

### Notice of MassDOT's policy on diversity and civil rights

- All MassDOT activities, including public meetings, are free of discrimination.
- MassDOT complies with all federal and state civil rights requirements preventing discrimination based on sex, race, color, ancestry, national origin (limited English proficiency), religion, creed, gender, sexual orientation, gender identity or expression, or veteran's status.
- We welcome the diversity from across our entire service area. If you have any questions or concerns, please visit <a href="https://www.mass.gov/nondiscrimination-in-transportation-program">https://www.mass.gov/nondiscrimination-in-transportation-program</a> to reach the Office of Diversity and Civil Rights.

Thank you for joining our meeting. We appreciate your participation!



### **Public Outreach**

The public meeting was noticed in the following local newspapers:

- Salem News
  - English, Albanian, Portuguese & Spanish
  - Ran on February 26
- Herald Citizen
  - English
  - Ran on February 29
- El Planeta
  - Spanish
  - Ran on February 26

### The meeting flyer was distributed to:

- Homes, businesses, and neighborhood associations abutting the bridge
- Beverly municipal staff
- Beverly Council on Aging, Public Library, Post Office, and grocery stores









### **Meeting Participants**

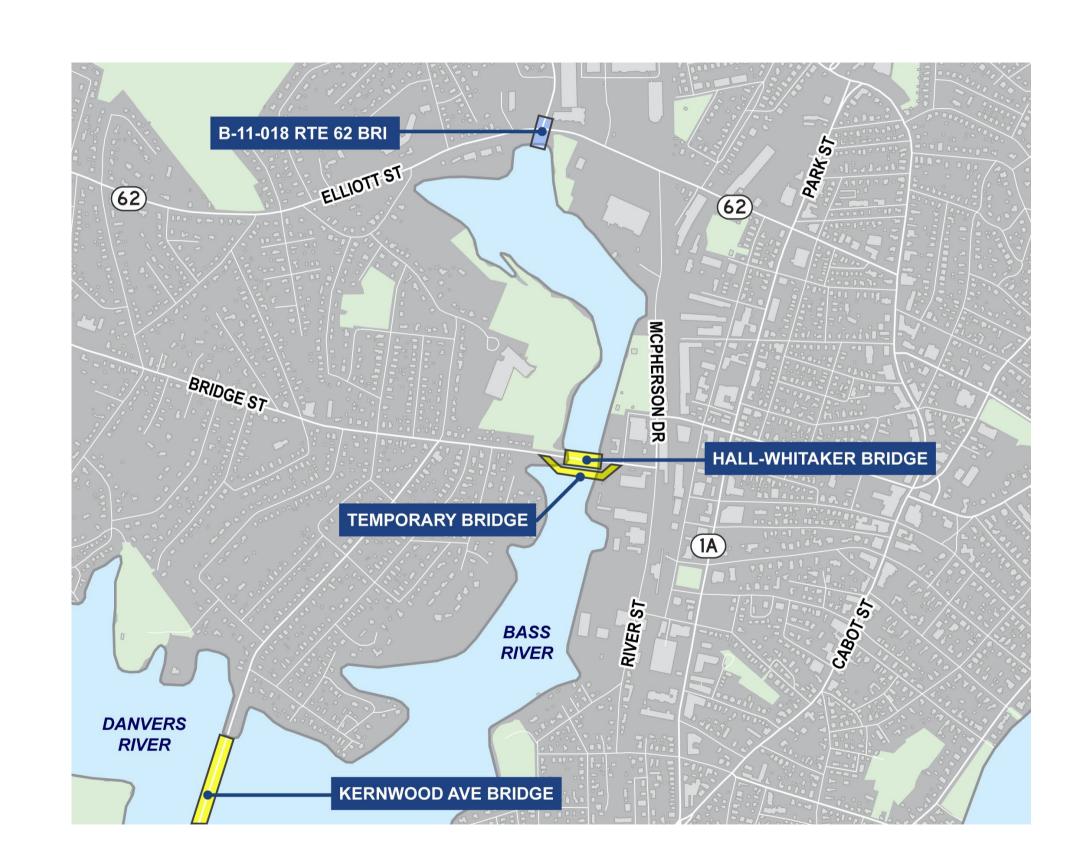
- City of Beverly
  - Mayor Michael P. Cahill
- MassDOT Highway Division
  - Paul Stedman, District 4 Highway Director
  - Robert Antico, Project Manager
  - Michael Ruderman, ROW
- MassDOT Design Consultant, VHB
  - Nick Scenna, Design Manager
  - Meredith Avery, Environmental Scientist

- MassDOT Public Outreach Consultant
  - Howard Stein Hudson
- MassDOT Stenographer Consultant
  - Advanced Court Reporters, LLC



### **Agenda**

- Project Background
- Project Need
- Program Objective
- Design Alternatives Analysis
- Preferred Design Alternative
- Property Impacts
- Bicycle and Pedestrian Accommodations
- Environmental, Cultural Resource, and Community Impacts
- Construction Approach
- Vehicular Impacts
- Next Steps
- Public Outreach
- Questions and Discussion





### How did we get here?

June

2022

Hall-Whitaker Closed to Vehicular Traffic

Summer

2022

Conceptual Design Development & Coordination

**October** 

2022

Public Information Meeting #1

Winter

2023

Design Development Coordination & Investigations

June

2023

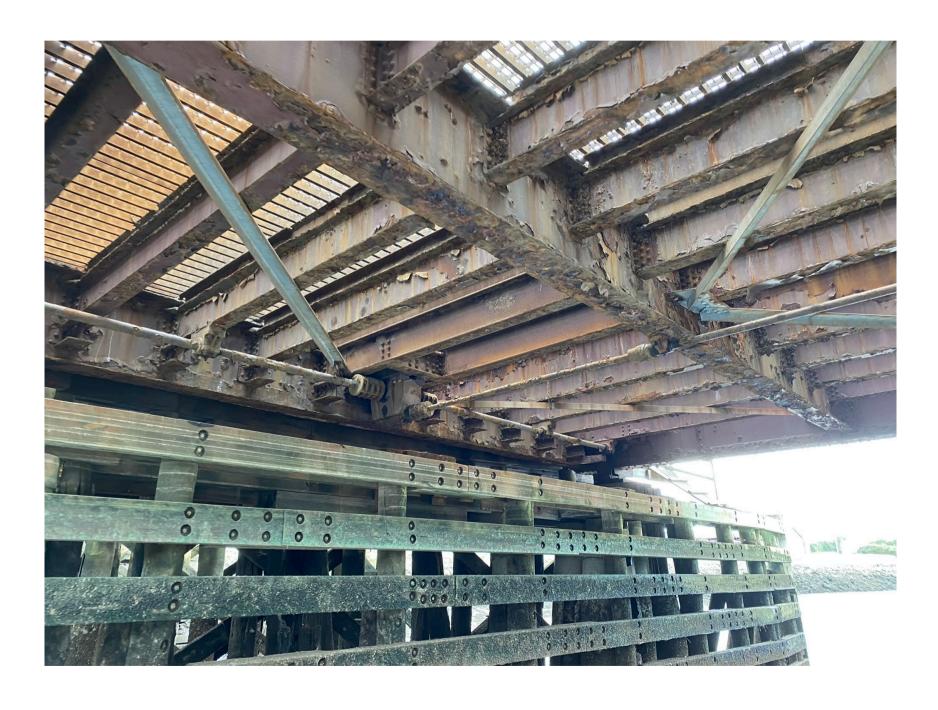
Public Information Meeting #2





# Why was this project initiated?

### Hall-Whitaker Drawbridge Closure



#### **Recommendation:**

Bridge closure to vehicular traffic.

#### From the State Bridge Engineer:

The bridge is beyond its useful life and the extent of deterioration and necessary repairs eliminates this bridge as a candidate for repair or reconstruction and warrants a full replacement.





# What do we want to accomplish?

## **Program Objective**

- 1. Provide a reliable travel route between the Ryal Side neighborhood and downtown Beverly.
- 2. As quickly as practicable, safely restore vehicular traffic to Bridge Street; while continuing Kernwood Bridge maintenance.
- 3. Full bridge replacement of the Hall-Whitaker and Kernwood Avenue Bridges.







# What alternatives were considered?

### Conceptual Design Development Alternatives

- 1. Existing Bridge Rehabilitation
- 2. Permanent Movable Bridge Replacement
- 3. Temporary Movable Prefabricated Bridge
- 4. Temporary Fixed Prefabricated Bridge

#### Other Considerations...

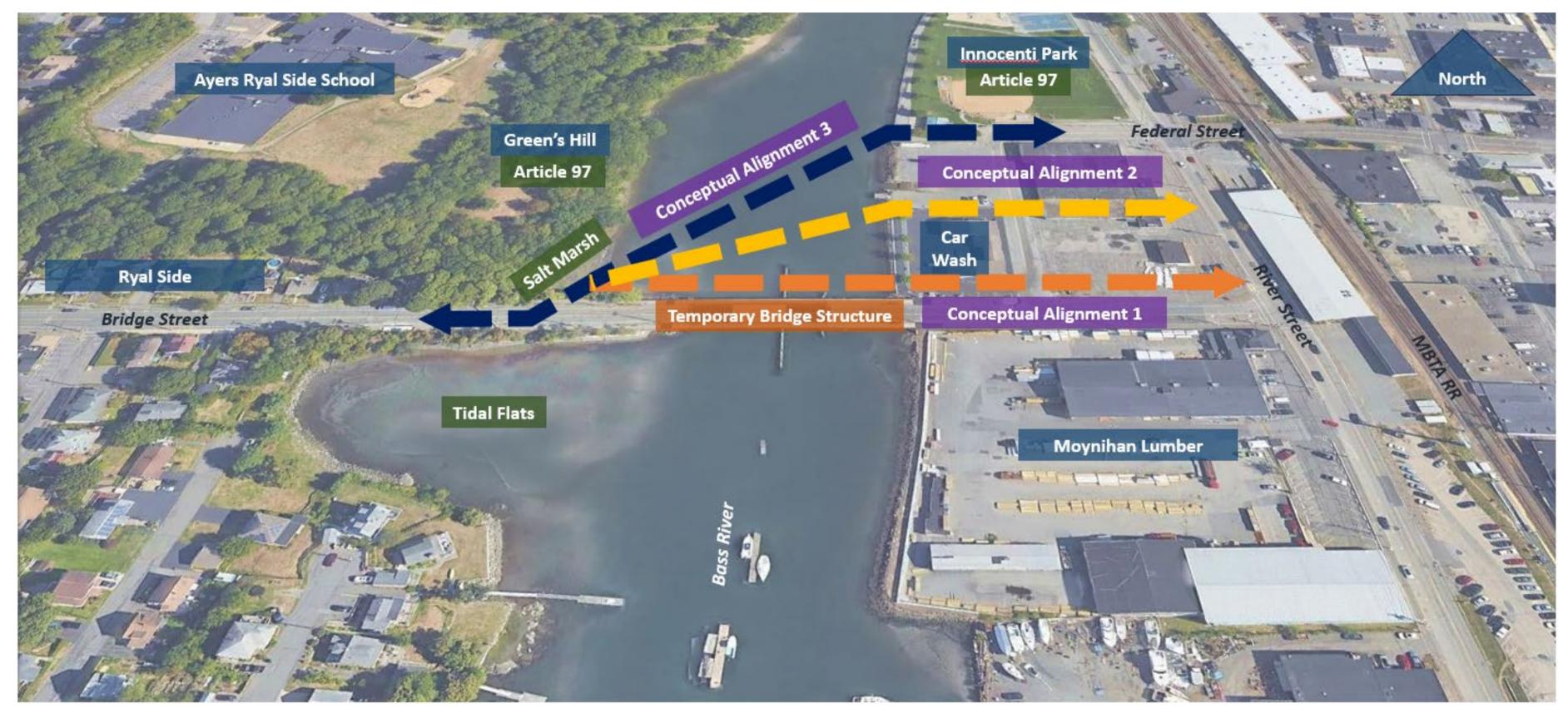
- Roadway Alignment
- Roadway Profile / Vertical Clearance at Navigational Channel
- Roadway Cross Section
- Utility Maintenance
- Foundation Types
- Maintenance of Traffic
- Private Property Impacts
- Cultural Resource Area Impacts
- Construction Sequence



Temporary Fixed Prefabricated Bridge

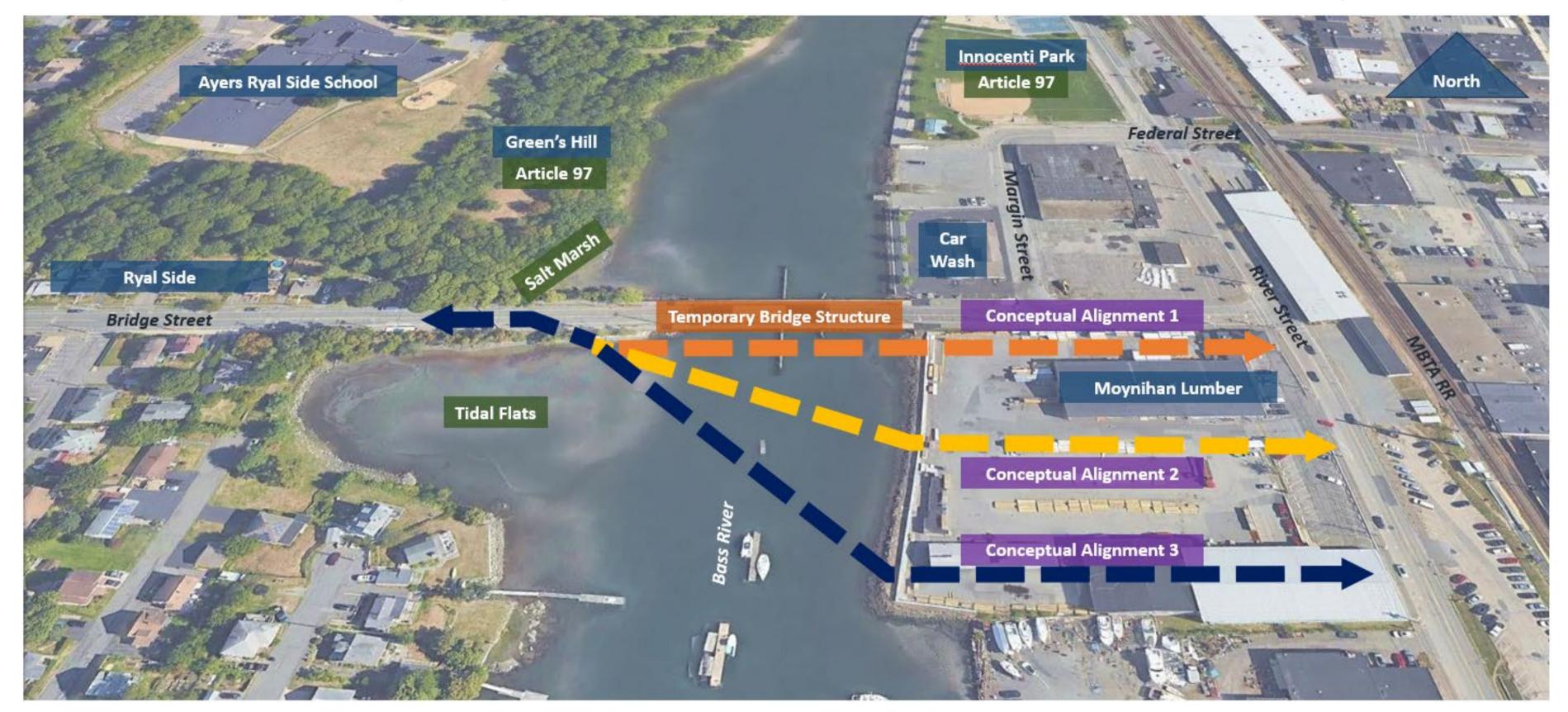


### Temp on Existing Alignment / Permanent on Northern Alignment



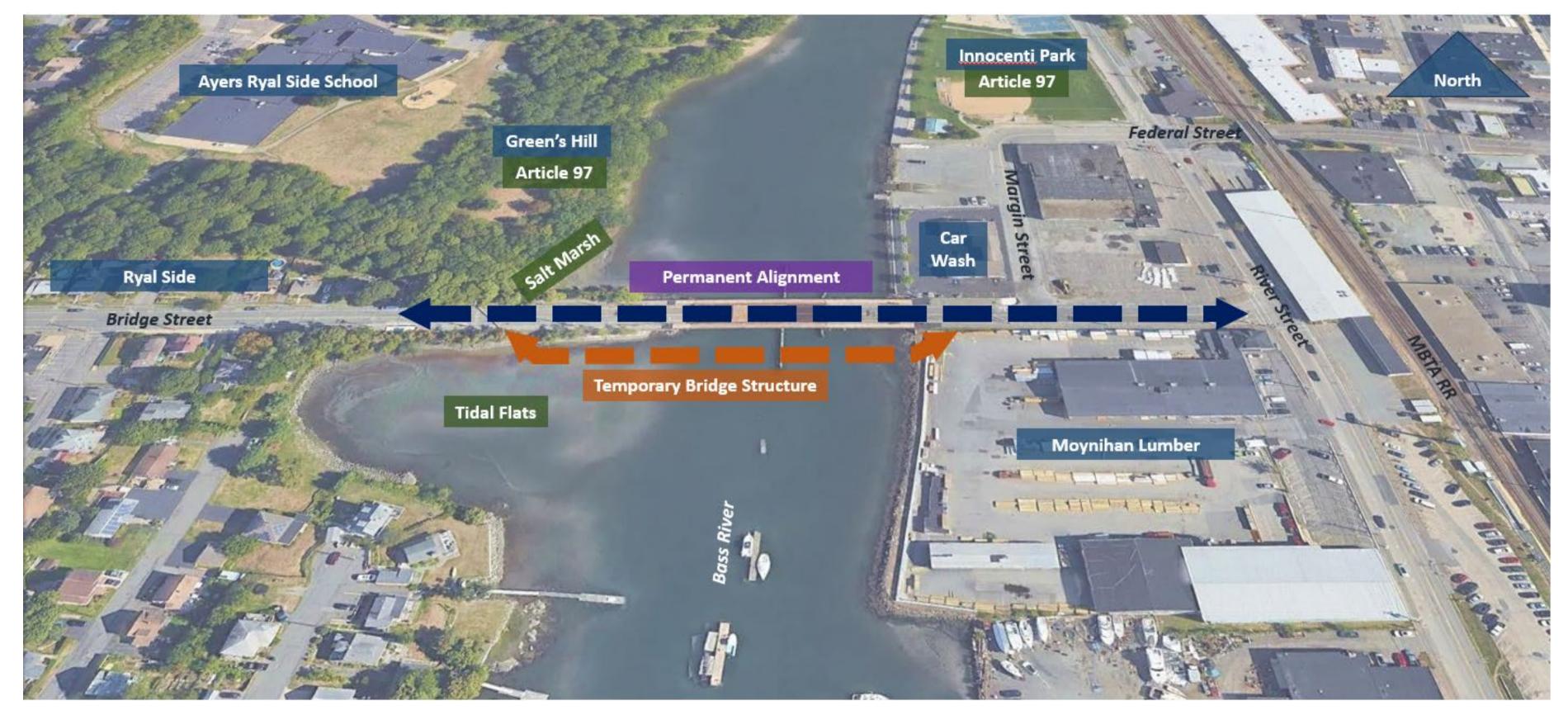


### Temp on Existing Alignment / Permanent on Southern Alignment



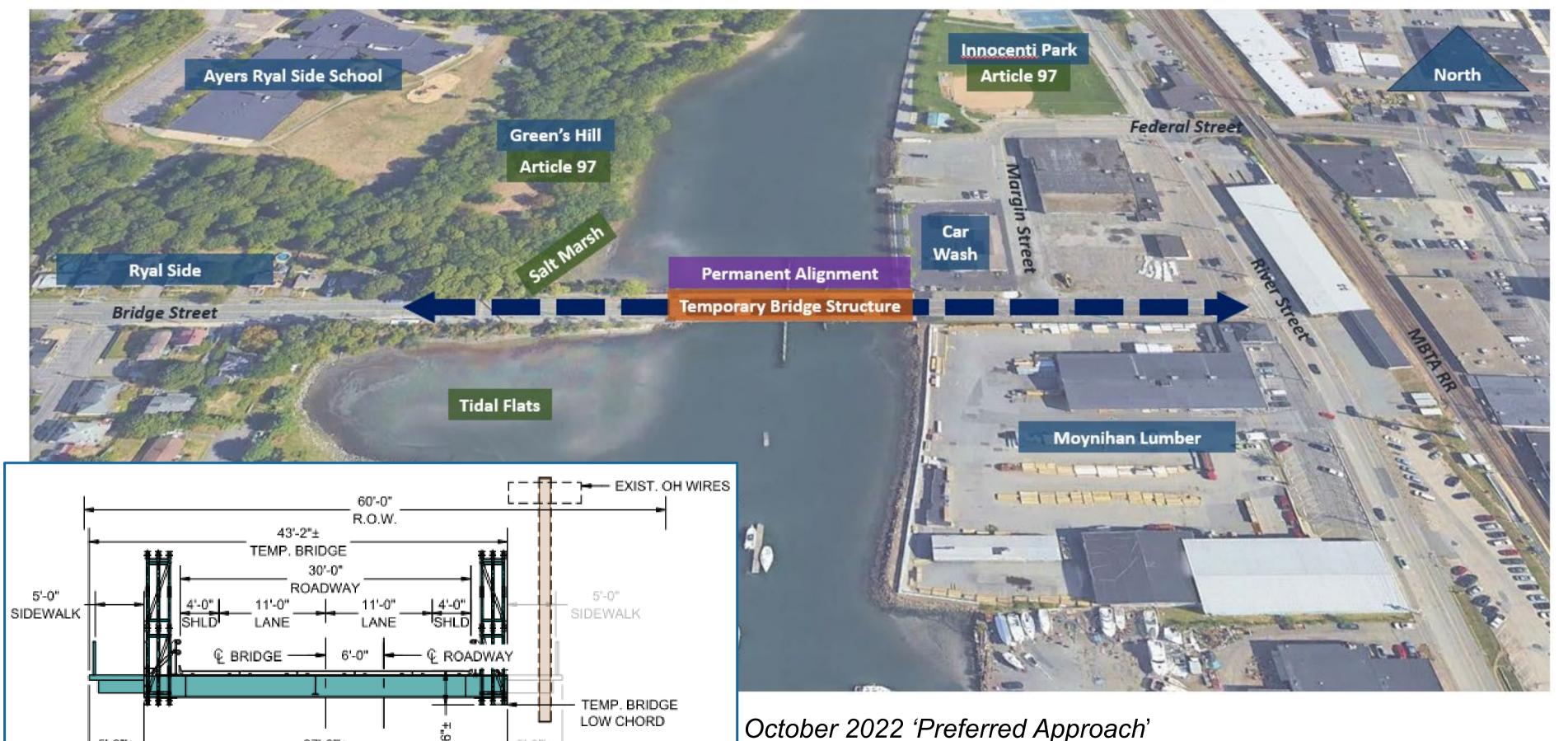


### Temp on Parallel Alignment / Permanent on Existing Alignment





### Temp on Existing Alignment / Permanent on Existing Alignment

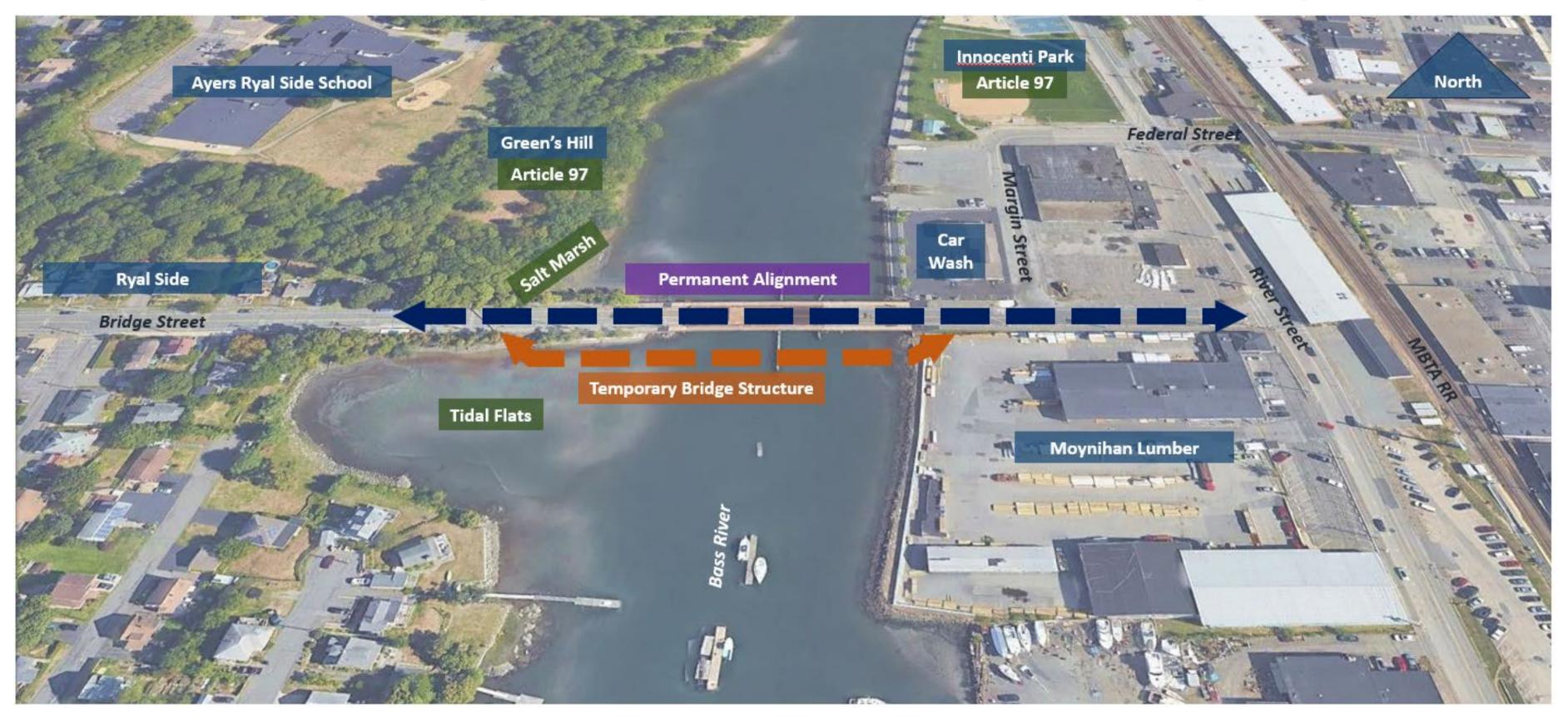


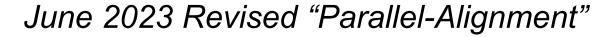
Massachusetts Department of Transportation
Highway Division



# What is the preferred alternative?

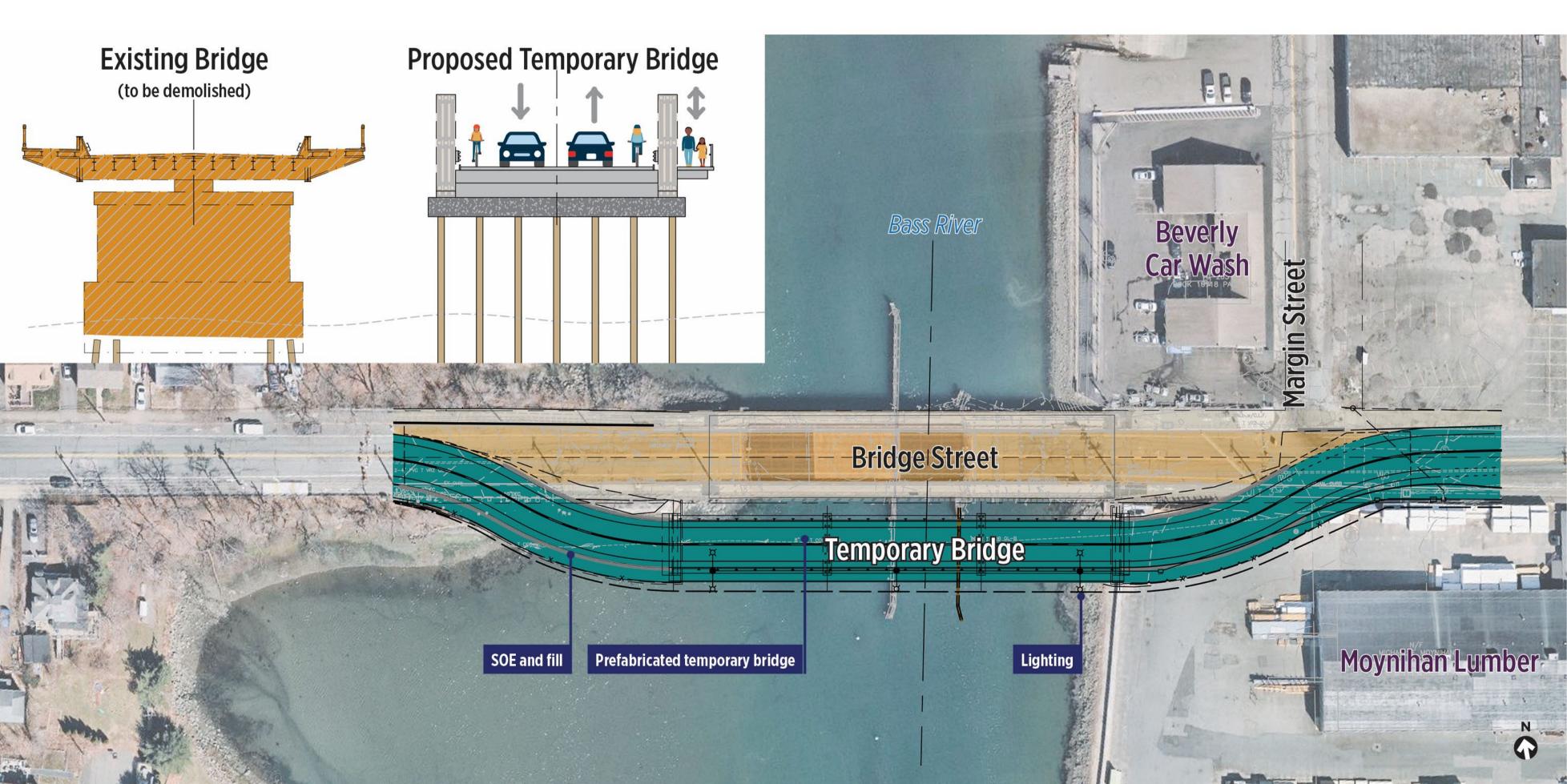
### Temp on Parallel Alignment / Permanent on Existing Alignment







### Revised "Parallel-Alignment" – current approach



### Benefits of Revised "Parallel Alignment"

- Maintains Bridge Street vehicular passage on the temporary bridge from temporary bridge opening to removal without future long-term interruption
- Maintains pedestrian and bicycle access throughout temporary and permanent bridge construction
- Allows new Bridge Street bridge to be constructed simultaneously with Kernwood (reducing overall program schedule)

### **Additional Challenges**

- Maintains Bridge Street vehicular passage on the temporary bridge from temporary bridge opening to removal without future long-term interruption
- Maintains pedestrian and bicycle access throughout temporary and permanent bridge construction
- Allows new Bridge Street bridge to be constructed simultaneously with Kernwood (reducing overall program schedule)

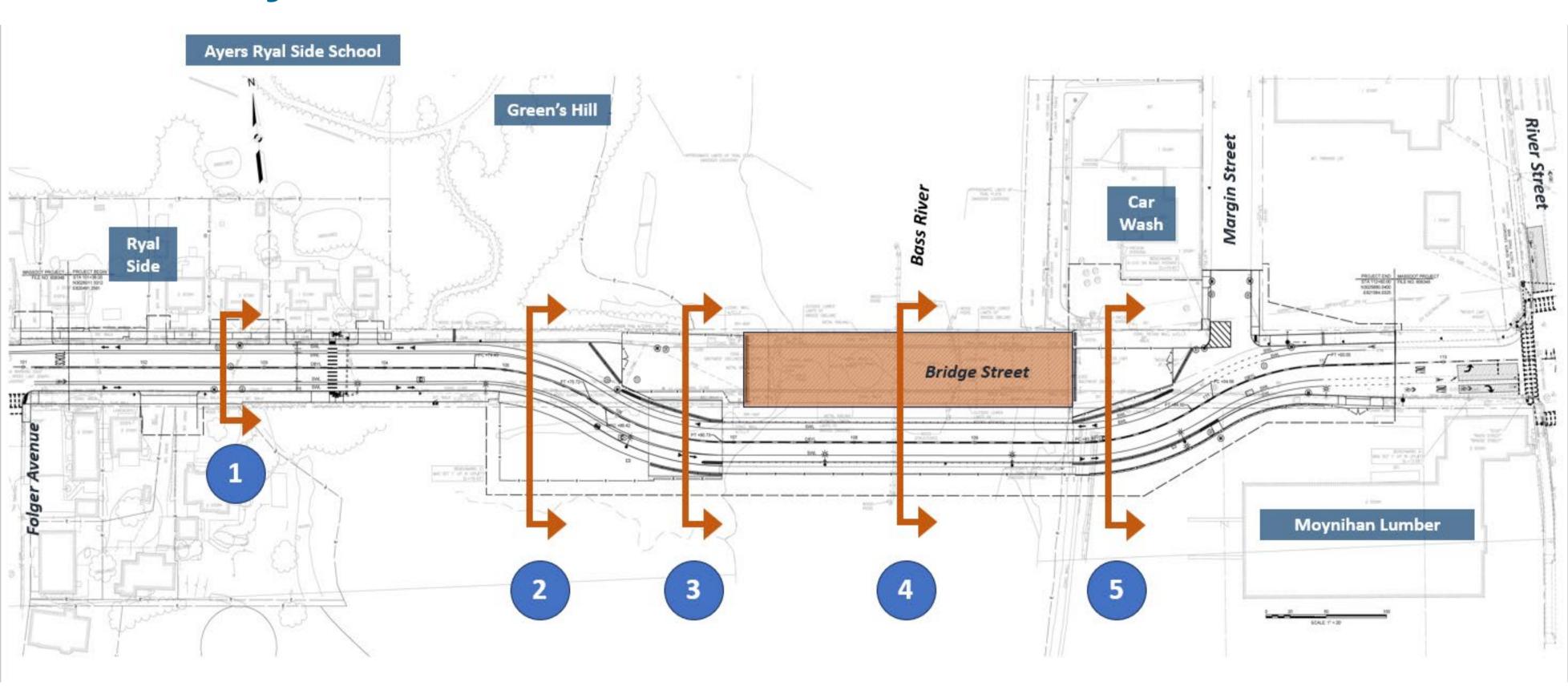




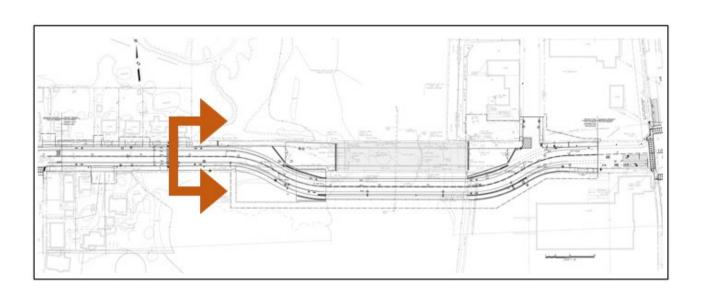
### **Approximate Project Limits**

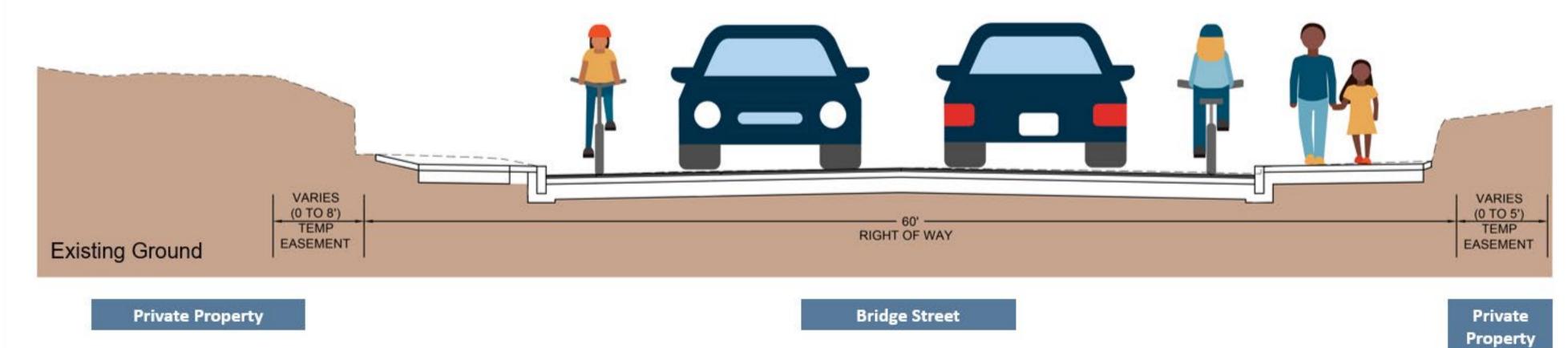








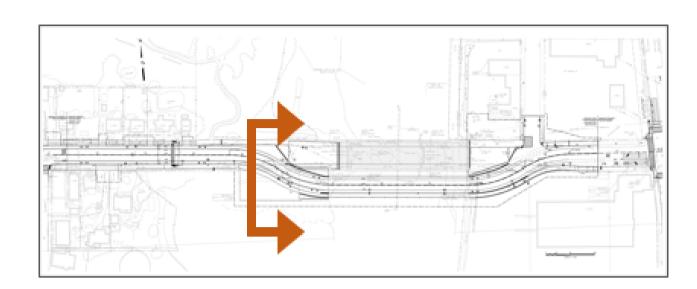


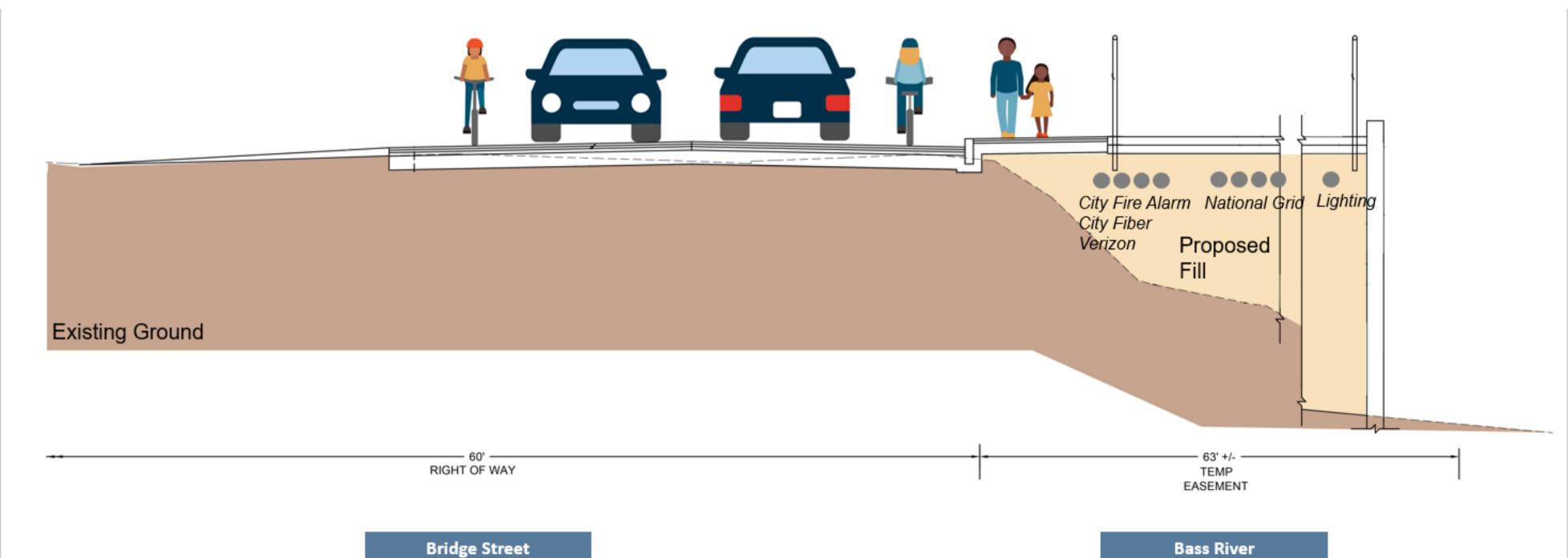






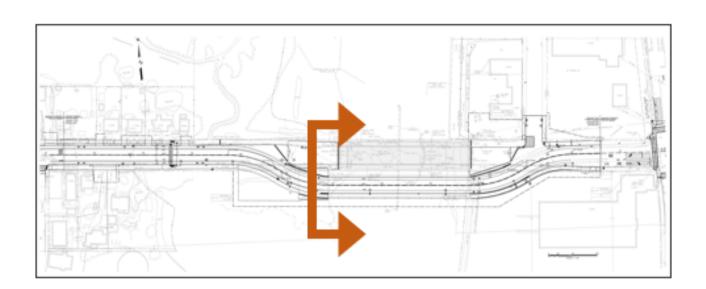


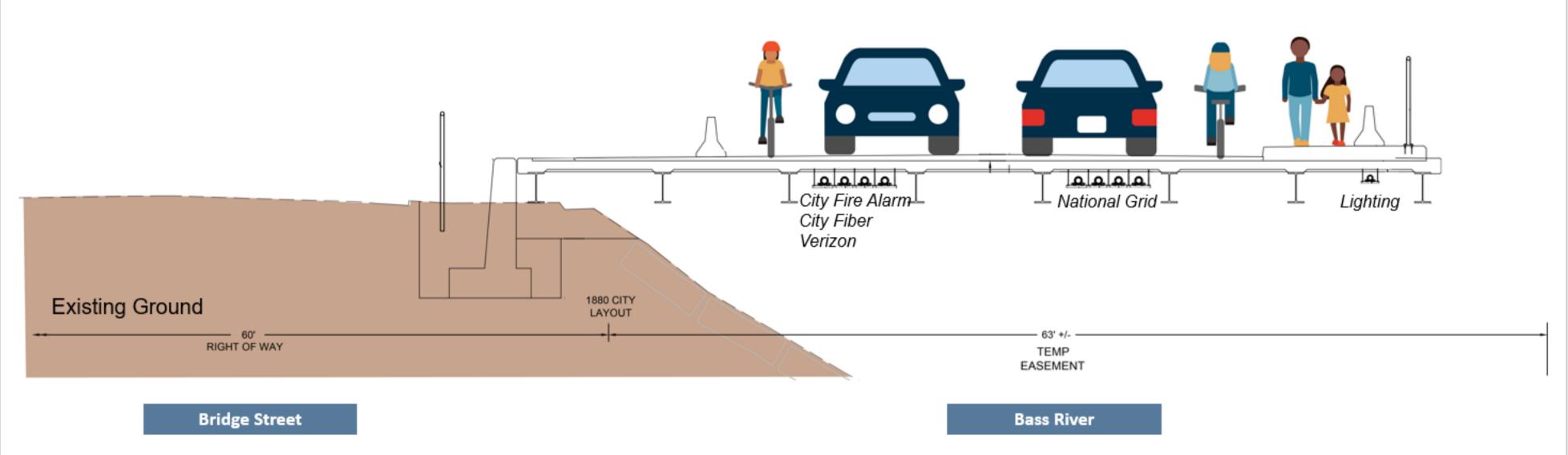




Massachusetts Department of Transportation
Highway Division

### **Bridge Cross Section - 3**



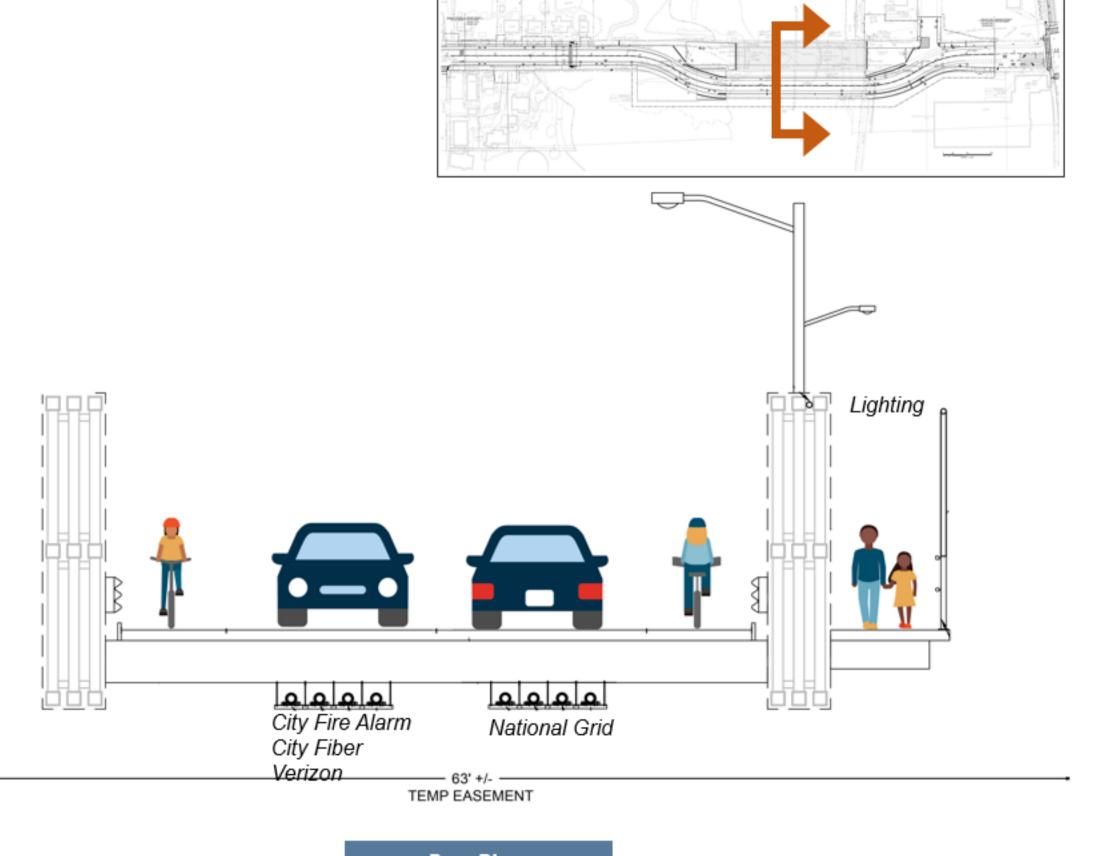




1874 COUNTY

LAYOUT

### **Bridge Cross Section - 4**



Bridge Street over Bass River

RIGHT OF WAY

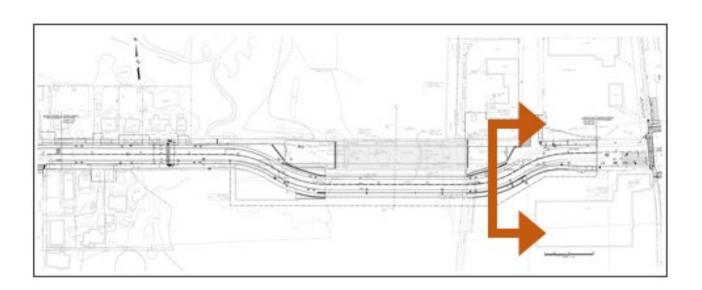
EXIST BRIDGE SURFACE

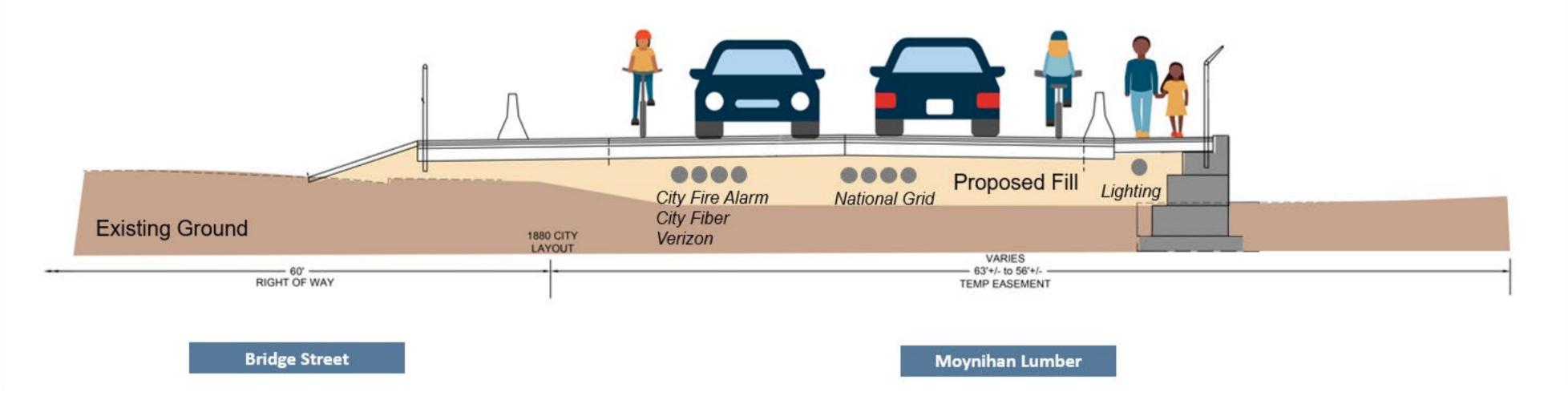
**Bass River** 















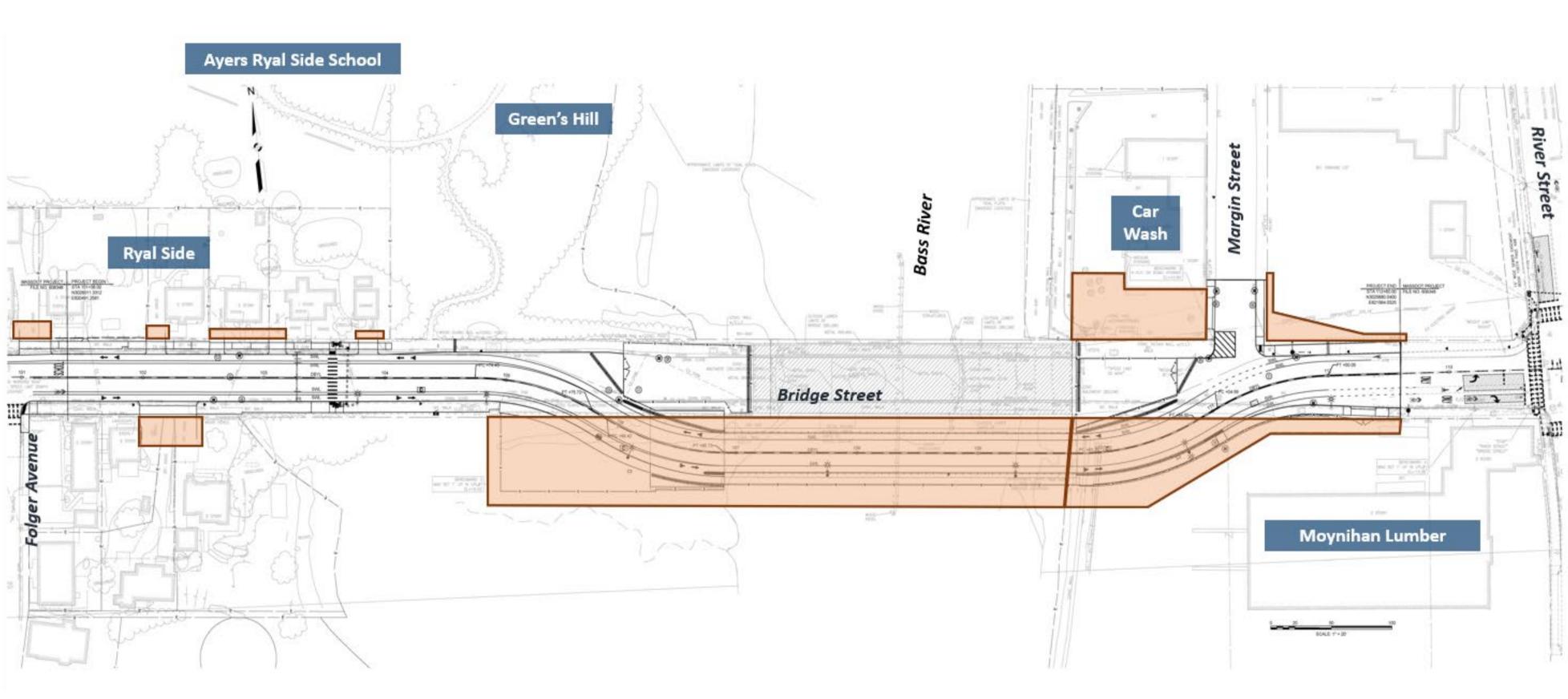
If my property is impacted...

### Right of Way (ROW) discussion – 25% Design

- Responsible for acquiring all necessary rights in public land for design, construction, and implementation of a project.
- Affected property owners will be contacted by personnel from the ROW Bureau or consultants representing MassDOT.
- Procedures must comply with state and federal regulations governing the acquisition process.
  - Property owners are protected under Massachusetts General Laws, primarily Chapter 79.
  - If project receives federal funds, property owners are further protected under Title III of the Real Property Act of 1970, as amended.
- Fee takings, permanent easements, and/or temporary construction easements may be required.



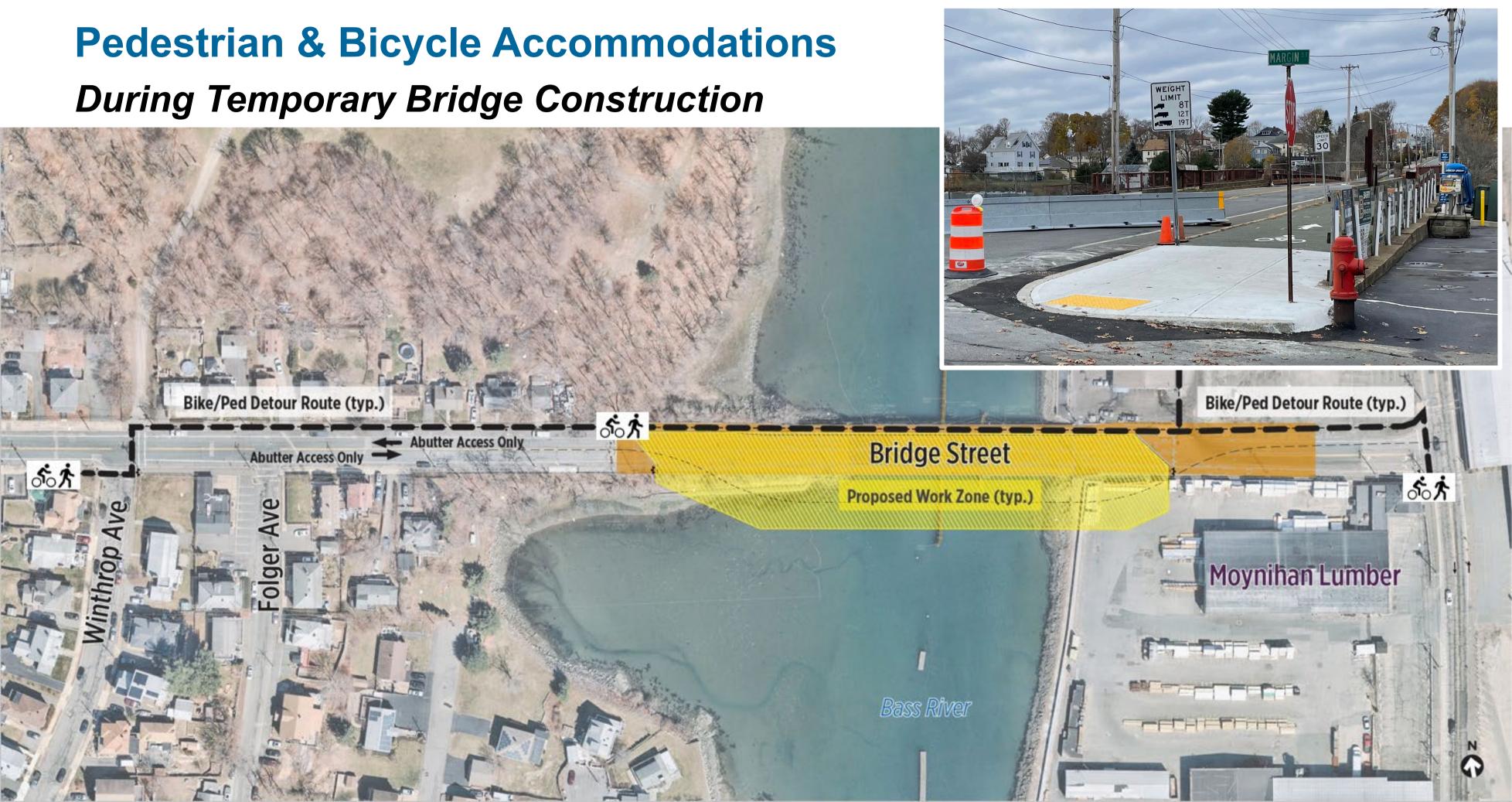
### **Preliminary ROW - Temporary Easements**



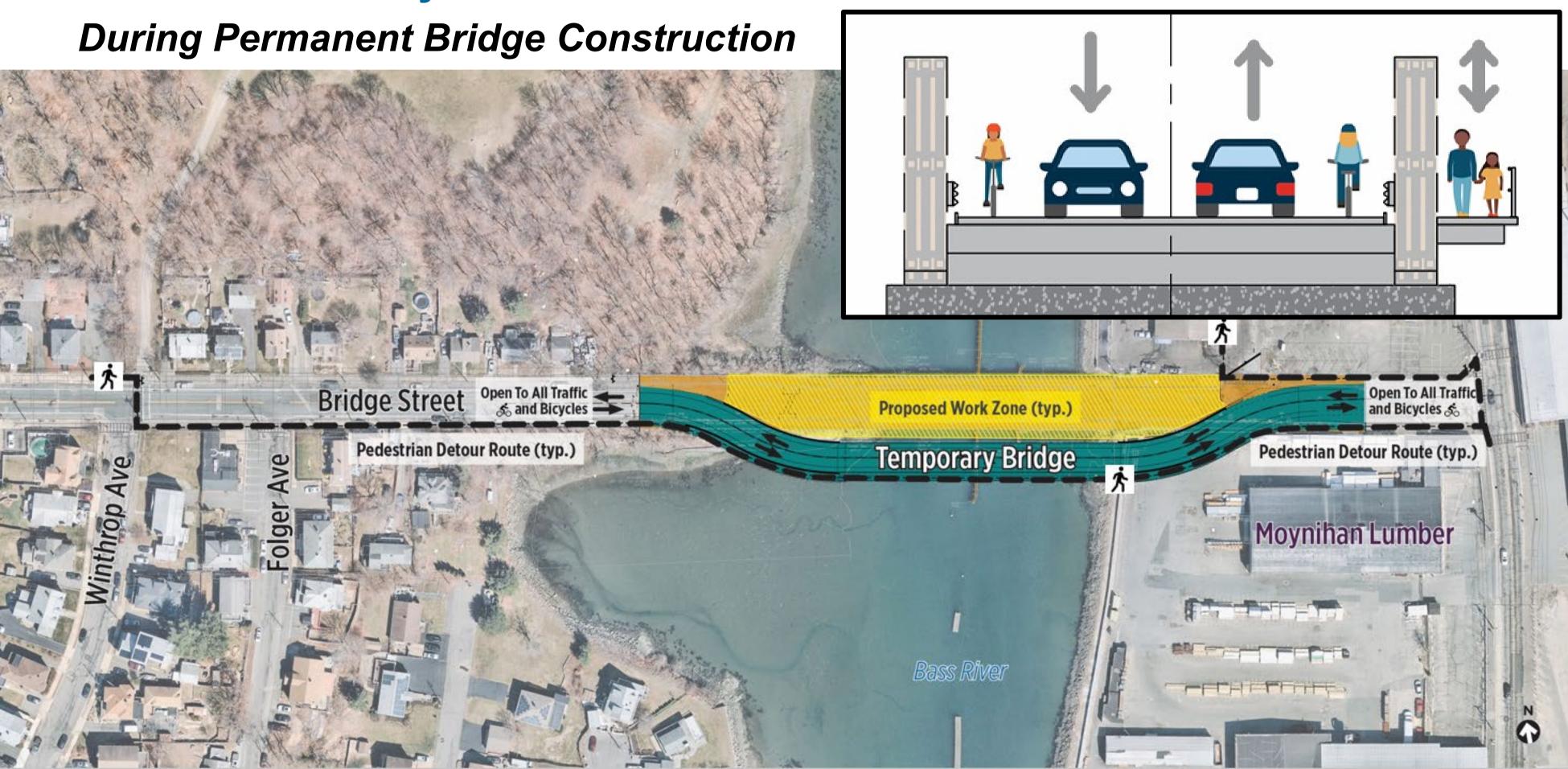




How will bicyclists and pedestrians be impacted?



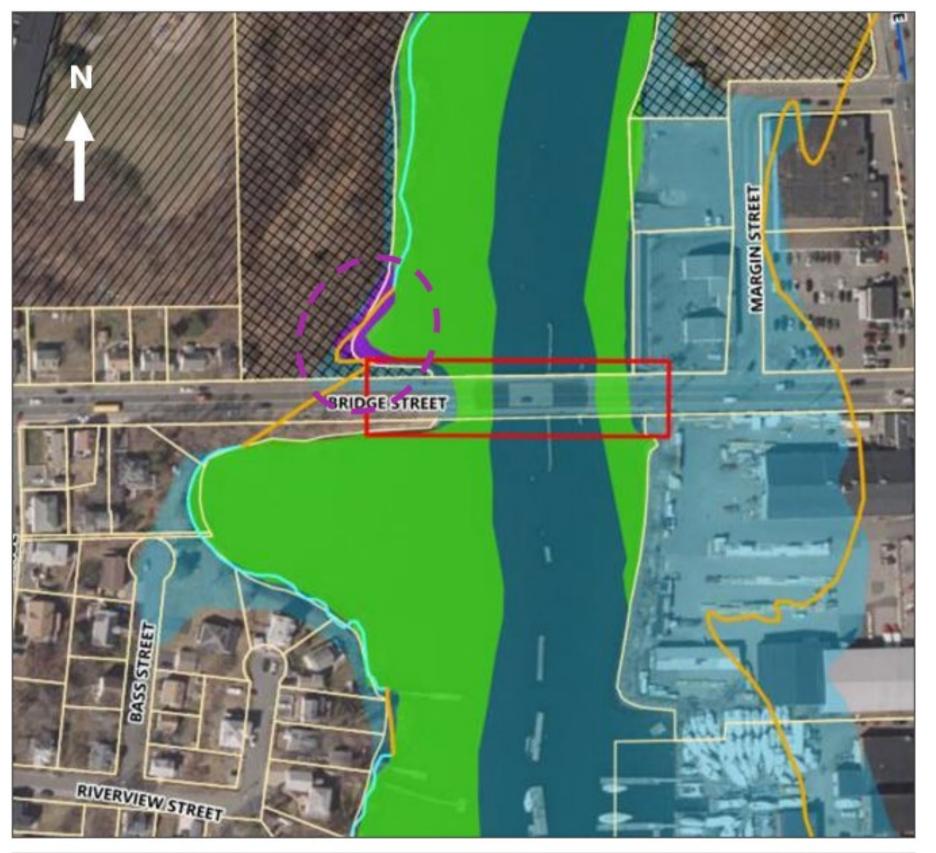
### Pedestrian & Bicycle Accommodations



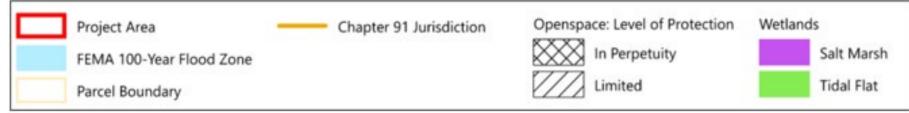


What are the environmental, cultural resource, and community impacts?

### **Bridge Street – Resource Areas**

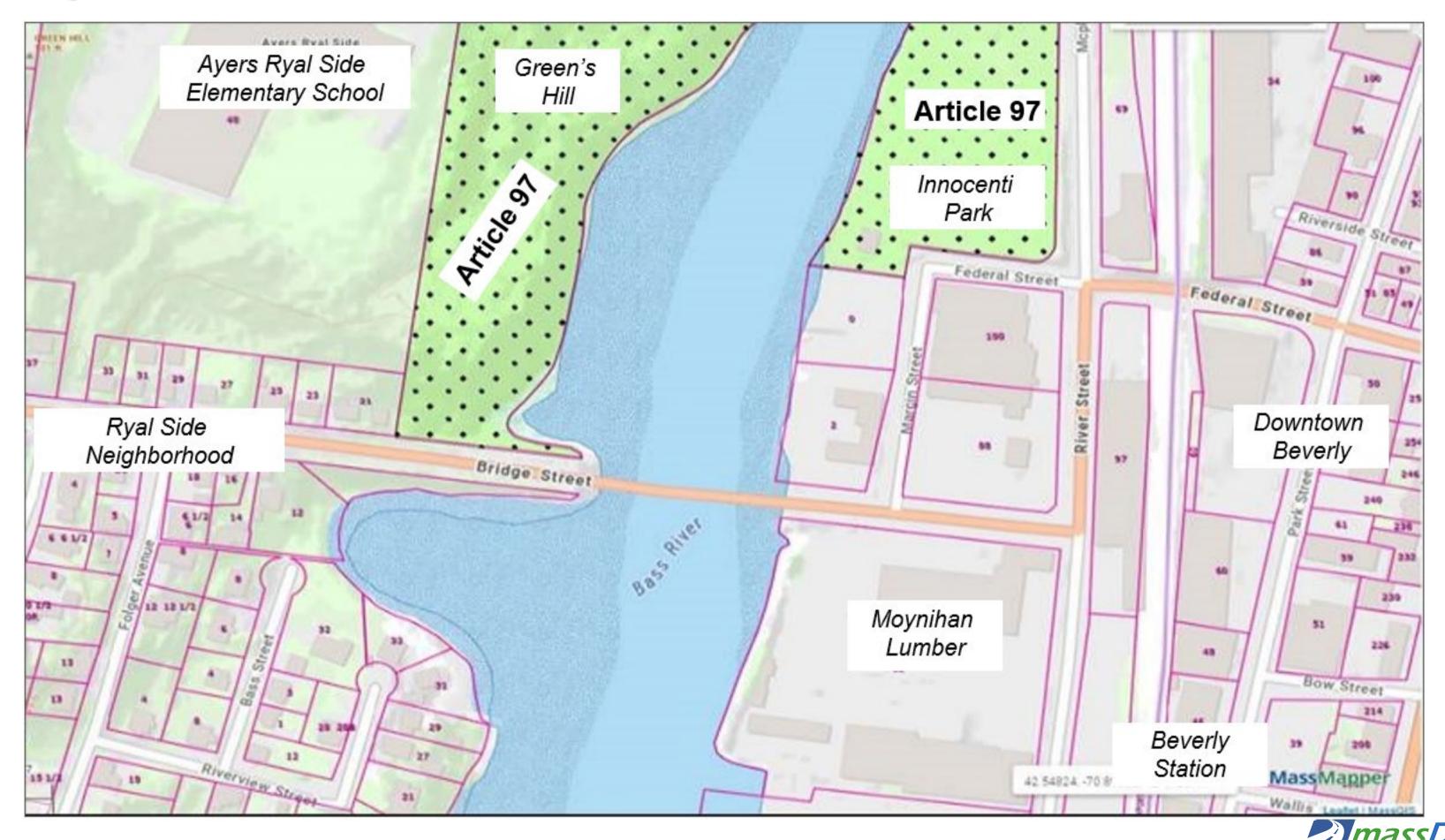




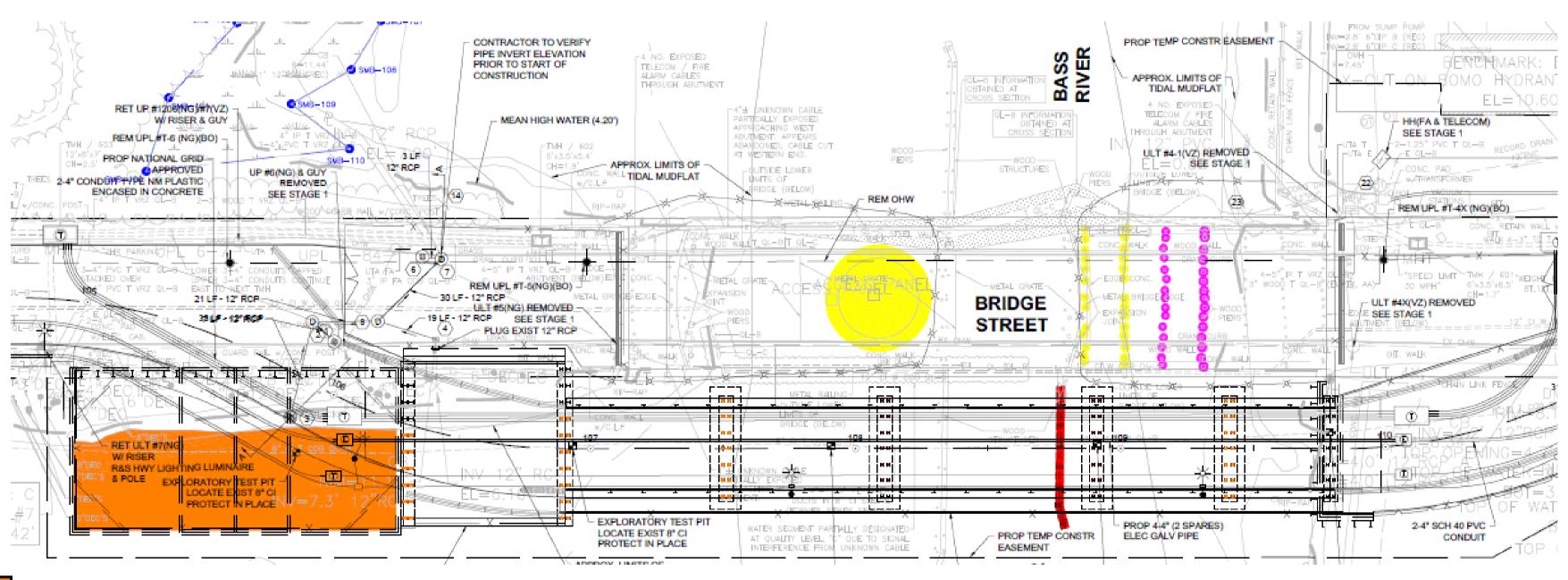




### Bridge Street – Article 97 Public Lands



### **Environmental Resource Area Impacts**



- TEMPORARY FILL WITHIN MUD FLATS
- BRIDGE DEMOLITION & DREDGE WITHIN MUD FLAT
- BRIDGE DEMOLITION & DREDGE WITHIN WATERS OF THE U.S.
- TEMPORARY IMPACT TO WATERS OF THE U.S.



### **Ongoing Agency Coordination**

- MassDEP
- US Army Corps of Engineers (USACE)
- US Coast Guard (USCG)
- NOAA/ National Marine Fisheries Services (MFS)
- US Fish & Wildlife
- Massachusetts Division of Marine Fisheries (DMF)
- US Environmental Protection Agency (EPA)
- Section 106 Historic

Not Required

Bridge Exemptions (Mass Transportation Bond Bill)

401 Water Quality Certification
Section 404 Precon Notification (joint file w/401)
PNCD, UCSG Bridge Permit
Section 7 Endangered Species Act (Benthic Analysis)
Section 7 Endangered Species Act

National Environmental Policy Act (NEPA)
Categorical Exclusion (CE)
Environmental Assessment (EA)
Environmental Impact Statement (EIS)

Massachusetts Environmental Policy Act (MEPA)
Massachusetts Public Waterfront Act (Chapter 91)
Massachusetts Wetlands Protection Act (WPA)



### **Agency Coordination - Status**

#### Temp Bridge Coordination Meetings

8/31/2023 Site visit with USACE and DEP

1/18/2024 NOAA- Section 7/EFH Coordination-Meeting

2/1/2024 USCG Coordination Meeting

2/5/2024 DMF Pre-Filing Coordination Meeting

3/11/2024 Pre-filing Coordination Meeting with DEP/USACE

#### Clearances/Review Status

Section 106 Cleared Stip VB 6/8/2023

Section 7 USFWS (NLEB) Pending

Section 7/EFH NOAA Coordination Ongoing (Draft EFH Worksheet and Consultation)

DMF Review Coordination Initiated

Section 401 WQC Draft to DEP Pending

Section 404 PCN Draft to USACE Pending

US Coast Guard Application Ongoing- Review and Clearance to follow 404 Approval



## Time of Year Restrictions – MDF, NMFS, USFW for silt producing activities in water

Time of Year Restriction	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC
Bass River – Bridge Street  March 15 through June 30 and from Sept 15 to Oct 30		<b>S.</b>			111			<b>S.</b>			R	
Department of Marine Fisheries lists Bass River as a spawning and habitat for American Eel (Anguilla rostrata)			<b>'</b>			l						

#### Danvers River - Kernwood Avenue

February 15 to November 15

Department of Marine Fisheries lists Danvers River / Beverly Harbor as a spawning and habitat for Winter Flounder (Pseudopleuronectes americanus)







Administered by the Massachusetts Division of Marine Fisheries (MDF), with review by National Marine Fisheries Services (NMFS), and US Fish & Wildlife (USFW)



### **Hazardous Materials Approach**

- Historical and Current Land Uses
- Potential Sources of Contamination
- Available Project Subsurface Data
- Boring Program Soil Sampling & Testing
- Proper Soil Handling, Testing, Disposal, and/or Re-Use
- Dewatering and Groundwater Management
- Summarized in EECC Hazardous Materials Memo





# What is the construction approach?



North Washington Street Bridge, City of Boston, Acrow.com

### **Construction Challenges**

- Maintaining access for residents, school, businesses, and navigation
- Maintenance and protection of cultural resource areas
- Maintenance, protection, and relocation of utilities
- Construction, assembly, and demolition in and over water









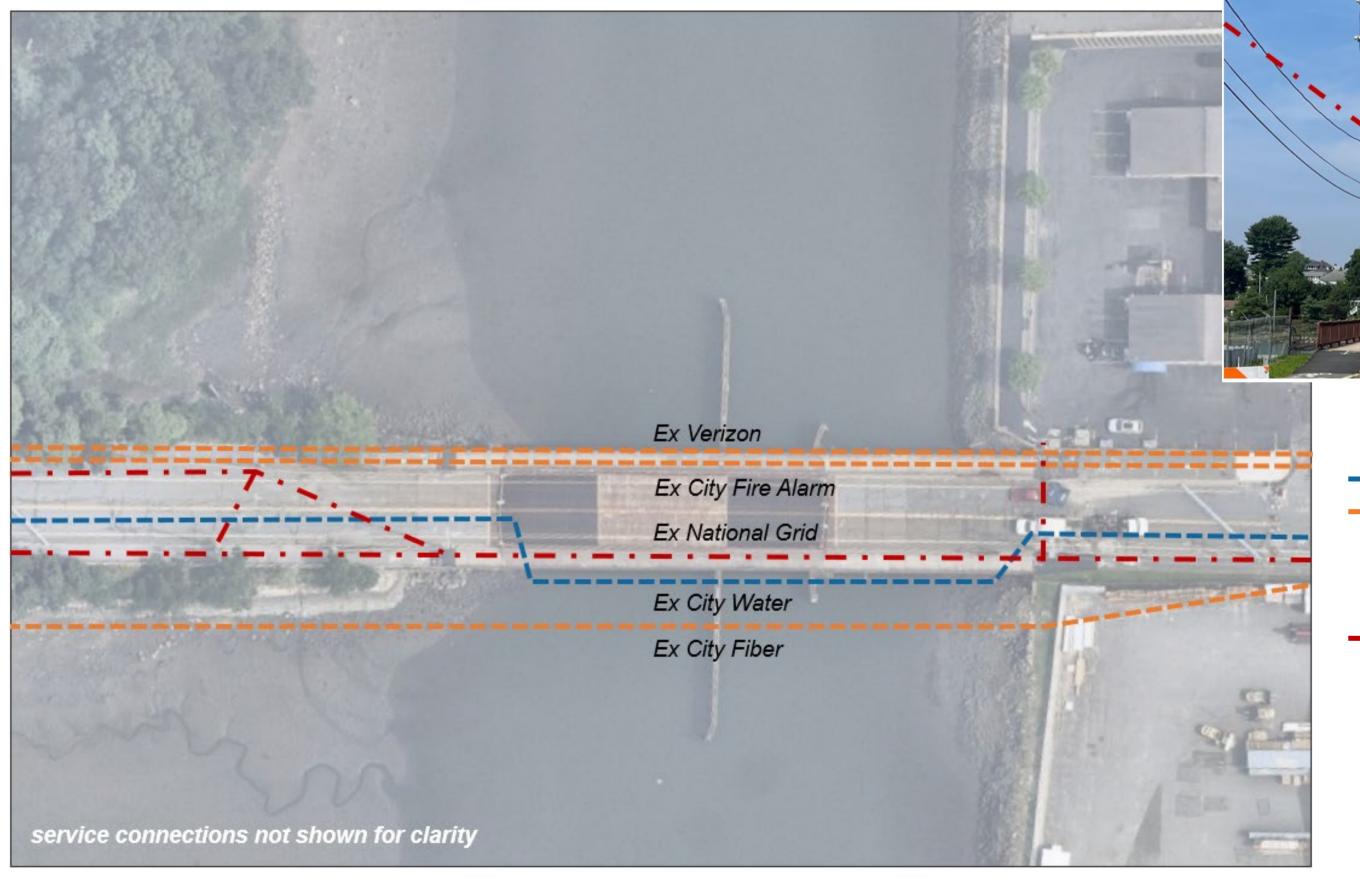








**Utility Relocations – Existing Condition** 





--- EX WATER - City

--- EX TELECOM - Verizon, City Fire Alarm, City Fiber

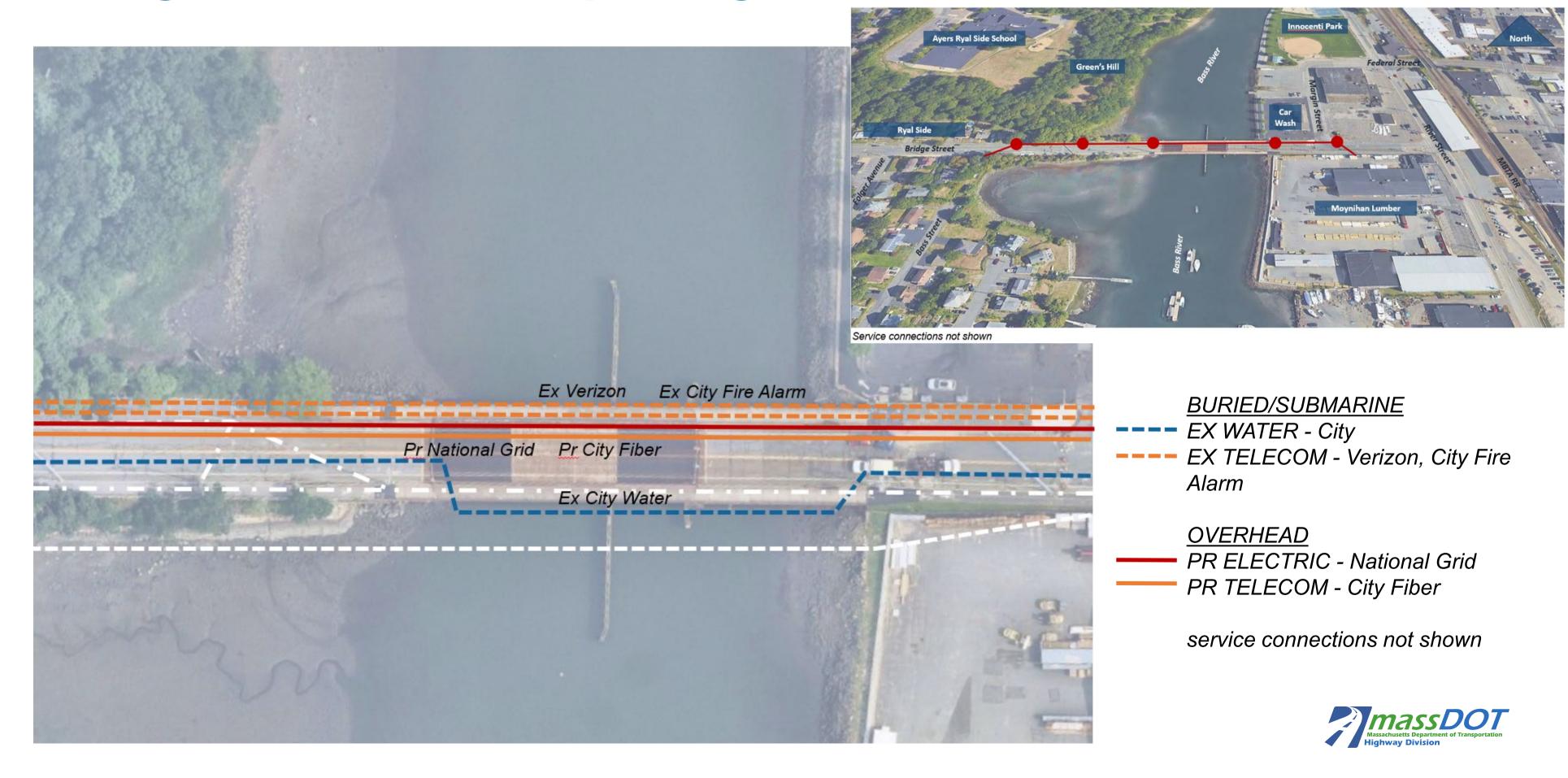
<u>OVERHEAD</u>

- EX ELECTRIC - National Grid

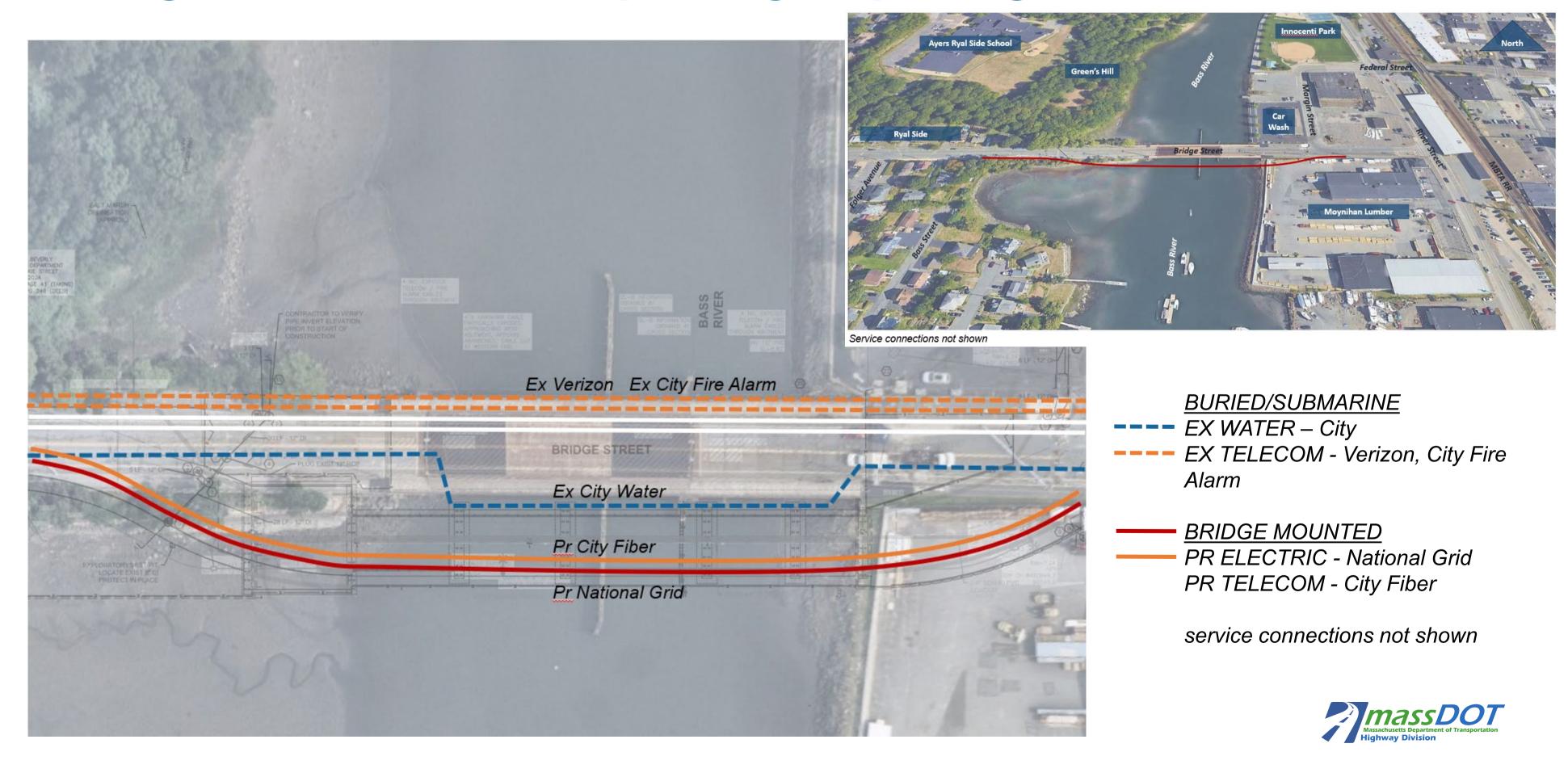
service connections not shown



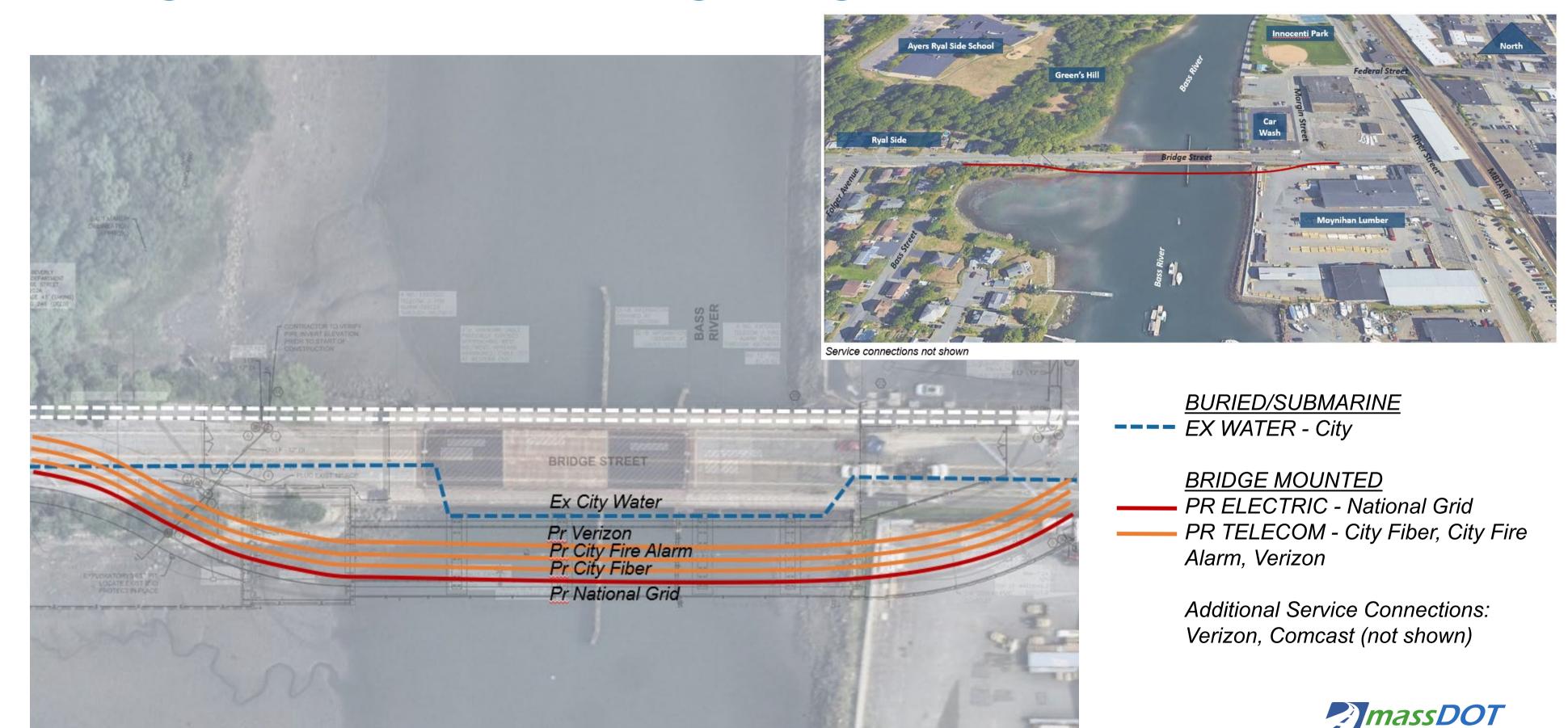
### Stage 1 - Prior to Temp Bridge Construction



### Stage 2A - Prior to Temp Bridge Opening



### Stage 2B - Prior to Existing Bridge Demolition

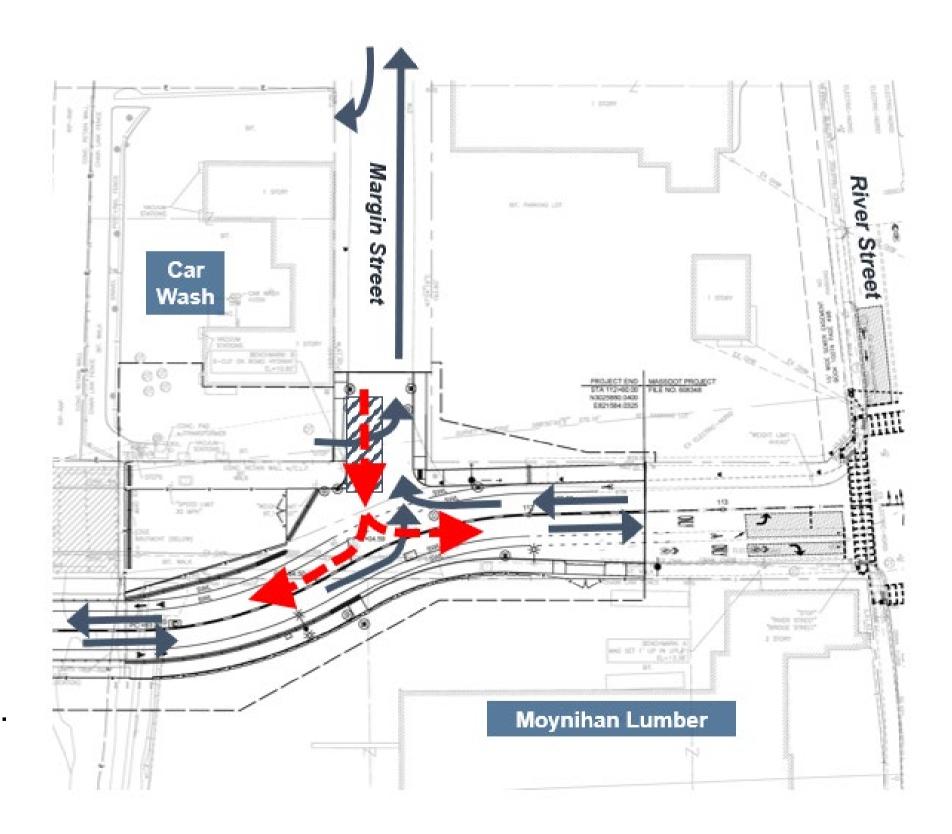




# How will the road user be affected?

### **Maintenance of Vehicular Traffic**

- Bridge Street
- Ped and bike maintained during construction of the temp bridge.
- ➤ Vehicular traffic will continue to use the current bridge closure detour during construction of the temp bridge.
- Following the opening of temp bridge, ped, bike, and vehicular traffic will be fully restored.
- Margin Street
- ➤ Vehicular access southbound onto Bridge Street will be prohibited following opening of the temp bridge (dashed red arrow) due to SSD.
- Access to the Car Wash will be maintained.
- Ped and bike access will be maintained during construction and following opening of the temp bridge.







Our next steps...

### Our next steps



25% Design Public Hearing



File Environmental Permits



Complete 75% Highway & Bridge Design



Final Design, Issue ENV Clearance, Issue ROW Certification



Bid Document & Advertise for Construction



### Temporary Bridge - Design Schedule

• 75% HWY R1, 1<sup>st</sup> Structural, Permit Submission Spring 2024

Design Reviews, Section 7 Approval, MassDEP Approval Summer 2024

PS&E Final Design, ACOE Approval, ROW Plan Acceptance Fall 2024

USCG Approval, ROW Certificate, Bid Docs
 Winter 2024/25

### Temporary Bridge - Construction Schedule

Advertise for Construction
 Spring 2025

Construction Notice to Proceed
 Late Summer 2025

Temporary Bridge Opening to Traffic
 Late Summer 2027\*

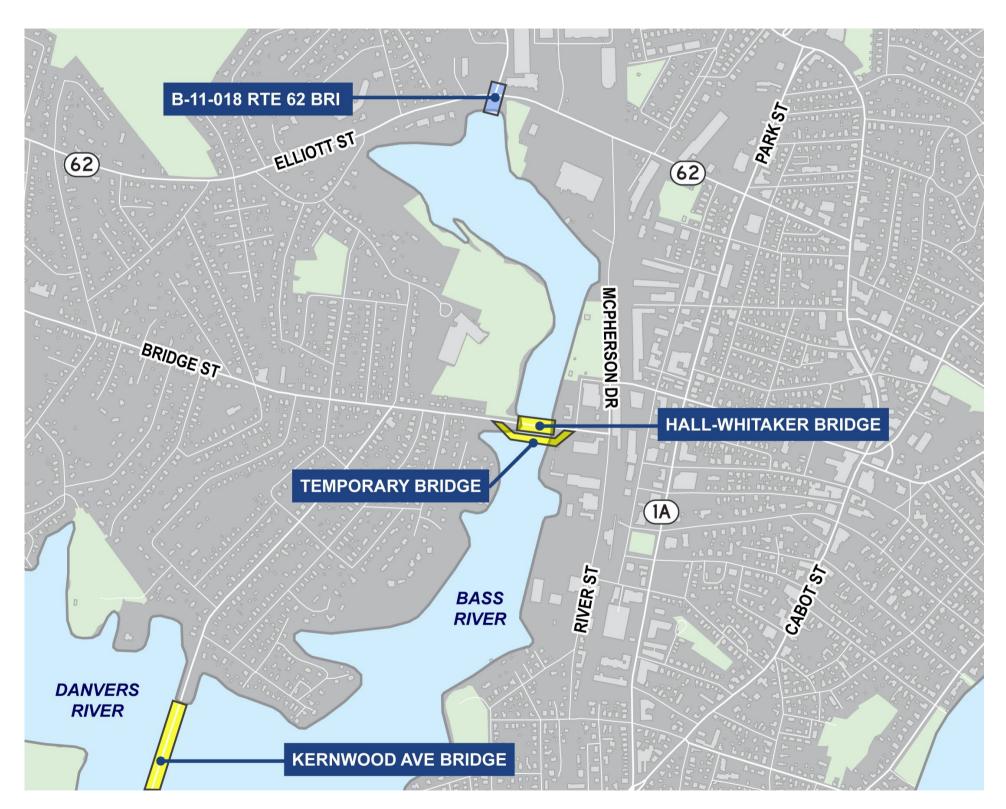
\*Time of Year Restrictions for silt producing in-water work. Administered by the Massachusetts Division of Marine Fisheries (MDF), with review by National Marine Fisheries Services (NMFS), and US Fish & Wildlife (USFW)

March 15 through June 30 and from Sept 15 to Oct 30



### Permanent Bridges - Design Progress

- Boring Program
- Updated Traffic Counts
- Supplemental Detailed Survey
- Bridge Type Selection Worksheet (BTSW)
   Development, Review, Coordination with
   MassDOT
- Pre-25% Highway Design Development
- Constructability Workshops
- MassDOT/Private Utilities Meeting and Coordination





## Permanent Bridges - Ongoing Agency Coordination

- USACE: Draft Self-Verification-Notice (SVN) (for Boring Program)
- MassDEP Approval: Sediment Sampling Plan for 401 Water Quality Certification
- USCG: Draft Project Initiation Request and Request for Preliminary Navigation Clearance Determination (PNCD)
- MassDOT Environmental and Interagency Site Meetings and Coordination
- MassDOT/Agencies/Lt Governor's Office Interagency Meeting and Coordination
- Meetings and Coordination with Bass Haven Yacht Club and USCG



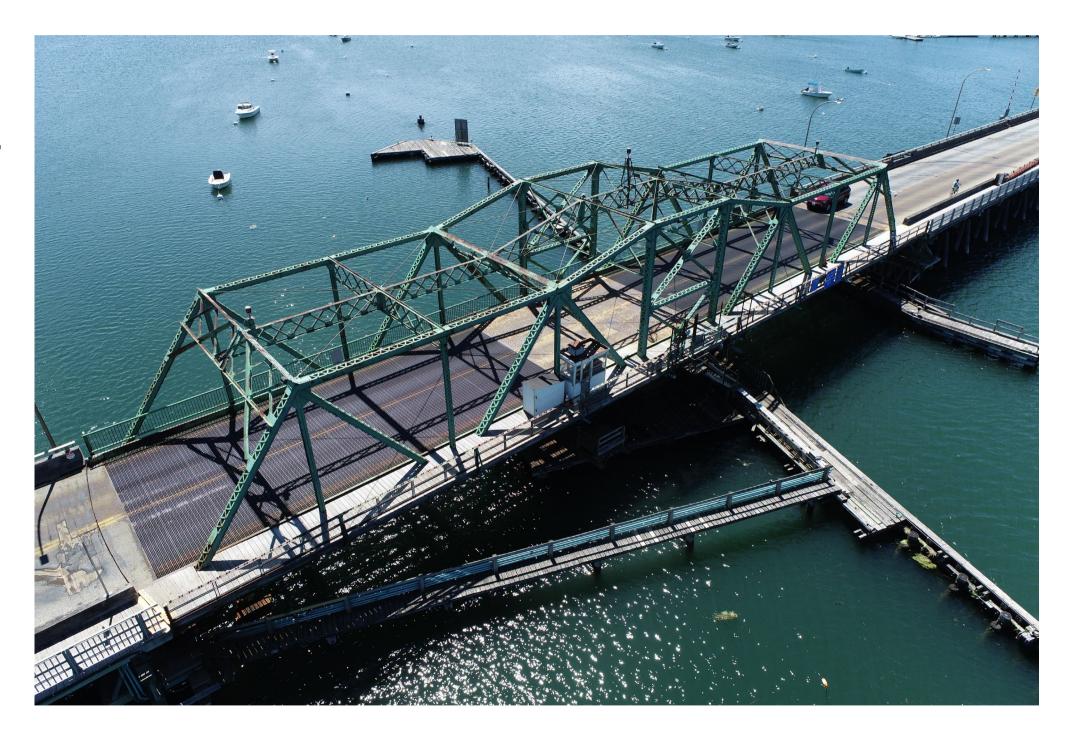
### Permanent Bridges - Next Steps

- BTSW and Pre-25% Design Approval
- 25% Highway Design
- Bridge Sketch Plan Development & Approval
- Continue Early Environmental Coordination
- Preliminary Right-of-Way
- Design Public Hearing
- Continued Public Information Meetings



### Kernwood Bridge Repairs Update

- 1. Regular Inspections & Maintenance Kernwood is regularly inspected with routine maintenance and minor repairs being addressed consistently year-round.
  - Hall-Whitaker inspections continue as well.
- 2. Rehabilitation Contract 1 of 2 Repair project addressing utility supports near center pier was completed in 2023.
- 3. Rehabilitation Contract 2 of 2 Major repair project Advertised for bids 3/2/24 (\$6.5M Construction Value).
- Repairs include: steel repairs to moveable spans, timber superstructure and substructure repairs, steel grid deck replacement/wearing surface repairs, concrete substructure repairs.
- Project currently in procurement with work expected to commence in Summer 2024.





### Permanent Bridges - Preliminary Design Schedule

Design Public Hearing
 Spring 2025

100% Highway Design Approval Winter 2026

2nd Bridge Design Approval Winter 2026

Combined PS&E Submittal Winter 2027

Environmental Clearance Fall 2026

Right-of-Way Certificate Spring 2027

Advertise for Construction
 Summer 2027

Construction Notice to Proceed Fall 2027

Permanent Bridges Complete Fall 2032





# How will we keep you informed?

### **Public Outreach**

- MassDOT will provide regular updates to the City of Beverly.
- MassDOT will participate in regular Public Information Meetings.
- Mail comments and questions to:

Carrie E. Lavallee, P.E., Chief Engineer

MassDOT – Highway Division

10 Park Plaza, Boston, MA 02116-3973

Attn: Major Projects

Project File No. 608514

E-Mail comments and questions to:

Subject: Project File No. 608514

MassDOTMajorProjects@dot.state.ma.us





## Questions and discussion

