



ANNA HUNT MARSH BRIDGE (041/040) CHARLES DANA BRIDGE (042/044)

SWRPC PUBLIC FORUM

EXISTING NH ROUTE 119 OVER THE CONNECTICUT RIVER BRIDGE REHABILITATION HINSDALE, NH – BRATTLEBORO, VT NHDOT PROJECT NO. 12210D

DECEMBER 2, 2020



Hinsdale, NH – Brattleboro, VT



PRESENTATION OUTLINE

- Location Map
- Existing Bridge Information
- Inspection Findings
- Rehabilitation Recommendations
- Cultural & Natural Resources
- Abutters & Right-of-Way
- Your Input is Needed
- Next Steps
- Anticipated Schedule
- Questions





LOCATION MAP

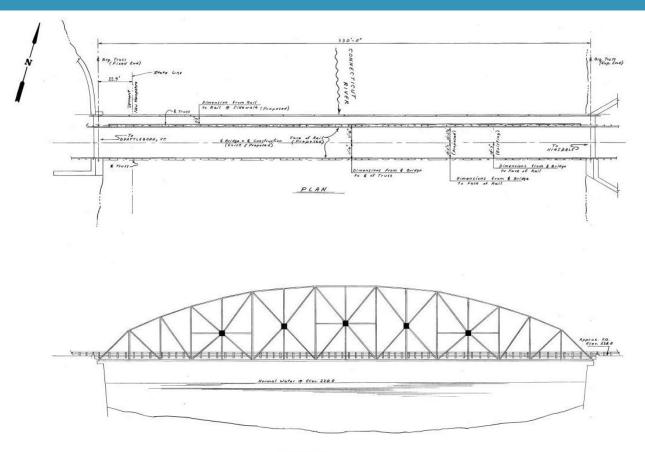




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ANNA HUNT MARSH BRIDGE (BR. NO. 041/040) PLAN AND ELEVATION VIEW



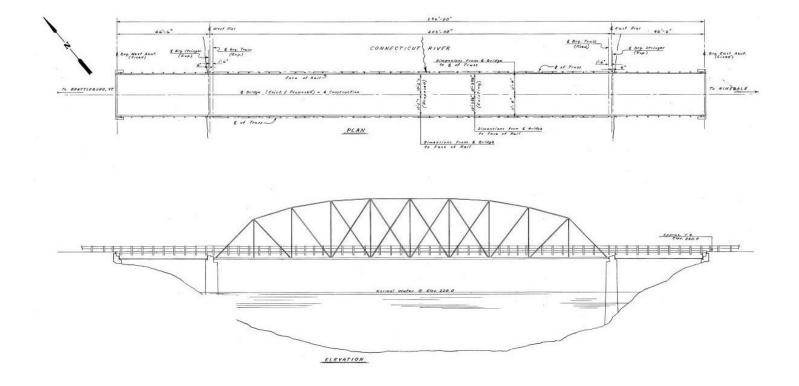




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CHARLES DANA BRIDGE (BR. NO. 042/044) PLAN AND ELEVATION VIEW





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EXISTING BRIDGE INFORMATION

- Anna Hunt Marsh Bridge Constructed in 1920, Rehabilitated in 1988 & 1998
- Charles Dana Bridge Constructed in 1927, Rehabilitated in 1988 & 1998
- Bridge Decks Replaced 2004
- Bridge Type:
 - 2 Main River Spans: Camelback Through Steel Trusses
 - Charles Dana Bridge Approach Spans: Rolled Beam Stringers





EXISTING BRIDGE INFORMATION

- Substructures:
 - Anna Hunt Marsh Bridge: Granite Masonry (VT) & Reinforced Concrete (NH) Abutments
 - Charles Dana Bridge: Reinforced Concrete Abutments & Piers
- Roadway Width: 20'+/-
- Exterior Sidewalks with Timber Decks





EXISTING BRIDGE INFORMATION

- Anna Hunt Marsh Bridge Length: 330'-0"
- Charles Dana Bridge Length:
 - Truss Span = 200'-0"
 - Approach Span Length = 46'-6" Each End
 - Overall Length = 296'-0"





INSPECTION FINDINGS

- National Bridge Inspection Standard Condition Ratings
 - 9 = Excellent
 - 0 = Failed Condition Closed
- Overall bridge condition is rated 4 or Poor.
 - Deck condition is rated 7 or Good.
 - Superstructure condition is rated 4 or Poor.
 - Substructure condition is rated:
 - Anna Hunt Marsh Bridge: 6 or Satisfactory.
 - Charles Dana Bridge: 5 or Fair.





ANNA HUNT MARSH BRIDGE DECK & WEARING SURFACE DETERIORATION

- Epoxy non-skid wearing surface is worn off.
- Bridge deck cracking.







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CHARLES DANA BRIDGE DECK & WEARING SURFACE DETERIORATION

Bridge approaches wearing surface deterioration.







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REHABILITATION RECOMMENDATIONS

- Bridge Rehabilitation (As Required):
 - Member Repairs
 - Rivet replacement
- Truss Lower Chord, Verticals, Diagonals, Gusset Plates
- Floor System Floorbeams and Stringers
- Sway Bracing
- Bearings
- Lateral Bracing (replace as needed)



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REHABILITATION RECOMMENDATIONS

- Expansion Joint Replacement
- Bridge Deck & Wearing Surface Replacement
- Bridge Rail Replacement
 - Must meet pedestrian and bicycle height requirements
- Remove Exterior Sidewalks
- Existing Paint Coating Removal and Repaint
- Abutment, Wingwalls & Pier Repairs
- Installing removable bollards or gates at the NH &VT Ends





REHABILITATION RECOMMENDATIONS

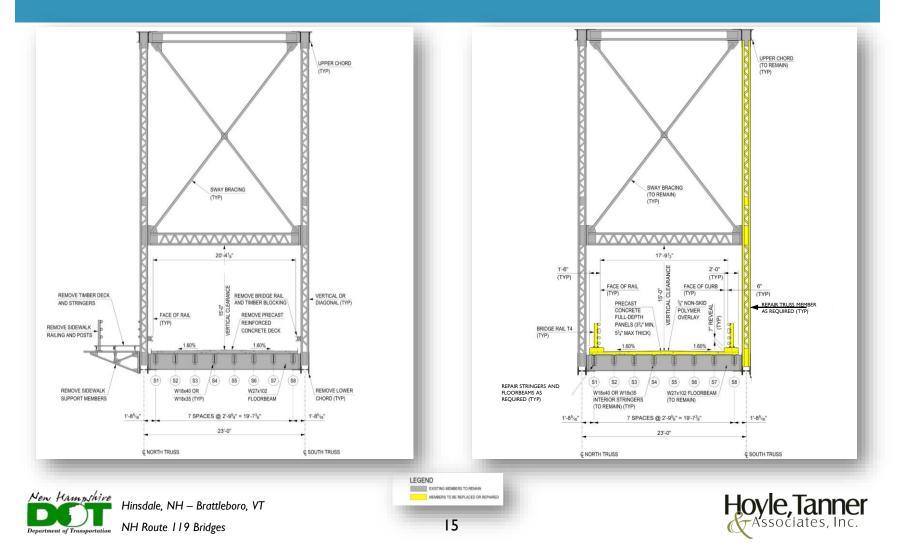
- Rehabilitation measure evaluation included:
 - Initial construction and long-term maintenance cost
 - Emergency and maintenance vehicle use
 - Public safety
 - Environmental impacts
 - Property impacts
 - Extending bridge service life



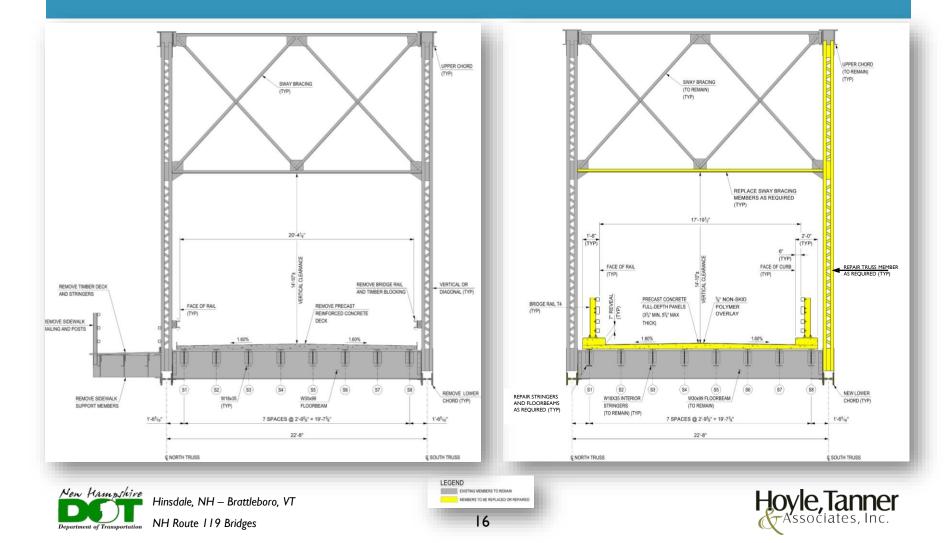
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ANNA HUNT MARSH BRIDGE EXISTING AND REHABILITATED TRUSS SECTION VIEW



CHARLES DANA BRIDGE EXISTING AND REHABILITATED TRUSS SECTION VIEW



CULTURAL AND NATURAL RESOURCES, ABUTTERS & RIGHT-OF-WAY

Cultural Resources

- Obtain concurrence that the proposed rehabilitation measures meet the Secretary of the Interior Standards requirements.
- Natural Resources
 - Check project limits for impacts natural resources.
- Abutters & Right-of-Way
 - We currently do not anticipate any property rights needed
 - Temporary easements for construction access may be required





YOUR INPUT IS NEEDED

- Bridge rail type and aesthetics
- Emergency/Mutual aid response access to bridges
- River recreational use and impacts during construction
- Local events and impacts during construction
- Bridge and user safety concerns
- Other concerns





NEXT STEPS

- Cultural & Natural Resource agencies presentation to get input & comments
- Finalize bridge rehabilitation recommendations
- Develop preliminary plans
- Develop contract plan & documents





ANTICIPATED SCHEDULE





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QUESTIONS





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