



# Eliot Bridge Preservation Project

*Public Information Meeting*

Monday June 24, 2024

6:00 p.m.

Contract No. 124916











# Agenda

- Welcome
- Background
- Purpose & Need
- Construction Impacts
- Project Contacts
- Questions & Answers





# Zoom Webinar Controls for Meeting

-  • Listen in Spanish
-  • Drop down menu to check microphone and speakers
-  • Raise your hand - \*9 for users dialing in
-  • If you are unable to access the internet or are having technical problems, please call into the meeting at 301-715-8592, Webinar ID: 821 8060 6872
-  • Closed captioning automatically generated by Zoom
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# Public Meeting Notes and Procedures

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- By continuing attendance with this virtual public meeting, you consent to participate in a recorded event.
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## Other Important Notes

- Your microphone and webcam are automatically disabled upon entering this meeting.
- The meeting will be open to questions and answers at the end of the formal presentation.
- Please take time to respond to our survey! Your feedback is important.



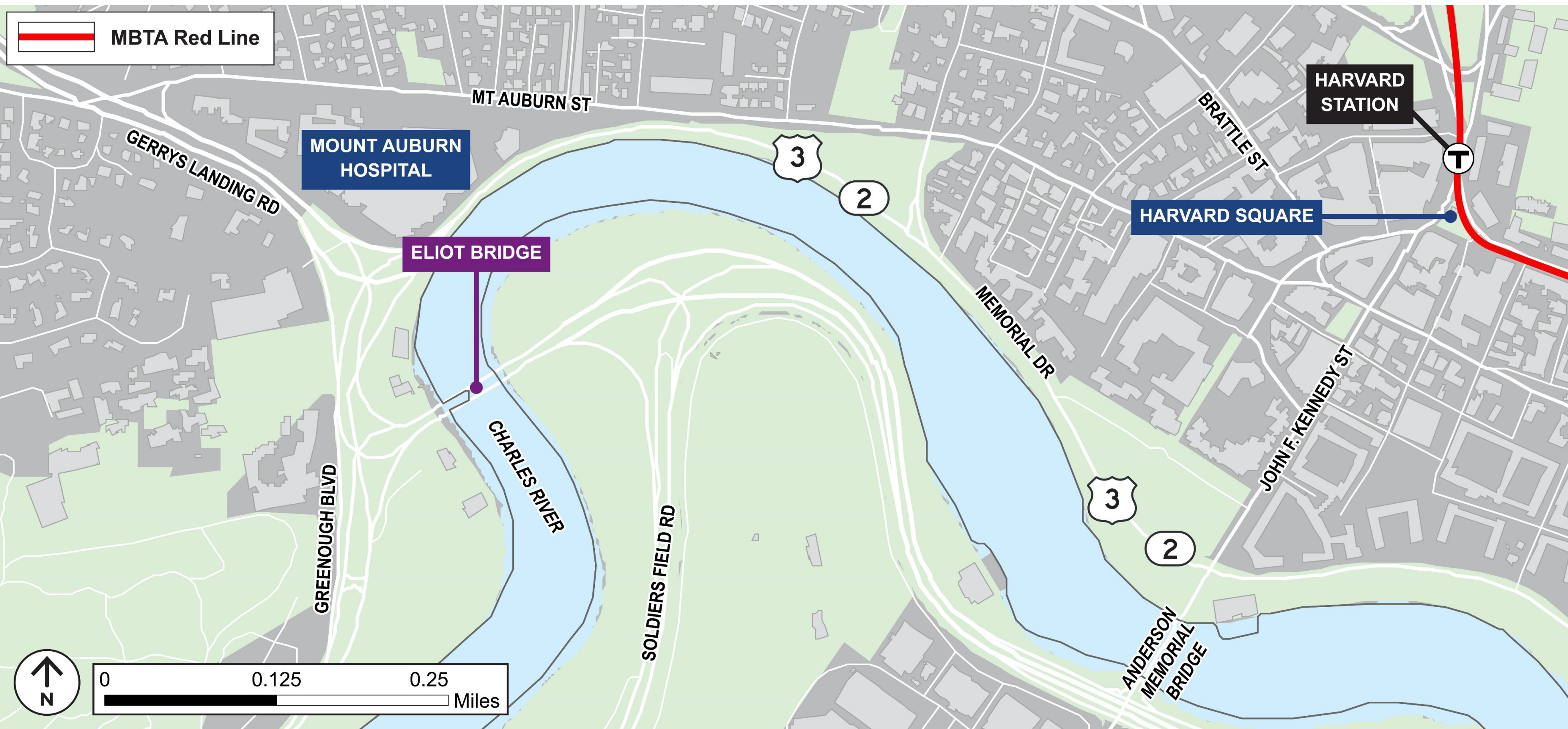
## Notice of MassDOT's Policy on Diversity and Civil Rights

- 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 <https://www.mass.gov/nondiscrimination-in-transportation-program> to reach the Office of Diversity and Civil Rights.

**All questions and comments are welcome and appreciated; however, we do request that you refrain from any disrespectful comments.**

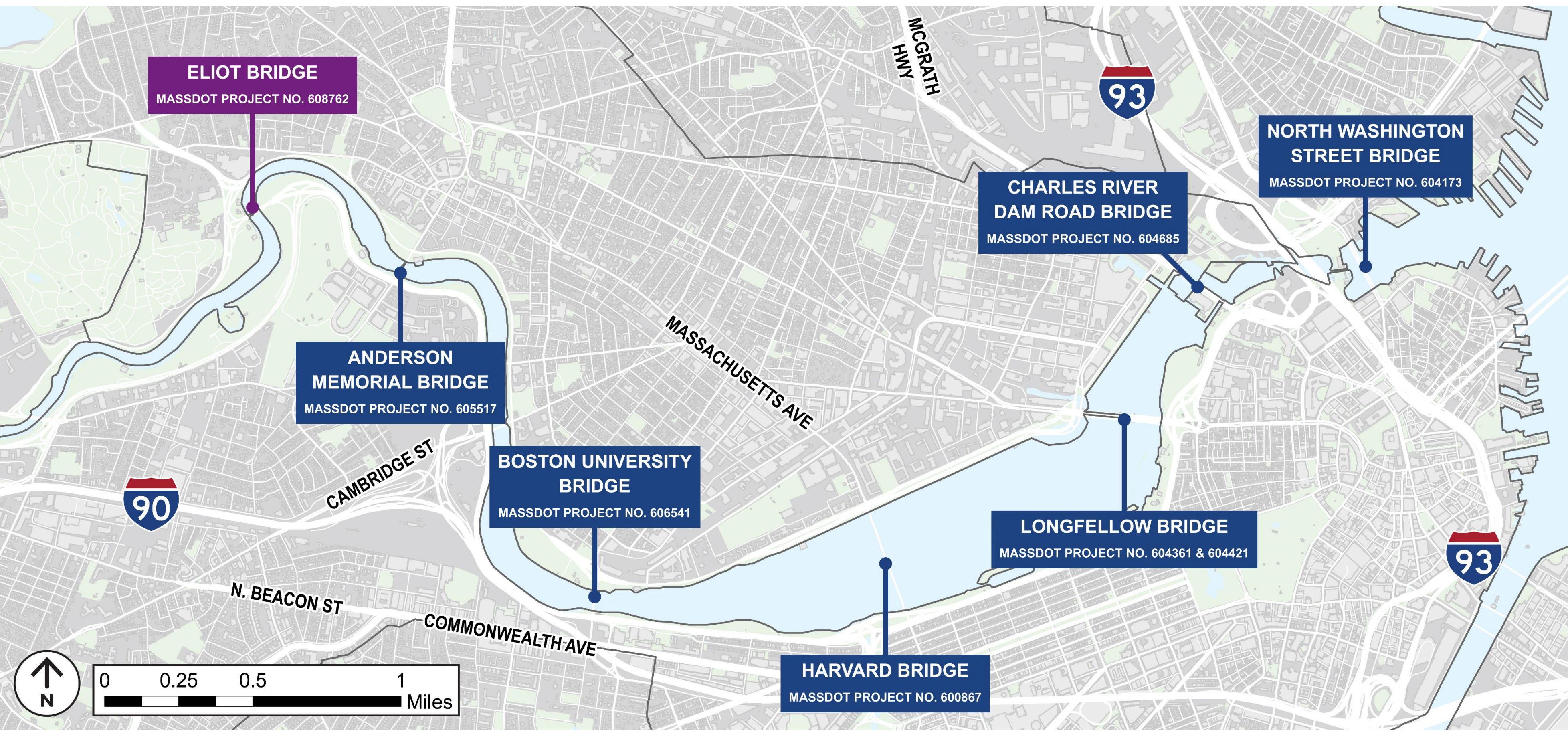


# Project Area





# Completed Work in the Charles River Basin





# How Did We Get Here?







THIS BRIDGE COMMEMORATES



CHARLES WILLIAM ELIOT

1834 — 1926

PRESIDENT OF HARVARD UNIVERSITY  
RESOLUTE AND TRUSTED LEADER IN THE  
COLLEGE COMMUNITY AND COMMONWEALTH

AND HIS SON

CHARLES ELIOT

1859 — 1897

PERSUASIVE ADVOCATE AND DESIGNER OF THE  
METROPOLITAN PARK SYSTEM  
LOVER OF BEAUTY AND FAR SIGHTED SERVANT  
OF THE COMMON GOOD



Why was this  
project  
initiated?



## Existing Conditions

- The Bridge was recently inspected in August 2023, and earned an overall condition rating of Fair
- The deck and trusses exhibit large spalled areas with loose concrete over the river
- The brick work, parapets, façade, and sidewalks have several non-structural defects that must be repaired
- Roadway expansion joints at the piers in Fair condition and need to be replaced



# Existing Conditions





# Existing Conditions







**What do we  
want to  
accomplish?**



## Project Goals

- Preserve the historic Eliot Bridge and extend its lifespan for another 10 to 20 years
- Maintain vehicle, pedestrian, cyclist, and boat access throughout construction
- Enhance existing multimodal access by widening the sidewalks for cyclists and pedestrians
- Accommodate events during construction
- Complete the repairs safely and as efficiently as possible to reduce impacts to all bridge users



## Project Scope – Bridge Improvements

- Full depth concrete deck repairs
- Beam and truss concrete encasement repairs
- Bridge joint replacement at the piers
- Remove and reset loose brick along the bridge parapets and façade
- Permanent concrete filling of all scuppers (drainage structure) on bridge, which have been paved over or filled



## Project Scope – Roadway & Pedestrian Improvements

- Partial depth concrete repair of sidewalk to repair existing deterioration and produce a uniform appearance
- Sidewalk widening from 8'-4" to 10'-0" width with "shaped curb detail" incorporated
- Reconstruction of the median with concrete barrier
- Installation of guardrail end treatment to improve safety
- Milling, paving and revised pavement striping (travel lane widths reduced from 12' to 11')



## Project Scope – Lighting Improvements

- Replacement of the median lighting with standard DCR light pole for continuity on the parkway
- Replacement of marine navigation lighting in center bridge span (navigable channel)
- Replacement of pedestrian underpass lighting for improved safety





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



## Community Impacts

- Approved Work Hours: eight-hour days, five days a week with the Prime Contractor and all Subcontractors working on the same shift
- No work will commence before 7 a.m. or continue after 4 p.m. without approval by the Engineer
- The bridge is over the Charles River which has heavy marine traffic throughout the day. The contractor will be required to occupy only one span over the water at a time, leaving the other two spans open for marine traffic
- No work will be done on weekends or during community events without approval by the Engineer



## Traffic and Pedestrian Impacts

- Permanent lane shifts during construction to allow for reconstruction of the median and sidewalks
  - Two lanes will remain open during construction in both directions on the bridge
- Temporary single lane closures (one work shift) for isolated deck repairs may be required
  - During off-peak hours
- Pedestrian detours at both sidewalks to allow for sidewalk repairs
  - One sidewalk will remain open during construction at all times
- Detours of marine traffic for underside repairs
  - Charles River will remain navigable during construction; work limited to one span at a time
- All planned traffic closures will be posted to the project website



# Phase 1 Construction Activities

## Summer 2024

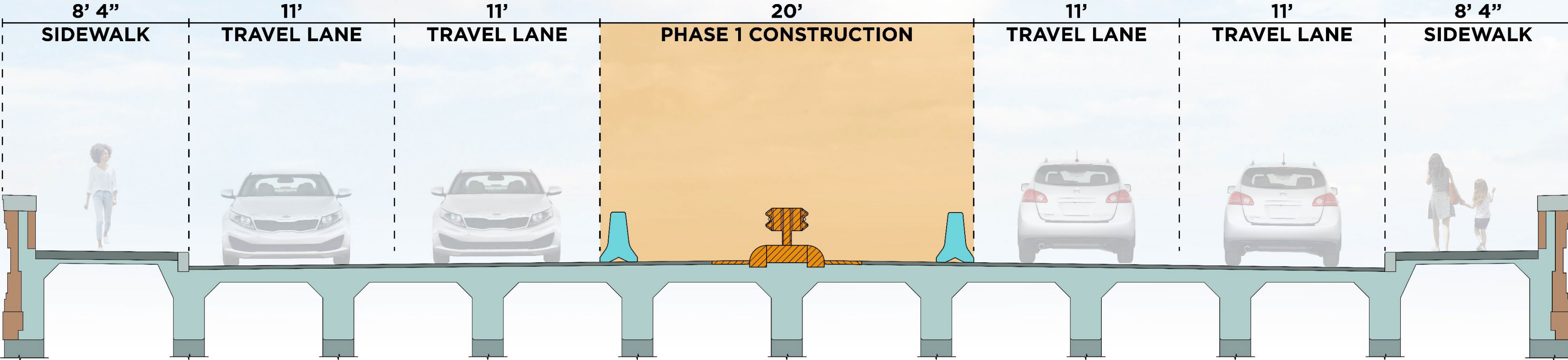
- Mobilize for construction
- Remove existing guardrail in the median and install temporary barrier along both sides of the median for Phase 1 traffic set up

## Fall 2024

- Perform full depth concrete deck repairs within Phase 1 work area
- Add temporary pavement to Phase 1 work zone
- Head of the Charles Regatta 2024 – No work



# Phase 1 Construction Work Zone





## Phase 2 and 2A Construction Activities

### Fall 2024

- Install temporary barrier along sidewalk for Phase 2A traffic setup
- Remove granite cap stones and interior brick. Salvage interior brick for use along exterior facades. Store granite cap stones
- Repair and widen the southern sidewalk

### Winter Shutdown

### Spring 2025

- Perform full depth concrete deck repairs within Phase 2A work area
- Complete replacement of interior brick inside parapet wall
- Add temporary pavement to Phase 2A work zone



## Phase 2B Construction Activities

### Spring 2025

- Install temporary barrier along sidewalk for Phase 2B traffic setup. Remove granite cap stones and interior brick. Salvage interior brick for use along exterior facades.  
Store granite cap stones

### Summer 2025

- Repair and widen the northern sidewalk
- Perform full depth concrete deck repairs withing Phase 2B work area
- Complete replacement of interior brick inside parapet wall
- Add temporary pavement to Phase 2B work zone



## Phase 2C Construction Activities

### Summer 2025

- Begin replacing exterior brick on north parapet wall
- Reset north granite cap stones

### Fall 2025

- Finish replacing exterior brick on north parapet wall
- Replace existing navigation light and other conduits on north parapet wall

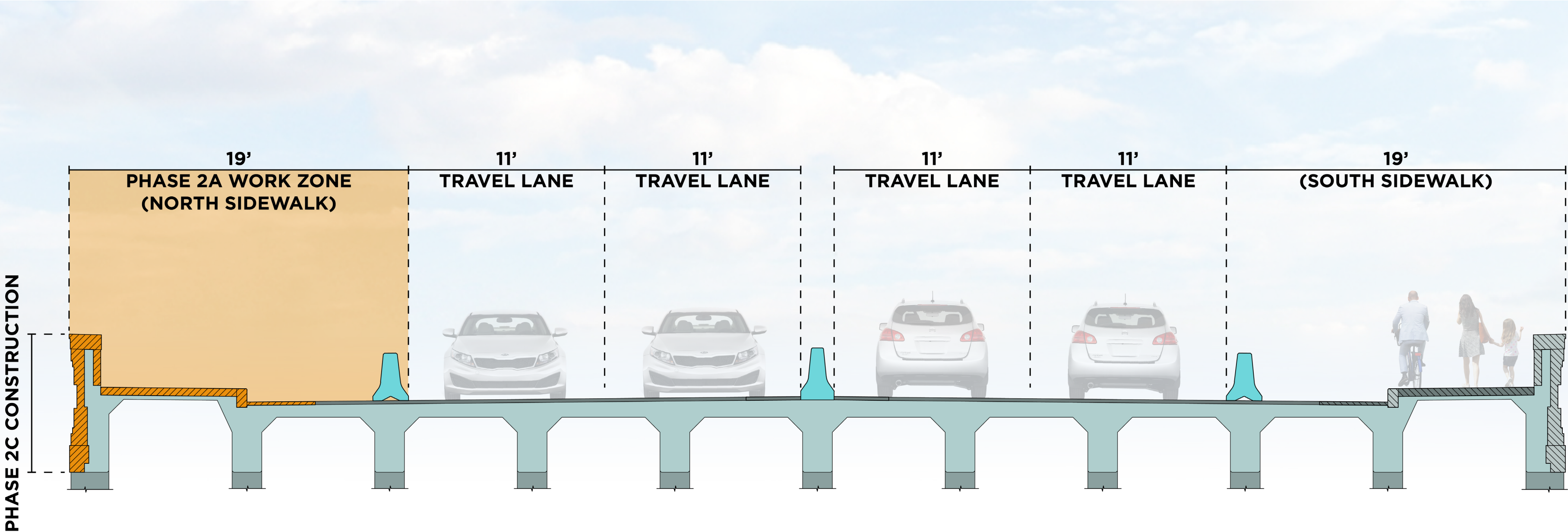
### Winter Shutdown

### Spring 2026

- Replace exterior brick on south parapet wall. Reset south granite cap stones. Replace existing navigation light and other conduits on south parapet wall

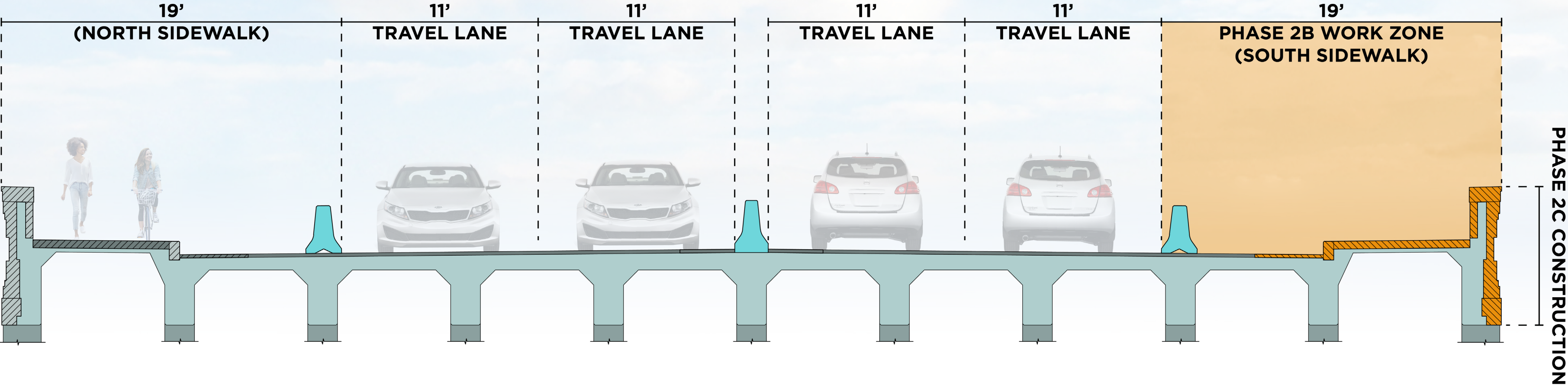


# Phase 2A Construction Work Zone



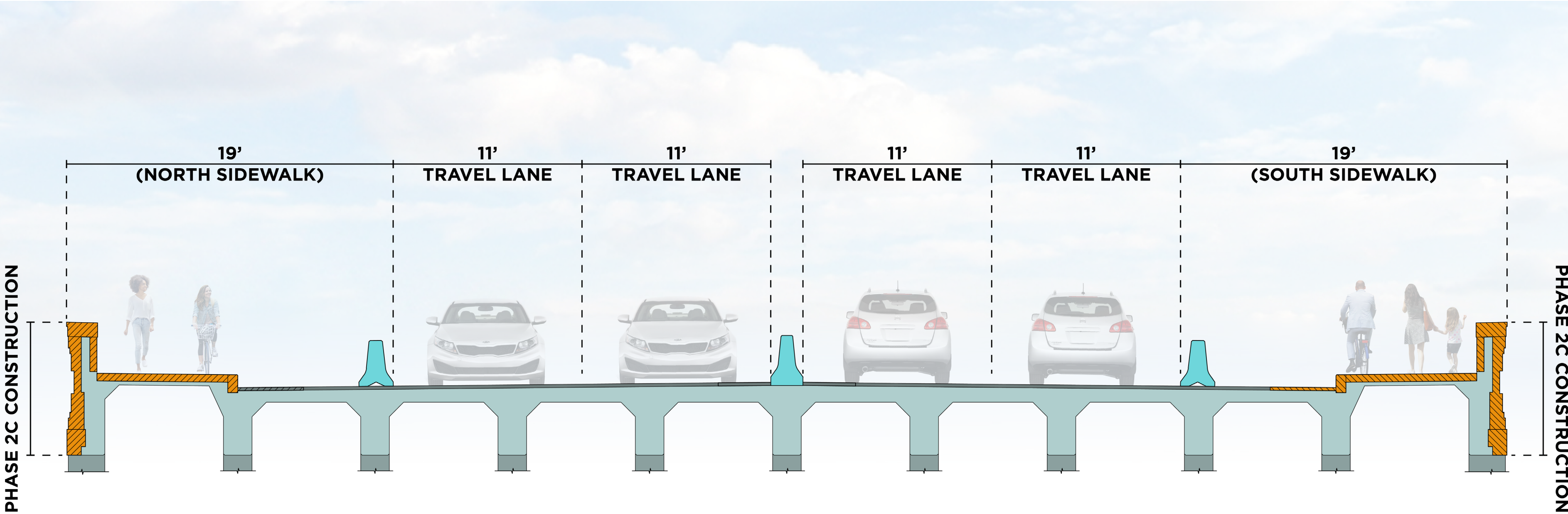


# Phase 2B Construction Work Zone





# Phase 2C Construction Work Zone



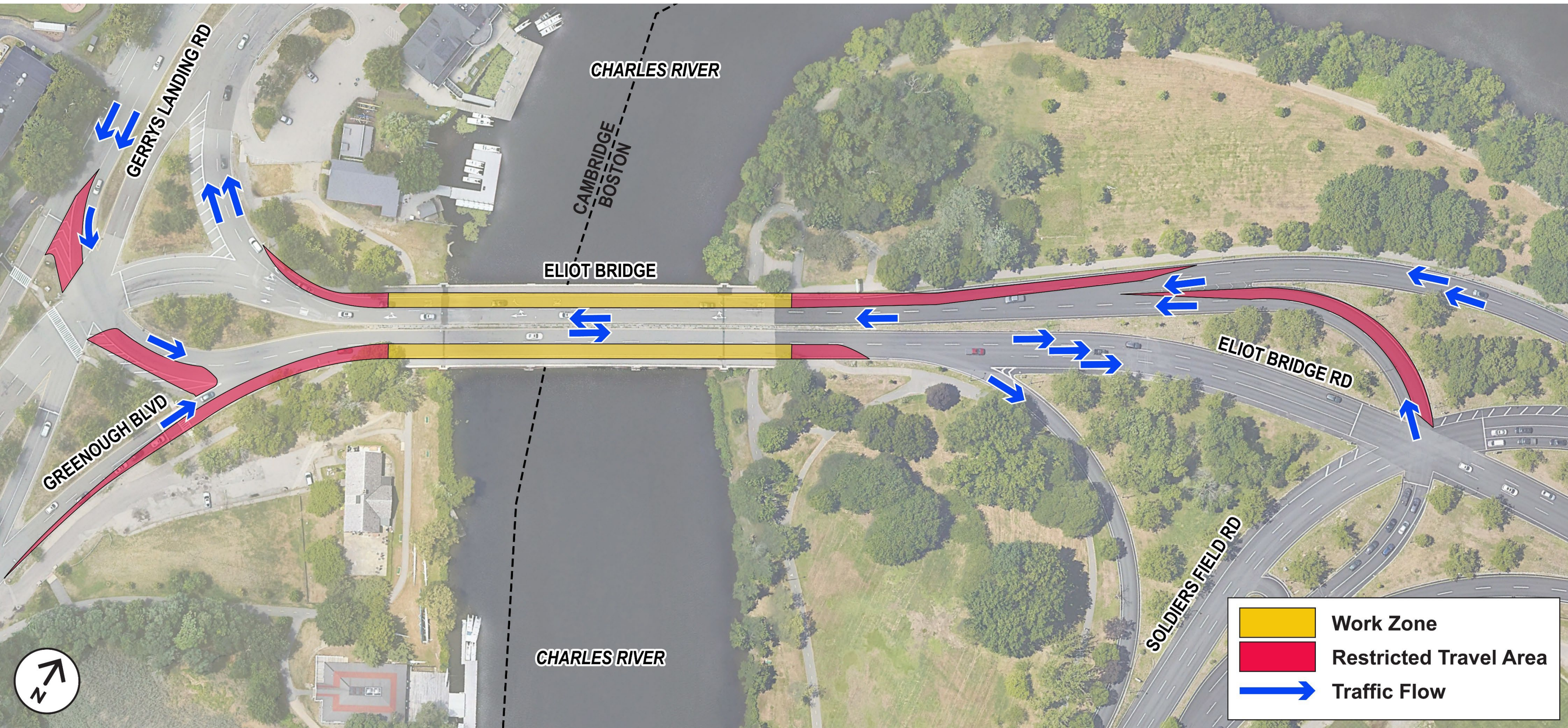


## Temporary Lane Closures Between Stages

- Some nighttime work is required to complete miscellaneous deck repairs
- Nighttime work will require temporary lane closures
- When needed, the contractor will close the two exterior lanes or the two interior lanes on the bridge
- Lane closures on the bridge will be accompanied by travel restrictions on the roadways approaching the bridge
- As traffic permits, nighttime operations will be from 9 p.m. to 5 a.m.

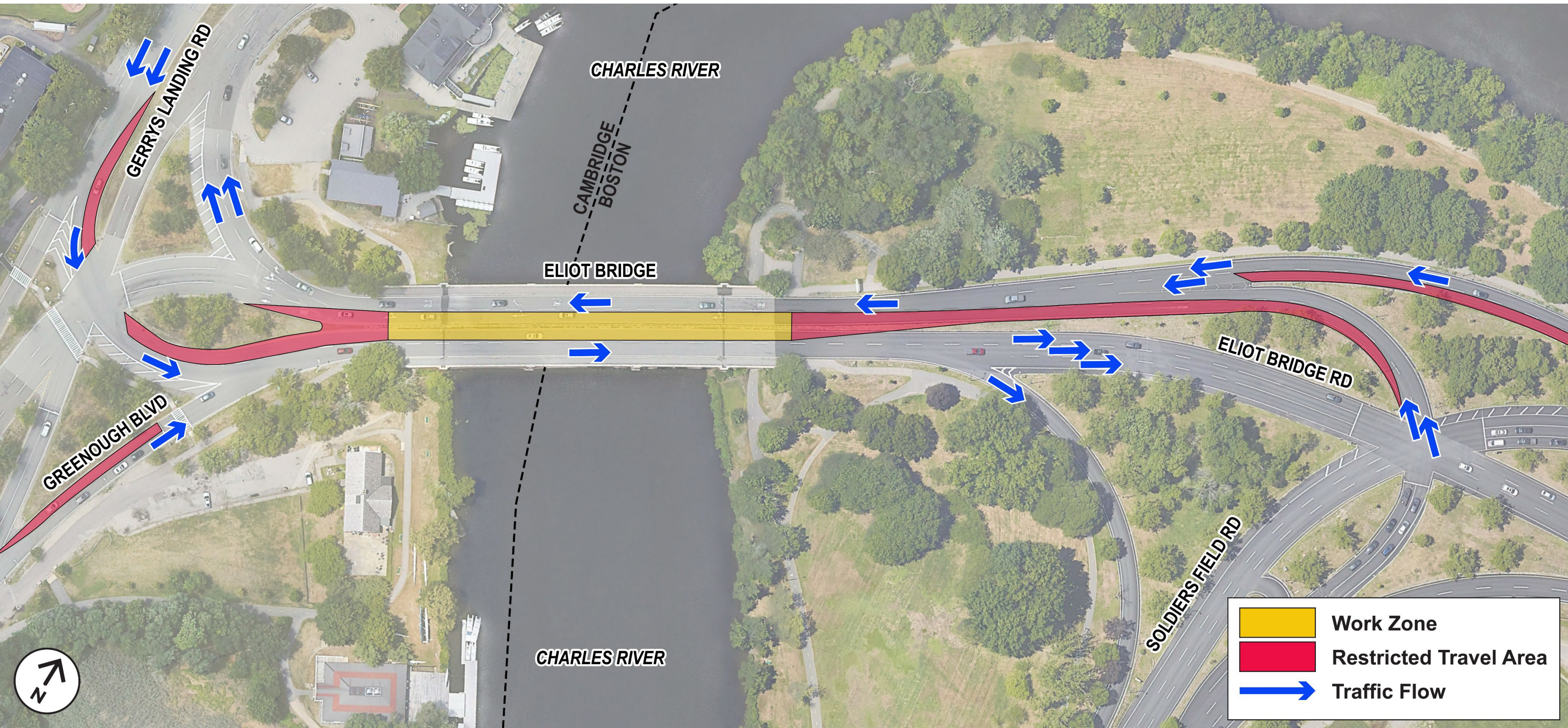


# Nightly Temporary Lane Closures | Exterior Closures



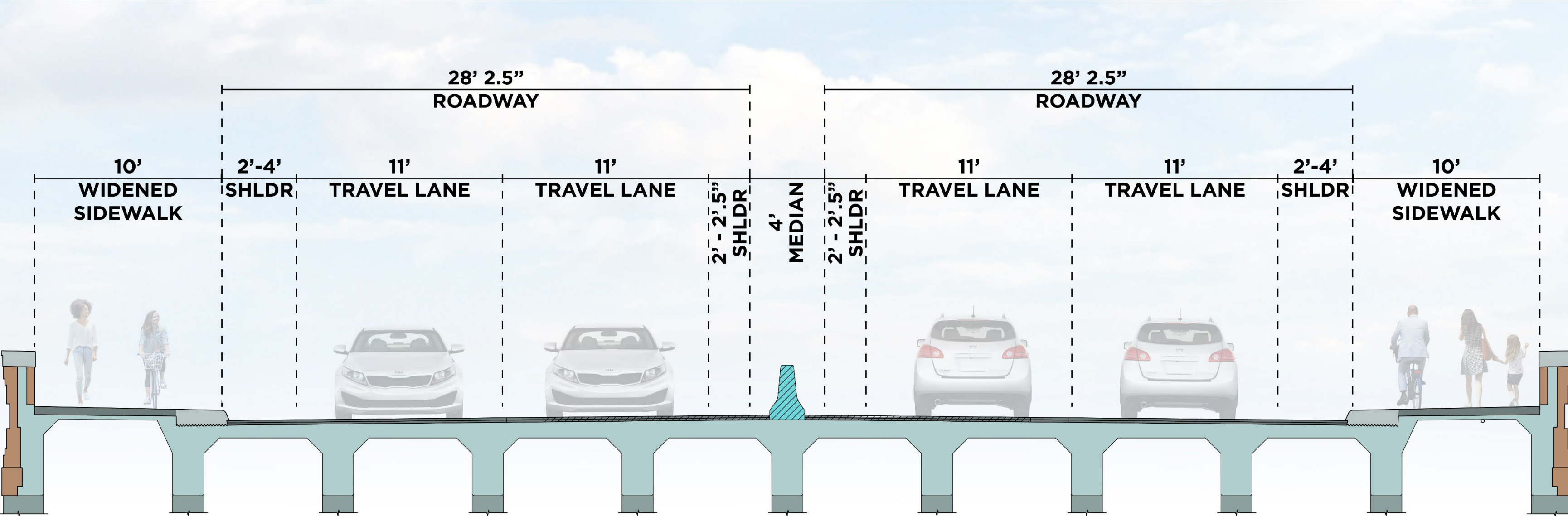


# Nightly Temporary Lane Closures | Interior Closures





# Completed Repairs



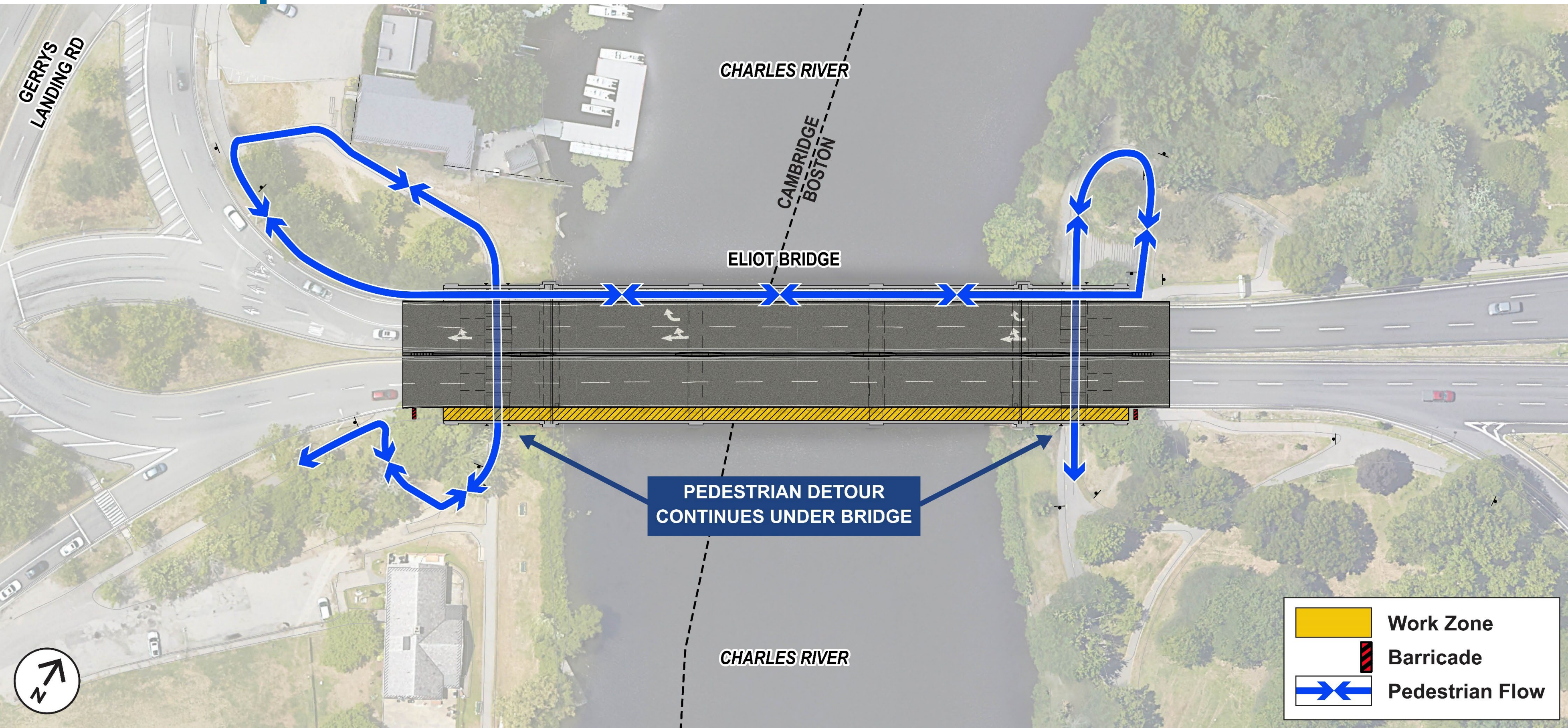




**How will  
bicyclists and  
pedestrians  
be impacted?**

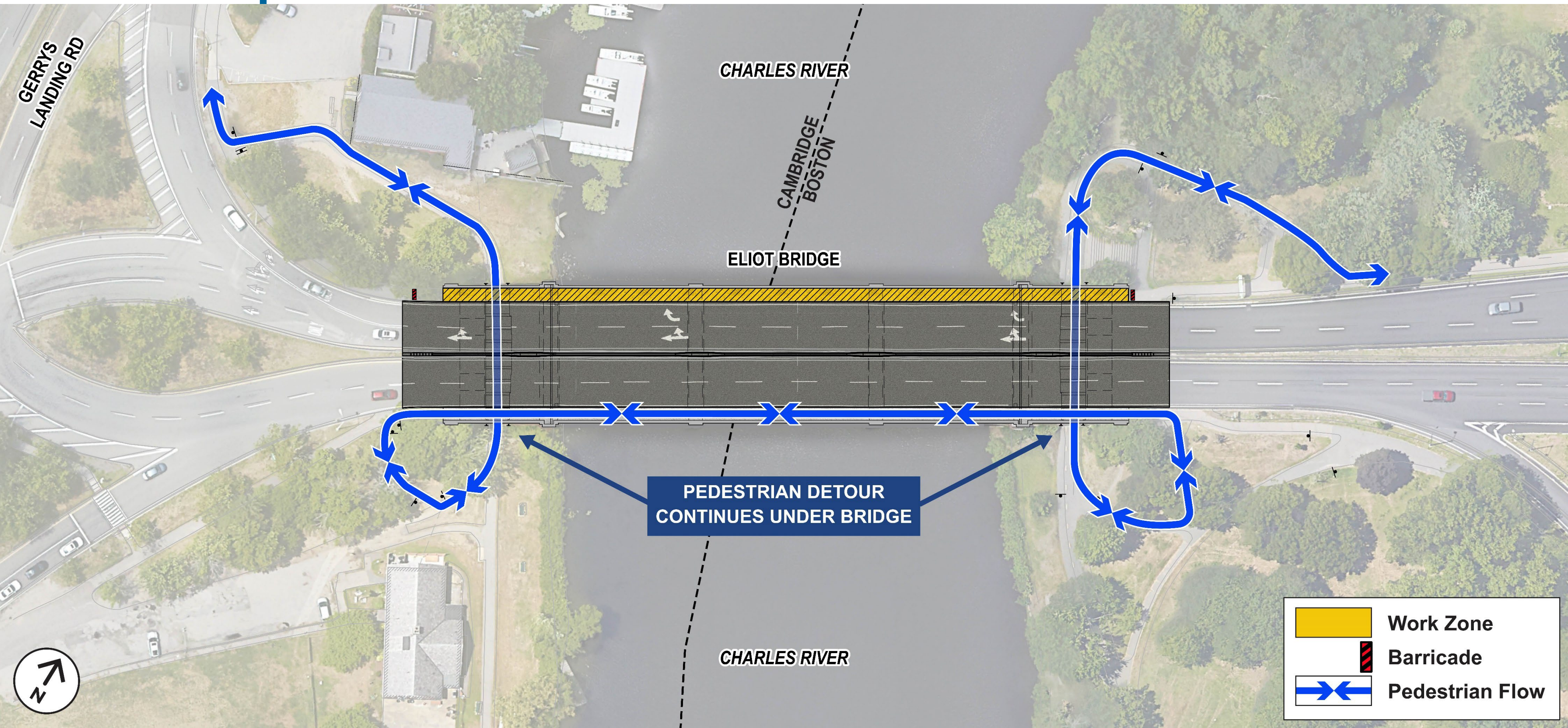


# Phase 2A Pedestrian & Bicyclist Detour through Existing Underpasses





# Phase 2B Pedestrian & Bicyclist Detour through Existing Underpasses





# Our next steps



**July 2024**  
Construction Begins  
Phase 1



**Fall 2024**  
Phase 2A



**Spring 2025**  
Phase 2B



**Summer 2025**  
Phase 2C



**Fall 2026**  
Construction  
Complete





**How will we  
keep you  
informed?**



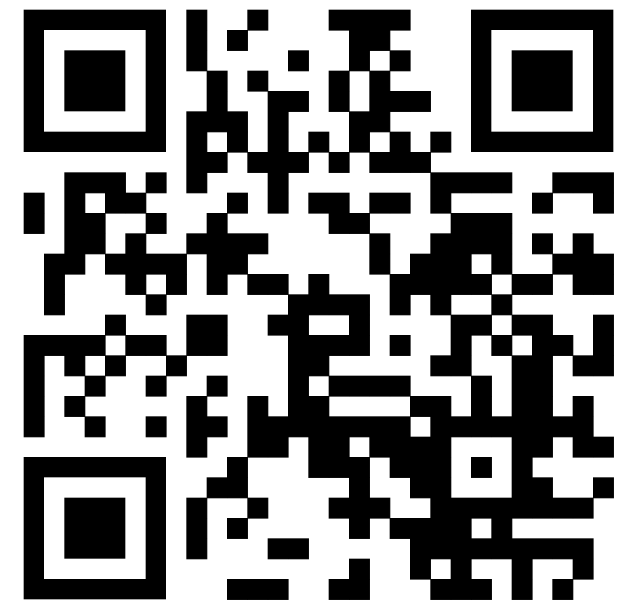
## Public Outreach

- **Public meeting was noticed in the following local newspapers:**
  - *El Mundo* – 6/20
  - *Sampan* – 6/21
  - *Boston Globe* – 6/14
- **Multilingual meetings flyers were shared with:**
  - Cambridge Center for Chinese Culture and Greater Boston Chinese Golden Age Center
  - City of Cambridge's Community Engagement Team, Commission for Persons with Disabilities, and Council on Aging
  - Boston's Office of Neighborhood services Allston representative
- Margaret Fuller House - Food Distribution Center
- Harvard Business School
- Public locations within 1 mile of the bridge
- **Project Updates**
  - You can subscribe to receive project update emails using the link on the project website



## Project Contact Information

- Visit the project website for more information and to sign up for project updates:  
<https://www.mass.gov/eliot-bridge-preservation>
- Email questions and comments to:  
Project Email - [eliotbridgepreservation@dot.state.ma.us](mailto:eliotbridgepreservation@dot.state.ma.us)
- Dan Fielding, Dan Fielding MassDOT Legislative Affairs:  
[daniel.fielding@dot.state.ma.us](mailto:daniel.fielding@dot.state.ma.us)







# Questions and answers



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Q&A



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# ***Thank You***

## *Eliot Bridge Preservation Project*

Monday June 24, 2024

Project File No. 124916

Project Email - [eliotbridgepreservation@dot.state.ma.us](mailto:eliotbridgepreservation@dot.state.ma.us)

