



**State Project Number
0063-0734**

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BULKELEY BRIDGE REHABILITATION PROJECT, I-84 OVER CONNECTICUT RIVER, HARTFORD AND EAST HARTFORD, CONNECTICUT
VIRTUAL PUBLIC INFORMATION MEETING

**Live Event: Monday, June 3, 2024
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: DOTProject0063-0734@ct.gov

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

PROJECT WEBPAGE:
<https://portal.ct.gov/DOTHartford63-734>



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.



Rehabilitation // Bridge No. 00980A // State Project No. 0063-0734

State Project Number 0063–0734

Bulkeley Bridge Rehabilitation

Meeting Overview

- Housekeeping
- Introduce Project Team
- Formal Presentation of Design
 - Explain existing conditions & define Purpose and Need
 - Recommend a viable proposal (Rehabilitation Study Report is complete)
- Live Question and Answer (Q&A) Session



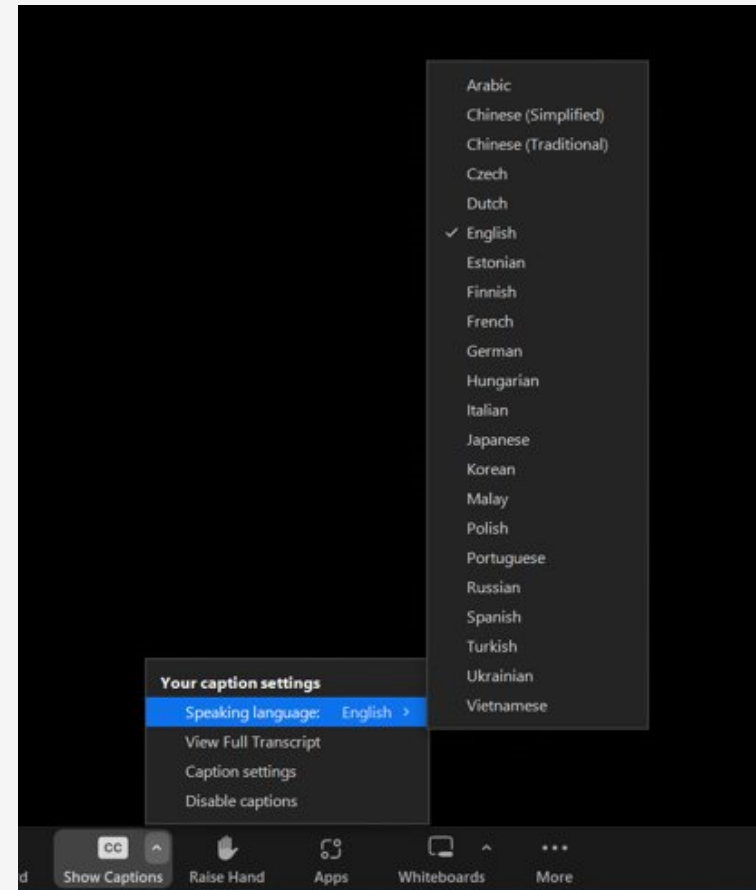
Tracey Brais, P.E.
Project Manager – CT DOT
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1. Click Show Captions (CC).
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Question & Answer Session



By Email: DOTProject0063-0734@ct.gov



By Phone: (860) 594-2020 (voicemail)



By Chat: Zoom Q&A

Questions will be posted to the Zoom chat

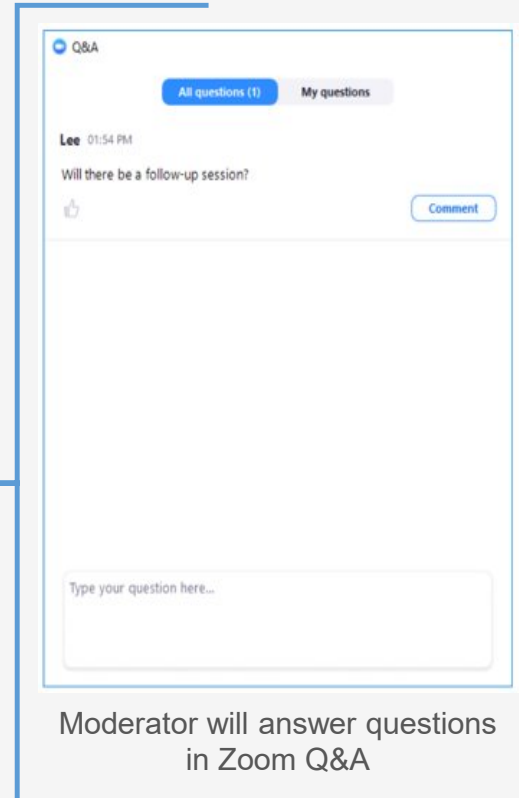


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Note: Comment period is open through **June 17, 2024**

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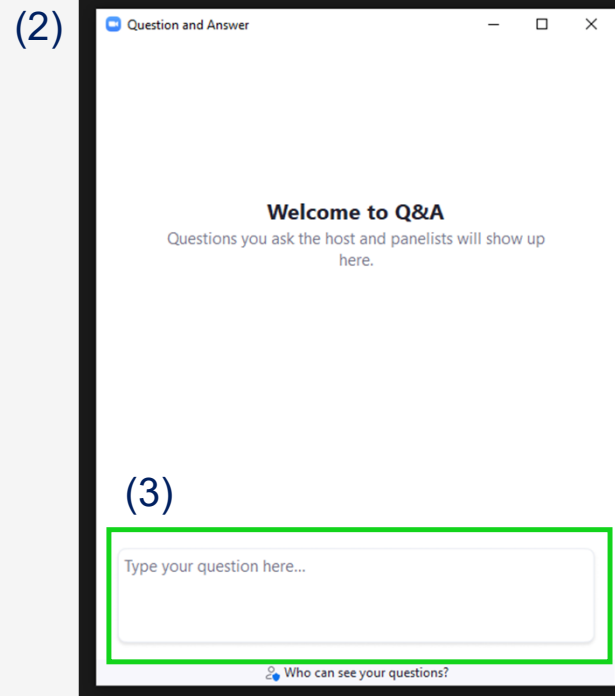


Moderator will answer questions in Zoom Q&A



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.
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- If you are an audio only participant, dial *9 to raise and lower your hand.



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>
- Civil Rights information:
 - <https://portal.ct.gov/DOT/Business/Office-of-Equity/Title-VI-Page>



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Individuals and organizations may file a complaint by completing the Title VI complaint form (<https://railroads.dot.gov/resource-center/title-vi-civil-rights-act-1964/title-vi-complaint-format>). 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

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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, DE 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

Per informazioni aggiuntive o assistenza linguistica gratuita, chiamare il numero (860) 594-2109

Para obter mais informações, ou para auxílio gratuito em outro idioma, ligue para (860) 594-2109

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

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

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

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Departamento de Transporte de Connecticut

Título VI Aviso al Público

- ◊ El Departamento de Transporte de Connecticut (CTDOT) se compromete a asegurar que ninguna persona sea excluida de participar en, o le sean negados los beneficios de, sus servicios de transporte basándose en la raza, color o país de origen de la persona protegida por el Título VI de la Ley de los Derechos Civiles. Si a usted le parece que ha sido objeto de discriminación en lo que corresponde al Título VI, puede presentar una queja al CTDOT.
- ◊ 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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Project Team - CTDOT



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Project Team – Consultants



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Churyanathan
Loganathan
Design Engineer
CHA



Sam Martha
Traffic Lead
VN Engineers



Introduction



Chad Perkosi, P.E.
Lead Engineer
CHA

Formal Presentation

Chad Perkosi, P.E. from CHA will walk us through the project.



Project Location



Rehabilitation // Bridge No. 00980A // State Project No. 0063-0734

History and Facts

Bulkeley Bridge:

- Stone masonry & reinforced concrete arch carrying I-84
- Built in 1906 (Cost \$3 million)
- Widened in 1964
- One of the oldest structures on the Interstate system
- Largest stone masonry arch bridge by surface area in the State of Connecticut
- Bridge is approximately 1175 feet long by 121 feet wide



Existing Conditions

Condition Rating – a judgement of a bridge component condition in comparison to its original as-built condition, used to provide an overall characterization of the general condition of the component being rated.

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



Existing Conditions - Approaches



West Approach



East Approach



Northeast Approach Guardrail



Northwest Retaining Wall

ITEM	CONDITION	RATING
Approach	Satisfactory	6
• Approach Guide Rail	Good	7
• Approach Pavement	Satisfactory	6



Existing Conditions - Deck



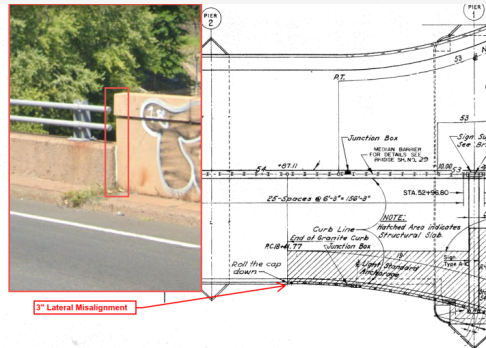
Deteriorated Pavement



Fixed Object Hazard



Clogged Deck Drains



Misaligned Parapet

ITEM	CONDITION	RATING
Deck	Satisfactory	N
• Deck – Structure	-	N
• Overlay	Satisfactory	6
• Curbs	Fair	5
• Median	Satisfactory	6
• Sidewalks	Satisfactory	6
• Parapet	Fair	5
• Railing	Poor	4
• Drains	Poor	4
• Lighting Standard	Satisfactory	6
• Expansion Joint	Very Good	8



Existing Conditions – Superstructure



*Girders - Superstructure consists of stone masonry & concrete arches, stone masonry spandrel walls and arch rings. There is a longitudinal joint between the original 1908 masonry and 1964 concrete extension of the arches.

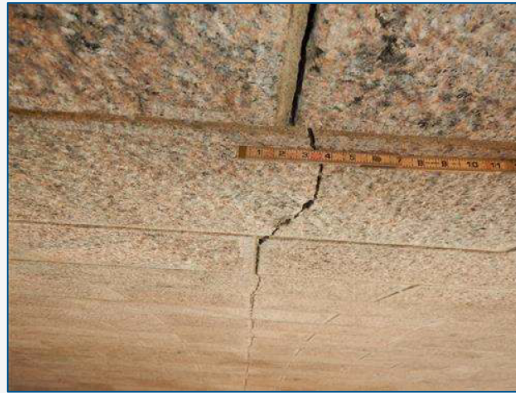
ITEM	CONDITION	RATING
Superstructure	Satisfactory	6
• *Girders	Satisfactory	6
• Concrete Cracking	Satisfactory	6
• Collision damage	Very Good	8
• Member alignment	Good	7



Existing Conditions – Superstructure (Cont.)



Stone Masonry Arch Intrados



Spandrel Wall



Concrete Arch Intrados



ITEM	CONDITION	RATING
Superstructure	Satisfactory	6
• *Girders	Satisfactory	6
• Concrete Cracking	Satisfactory	6
• Collision damage	Very Good	8
• Member alignment	Good	7

Rehabilitation // Bridge No. 00980A // State Project No. 0063-0734



Existing Conditions – Substructure



Southeast Wingwall



Deteriorated Mortar



Void at Pier 7

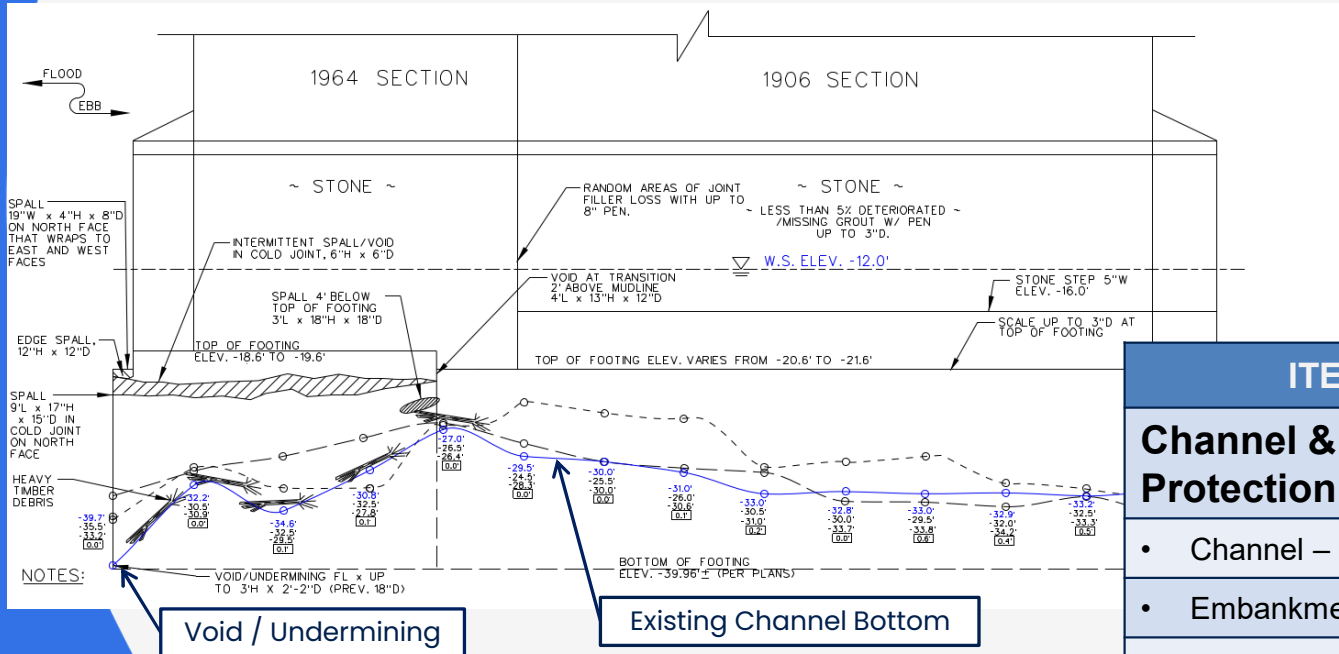


Longitudinal Joint at Pier 3

ITEM	CONDITION	RATING
Substructure	Fair	5
• Abut – Stem	Good	7
• Abut – Settlement	Fair	5
• Abut – WW	Fair	5
• Pier - Caps	Satisfactory	6
• Pier – Columns	Fair	5
• Pier – Footings	Fair	5
• Piers - Settlement	Satisfactory	6
• Erosion – Scour	Fair	5
• Concrete Crack	Fair	5



Existing Conditions – Channel & Channel Protection



Pier 2
West Elevation

ITEM	CONDITION	RATING
Channel & Channel Protection	Fair	5
• Channel – Scour	Fair	5
• Embankment – Erosion	Good	7
• Debris	Fair	5
• Vegetation	Good	7
• Channel Change	Fair	5
• Rip Rap	Fair	5

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Project Purpose and Need

Purpose:

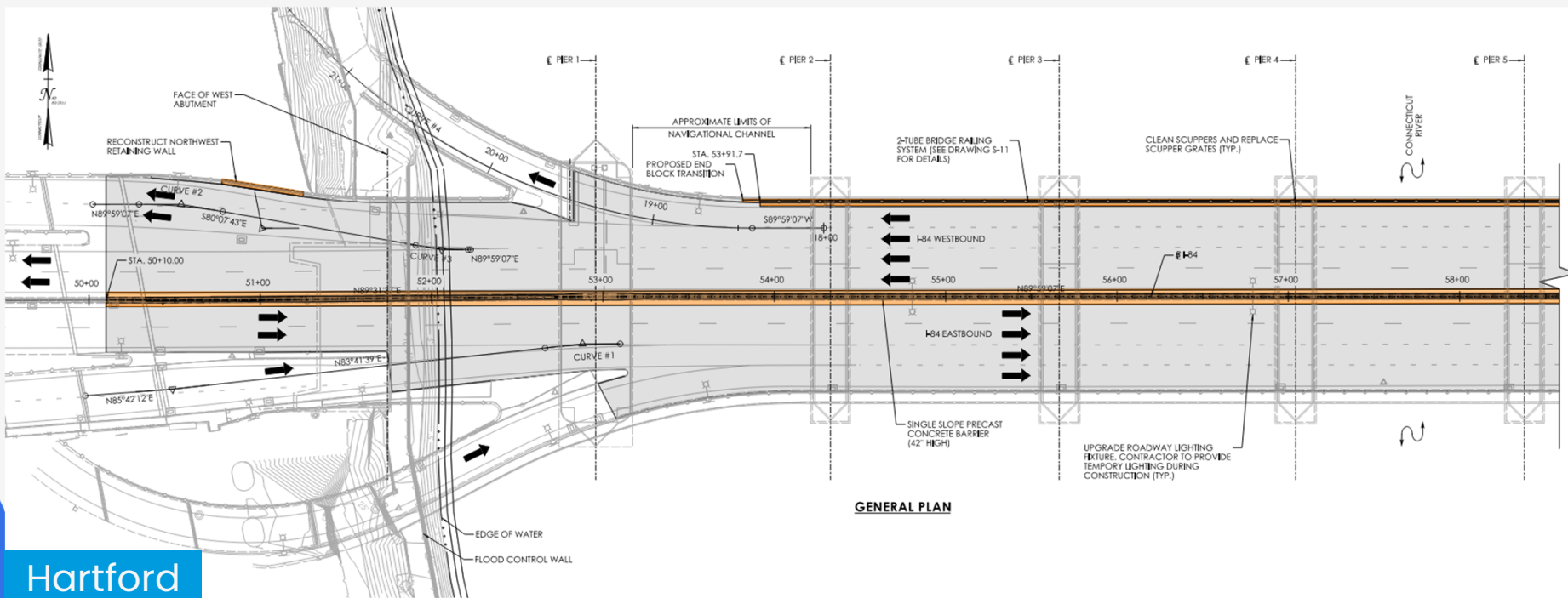
- Bring the Structure back to a “State of Good Repair”

Needs:

- Address substandard parapets/barriers at median & North side of I-84 Westbound
- Replace wearing surface
- Clean bridge scuppers
- Replace roadway luminaires with modern energy efficient LED fixtures
- Repair underlying concrete pavement
- Repair substructure deterioration (above and below water line)
- Seal / Repair cracks
- Clean efflorescence and remove graffiti
- Reconstruct upper portion of Northwest retaining wall
- Seal concrete surface from deicing salts



Plan View - West

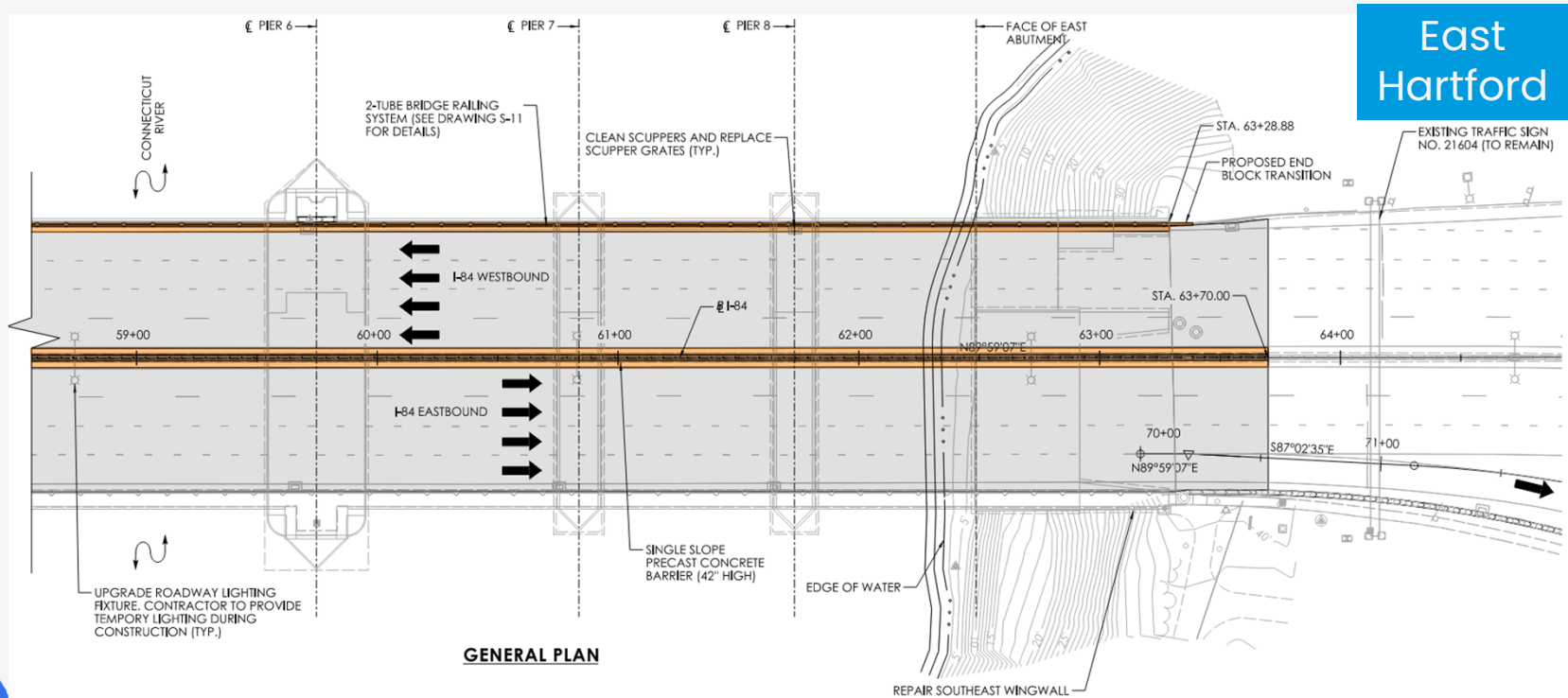


Hartford

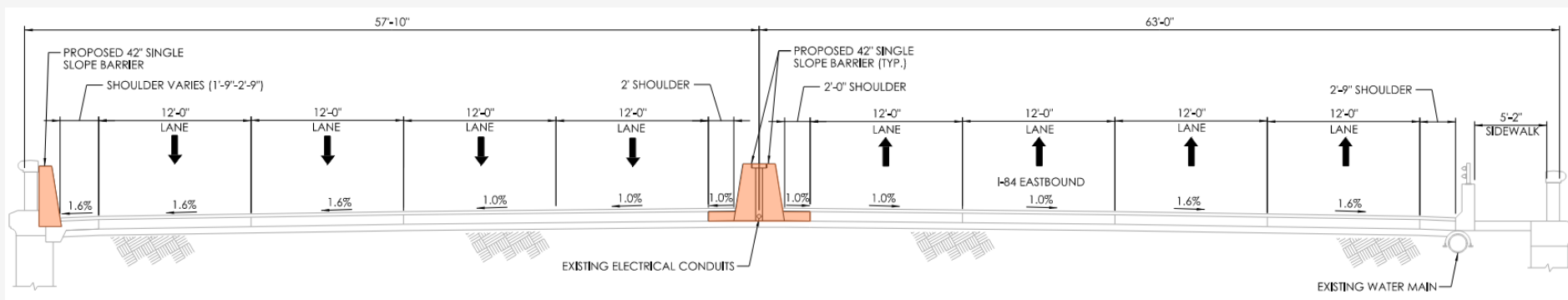


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Plan View - East



Cross Section



North
Fascia

South
Fascia



Environmental Impacts and Anticipated Permits

ENVIRONMENTAL RESOURCES:

- Connecticut River is a Tidal River System
- Located within an NDDDB area (December 2023)
- Endangered species: Northern Long-Eared Bat & Monarch Butterfly (no critical habitats are identified)
- Not within an Aquifer Protection area

ENVIRONMENTAL IMPACTS:

- Temporary and permanent wetland impacts are not anticipated.
 - Impacts will be further analyzed during final design

ANTICIPATED PERMITS:

- CTDOT Flood Management Certification (General)
- USCG Construction Letter
- USACE Section 404 PCN
- USACE Section 408 (levee)
- CT DEEP Certificate of Permission
- CT DEEP Boating Marker Permit

*Coordination with DEEP Fisheries ongoing; OEP to coordinate with NMFS and NOAA EFH/ESA



Anticipated Project Impacts – R.O.W. & Utilities

Right-of-Way

- Temporary construction easements for access to CT River



Utility Impacts

- Electric & Illumination

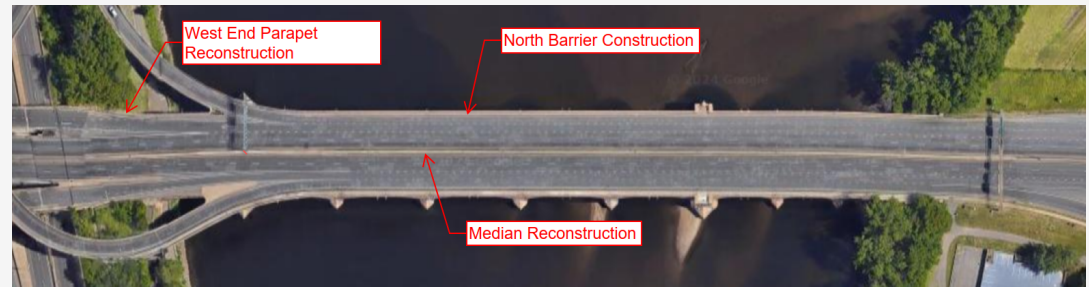


Anticipated Project Impacts – Traffic

CHA will perform a Regional Traffic Management Plan (TMP) to better understand and reduce the Traffic Impacts as much as possible.

Median Reconstruction Phase:

- Short-term shoulder and adjacent lane closures
- Duration: Approximately 6 months



North Barrier Construction Phase:

- Long-term closure (North shoulder & adjacent lane)
- Duration: Approximately 9 months
- Short-term ramp closures are anticipated when construction is being performed at both ends of the bridge.

West End Parapet Reconstruction Phase:

- Short-term shoulder and adjacent lane closure
- Duration: Approximately 2 months



Anticipated Project Impacts – Traffic (Cont.)

Replace Wearing Surface and Repair Concrete Pavement Phase:

- Daily/Long term lane closures with traffic drums (night work)
- Short-term off-peak ramp closures
- Duration: Approximately 4-6 months

Arch and Pier Repairs Phase:

- Work performed below the bridge with minimal traffic impacts.
- Will require access from embankments to river.
- Long term areas will be partitioned off for construction access.



Rehabilitation // Bridge No. 00980A // State Project No. 0063-0734

Anticipated Project Impacts – Pedestrian / Bicycle

Pedestrian / Bicycle Accommodations

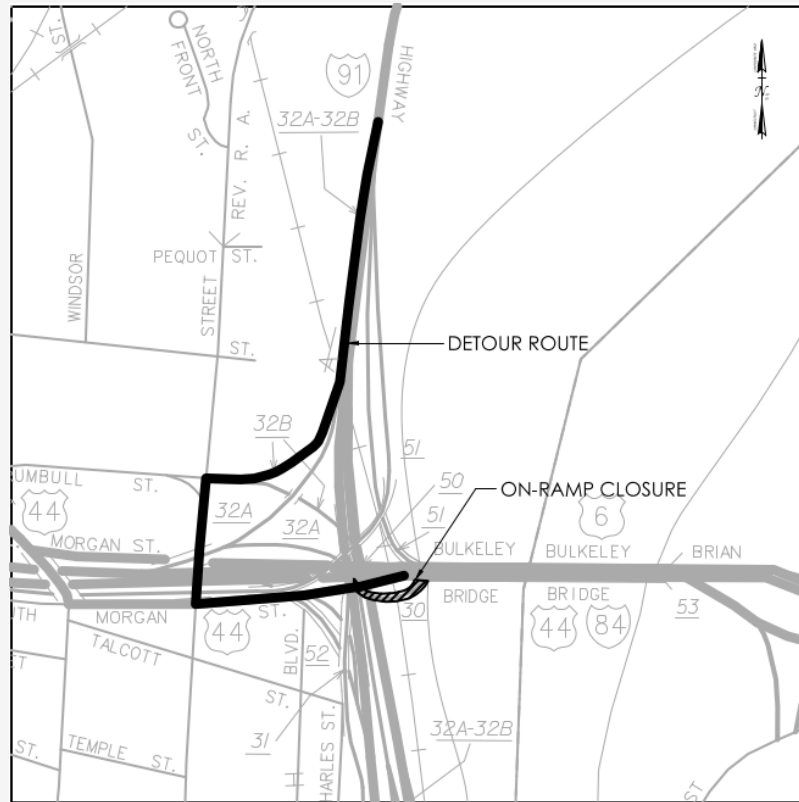
- Not identified as a route on the “On-Road Bicycle Planning Network”
- Bridge Preservation Project
 - No Significant Improvements are Recommended for Bicycles or pedestrians
- The Hartford Riverwalk is a constructed Statewide Multiuse Trail which runs beneath Bridge No. 00980A

Pedestrian / Bicycle Impacts

- Sidewalk over bridge will be closed to pedestrians during repair and cleaning operations across the bridge.
- Signed detour using the Founders Bridge will be in place.



I-91 Southbound Exit 30 Detour (I-91 SB to I-84 EB)

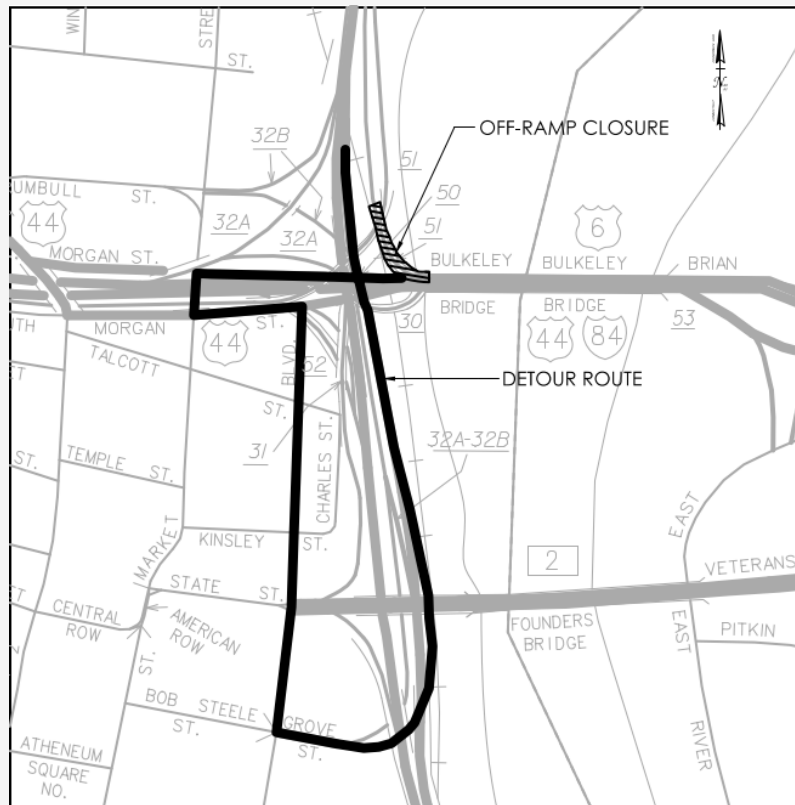


Detour Route:

- Exit 32B
- Market Street
- I-91 SB
- Morgan Street
- I-84 EB Ramp



I-84 Westbound Exit 51 Detour (I-84 WB to I-91 NB)

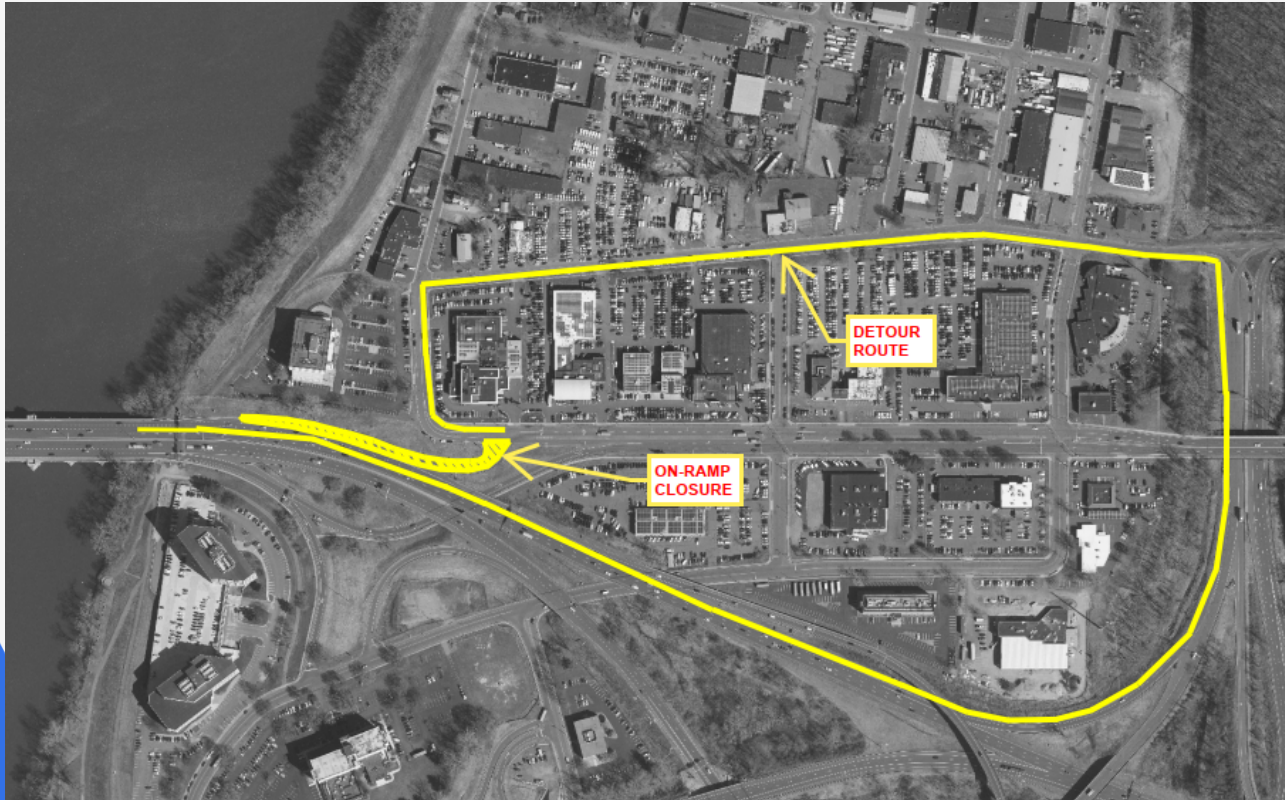


Detour Route:

- Exit 50
- Market Street
- Talcott Street
- Columbus Blvd
- Grove Street
- I-91 NB Ramp



I-84 Westbound Exit 51 Detour (I-84 WB to I-91 NB)

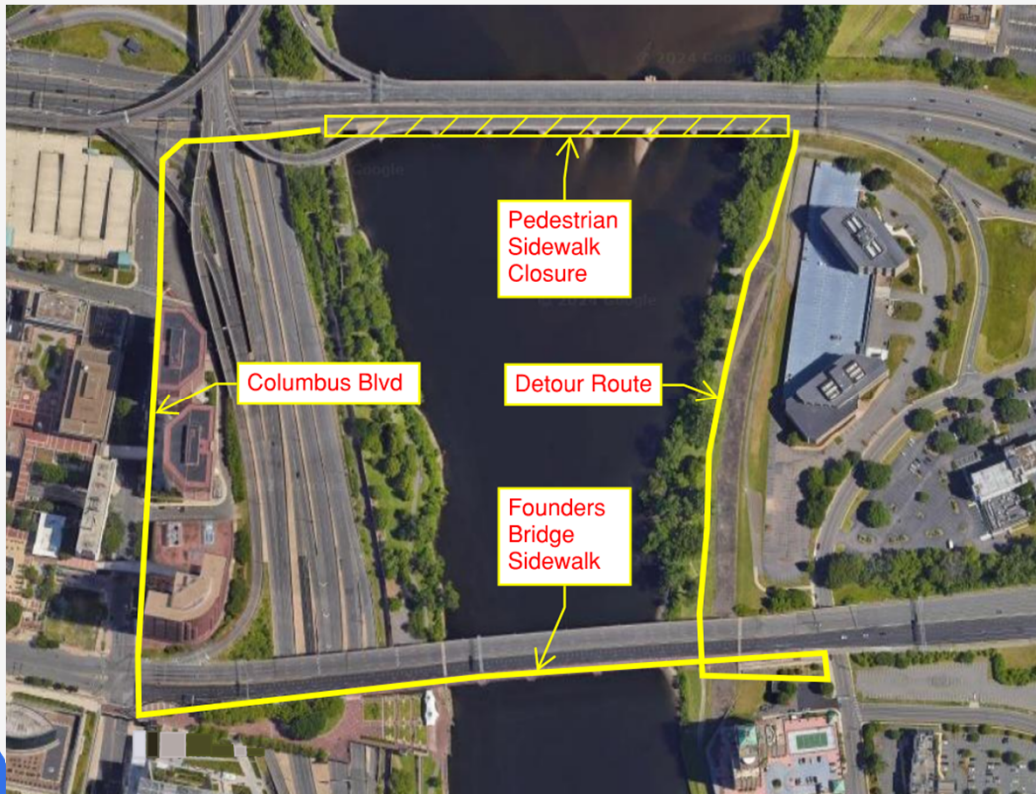


Detour Route:

- Connecticut Blvd
- Village Street
- Governor Street
- I-84 WB Ramp



I-84 Westbound Exit 51 Detour (I-84 WB to I-91 NB)



Detour Route:

- River walk (East Hartford)
- Founders Bridge
- Columbus Blvd

Schedule and Construction Cost

Schedule

Advertising for Construction (ADV) – Fall 2025

Start of Construction – Spring 2027

Preliminary Anticipated Construction Duration = 3 years

Estimated Construction Cost

Total Estimated Construction Cost = \$23,900,000

10% State & 90% Federal Funds

No Town Funds Required

The cost and schedule are preliminary and are subject to change.



THANK YOU FOR YOUR TIME.



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Question & Answer Session



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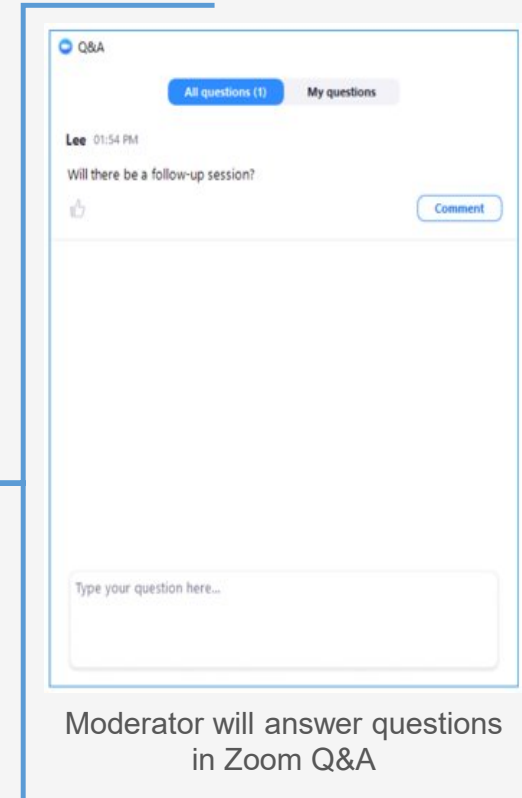


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