

CTDOT STATE PROJECT NO. 00555-0148 REPLACEMENT OF BRIDGE NO. 06680

Route 219 over Unnamed Brook
Granby, Connecticut

Town Roads Meeting - January 15, 2024

Please sign in with your name and title in the Chat



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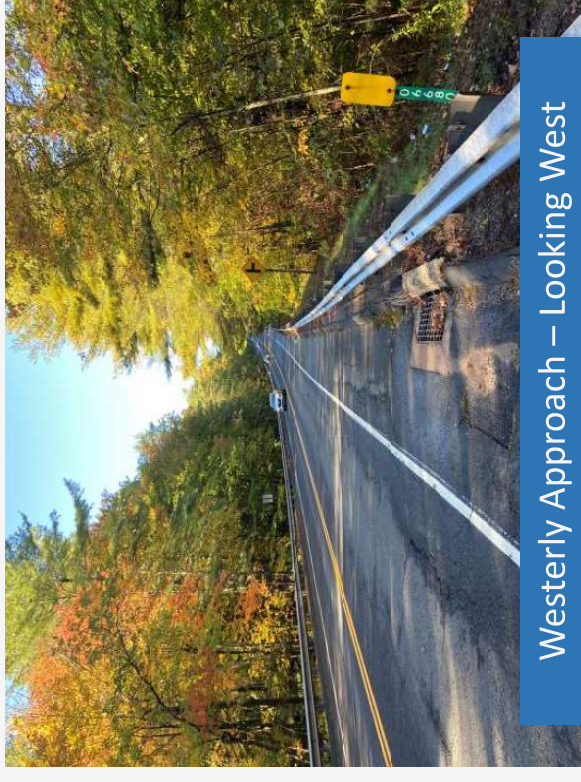
PROJECT LOCATION



Granby

BRIDGE NO. 06680 OVERVIEW

- Corrugated Metal Pipe Culvert – Total Length of 80 feet x 6 feet diameter
- Reinforced Concrete Wingwalls and Headwall at the north end - Inlet
- Reinforced Concrete Cradle at the south end - Outlet
- Roadway Curb-to-Curb Width = 35'-0"
- Built in 1959
- Bridge 06680 has no documented rehabilitation projects
- ADT is approximately 7,200 vpd (6% trucks)



Westerly Approach – Looking West

PROJECT PURPOSE & NEED

- Purpose—Address the bridge deficiencies to ensure that the major components are improved to or remain in good repair.
- Needs
 - Minimize traffic interruptions on Route 219.
 - Address the condition of the outlet pipe cradle by replacing it with an appropriate headwall.
 - Eliminate the vertical drop-off at the outlet for fisheries improvements.
 - Prevent storm drainage from discharging behind the wingwall.

EXISTING FIELD CONDITIONS – ROADWAY



Bituminous Overlay – Above Culvert



Railing – East Approach



Railing – West Approach



Curbs –Southeast approach curb

April 2023 FIELD INSPECTION REPORT RATING SUMMARY TABLE			
ITEM	CONDITION		RATING
OVERLAY	Satisfactory		6
CURBS	Satisfactory		6
RAILING	Good		7

EXISTING FIELD CONDITIONS – CULVERT



Pipe condition (perforation)



Culvert – Towards outlet



West Headwall – Vertical crack



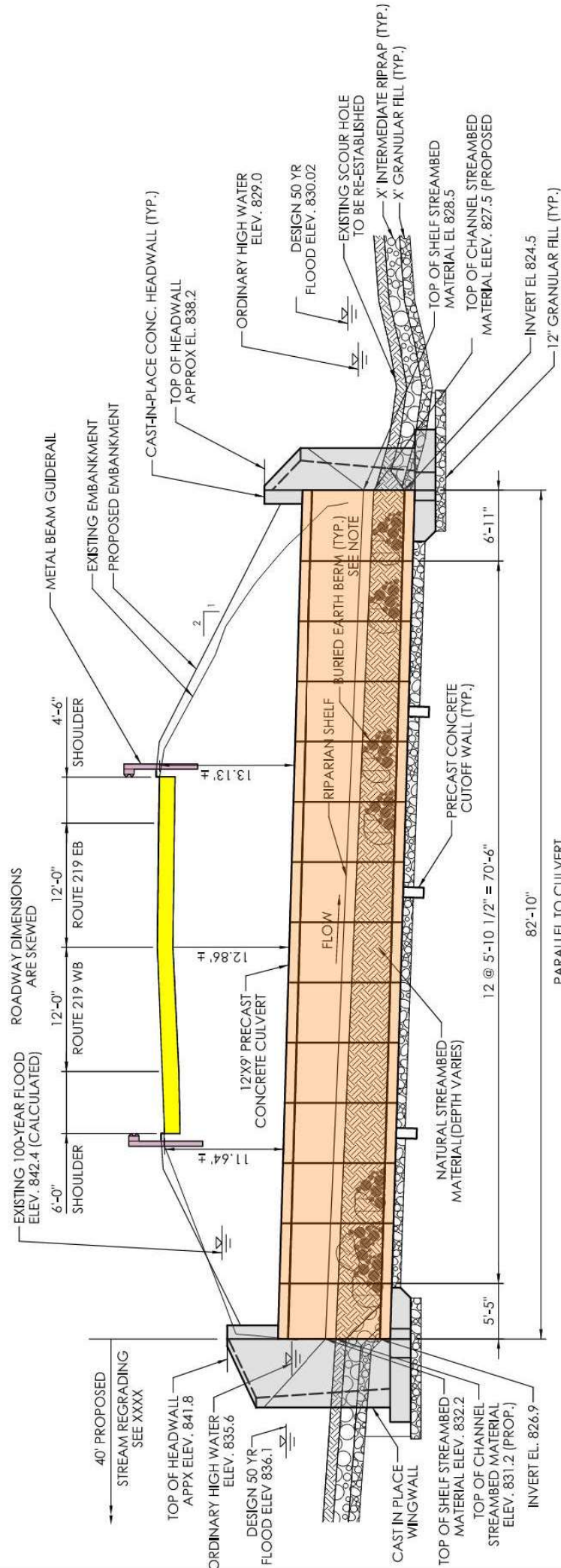
Outlet – tipped concrete cradle

April 2023 FIELD INSPECTION REPORT RATING SUMMARY TABLE		
ITEM	CONDITION	RATING
CULVERTS AND RETAINING WALLS	Poor	4
STEEL	Poor	4
HEADWALL	Fair	5
RETAINING WALL SYSTEM	Good	7

PROPOSED WORK

- Full Replacement with a 12' W X 9' H Concrete Box Culvert
- Lower the outlet to meet the current downstream elevation
- Replace the existing storm drainage system and relocate the outlet to the south side of the roadway
- Design the channel within/under the structure to control flow velocity
- Roadway Repairs (Reconstruction of roadway above culvert, Mill/Pave approaches, New MASH-Compliant Metal Beam Rail)

PROPOSED WORK – ROADWAY SECTION



NOTE: EACH BURIED EARTH BERM SHALL CONSIST OF FOUR 3-FT DIA.
BOULDERS IN A LINE SPANNING THE WIDTH OF THE CULVERT (12 FT). BACKED
BY A BERM OF INTERMEDIATE RIP RAP. ADDITIONAL DETAIL TO FOLLOW IN A
LATER SUBMITTAL.

LONGITUDINAL SECTION

SCALE: 1/8" = 1'-0"

ENVIRONMENTAL RESOURCES & HYDRAULICS

ENVIRONMENTAL RESOURCES:

- The project is located within a 2.06-acre freshwater forested/shrub wetland (PFO1E)
- Per US Fish and Wildlife mapping, the federally listed Northern Long-Eared Bat and Monarch Butterfly may be present at the project site. No critical habitat is present and none of the proposed work is anticipated to negatively impact these species.
- This is a high-priority crossing due to the presence of a high-value headwater habitat upstream and the presence of wild brook trout.

EXISTING HYDRAULICS:

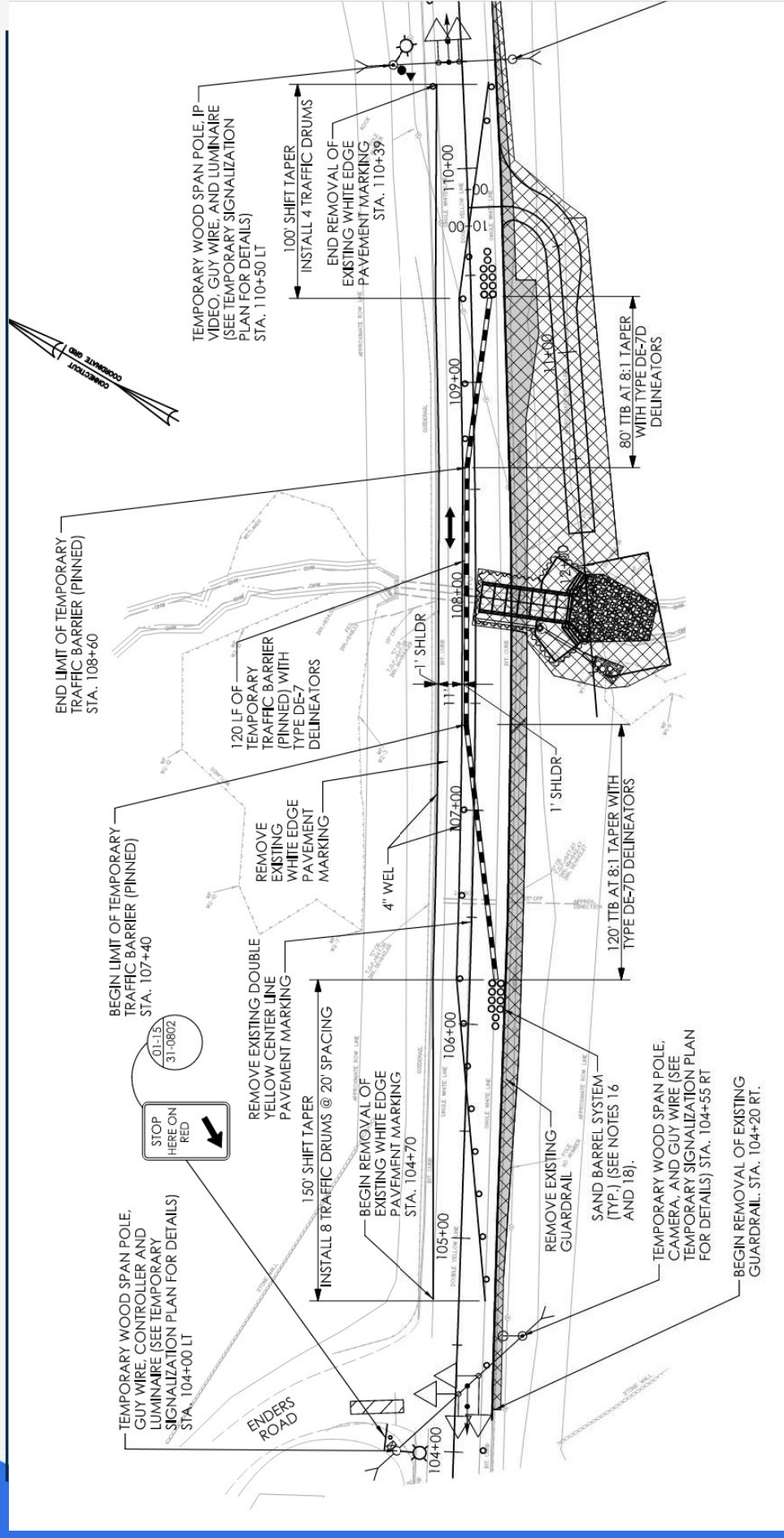
- Adequate Underclearance & Freeboard
- No scour concerns

ANTICIPATED PERMITS:

- USACE SV (GP-19)
- CT Deep Inland Wetland General Permit

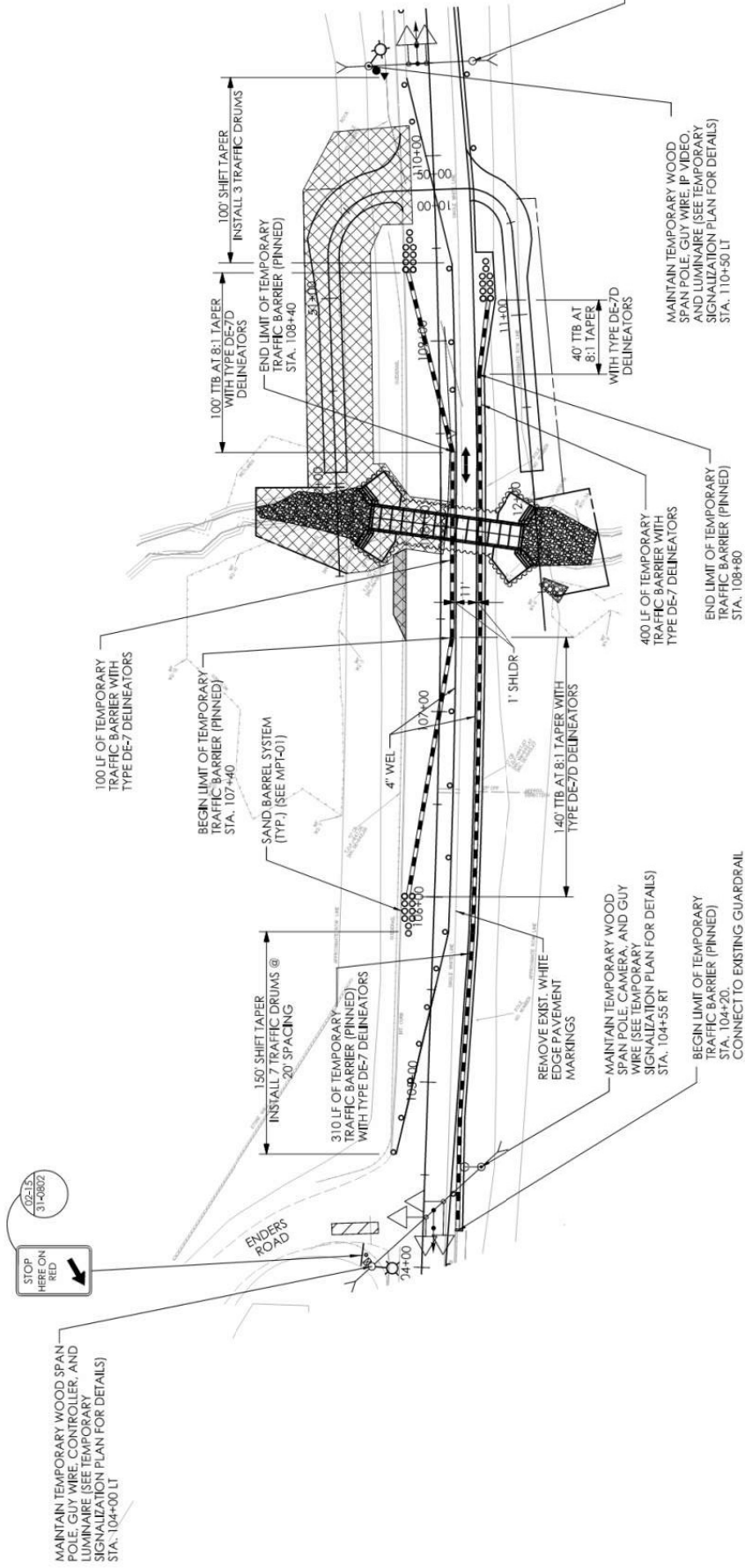


MAINTENANCE & PROTECTION OF TRAFFIC



STAGE 1

MAINTENANCE & PROTECTION OF TRAFFIC



STAGE 2



ANTICIPATED PROJECT SCHEDULE & COSTS

Schedule:

Design Approval – 4/23/2025

Design Completion – 7/22/2026

Advertisement – 8/19/2026

Start of CN – Spring 2027

Cost:

- CN Cost: \$3,000,000

- CN Funding: 80% Federal & 20% State

Virtual Public Information Meeting Options:

- Tuesday March 18th
- Thursday March 20th



Which two newspapers does the town recommend for the Public Information Meeting advertisement?

Questions/Comments

Thank you!

