

WE12 - Worcester Elmore VT Route 12 Public Informational Meeting

VT Route 12 – Elmore Bridges #90 & 94

February 9, 2022



Introductions

Laura Stone, P.E.

VTrans Consultant Project Manager



Purpose of Meeting

- Provide an understanding of our approach to the project
- Identify current efforts and anticipated schedule
- Provide an opportunity to ask questions and voice concerns



VTrans Project Development Process

Project Project Contract
Funded Defined Award

Project Project Design Construction
Definition

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

Quantify areas of impact

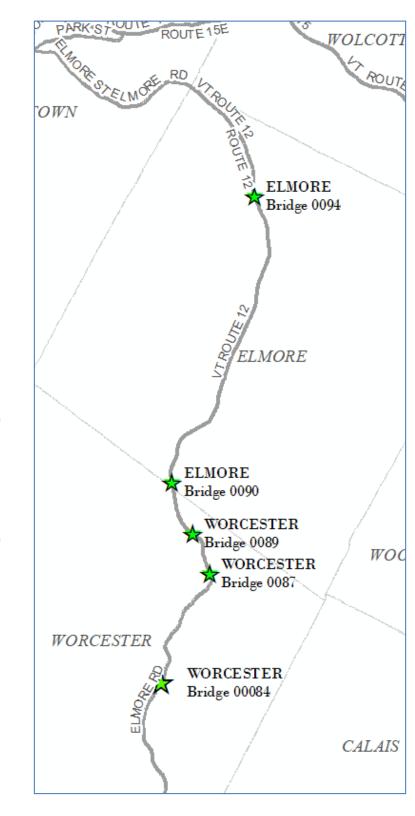
Current

- Environmental permits
- Develop plans, estimate and specifications
- Right-of-Way process



Location Map

- ELMORE BF 0241(55) 19B212, VT Route 12, Bridge 94 over unnamed brook.
- ELMORE STP CULV(64) 18B003, VT Route
 12, Bridge 90 over unnamed brook.
- WORCESTER BF 0241(56) 19B213, VT Route
 12, Bridge 87 over Hardwood brook.
- WORCESTER BF 0241(57) 19B214, VT Route
 12, Bridge 89 over North brook.
- WORCESTER BF 0241(59) 86E053, VT Route
 12, Bridge 84 over the north branch of
 Winooski river





Elmore STP CULV(64)

VT Route 12– Bridge #90 over Unnamed Brook



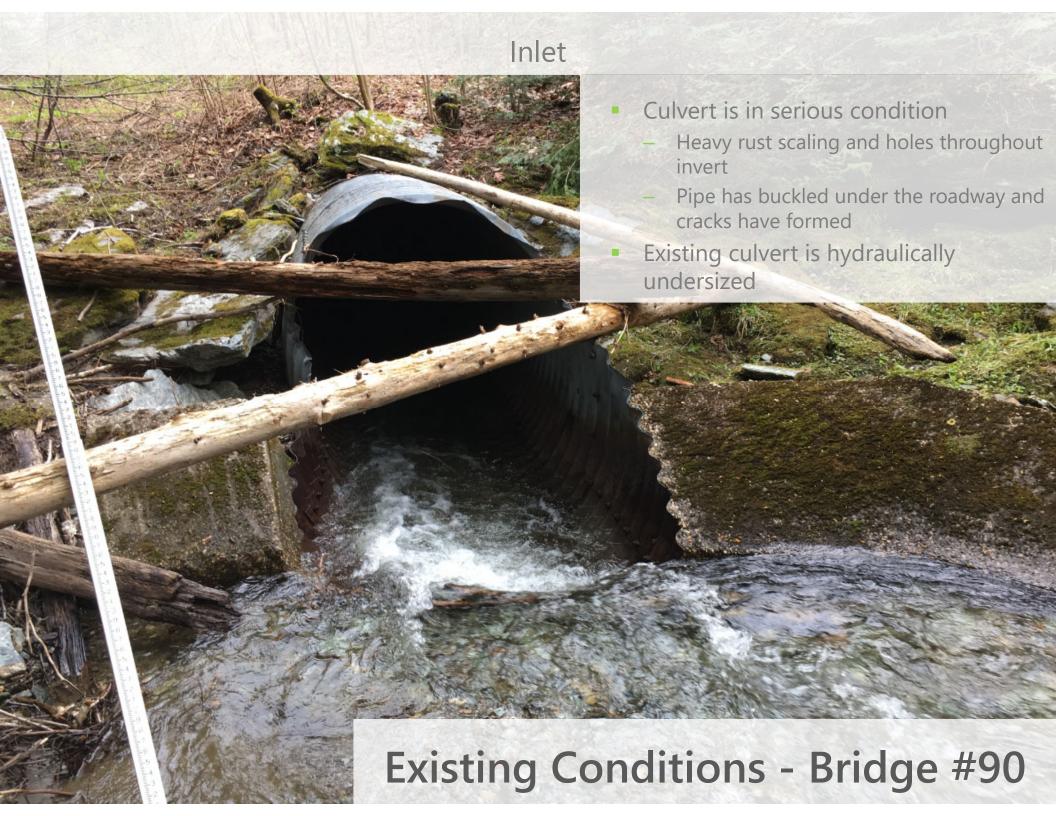


Looking North over Bridge 90

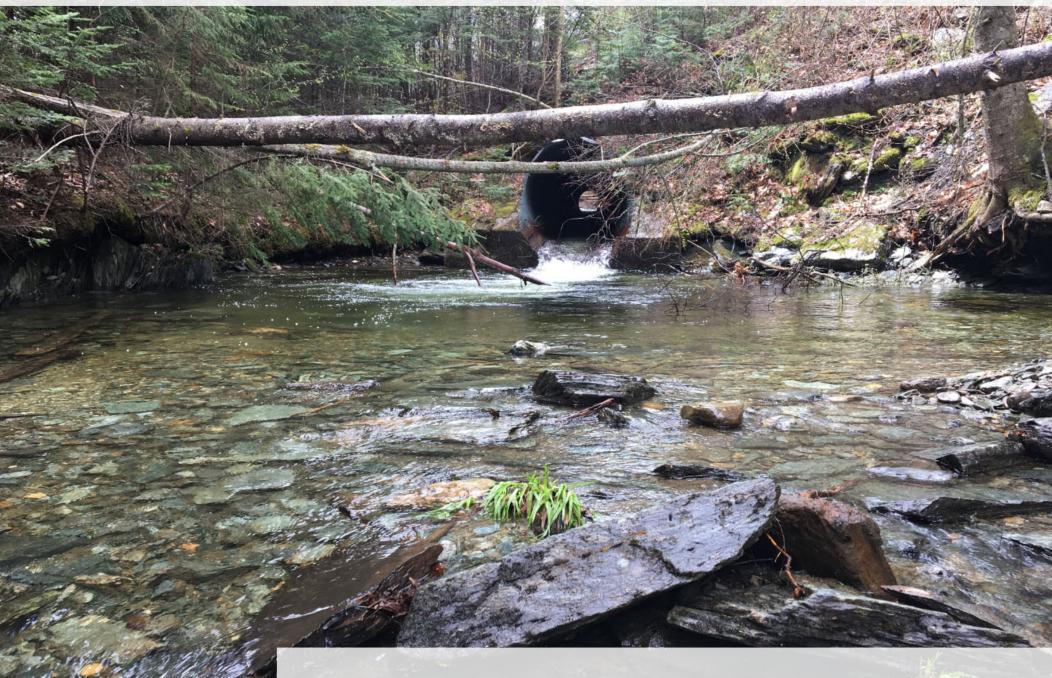


Existing Conditions – Bridge #90

- Roadway Classification Major Collector
- Bridge Type 6' Span CGMPP (Corrugated Galvanized Metal Plate Pipe)
- Culvert Length 208 feet
- Fill Over Culvert 18 feet
- Ownership State of Vermont
- Constructed in 1964

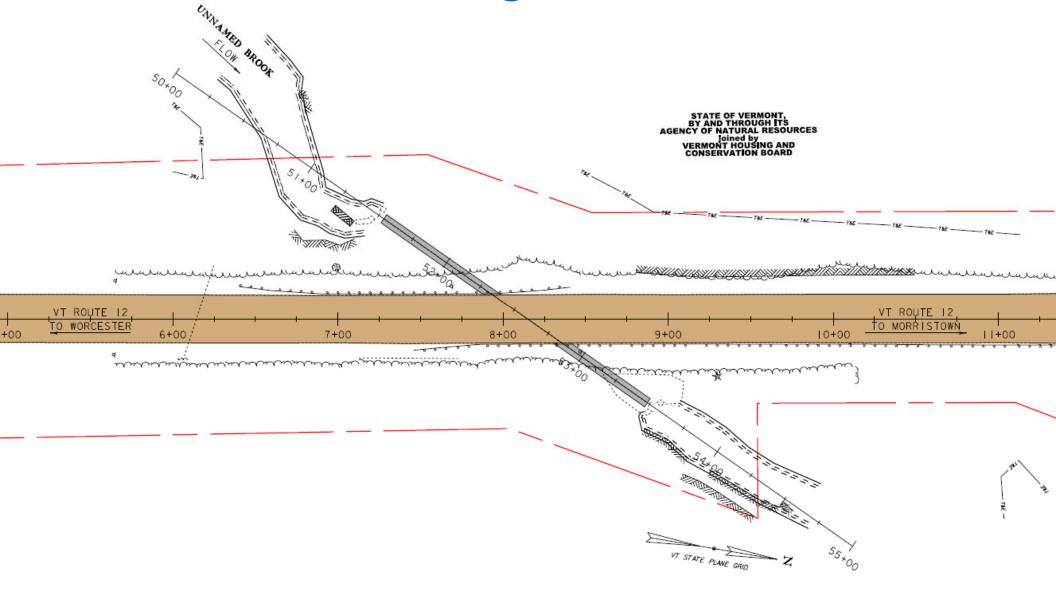


Outlet



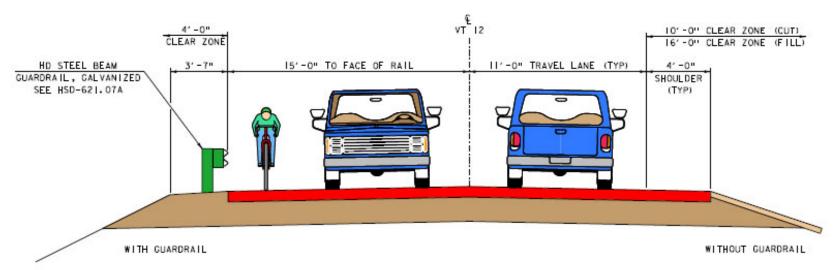
Existing Conditions - Bridge #90

Existing Conditions

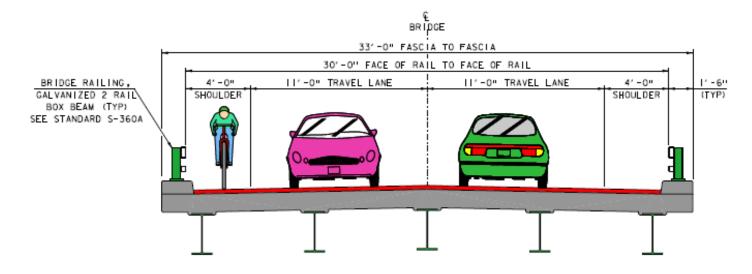




Proposed Typical Section



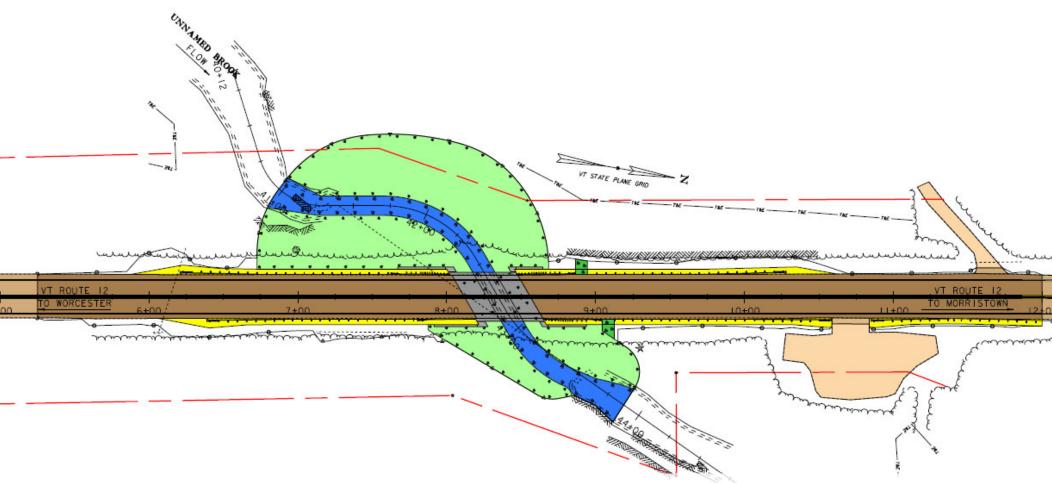
PROPOSED VT ROUTE 12 TYPICAL SECTION



FLOW_ BRIDGE 90 PROPOSED TYPICAL SECTION **SL1** Stone, Laura, 2/4/2021

Proposed Layout





Full Bridge Replacement - Bridge #90

- 11'/4' typical, 75-year design life
- 45' Span
- Stream to be re-established back to natural state

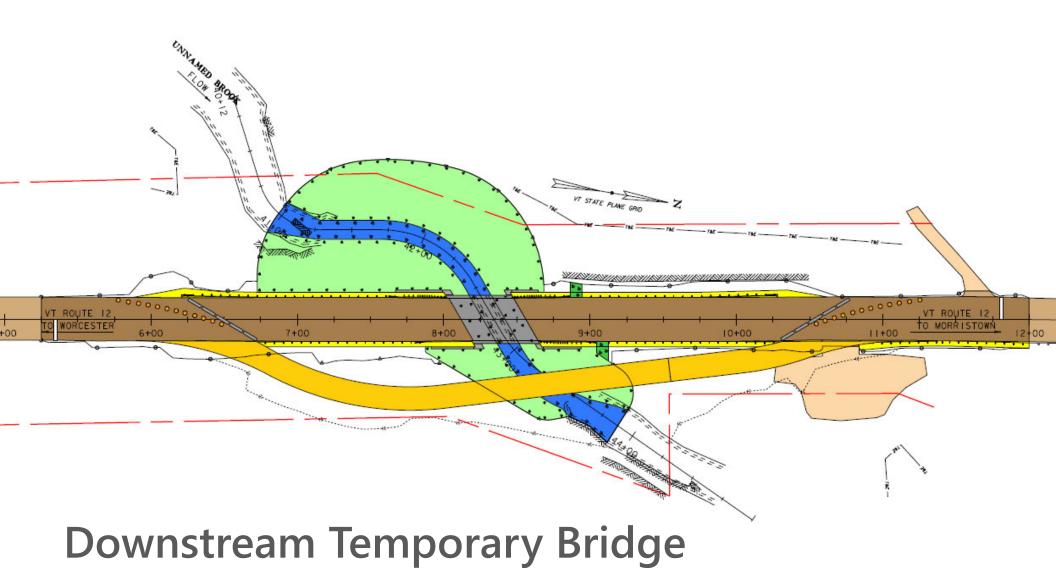
Proposed Bridge - Bridge #90

- Culvert Replacement with a New Bridge and One Lane Alternating Traffic Maintained on a Temporary Bridge
 - 45' span
 - 11'/4' typical to match existing conditions
 - Exceeds the 11'/3' standard typical section
 - 75-year design life
 - Right of Way needed for temporary bridge and slope limits





Downstream Temporary Bridge Layout



- Limits outside the Right-of-Way
- Temporary impacts to North Cascades parking lot

Preliminary Project Schedule

- Construction Start Summer 2024
 - Total Cost Estimate: \$2,700,000





Elmore STP CULV(64) Questions and Comments

VT Route 12– Bridge #90 over Unnamed Brook





Elmore BF 0241(55)

VT Route 12- Bridge #94 over Unnamed Brook





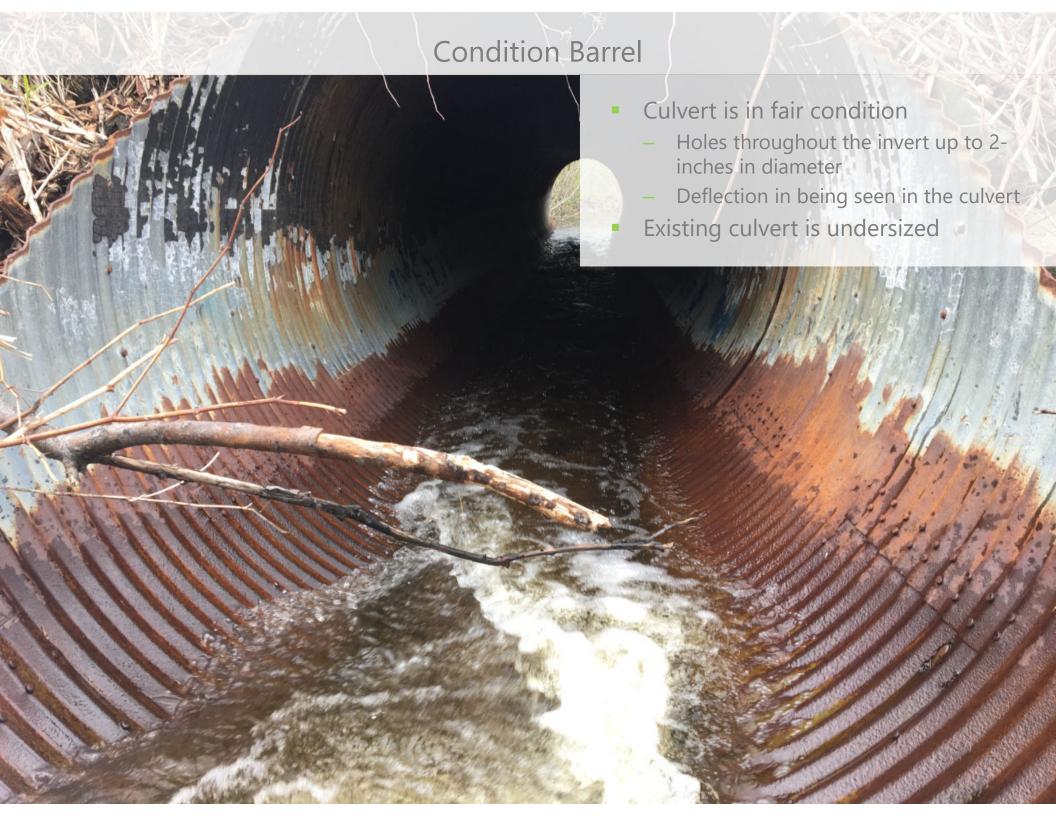
Looking North over Bridge 94



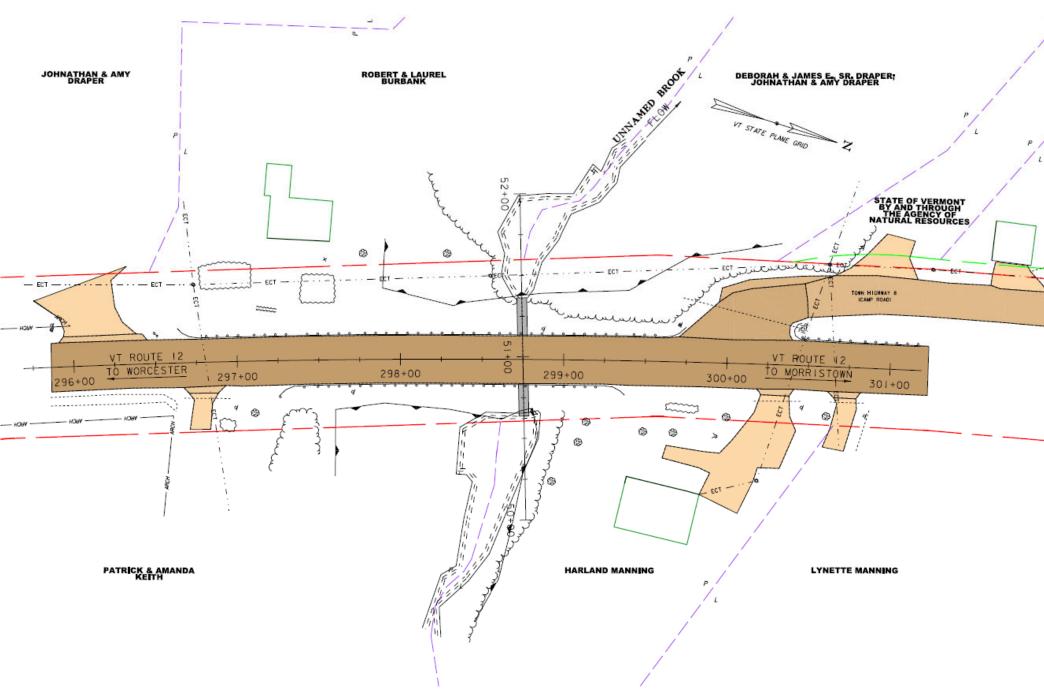
Existing Conditions – Bridge #94

- Roadway Classification Major Collector
- Bridge Type 6' Span ACCGMPP (Aluminum Coated Corrugated Galvanized Metal Plate Pipe)
- Culvert Length 74 feet
- Fill Over Culvert 10 feet
- Ownership State of Vermont
- Constructed in 1959

Looking South over Bridge 94 Existing Conditions – Bridge #94 **Aerial Utilities**

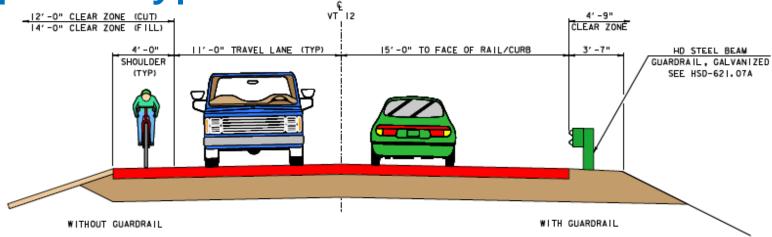


Existing Conditions

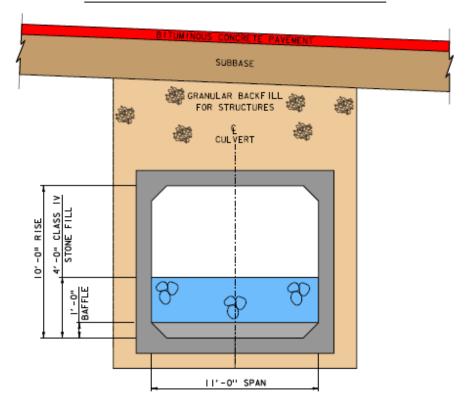




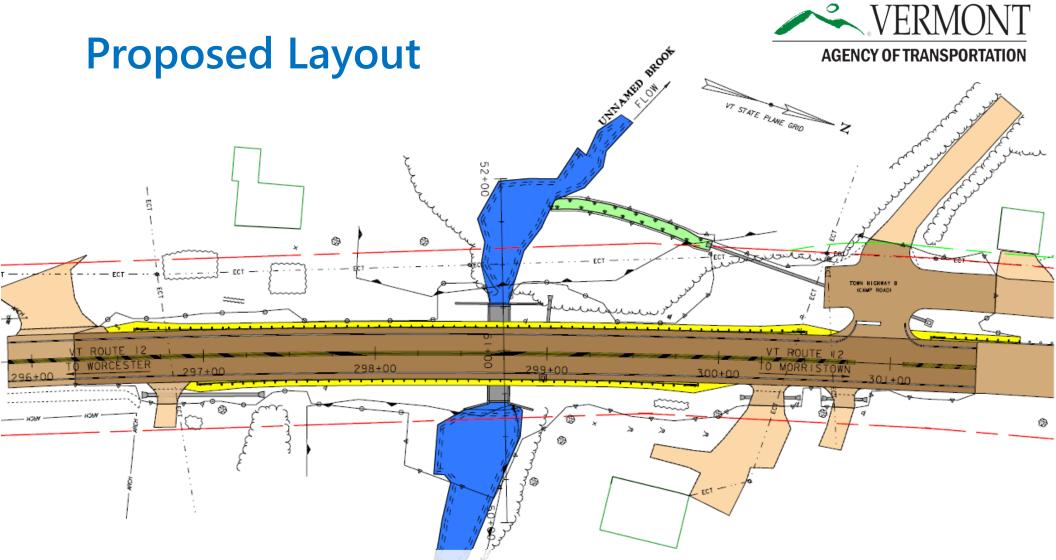
Proposed Typical Section



PROPOSED VT ROUTE 12 TYPICAL SECTION



CULVERT 90 TYPICAL SECTION



New Buried Structure, Frame or Box - Bridge #94

- 11'/4' typical, 75-year design life
- 11' x 6' waterway opening
- 75' Culvert Length

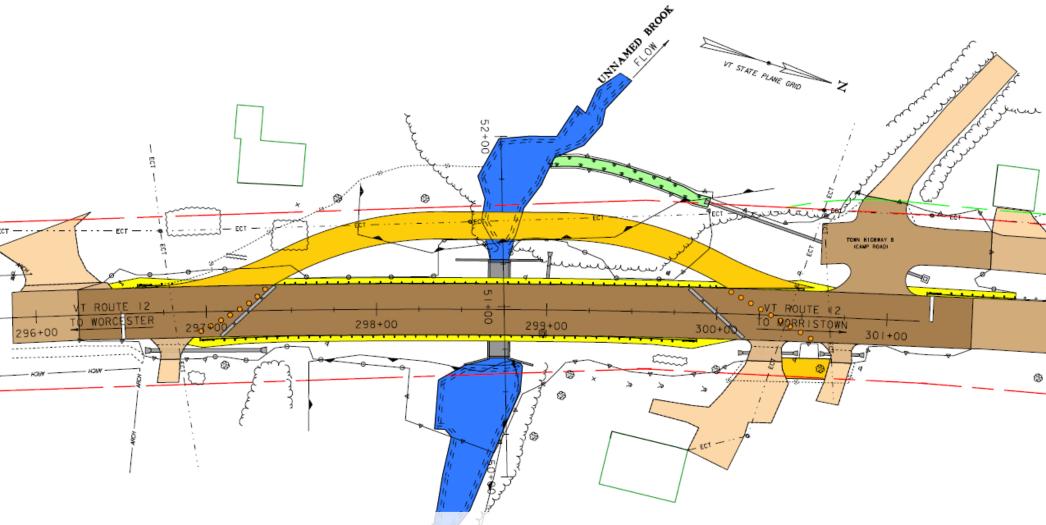
Proposed Bridge - Bridge #94

- Culvert Replacement with a New Buried Structure
 - Precast Concrete Box
 - Borings have confirmed
 - 11' x 10' box with Type E4 Stone
 - 11' x 6' waterway opening
 - 75' Culvert Length
 - 11'/4' typical to match existing conditions
 - Exceeds the 11'/3' standard typical section
 - 75-year design life





Downstream Temporary Bridge Layout



Downstream Temporary Bridge

- Aerial utility relocation to happen prior to construction
- Camp Road intersection impacts
- Wetland area impacted

Preliminary Project Schedule

- Construction Start Summer 2024
 - Total Cost Estimate: \$1,720,000



For more information:

https://outside.vermont.gov/agency/vtrans/external/Projects/Structures/19B212



Elmore BF 0241(55)
Questions and Comments

VT Route 12- Bridge #94 over Unnamed Brook





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