

Public Information Meeting Vermont Route 100B Bridge 2 Replacement Moretown, VT







Presented By:

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Public Information Consultant– McFarland Johnson





Agenda

- Introductions
- Existing Bridge Condition
- Proposed Replacement Structure
- Remaining Project Schedule
- Proposed Detour Route
- Questions and Comments





Bridge Site – Existing



Existing Bridge

- Originally constructed in 1928
- Bridge is structurally deficient
- Less than desirable roadway width
- Bridge Rating
 - Bridge Deck: 5 (Fair)
 - Bridge Superstructure: 5 (Fair)
 - Bridge Substructure: 5 (Fair)
 - Overall Sufficiency Rating: 63.6 (out of 100)





Existing Bridge Deficiencies

Substandard Lane and Shoulder widths Existing: 10'/ 0' ~ Minimum: 11'/ 4'





Existing Bridge Deficiencies

Heavy spalling in curbs, fascia's, bridge railing, and T-Beams





Existing Bridge Deficiencies

Substructure Concrete Cracking, Spalling, and Loosing Connection with Ledge



Existing Site Deficiencies

Blocks used to Retain Roadway Approach Fill Could Wash out in High Water



Proposed Bridge

- Concrete Deck on Steel Girders
- Spread Footings on Ledge
- Longer Span (92' from 59')
- Increase Bridge Width, Lane and Shoulders
- Safer Alignment
- Construct Retaining Wall





Proposed Bridge Typical Section







Proposed Bridge







Proposed Bridge Alignment Change

Red = Existing Yellow = Proposed Increase radius of Approach Curves to Increase Safety





Proposed Bridge Retaining Wall





Methods of Construction

Combination of Accelerated Bridge Construction and Conventional Construction.

Overall Goals:

- Implement Accelerated and Conventional Components Efficiently
- Maximum Construction Duration of 60 days to Avoid Bus Detour
- Accelerated Elements (where feasible)
 - Precast Footings, Deck Panels, and Approach Slab Elements
 - Rapid Setting Concrete
- Conventional Components (due to site complexity)
 - Cast-in-place subfooting to ensure connection to bedrock
 - Cast-in-place deck over pour for smooth, safe ride





Accelerated Component

Precast Approach Slabs Joints filled with **Rapid Set Concrete**



Accelerated Component

Precast Deck Panels



Accelerated Bridge Program



Accelerated Component

Precast Deck Panel Layout







Accelerated/ Conventional Component

Deck Over Pour





Conventional Component





Final Bridge Will Look Similar To:





Project Schedule



Special Schedule Details:

Program



Detour

<u>Summary</u>

A to B current: 7.9 Miles A to B detour: 11.5 Miles Added: 3.6 miles End to End 19.4 miles







Traffic Control Plan





Public Outreach

Public Information Consultant - Jennifer Zorn

To Sign up for emails with project updates – send an email to jzorn@mjinc.com

<u>Jennifer's Contact information</u> Direct Phone #: (603) 931-3943 Email: jzorn@mjinc.com





Questions and Comments?

