

State Project No. 0038-0087

Replacement of Bridge No. 04642 in Eastford

Live Event: Tuesday, July 28, 7:00 p.m.

Join us for a Question and Answer session following the formal presentation and send us a question or a comment during the session.

PROJECT EMAIL: DOT-FLBP@ct.gov

PHONE: (860) 594-2020 (voicemail only)

PROJECT WEBPAGE:
<https://portal.ct.gov/doteastford0038-0087>



A recording of this presentation will be posted after the live event.

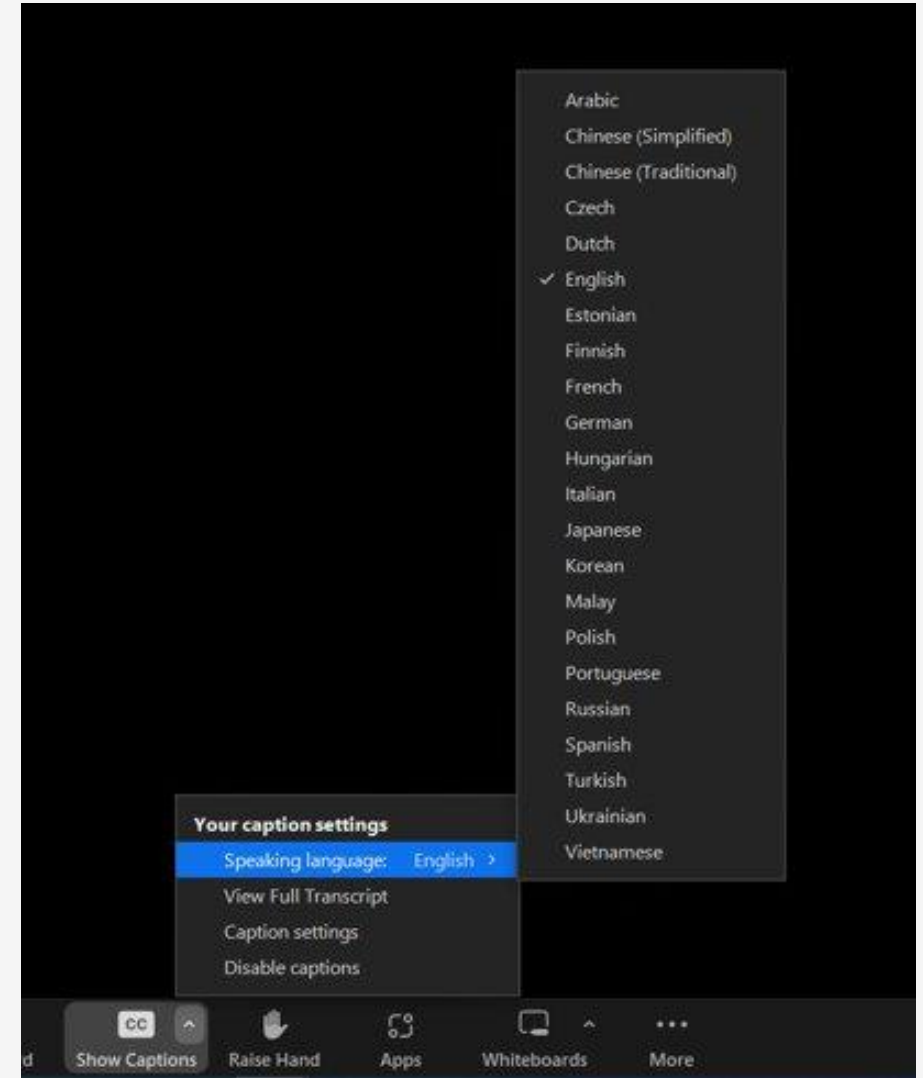
La grabación de esta presentación estará disponible después del evento en YouTube, incluyendo subtítulos y acceso a traducciones en otros idiomas.



How to view captions & subtitles in Zoom

1. Click Show Captions (CC).
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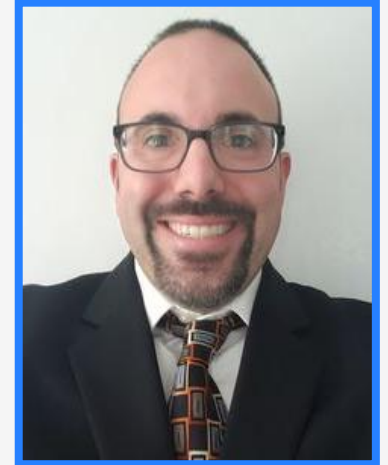


State Project 0038-0087

Replacement of Bridge No. 04642 in Eastford

Meeting Overview

- Housekeeping
- Formal Presentation of Design
 - Explain existing conditions & define Purpose and Need
 - Proposed recommendations
- Live Question and Answer (Q&A) Session



Marc Byrnes, PE
Supervising Engineer –
CTDOT
Tel. No. (860) 594-3582
Marc.Byrnes@ct.gov



Title VI – Your Civil Rights

No person shall, on the basis of race, color, or national origin, be excluded from participation or subject to discrimination in the development of this project.

- Voluntary Post-Meeting Survey:
 - <https://portal.ct.gov/ctdotsurvey>
- Title VI Information:
 - <https://portal.ct.gov/dot/opportunity-and-business-development/title-vi>



A recording of this presentation will be posted to CTDOT's YouTube channel after the event.

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Connecticut Department of Transportation

Title VI Notice to the Public

Individuals and organizations may file a complaint by completing the Title VI complaint form (portal.ct.gov/dot/Opportunity-and-Business-Development/title-vi). Complaints should be signed and include contact information and should be sent to: Office of Civil Rights Federal Railroad Administration 1200 New Jersey Avenue, SE ROA-10, Mail Stop 5 Washington, DC 20590

The Connecticut Department of Transportation (CTDOT) operates its programs and services without regard to race, color, and national origin in accordance with Title VI of the Civil Rights Act. Any person who believes she or he has been aggrieved by any unlawful discriminatory practice under Title VI may file a complaint with the CTDOT.

For more information on the CTDOT's civil rights program, and the procedures to file a complaint, contact the CTDOT Title VI Coordinator at (860) 594-2169, TRS 711; Debra.Goss@ct.gov; or visit our administrative office at 2800 Berlin Turnpike, Newington, CT 06131. For more information, visit www.ct.gov/dot.

A complainant may file a complaint directly with the Federal Transit Administration by filing a complaint with the FTA Office of Civil Rights, Attention: Title VI Program Coordinator, East Building, 5th Floor-TCR, 1200 New Jersey Ave., SE, Washington, DC 20590

A complainant may file a complaint directly with the Federal Highway Administration by filing a complaint with the FHWA Office of Civil Rights, Attention: Title VI Program Coordinator, 8th Floor E81-105, 1200 New Jersey Ave., SE, Washington, DC 20590

如需更多信息或免费语言协助，请致电 (860) 594-2109

Para información adicional, o asistencia lingüística gratuita, por favor llame al (860) 594-2109

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Aby uzyskać dodatkowe informacje lub bezpłatną pomoc tłumacza, proszę dzwonić pod numer (860) 594-2109

Для получения подробной информации или бесплатных услуг перевода звоните по телефону (860) 594-2109

Pou jwenn plis enfòmasyon, oswa asistans ak lang gratis, ranpri rele (860) 594-2109

لمزيد من المعلومات أو للحصول على مساعدة لغوية مجانية، يرجى الاتصال بالرقم (860) 594-2109

Si vous souhaitez en savoir plus ou bénéficier d'une assistance linguistique gratuite, merci de composer le numéro suivant (860) 594-2109

अधिक जानकारी या निःशुल्क भाषा संबंधी सहायता के लिए कृपया (860) 594-2109 पर कॉल करें।

추가 정보가 필요하거나 무료 언어 지원이 필요하시면 (860) 594-2109로 전화하십시오.

Để có thêm thông tin hoặc hỗ trợ ngôn ngữ miễn phí, vui lòng gọi (860) 594-2109



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Departamento de Transporte de Connecticut

Título VI Aviso al Público

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Para más información sobre el programa de derechos civiles del CTDOT y el proceso de presentar una queja, comuníquese con el Coordinadora del Título VI del CTDOT al teléfono (860) 594-2169, TRS 711; Debra.Goss@ct.gov. También puede visitar nuestra oficina administrativa en 2800 Berlin Turnpike, Newington, CT 06131. Para más información, visite www.ct.gov/dot.

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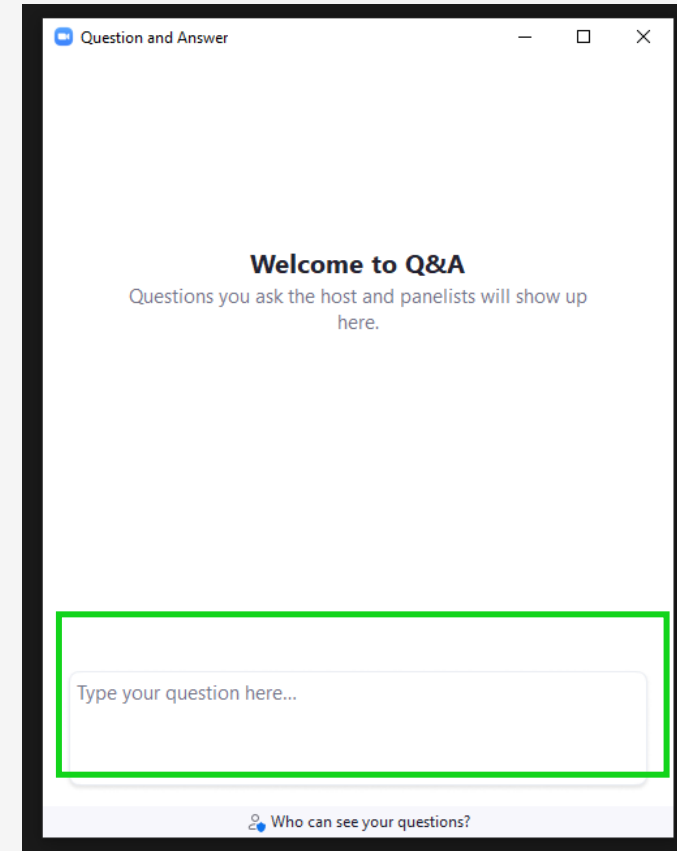
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How to use Zoom Q&A

- (1) Select the Q&A tool at the bottom of the Zoom webinar window.
- (2) The Q&A window will open as seen on the right.
- (3) Please type question in the textbox and click enter.
- If you are an audio only participant, dial *9 to raise and lower your hand.



Question & Answer Session



By Email: DOT-FLBP@ct.gov



By Phone: (860) 594-2020 (voicemail)
Please reference Project 0038-0087 in your voicemail.



On Zoom: Q&A
Questions will be posted to the Zoom Chat

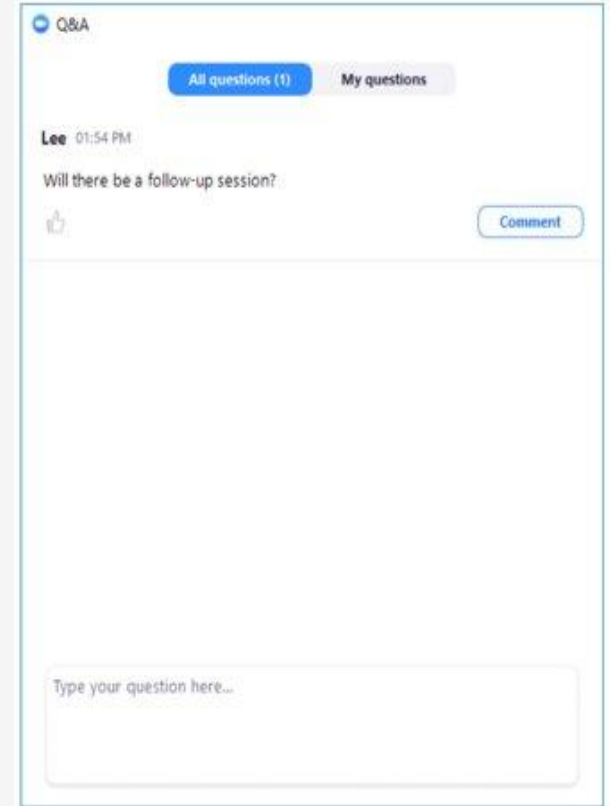


Project Webpage:
<http://portal.ct.gov/doteastford0038-0087>

**Please note the Project Number 0038-0087
in communications**

Note: Comment period is open through **August 11, 2026**

*Zoom Q&A is only available during live Q&A session



Moderator will answer questions
in Zoom Q&A function



Funding for Project

Federal Local Bridge Program – “Design Managed by State” (DMS)

Traditional Fed. Local Program: 80% Federal and 20% Town for Design, ROW, and CN

DMS: Design, ROW, and CN Phases are funded with 80% Federal and 20% State Funds

- Design, ROW, and CN Phases are at zero cost to the Town
- Design is “Full Partnership” and Coordination with the Town

Goals of DMS:

- Provide a “Streamlined approach to Design” using full DOT resources
- Aid the Towns to Keep their bridges in “State of Good Repair” by effective use of funds
- Decrease typical design time
- Utilize Accelerated Bridge Construction (ABC) techniques to shorten construction duration
- Increase the number of municipal projects delivered to construction each year

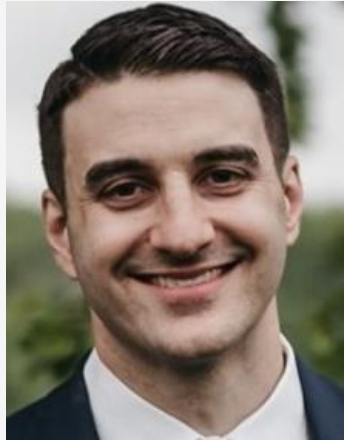


Welcoming Remarks from Town of Eastford



Deborah Richards
First Selectman

Project Team



Derick Lessard,
P.E.
Division Chief
of Bridges
CTDOT



Gregory Funk,
P.E.
Principal
Engineer
CTDOT



Marc Byrnes, P.E.
Supervising
Engineer
CTDOT



Michelle Rame
Project Engineer
CTDOT



Zachary Guarino
Right-of-Way
Project
Coordinator
CTDOT



Project Team



Anand Seshadri,
P.E.
CLE Team
CHA



Stephany
Dubina
CLE Team CHA



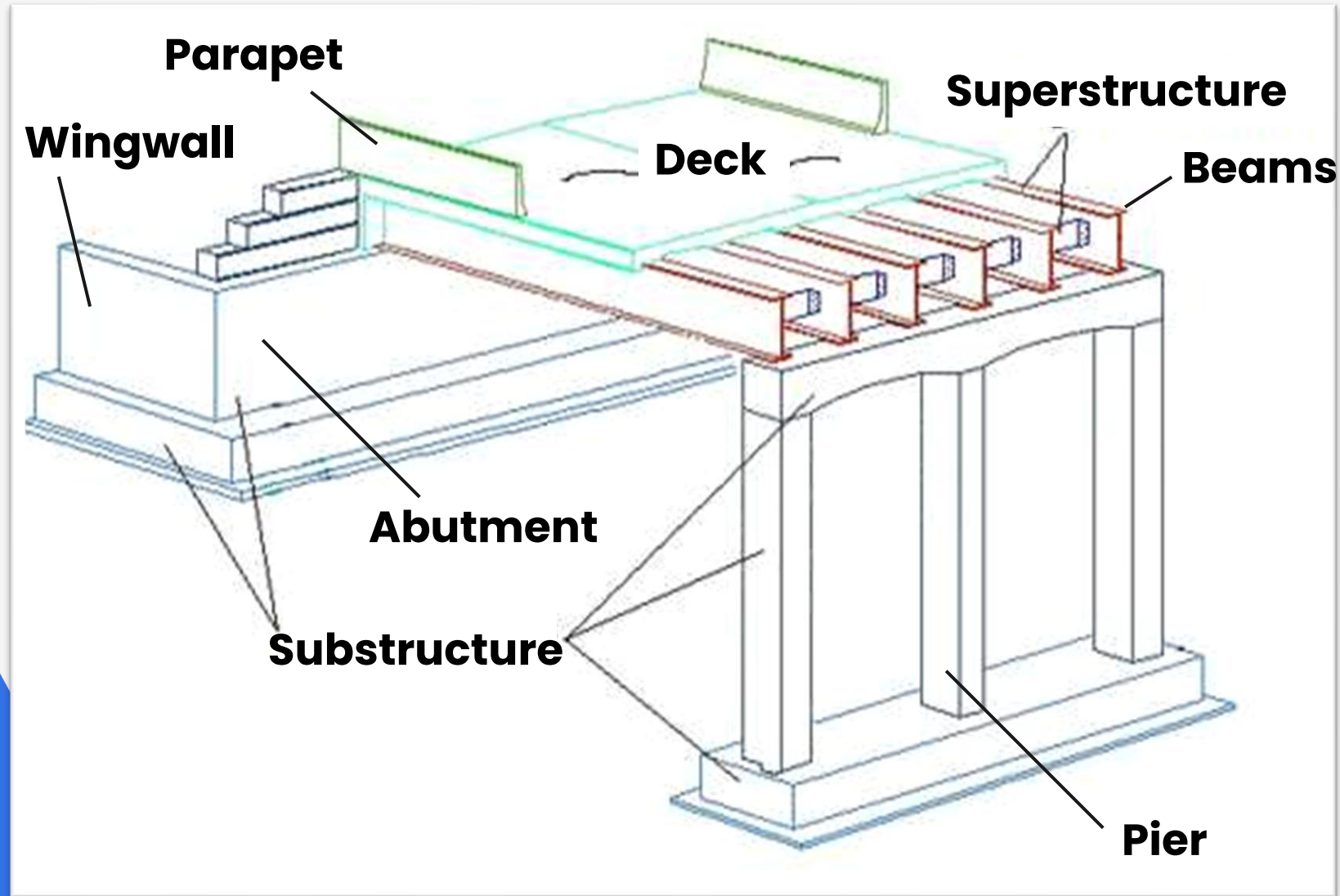
Jeff LeMay, P.E.
CLE Team
CHA



Olin Mather, P.E.
CLE Team
CHA



Bridge Structural Elements Diagram



Bridge Condition Ratings

Scale: 1 to 9

- 9 – Excellent
- 8 – Very Good
- 7 – Good
- 6 – Satisfactory
- 5 – Fair
- 4 – Poor
- 3 – Serious
- 2 – Critical
- 1 – Imminent Failure

Examples of Concrete Deterioration



Efflorescence



Honeycombing



Scaling



Map Cracking



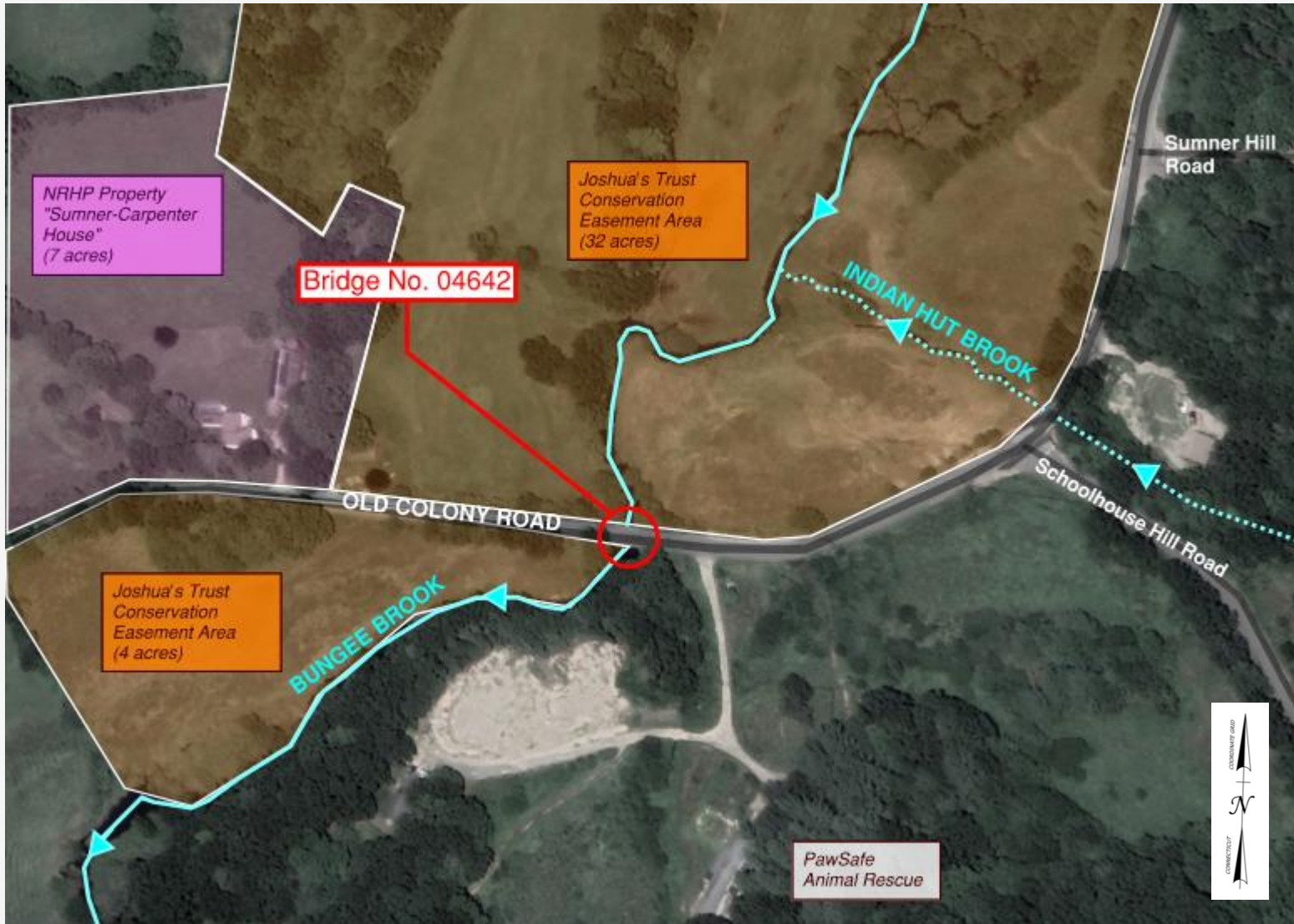
Spalling



State Project Number 0038-0087

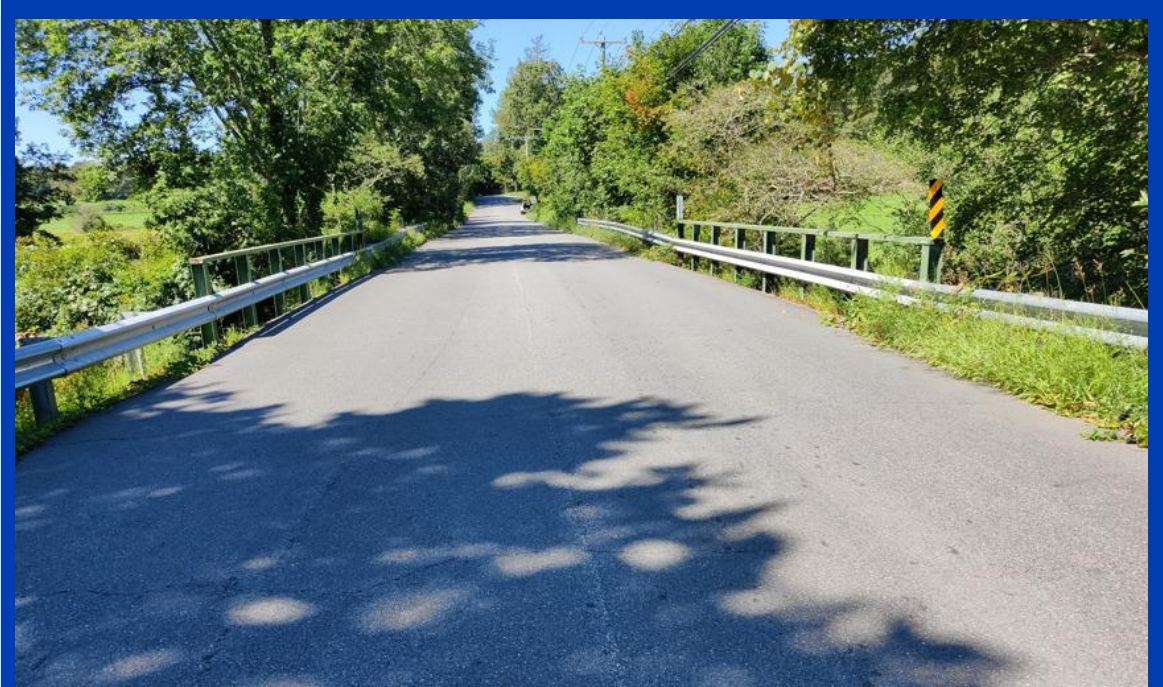
Replacement of Bridge No. 04642 in Eastford

PROJECT LOCATION MAP



EXISTING ROADWAY DATA

- Classification: Rural Collector
- Bridge Roadway Width: 26'-1"
- Approach Roadway Width: 23-feet
- ADT: 949 vpd (Traffic Count 2025)
- Posted Speed Limit: 35 MPH
- 85th Percentile Speed: 43 MPH
- Design Speed: 40 MPH (CTDOT HDM)



Roadway over the Bridge from East Approach

EXISTING BRIDGE DATA

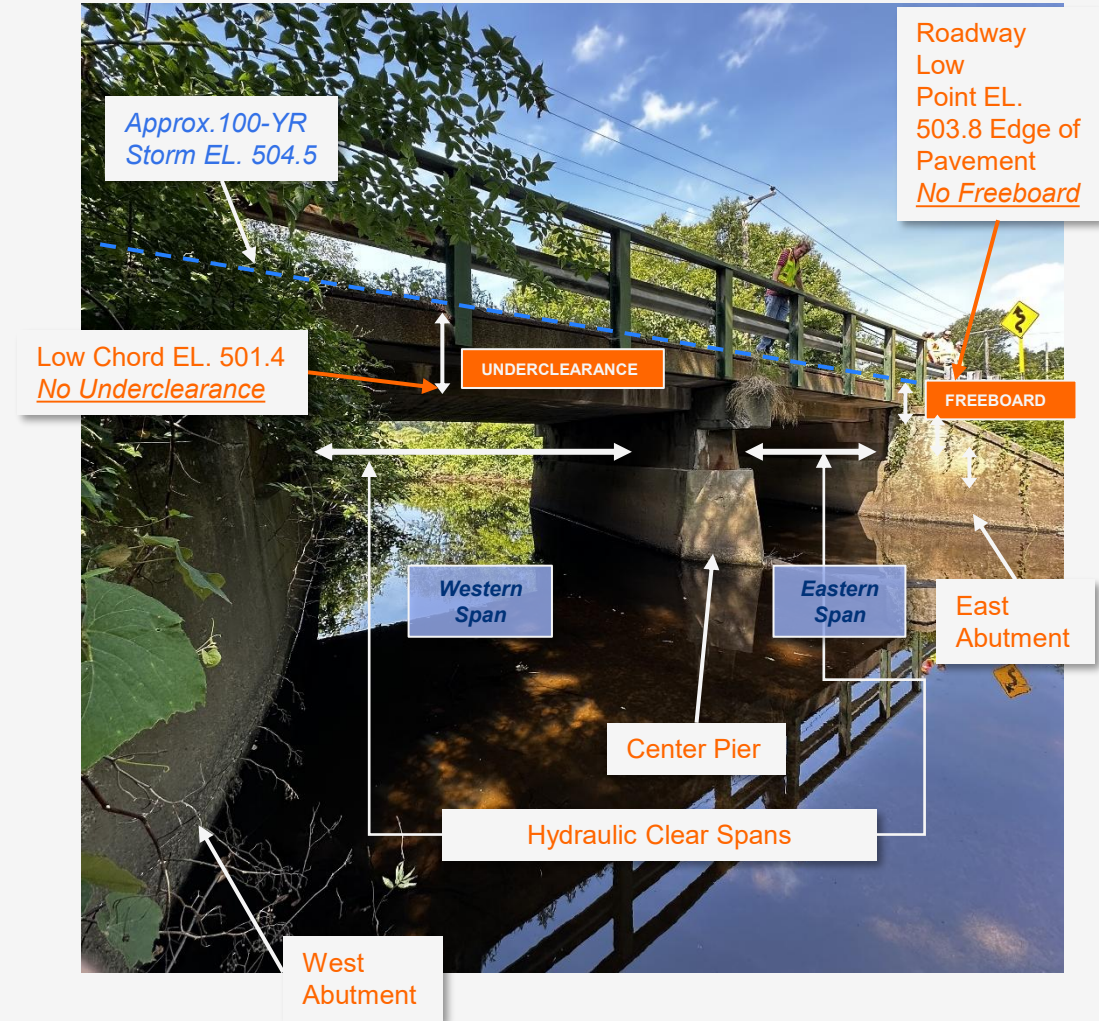
- Constructed: 1933 (Age – 93)
- Rehabilitated: 1970 (Bridge Widened)
- Bridge Span Length: (2) 22'-6"
- Total Bridge Length: 45'
- Bridge Components:
 - Superstructure: Reinforced Concrete Slab & Prestressed Concrete Deck Units (Fascia)
 - Substructure: Reinforced Concrete Abutments and Center Pier, Flared Wingwalls
 - Foundation: Spread Footings founded on Soil



North (Upstream) Elevation

EXISTING HYDRAULIC DATA

- Watershed = 16.1 Sq. Miles
- **Clear Span** = 38 feet < 48 feet = 1.2 Bankfull Width
- **Underclearance** = -3.1 feet < +2.0 feet Min.
- **Freeboard** = -0.9 feet < +1.0 feet Min.
- **Backwater** = +2.5 feet > +1.0 feet Max. (compared to no bridge)
- **Scour Critical Rating** = 3 (Foundations considered scour critical)



EXISTING CONDITIONS – BRIDGE INSPECTION

Bridge Inspection Report September 25, 2024



South Elevation View of Bridge

Load Rating Analysis

- HL-93 Inventory Rating = 0.88 (less than 1.00 Standard)



BRIDGE INSPECTION REPORT RATING SUMMARY

ITEM	CONDITION	RATING
Deck	Satisfactory	6
Overlay	Fair	5
Structural Condition	Satisfactory	6
Curbs	N	N
Parapet	N	N
Railing	Satisfactory	6*
Approach	Good	7
Guide Rail	Very Good	8*
Pavement	Good	7
Embankment	Satisfactory	6
Superstructure	Satisfactory	6
Bearings	Good	7
Girders	Satisfactory	6
Substructure	Satisfactory	6
Abutment-Stem	Satisfactory	6
Abutment-Backwall	N	N
Abutment-Footings	Good	7
Abutments-Wingwalls	Satisfactory	6
Pier-Cap	Satisfactory	6
Pier-Column	Satisfactory	6
Pier Footing	Good	7
Erosion-Scour	Fair	5
Channel and Channel Protection	Fair	5
Channel - Scour	Fair	5
Embankment - Erosion	Satisfactory	6
Debris	Satisfactory	6
Vegetation	Satisfactory	6
Channel Change	Fair	5

*Does not meet safety standards

EXISTING FIELD CONDITIONS



North
(Upstream)
Elevation



South
(Downstream)
Elevation



Bridge from
east
approach.



Bridge from
west
approach.
Note:
overhead
utilities on
north side of
the bridge.

EXISTING FIELD CONDITIONS



Deck spalling at the northeast fascia.



West abutment and underside of deck.



Scale on the underside of deck.



Spall in deck at northeast fascia of prestressed concrete deck unit.

EXISTING FIELD CONDITIONS



Center pier from downstream. Note: Spall on pier cap.



Bridge rail and overlay condition.



Field located upstream of the bridge and is protected by the Joshua's Trust Conservation easement.



Dry hydrant located near the southeast wingwall.

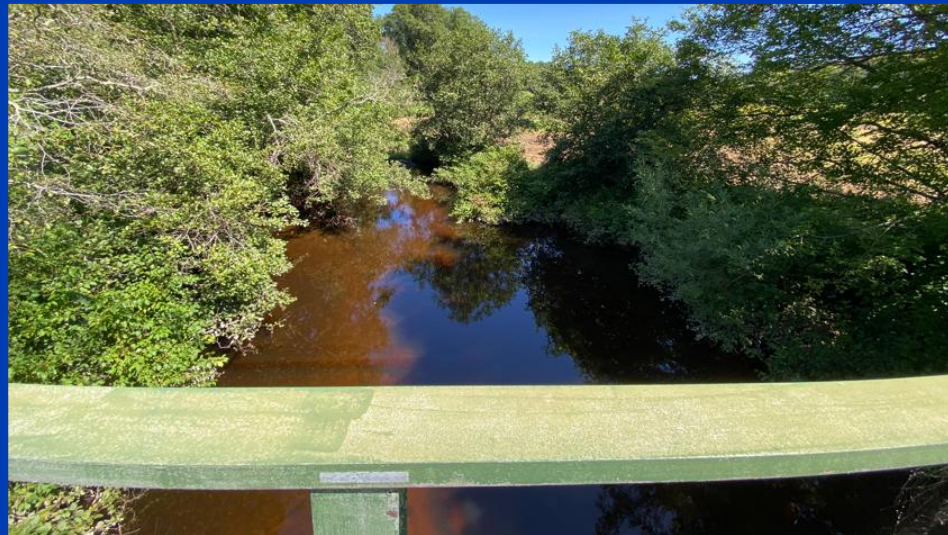
EXISTING FIELD CONDITIONS



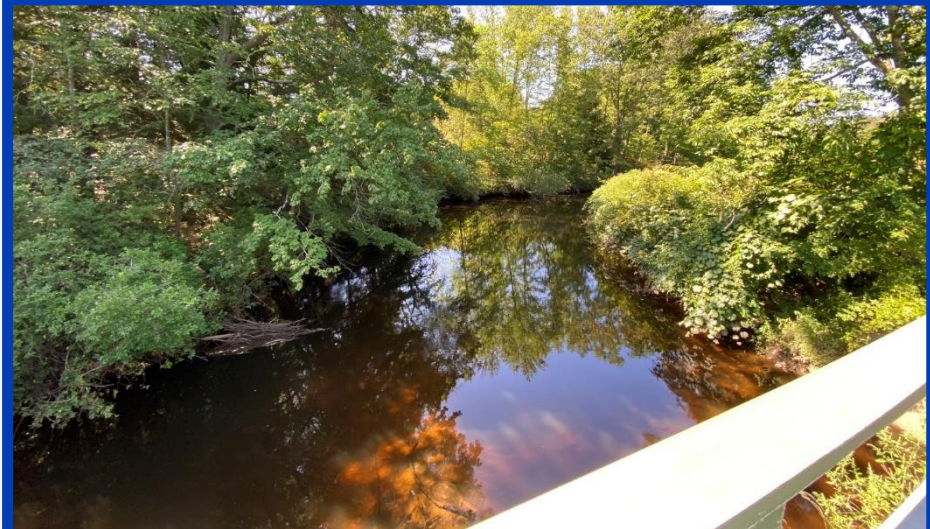
NRHP listed Sumner Carpenter House (1806). 333 Old Colony Road. Located 75' west of the roadway reconstruction limits.



Trout "Catch - and-Release" DEEP signage at Bridge.



Upstream channel of Bungee Brook looking north.



Downstream channel of Bungee Brook looking south.

PROJECT PURPOSE

Purpose

- Improve the Substandard Inventory Load Rating Factor for HL-93 Design Vehicle
- Eliminate Scour Critical Condition
- Replace bridge & approach rail systems to meet MASH/NCHRP 350 standards
- Improve Hydraulic Performance
- Existing Bridge has surpassed its 75-Year Service Life

PROPOSED REHABILITATION

Full Bridge Replacement

- Note: Despite deficiencies, the bridge is currently safe for the traveling public and is regularly inspected by CTDOT.



PROPOSED IMPROVEMENTS

SINGLE SPAN PRESTRESSED CONCRETE DECK UNIT BRIDGE

- 57'-6" Single Span Bridge
 - Pier Eliminated for better flow
- Carry AASHTO Design, Legal & Permit Vehicles – No Weight Restrictions
- 75-year Service Life & Minimal Maintenance
- 26'-Wide Roadway
- Open Bridge Rail System Meeting Safety Standards
- Pile Foundations Designed for Scour – Eliminates Scour Critical Condition
- Improvement in Hydraulic Conditions



PROPOSED IMPROVEMENTS

Improve Aesthetics

- Formliner simulating stone masonry applied to Concrete (End Blocks & exposed face of Wingwalls)
- Metalized Bridge Rail to Town's Color choice (Dark Brown)

Wingwall

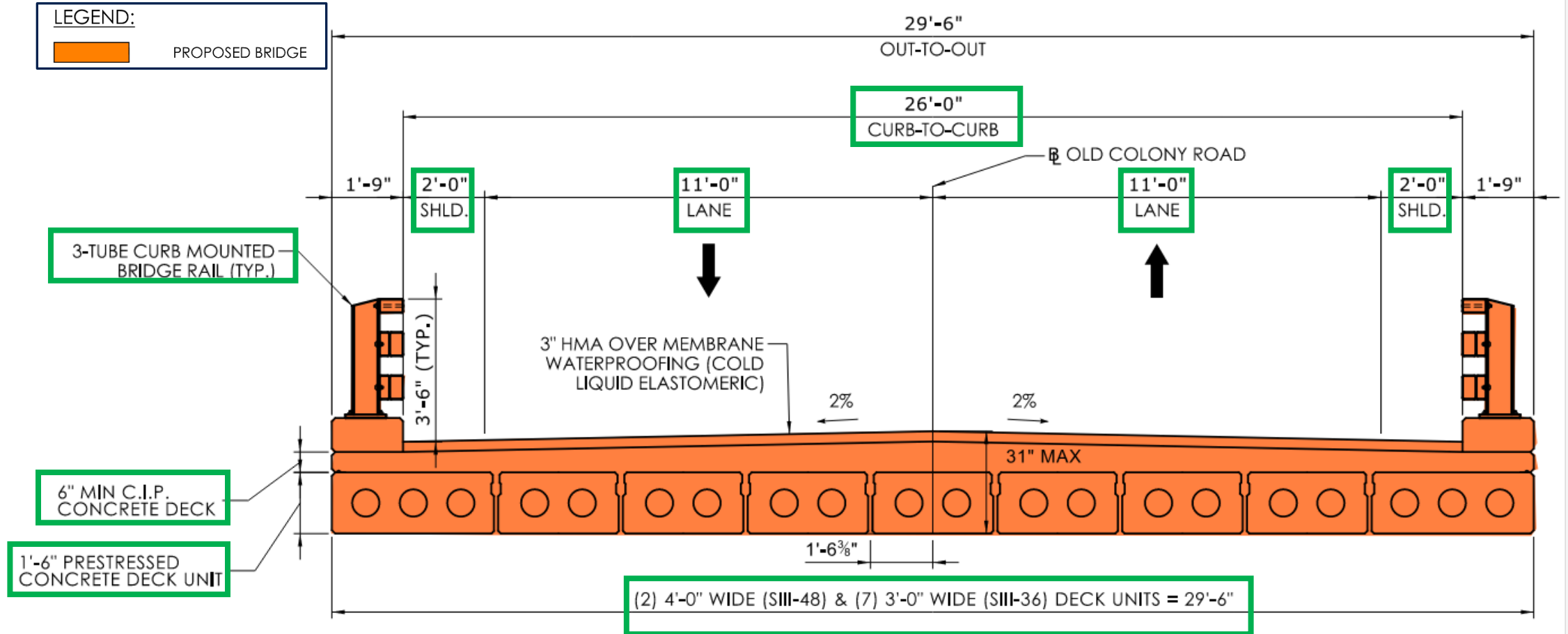


End Block

Bridge Rail



PROPOSED BRIDGE SECTION



PROPOSED BRIDGE SECTION (LOOKING EAST)

SCALE: $\frac{3}{8}$ " = 1'-0"

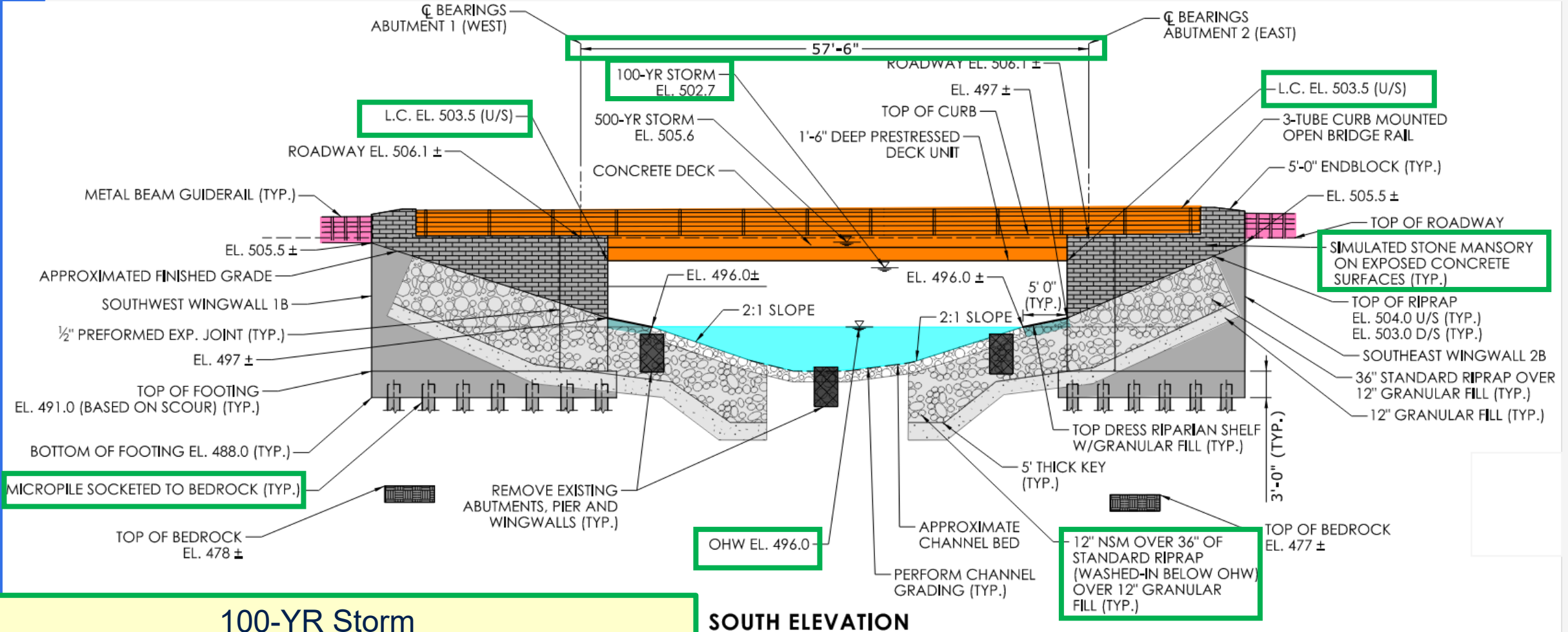
LEGEND:

- PROPOSED BRIDGE
- PROPOSED SUBSTRUCTURE
- PROPOSED APPROACH ROADWAY RECONSTRUCTION
- PROPOSED FILL
- PROPOSED CUT
- WATERCOURSE
- RIPARIAN SHELVE
- WETLANDS
- PROPOSED APPROACH GUIDERAIL
- R.O.W. LINE
- DRAINAGE EASEMENT
- TEMPORARY CONSTRUCTION EASEMENT LINE

 COMMISSIONER'S OFFICE



PROPOSED BRIDGE ELEVATION



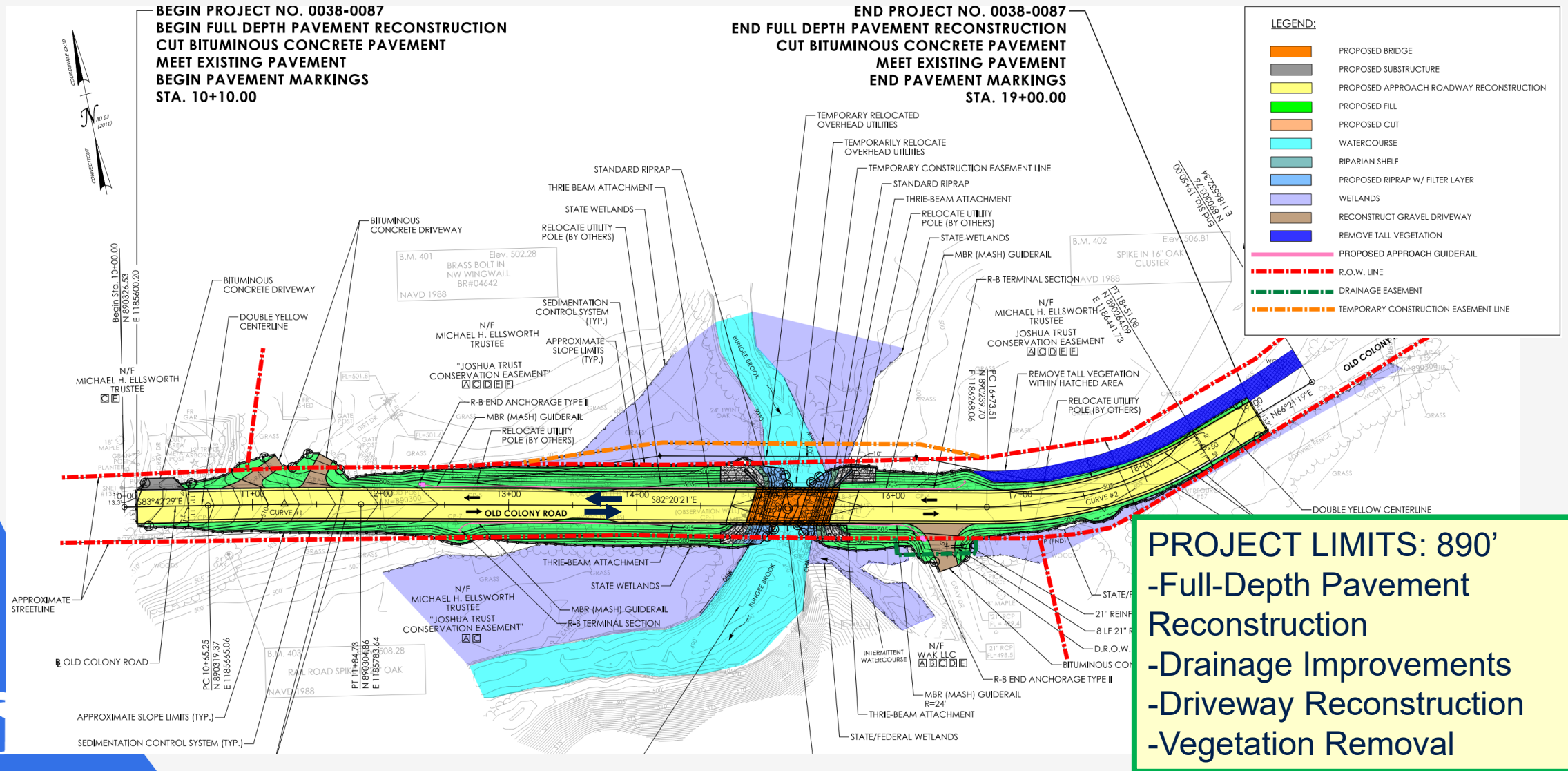
100-YR Storm

Underclearance +0.8' (-3.1' Existing; +2.0' Std)

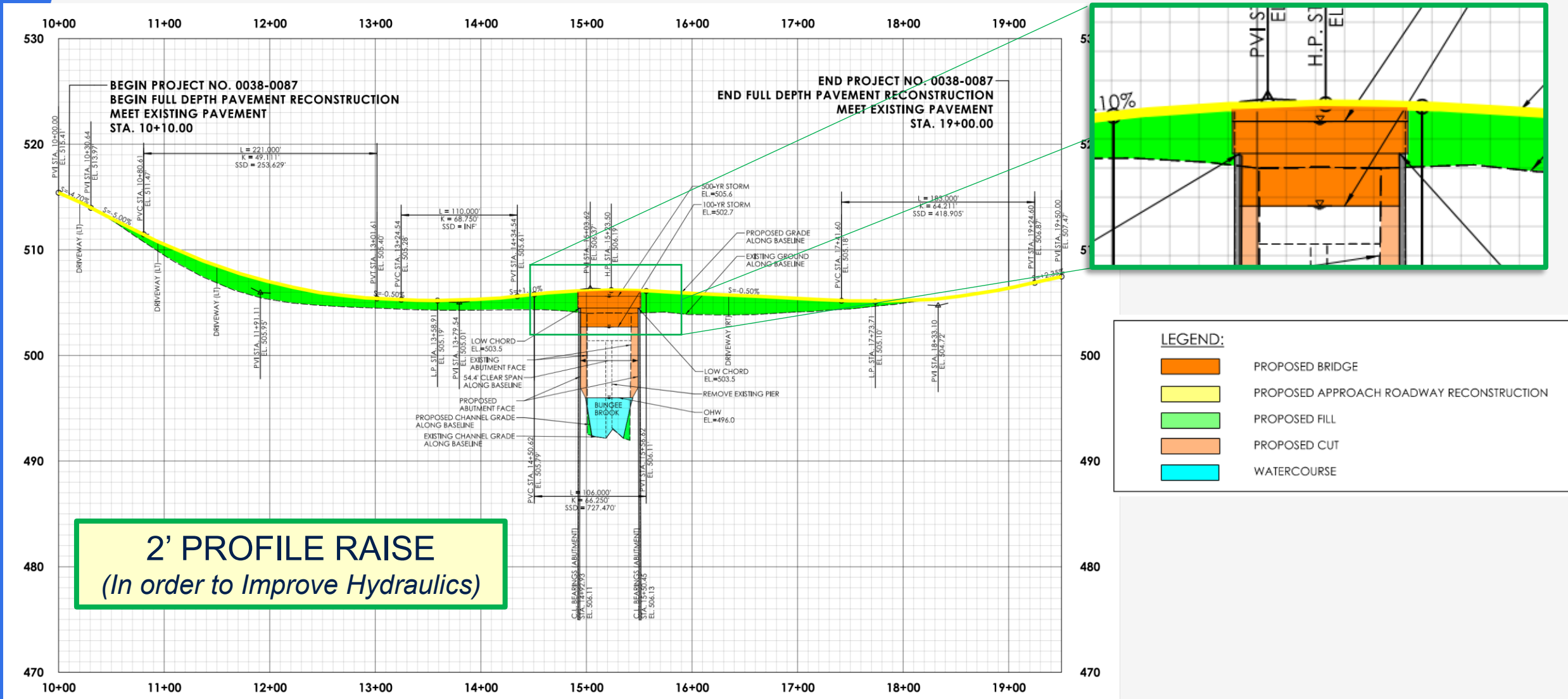
Freeboard: +1.9' (-0.9' Existing; +1.0' Std)

Backwater Elevation: +0.7' (+2.5' Existing; +1.0' Std)

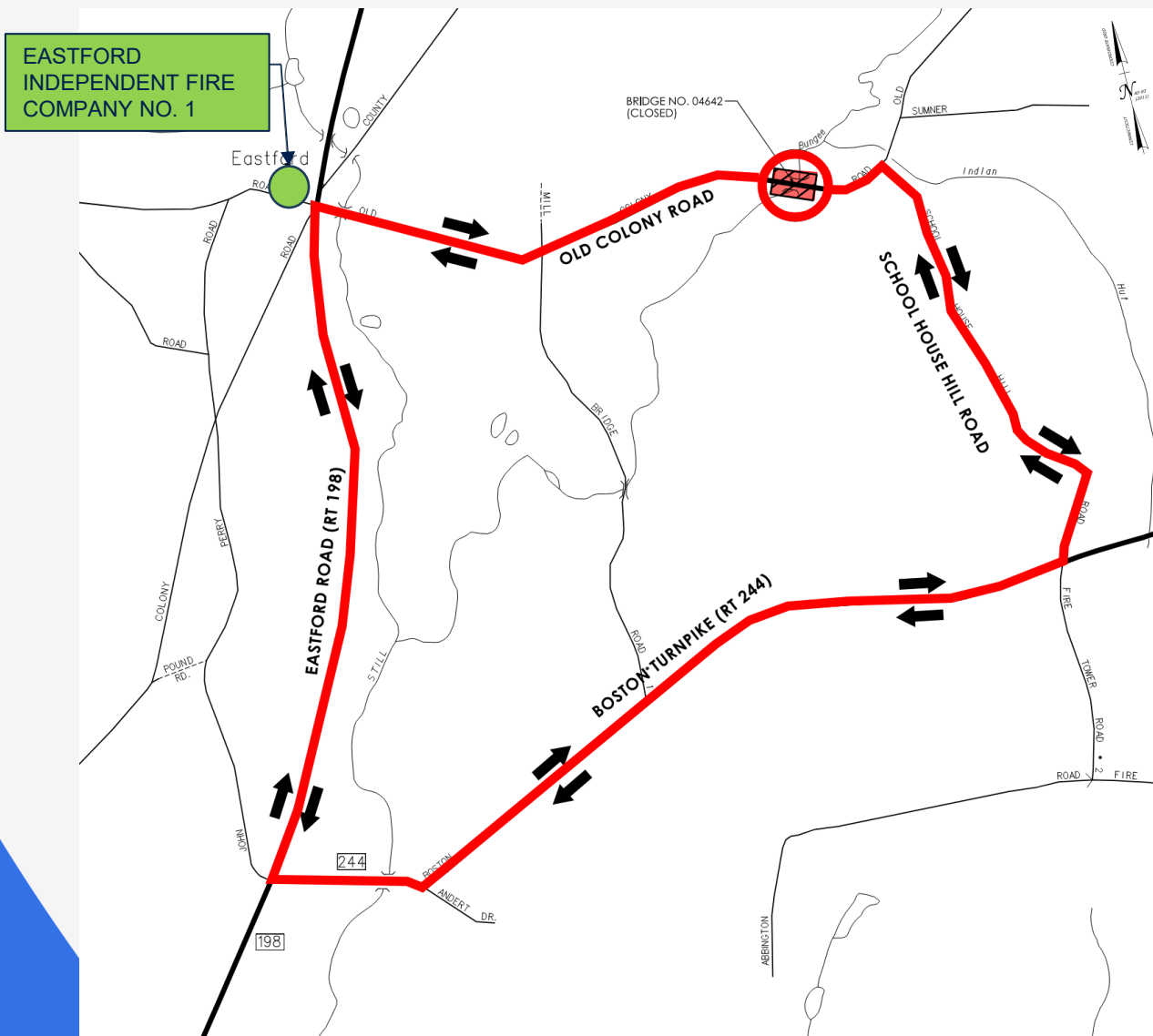
PROPOSED ROADWAY PLAN



PROPOSED ROADWAY PROFILE



DETOUR



DETOUR ROUTE
(3.8 MILES)

DETOUR LEGEND:

-  WORK ZONE
-  DETOURED TRAFFIC FLOW
-  DETOUR ROUTE (3.8 MILES)



UTILITY AND HISTORICAL IMPACTS

- Utility Impacts:
 - Overhead utilities located north of the existing bridge to be temporarily or permanently relocated and maintained throughout construction
- Historical/Conservation Impacts:
 - Archeological Survey of the area surrounding the bridge is pending
 - There is a small area of regrading proposed to the southeast corner of the the NHRP house property for the regrading of the driveway of the adjacent property.
 - Preliminary Coordination with Joshua's Trust has been initiated.



ENVIRONMENTAL IMPACTS & PERMITS

- Environmental Impacts:
 - Tall Vegetation Removal along roadway within the Town ROW to improve sightlines
 - Temporary & Permanent Wetland & Watercourse Impacts
 - Temporary Water Handling required to maintain stream flow
 - Best-Management Practices for Aquifer Protection, Fish, & Wildlife (Trout, Wood Turtle, Bobolink, Brown Thrasher, Tri-Colored Bat, Freshwater Mussel)
- Anticipated Permits:
 - Town of Eastford Inland Wetland Permit
 - Flood Management Certification
 - US Army Corps of Engineers Pre-Construction Notification



DIVISION OF RIGHTS OF WAY

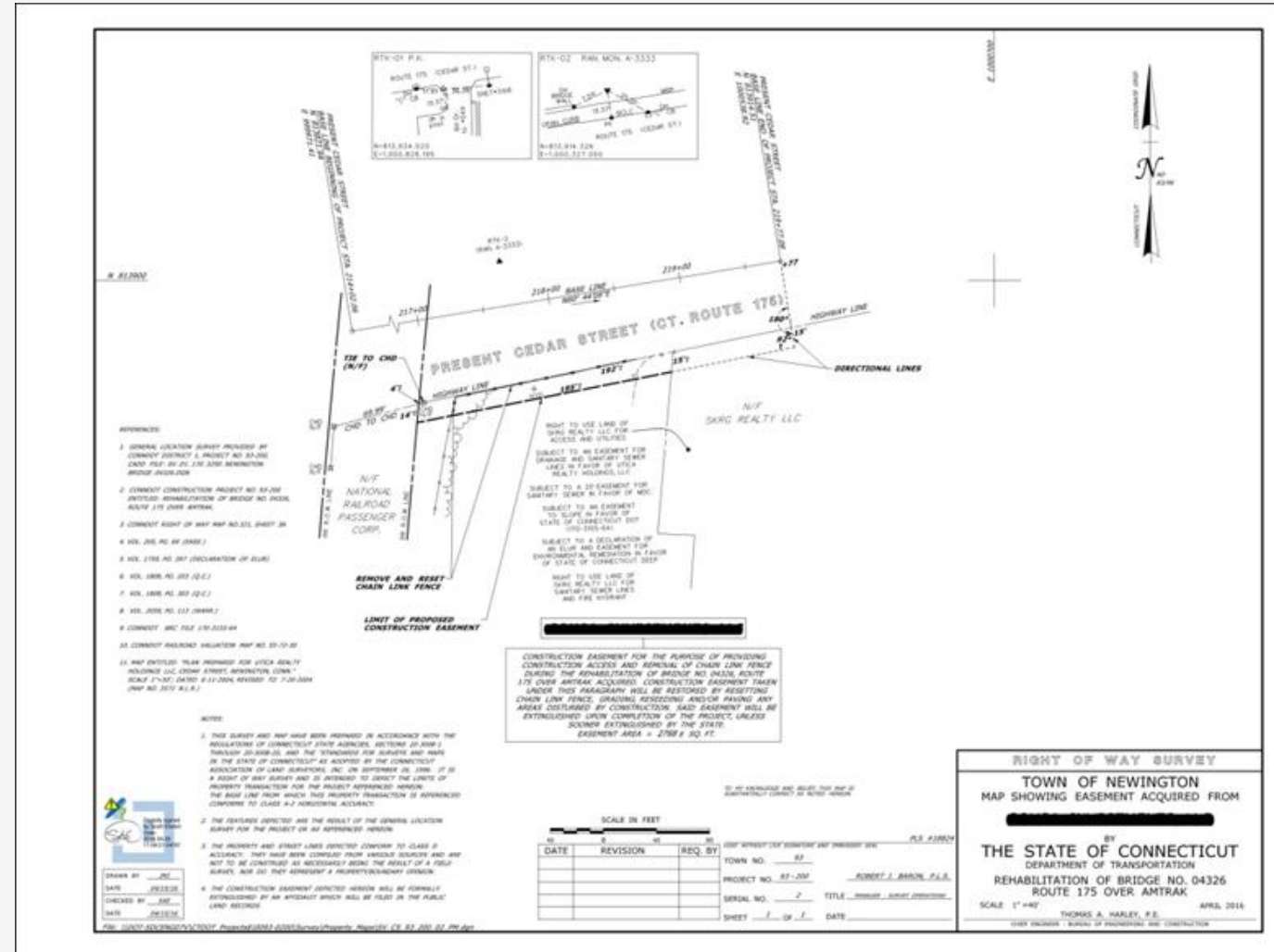
- Function
 - Acquire all property/property rights necessary for the project.
- Statutory References
 - State of Connecticut: C.G.S. Section 13a-73 & 13a-98e
 - Federal: Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, as Amended.
- Impacts to Private Property*
 - Partial Acquisitions
 - Easements
 - Rights

*Impacts Subject to Change as Design Progresses



DIVISION OF RIGHTS OF WAY

- ROW Process
 - Letter of Intent to Acquire
 - Valuation
 - Offer of Compensation
 - Negotiation
 - Acquisition
 - Agreement
 - Condemnation



PROJECT SCHEDULE AND COST

- Schedule:
 - Construction: Spring 2028 (subject to Funding, ROW and permit approvals)
 - Construction Duration: 1 Season (8 months)
- Cost:
 - Construction Cost: \$5,268,000
 - 80% Federal Funds & 20% State Funds
 - No Cost to Town (*Construction Cost is reimbursed*)

*Cost and schedule are preliminary and are subject to change



Question & Answer Session



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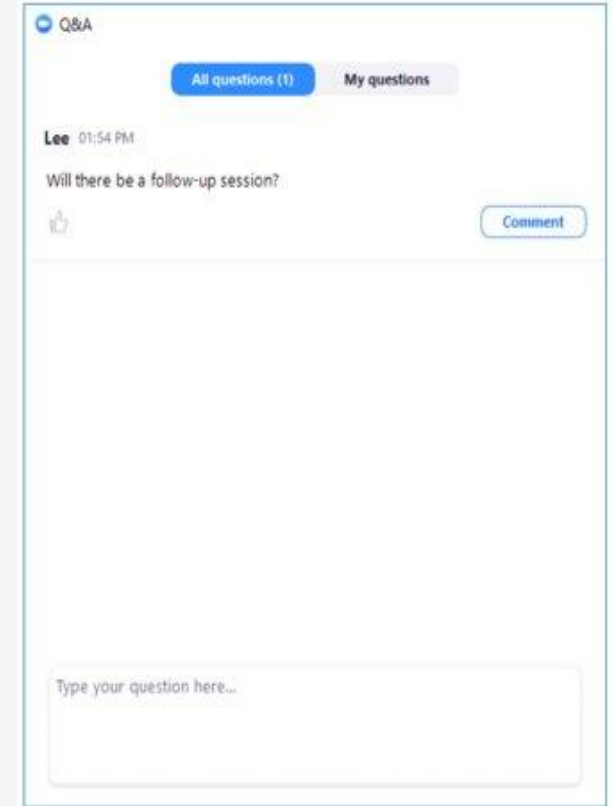


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