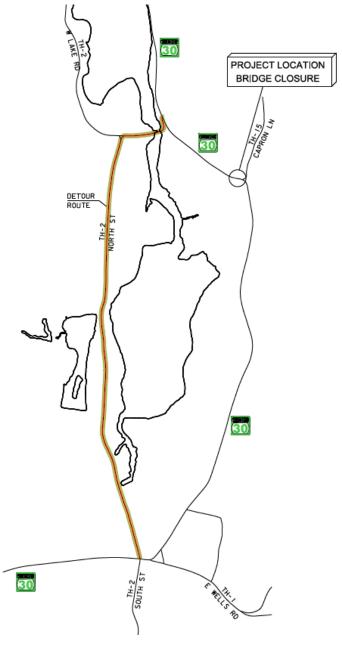
Maintenance of Traffic Options Considered

- Offsite Detour
- Temporary Bridge
 - Not recommended due to increased project development time
- Phased Construction
 - Not recommended due to condition of existing structure





Traffic Control – Offsite Detour



 VT Route 30, to North Street, and West Lake Road, Back to VT Route 30 (End-to-End distance of 4.6 miles)

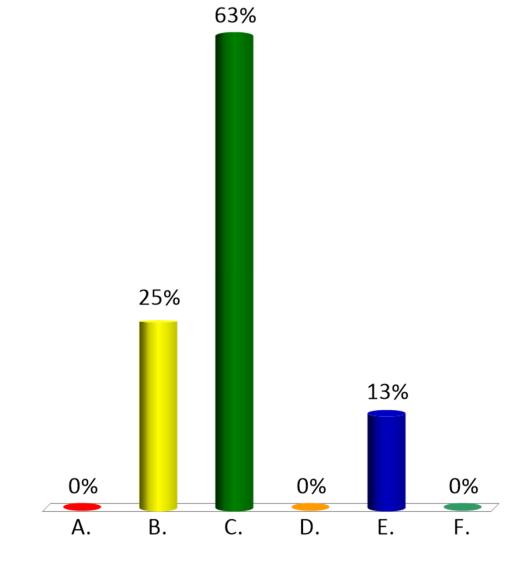
Preliminary Project Schedule

- Construction Start Fall of 2019
 - Total Cost Estimate: \$300,000



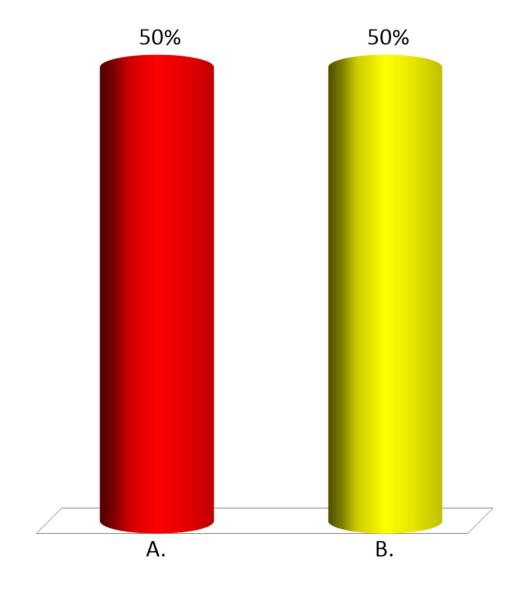
What would be the <u>maximum</u> acceptable length of closure for Bridge #83?

- A. 48 hours
- B. 60 hours
- C. 72 hours
- D. 5 days
- E. 1 week
- F. A closure is not acceptable



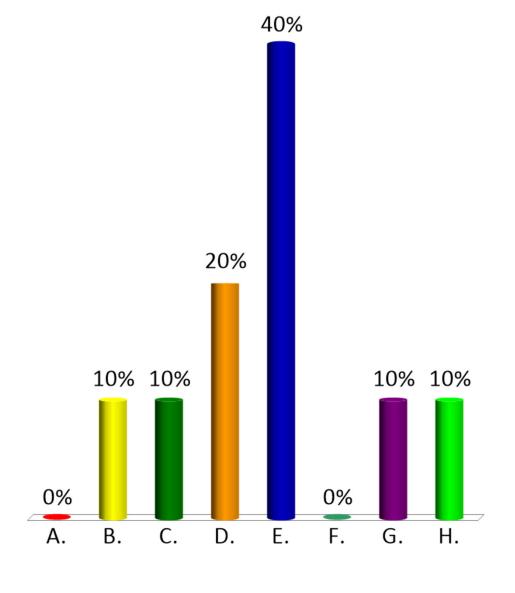
Would you prefer a closure during the work week or over a weekend?

- A. During the Week
- B. Weekend



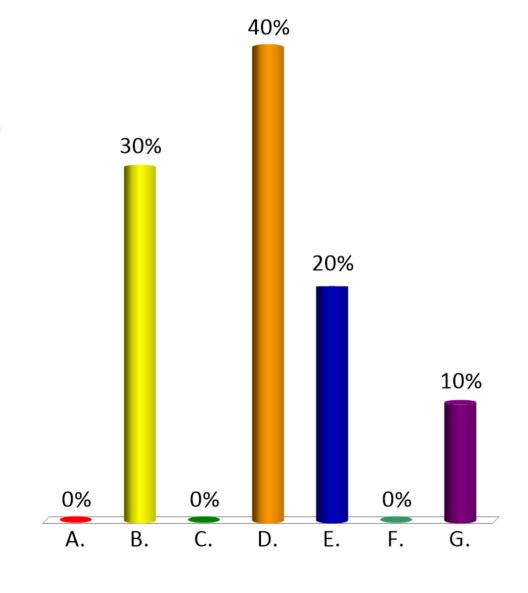
Which Weekends would be acceptable for Bridge #83 to be closed? (More than one answer allowed)

- A. September 7th and 8th
- B. September 14th and 15th
- C. September 21st and 22nd
- D. September 28th and 29th
- E. October 5th and 6th
- F. October 12th and 13th
- G. October 19th and 20th
- H. October 26th and 27th



Which Week would be acceptable for Bridge #83 to be closed? (More than one answer allowed)

- A. September 9th and 13th
- B. September 16th and 20th
- C. September 23st and 27th
- D. September 30th and October 4th
- E. October 7th and 11th
- F. October 14th and 18th
- G. October 21st and 25th



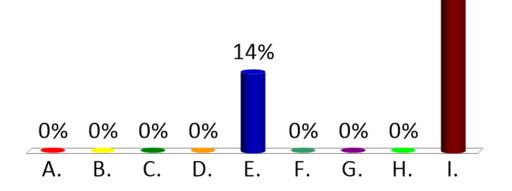
Project Summary

- Culvert Replacement with New Precast Box Culvert with Traffic Maintained on an Offsite Detour
 - 60-hour road closure utilizing Town-owned roads for the official Signed Detour
 - 11'/4' typical
 - 75 year design life
 - Prefabricated 8-foot x 8-foot concrete box
 - Invert buried for natural stream bed



Which would you be most concerned about?

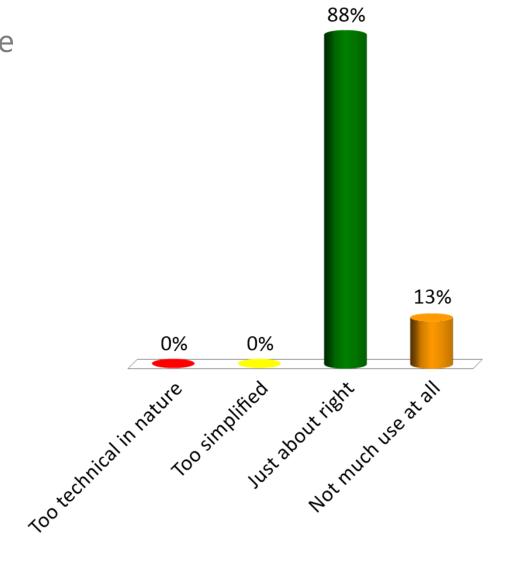
- A. Construction delays on VT Route 30
- B. Detour Distance
- C. Duration of Detour
- D. Bridge Aesthetics
- E. Environmental Impacts
- F. Recreational Impacts
- G. Business Impacts
- H. Other
- I. Not really concerned



86%

Did you find this presentation to be?

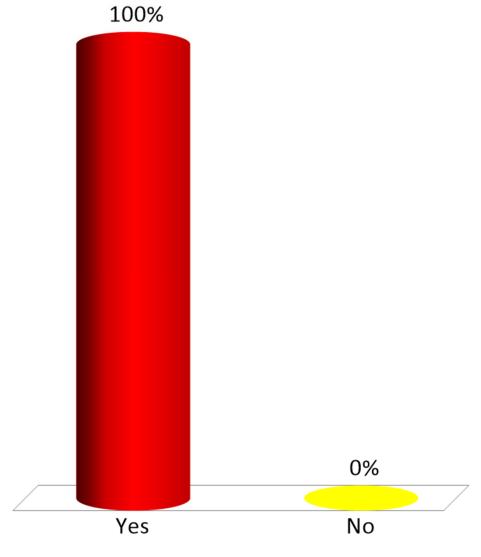
- A. Too technical in nature
- B. Too simplified
- C. Just about right
- D. Not much use at all



Do you find the selected scope of work satisfactory?

A. Yes

B. No





Wells STP CULV(63) Questions and Comments

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