massDOT
Massachusetts Department of Transportation
Highway Division

Revere Beach Parkway (Rt 16) over Broadway (Rt 107) Bridge Replacement Project

Thank you for joining us.

This meeting will begin shortly.

massDOT
Massachusetts Department of Transportation
Highway Division

Revere Beach Parkway (Rt 16) over Broadway (Rt 107) Bridge Replacement Project

Design Public Hearing

January 15, 2025

Revere City Hall

Project File No. 612184



Public Meeting Notes and Procedures

Notification of video recording

- This public meeting will be recorded. The Massachusetts Department of Transportation may choose to retain and distribute the video, images, audio, and/or chat transcript.
- All parts of this meeting are considered public record.
- By continuing attendance with this public meeting, you are consenting to participate in a recorded event.

Important notes

- The meeting will be open to questions and answers at the end of the formal presentation.
- Your feedback is important.

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

massDOT Massachusetts Department of Transportation Highway Division

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.

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

Attendance Sheet and Handout

- Sign-in Sheet
  Located at the front of the room

- Handout – Project Details
  Located next to the sign-in sheet

Presentation Participants

- **MassDOT Project Manager**
  - Kristine Chestna, PE
- **MassDOT D4 Structural Engineer**
  - Jonathan Lee
- **MassDOT State ROW**
  - Michael Ruderman
- **MassDOT Legislative Affairs**
  - Daniel Fielding
- **Howard Stein Hudson (HSH)**
  - Paul Berthiaume, PE, Manager of Structural Engineering
  - Bridget Myers, PE, Manager of Roadway Design
  - Angela Bleeker, PE, Traffic Engineer
- **Translation Services**
  - Susana Carella

How will we keep you informed?

- Two-way communication between the project team & the community
  - Email: MassDOTProjectManagement@dot.state.ma.us
  - MassDOT website: https://www.mass.gov/event/

- Project website: https://public.govdelivery.com/accounts/MADOT/subscriber/new?topic_id=MADOT_237
    - Public can subscribe to receive project updates and advisories on the project website

Funding

- Federal Highway Administration and MassDOT Funding
- Construction Completion within three construction seasons of advertisement



How did we get here?

December
2021

Design Notice to Proceed (NTP)

August
2022

Bridge Preliminary Structure Report Approval

October
2023

Conduct Subsurface Exploration Program & Bridge Type Selection Worksheet Approval

January
2024

Pre-25% Conceptual Design

March
2024

Public Information Meeting

July
2024

25% Design Submission

January
2025

Design Public Hearing

massDOT
Massachusetts Department of Transportation
Highway Division

Agenda

1. Project Location
2. Project Initiation
3. Existing Conditions
4. Project Goals
5. Alternatives Analysis
6. Construction Approach
7. Affects to Road User
8. Next Steps
9. Questions & Discussion



massDOT
Massachusetts Department of Transportation
Highway Division

Project Location





Why was this project initiated?

Existing Conditions

- Built in 1930, widened in 1958
- Local connections
- Regional connections
- Substandard vertical clearance



Existing Conditions – Bridge

Deck Underside with exposed and deteriorated rebar



Superstructure frame concrete and steel deterioration



Existing Conditions – Emergency Repairs

- Strengthening of deteriorated steel truss members





Emergency Bridge Repair Schedule

January
2025

Three Phased Repair Plan Commences (Tentative)

April
2025

Repairs Expected to be Complete (Tentative/Weather Dependent)

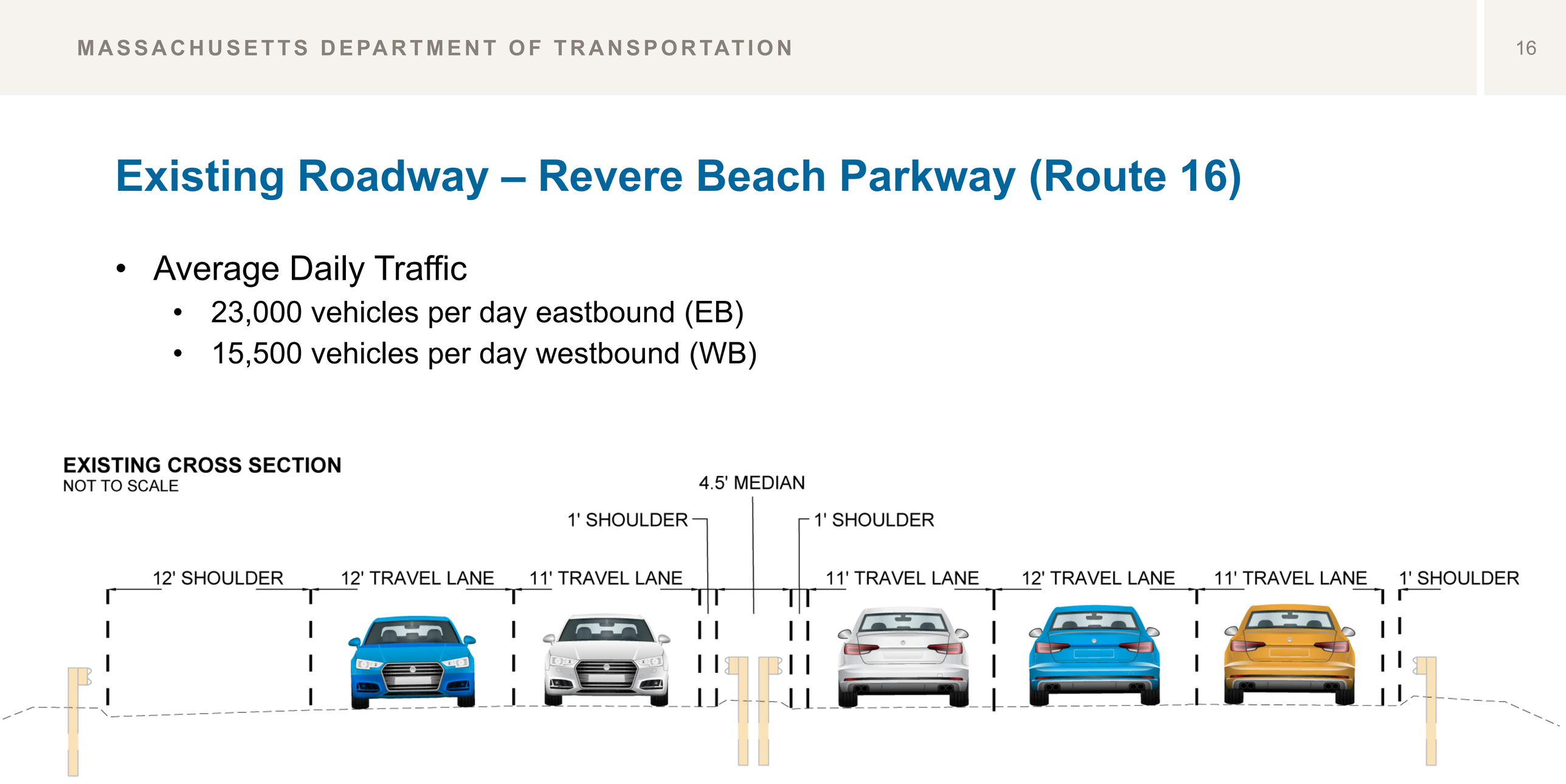
May
2025

Bridge and Roadways Back to Existing Conditions

massDOT Massachusetts Department of Transportation Highway Division

Existing Roadway – Revere Beach Parkway (Route 16)

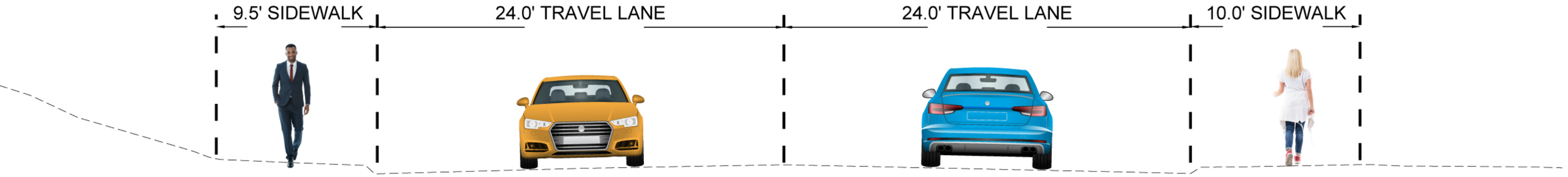
- Average Daily Traffic
  - 23,000 vehicles per day eastbound (EB)
  - 15,500 vehicles per day westbound (WB)



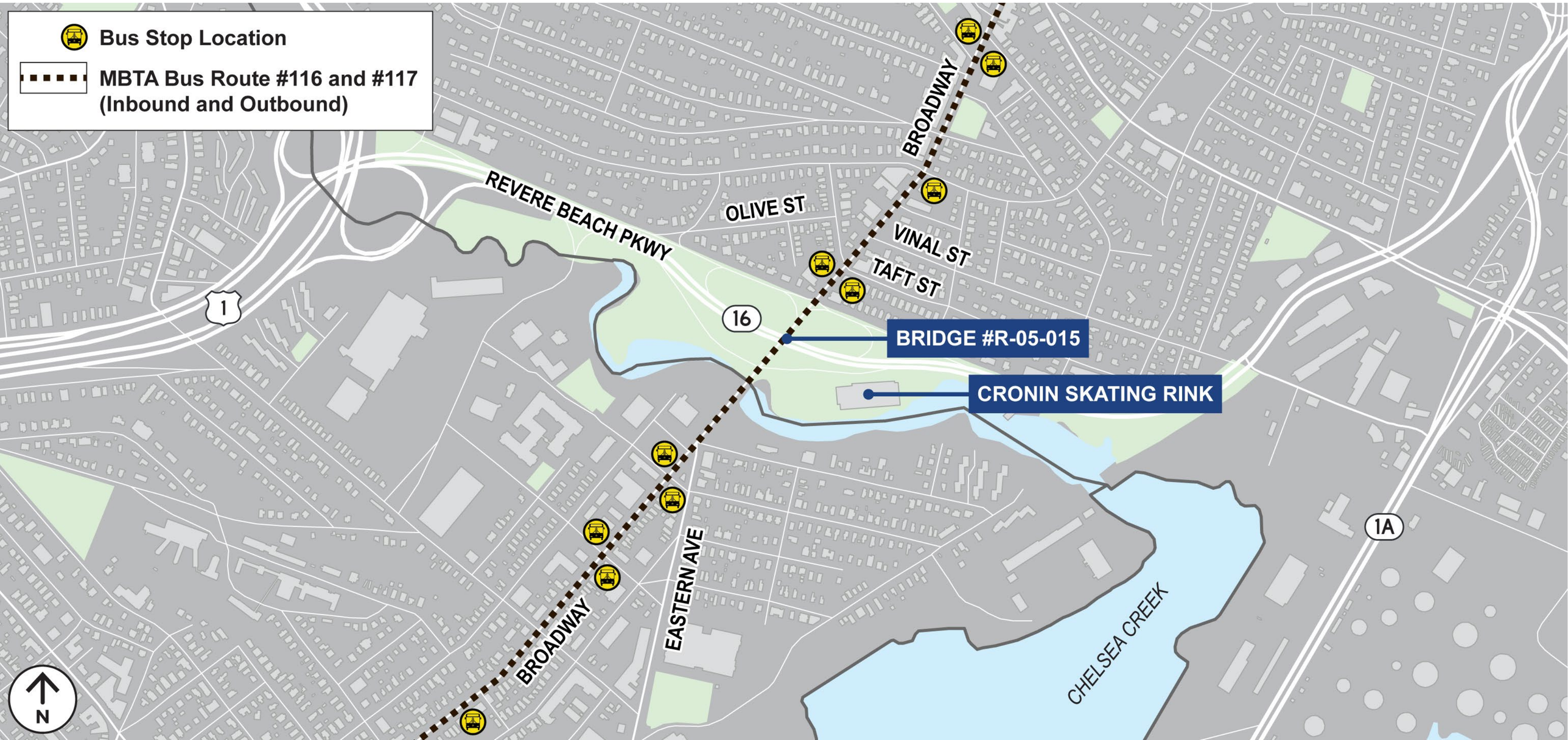
Existing Roadway – Broadway (Route 107)

- Average Daily Traffic
  - 9,700 vehicles per day northbound (NB)
  - 9,500 vehicles per day southbound (SB)

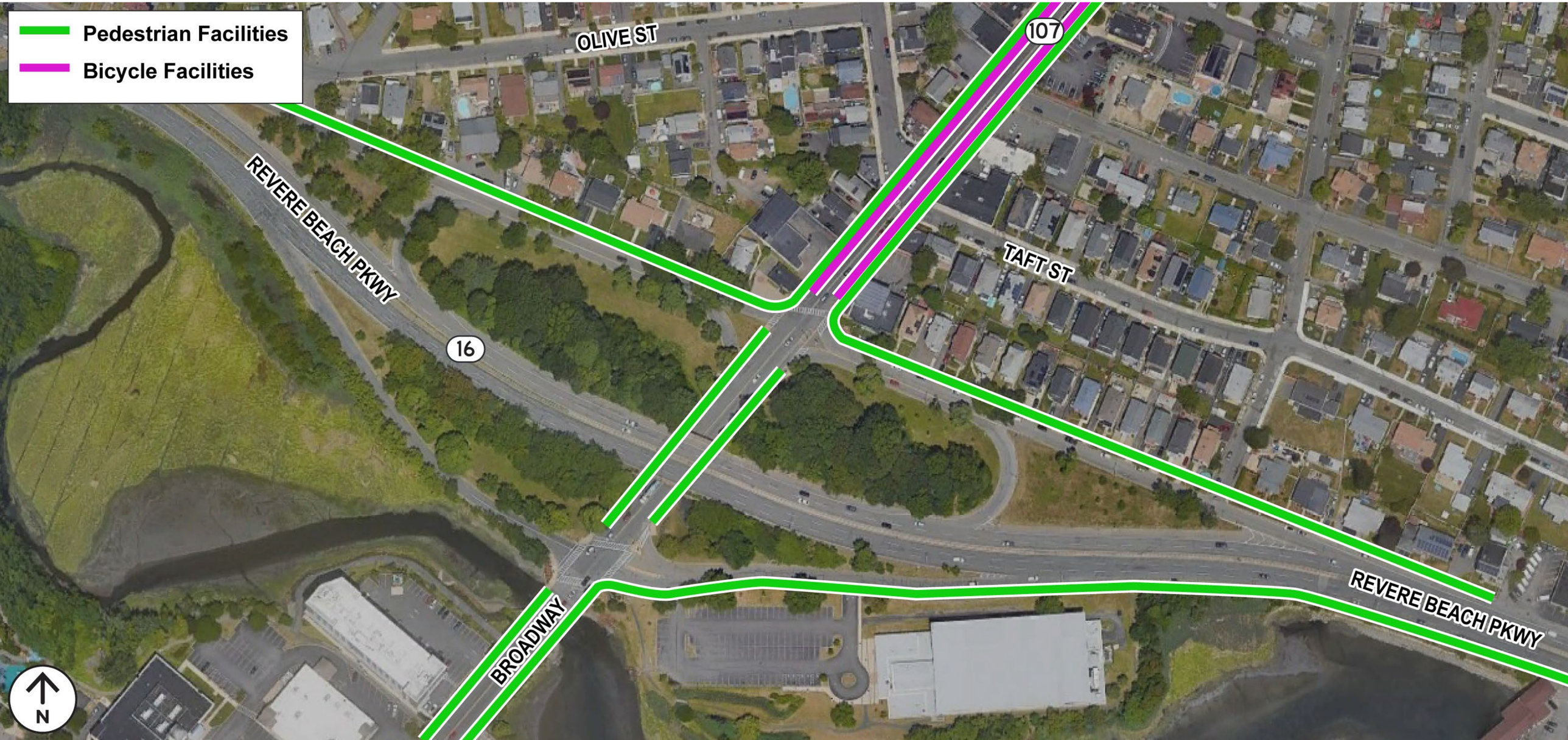
EXISTING CROSS SECTION
NOT TO SCALE



Existing Transit Accommodations

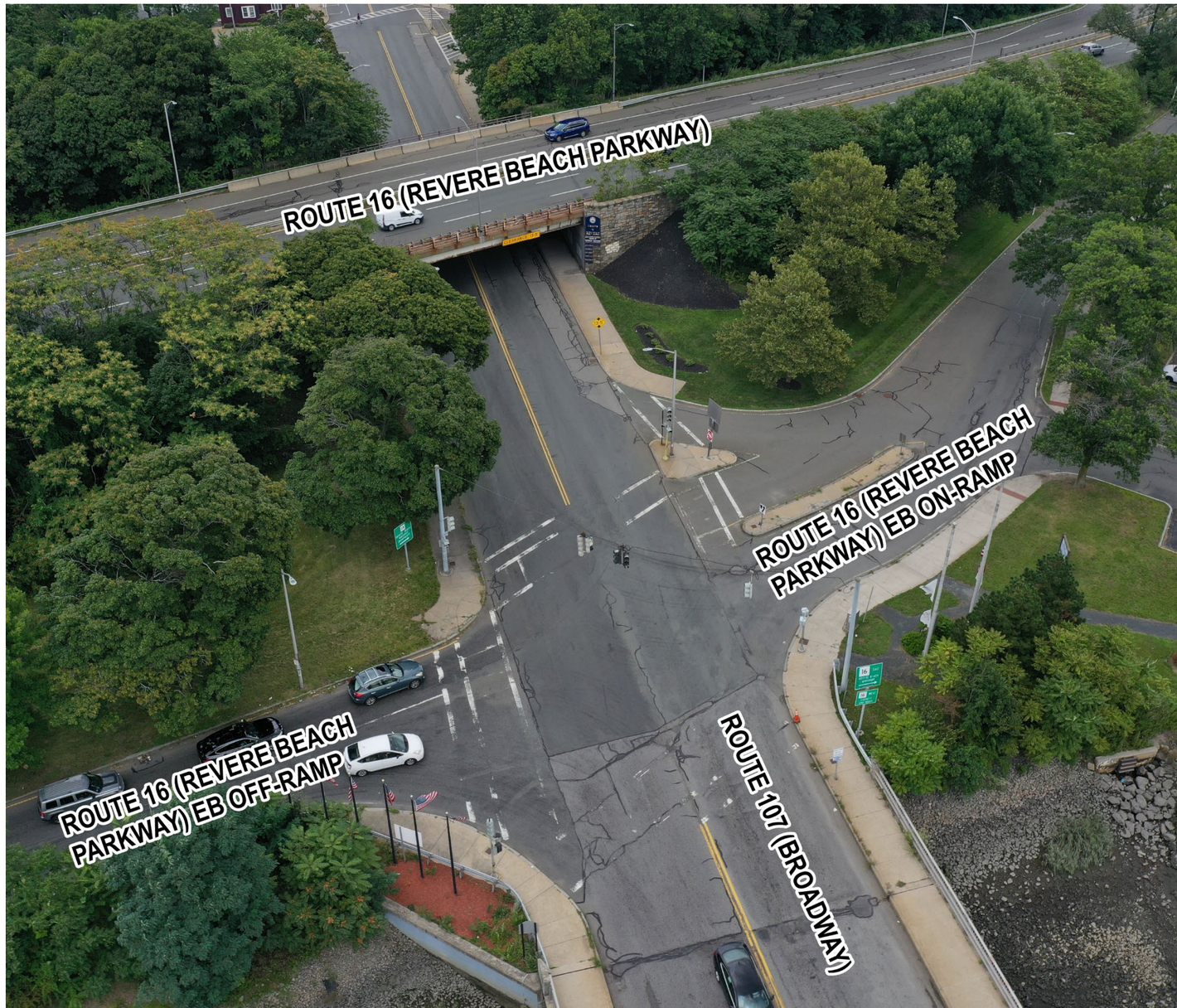


Existing Pedestrian/Bicycle Accommodations



Existing Revere Beach Parkway EB Ramp at Broadway Intersection

- Signalized intersection with outdated equipment
- Faded pavement markings
- Poor pavement conditions
- No bicycle accommodations



Existing Revere Beach Parkway WB Ramp at Broadway Intersection

- Stop controlled (right-in, right-out)
- Parking along Broadway within intersection
- No bicycle accommodations



What do we want to accomplish?

Project Goals

- Replace bridge
- Maintain bridge historic character
- Improve safety at intersections
- Provide transit priority along Broadway
- Enhance multimodal access along Broadway
- Minimize impacts to roadway users during construction



Project Considerations

- MBTA's Better Bus Project
  - Increase bus service along Broadway
- MassDOT Statewide Pedestrian and Bicycle Plans
- MassDOT Healthy Transportation Policy Directives
- Project Connections



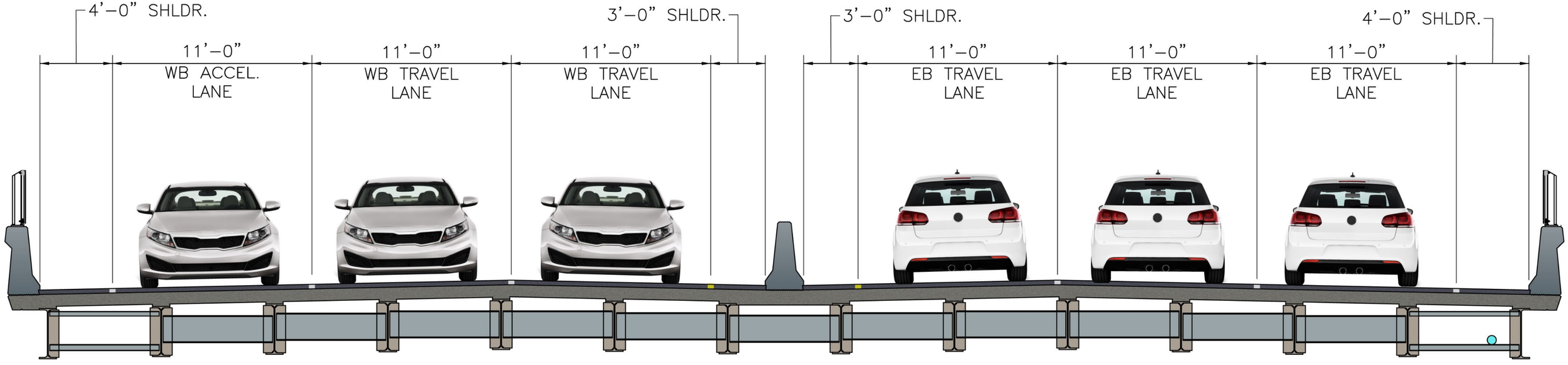
Project Scope – Revere Beach Parkway and Bridge Replacement

- Complete Removal and Replacement
- Increase Vertical Clearance
- Aesthetic Treatment for Historic Character



Project Scope – Revere Beach Parkway and Bridge Replacement (cont.)

- Cross Section Changes: WB shoulder becomes acceleration lane
- Tie into existing Route 16 cross-section at project limits



Project Scope – Broadway

- Project Limits: Revere/Chelsea line to the Taft St intersection
- Sidewalk reconstruction
- Add bicycle accommodations
- Include bus priority measures where feasible



Project Scope – Ramp Intersections

- Revere Beach Parkway EB Ramp at Broadway Intersection
  - Signalized intersection improvements and upgrades
  - Multimodal accommodations
  - ADA compliant curb ramps and crossings
- Revere Beach Parkway WB Ramp at Broadway Intersection
  - Multimodal accommodations
  - ADA compliant curb ramps and crossings

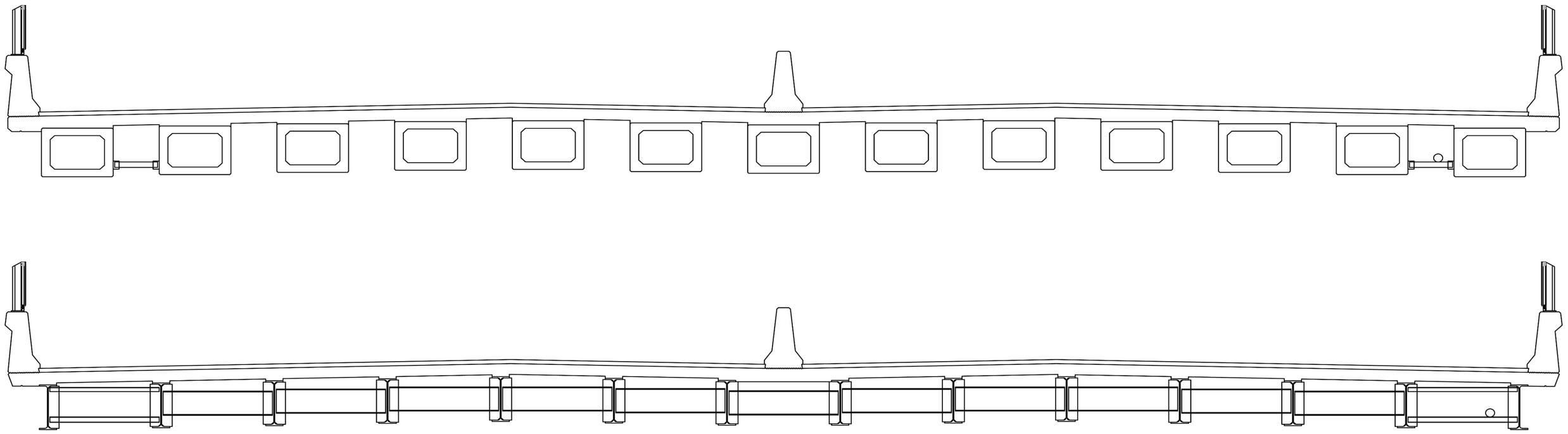




What alternatives were considered?

Bridge Replacement

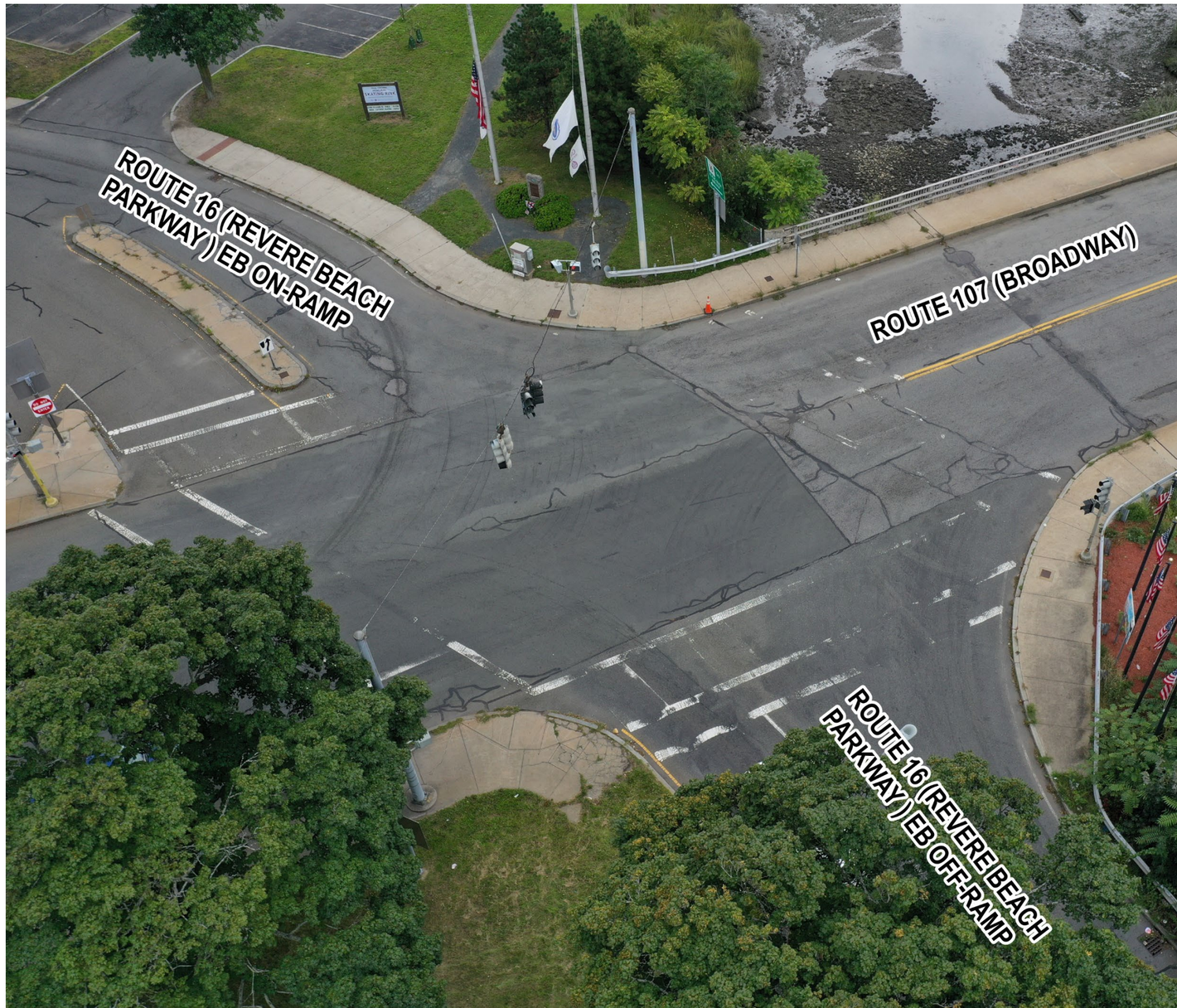
- Considered various steel and concrete beam options



Intersection Alternatives Evaluation

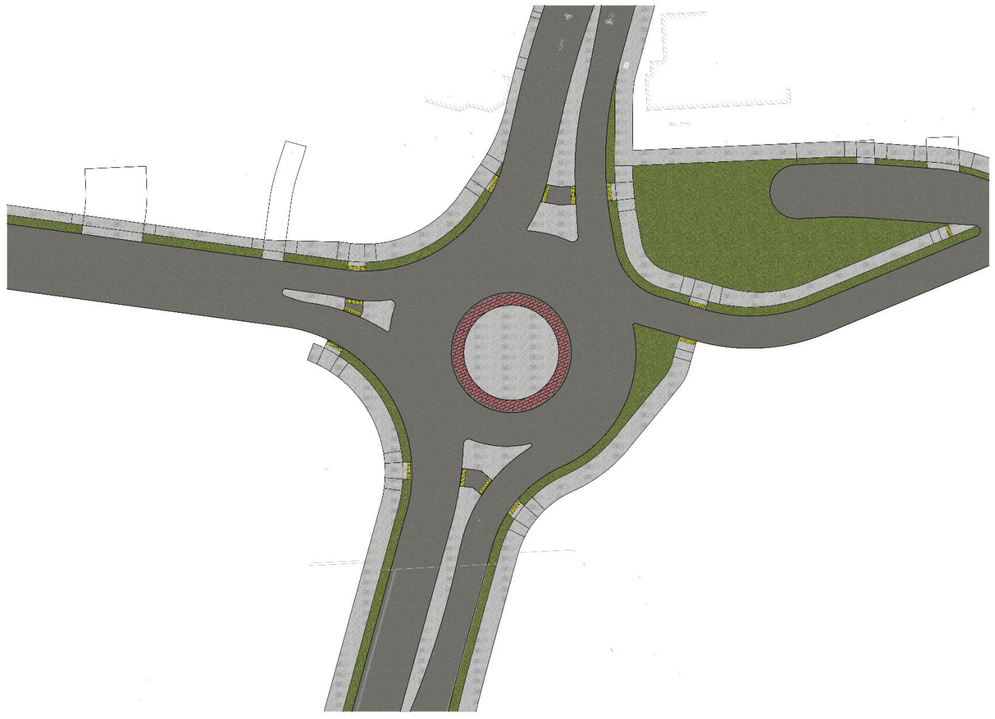
- Evaluated control strategies based on:
  - Safety, cost, environmental impact, traffic operations, multimodal accommodations

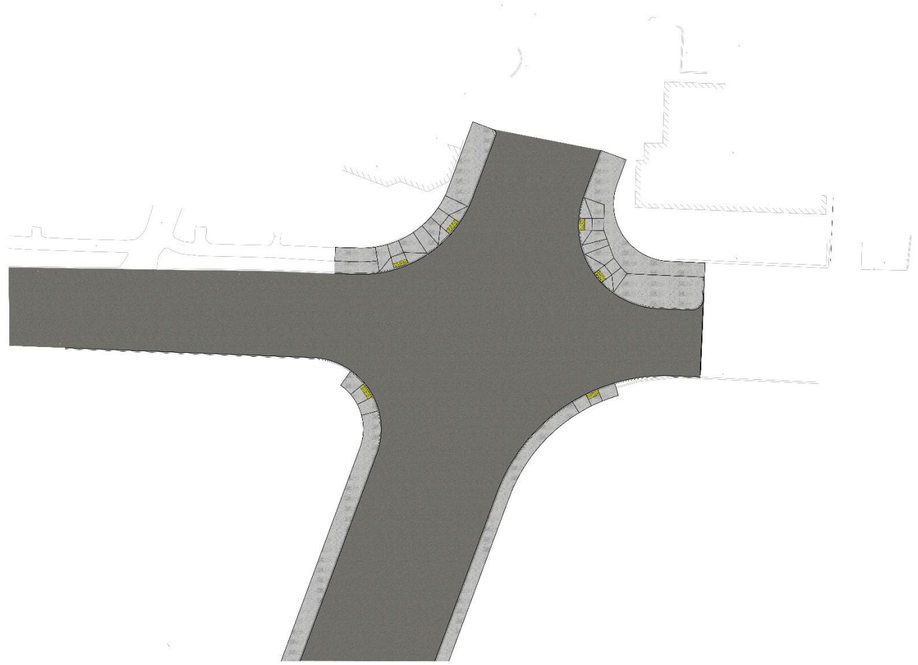
- Revere Beach Parkway EB Ramp at Broadway Intersection
  - Signalized Intersection
    - Retains traffic operations and safety
    - Alternative control strategies would impact ROW and adjacent bridges



Intersection Alternatives Evaluation (cont.)

- Revere Beach Parkway WB Ramp Intersection
  - Evaluated Unsignalized, Signalized, and Roundabout Intersection Alternatives
    - Unsignalized Intersection
      - Based on benefit-to-cost ratio and limited environmental/ROW impacts
      - No existing significant safety concern
    - Signalized Intersection
      - Cost outweighs benefits
    - Roundabout
      - Significant parkland impact

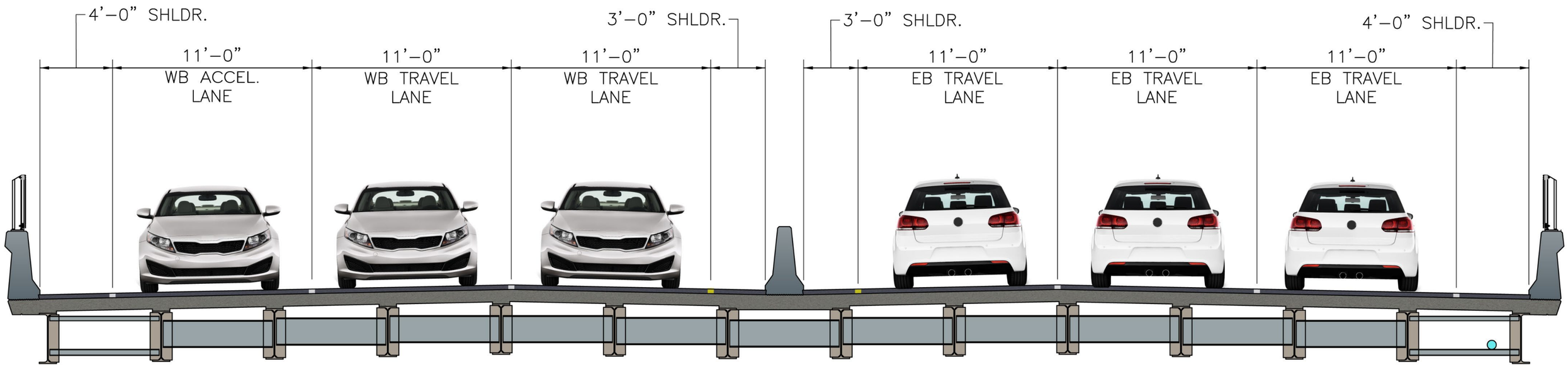




What is the preferred alternative?

Preferred Bridge Replacement

- Simple span steel stringer bridge with reinforced concrete deck

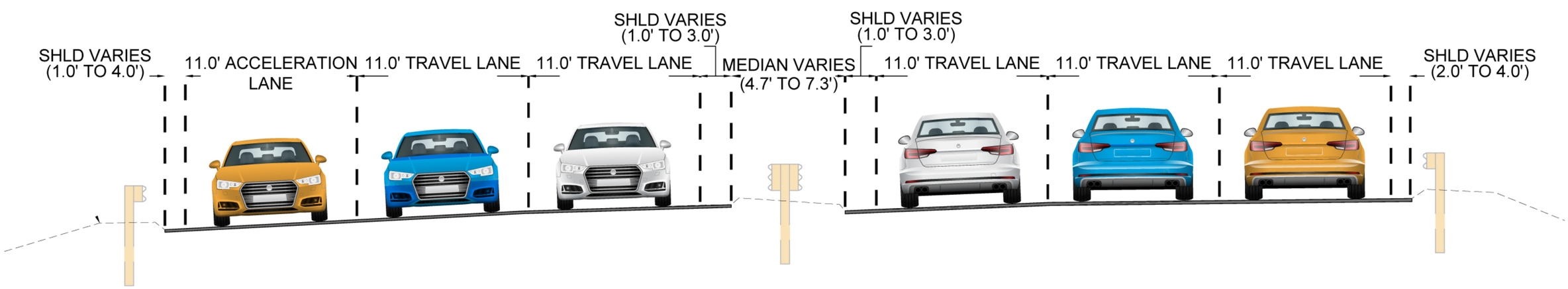


Proposed Design



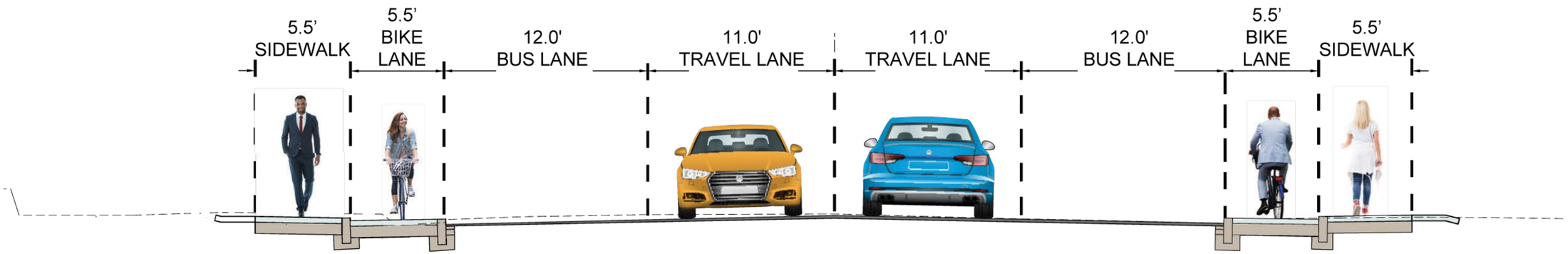
Revere Beach Parkway Bridge Cross-Section

PROPOSED CROSS SECTION - BRIDGE APPROACH
NOT TO SCALE

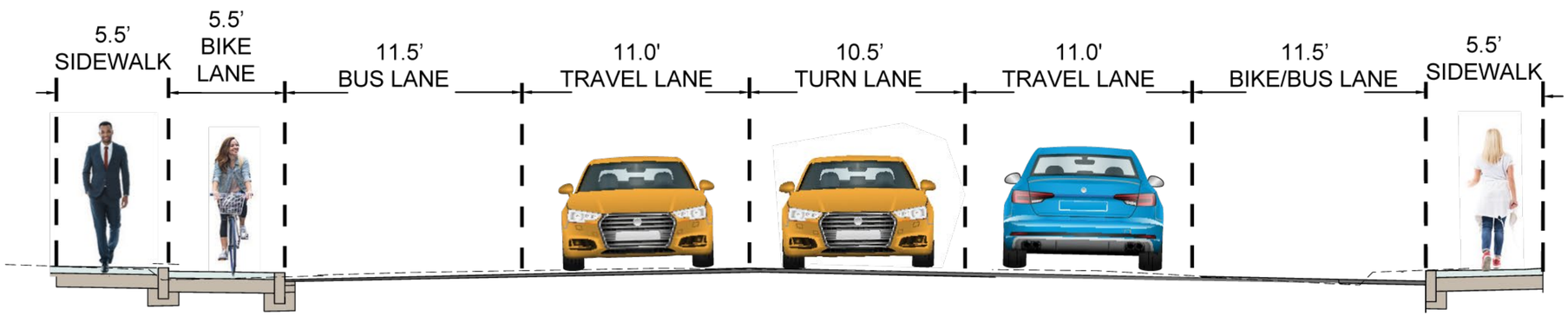


Broadway Cross-Section

PROPOSED CROSS SECTION - JUST NORTH OF THE BRIDGE
NOT TO SCALE



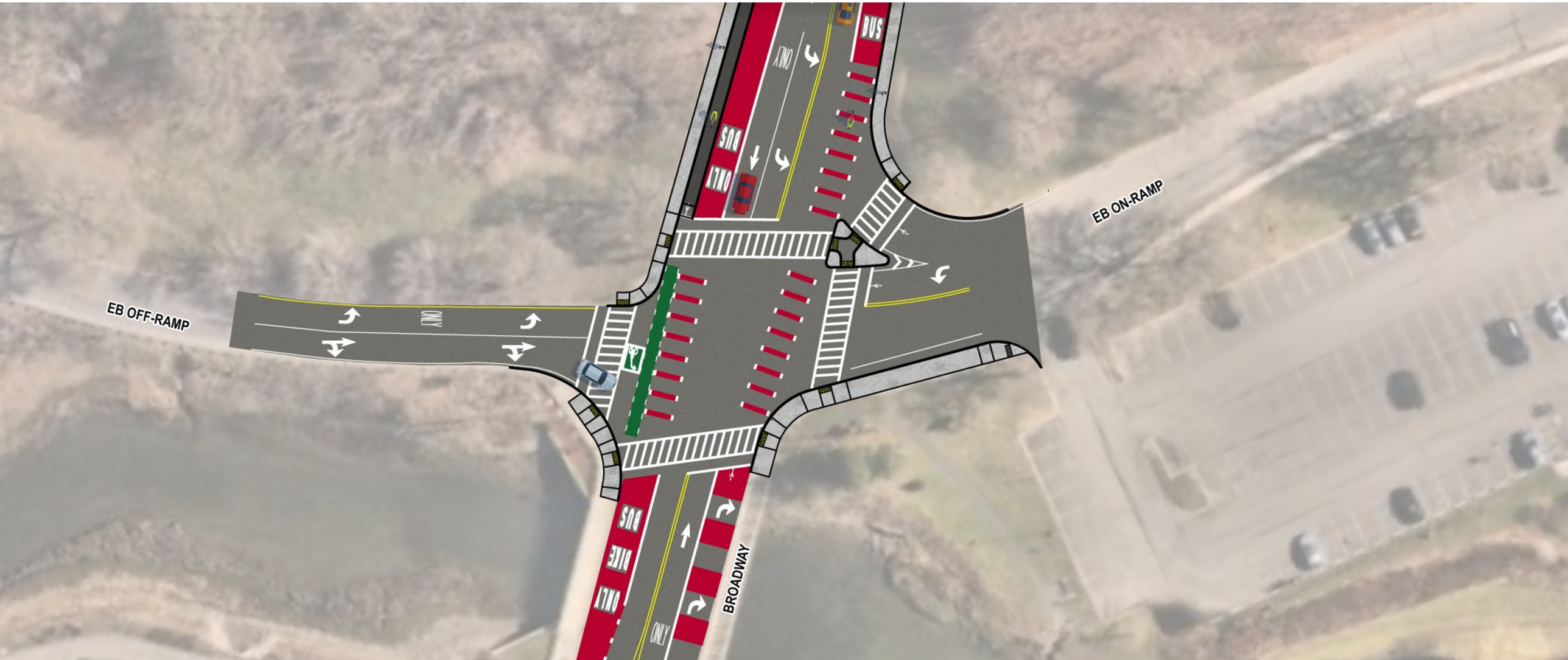
PROPOSED CROSS SECTION - UNDER BRIDGE TO SOUTHERN PROJECT LIMIT
NOT TO SCALE



MassDOT
Massachusetts Department of Transportation
Highway Division

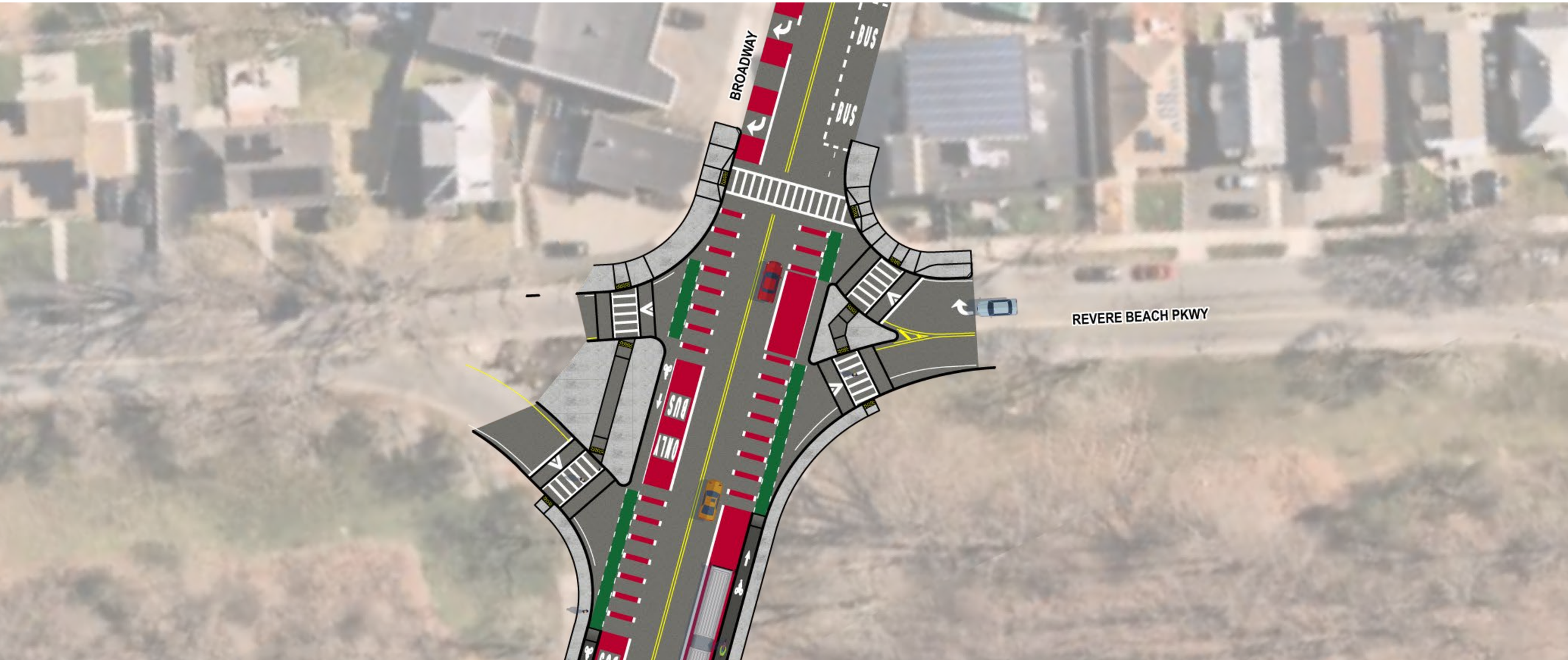
Revere Beach Parkway EB Ramp at Broadway

- Signalized Intersection



Revere Beach Parkway WB Ramp at Broadway

- Stop Controlled Intersection



Coordination with Other Projects

- MBTA Bus System Infrastructure Improvements On-Call Bus Lanes/Transit Priority Corridors (Completed)
  - Broadway Southbound Bus Lane (4-9 AM)
- Chelsea Broadway (Final Design Submitted)
  - Reconstruction of Broadway from City Hall Avenue to the Revere City Line
  - Traffic signal upgrades, dedicated bike lane along Broadway, upgrading existing sidewalk/bus stops

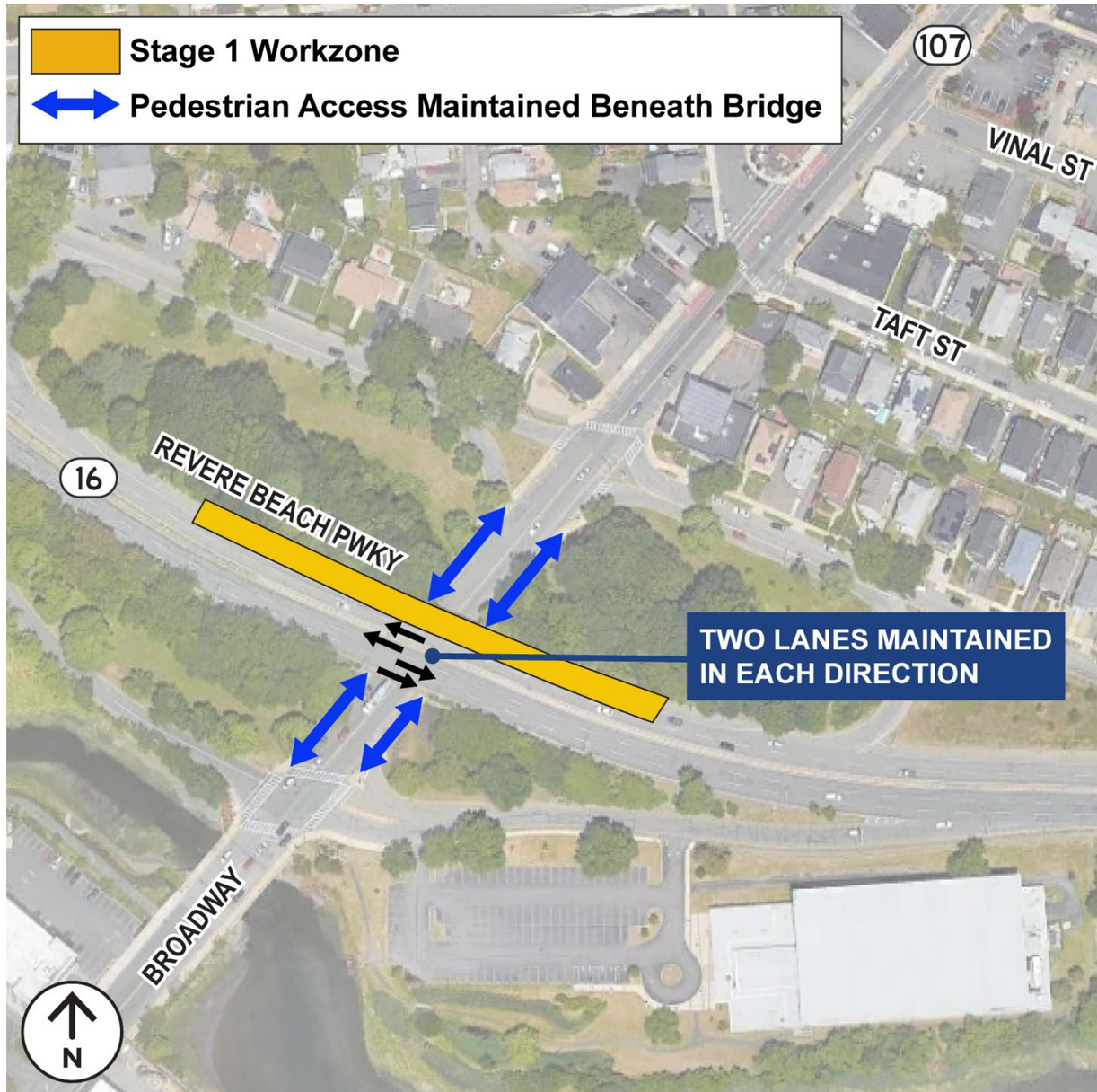
What is the construction approach?

Proposed Construction Approach

- Design, bid, build contract procurement
- The bridge and Revere Beach Parkway construction will be completed in three stages
- Approximately one year of construction per stage for a total of three years
- Broadway closures for periodic night work only (9:00 p.m. - 5:00 a.m.)

Construction Stage 1

- Estimated Duration: 1 year
- Workzone on Revere Beach Parkway Westbound exterior lane
- Maintain two-lanes Eastbound and Westbound
- No impacts to Broadway for all road users
- Ramp Access Maintained



Construction Stage 2

- Estimated Duration: 1 year
- Workzone on Revere Beach Parkway Eastbound/Westbound interior lanes
- Maintain two-lanes Eastbound and Westbound
- No impacts to Broadway for all road users
- Ramp Access Maintained



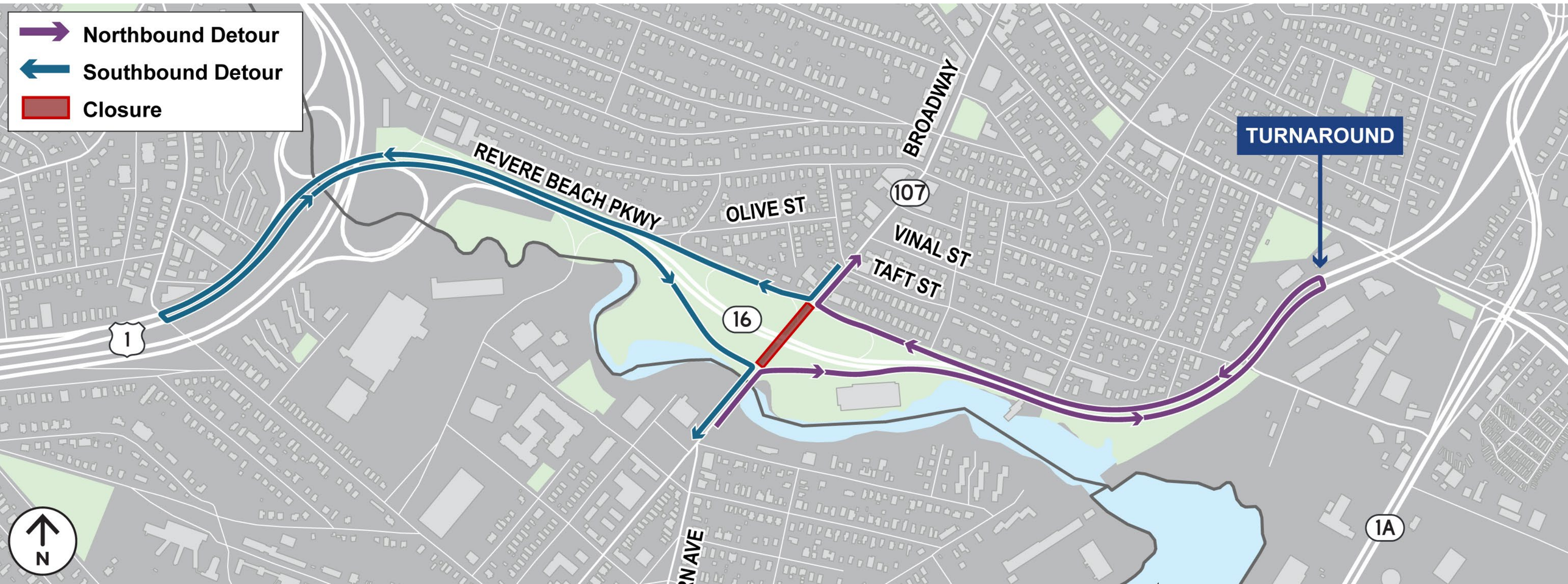
Construction Stage 3

- Estimated Duration: 1 year
- Workzone on Revere Beach Parkway Eastbound exterior lane
- Maintain two-lanes Eastbound and Westbound
- No impacts to Broadway for all road users
- Ramp Access Maintained



Temporary Night Closures – Broadway

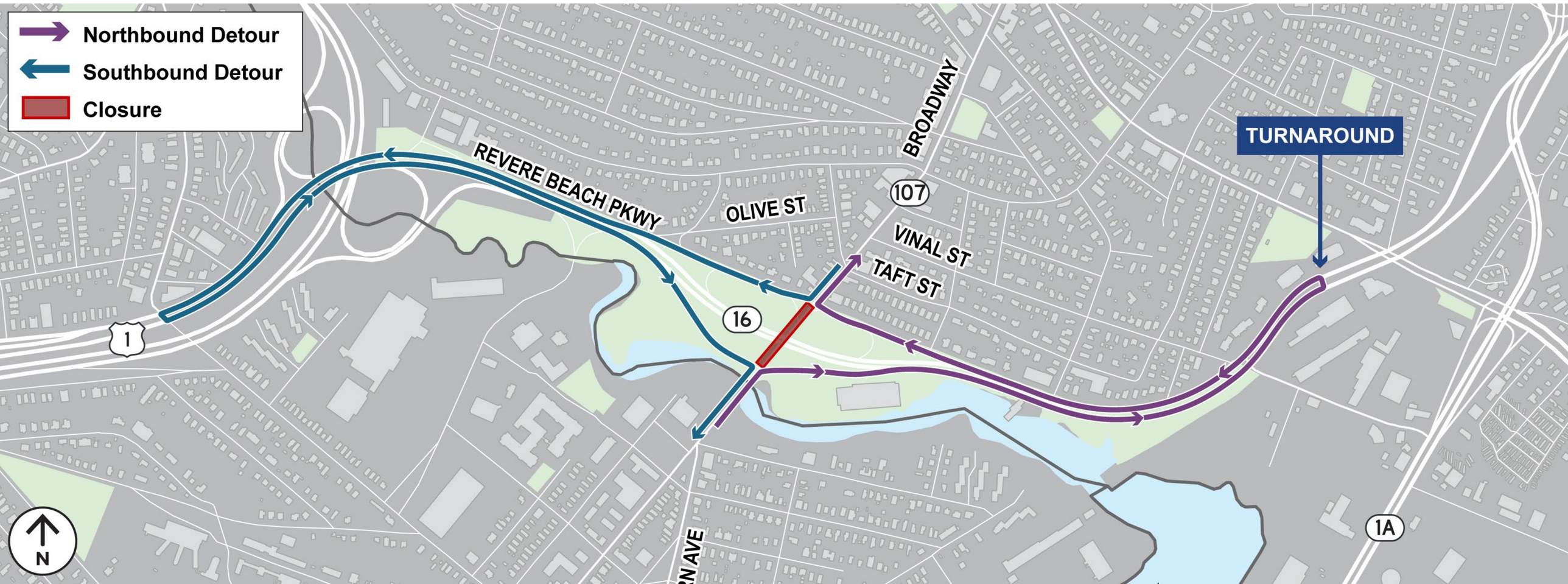
- Periodic Night Work Closures (9:00 p.m. to 5:00 a.m.)
- Required for specific activities (demolition and beam placement)



How will the road user be affected?

Road User Impacts

- Maintain two lanes in each direction on Revere Beach Parkway at all times
- Temporary crossovers
- Broadway detours (periodic night work only)
- Abutter access maintained at all times



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

Environmental, Cultural Resource & Community Impacts

- Required Permitting
  - Historic Section 106 / Chapter 254
  - Hazardous Materials Research
  - NEPA
  - Water Quality Data Form
  - Coastal Zone Management Review



NPS Form 10-900-a
(8-86)

OMB Approval No. 1024-0018

United States Department of the Interior
National Park Service

National Register of Historic Places
Continuation Sheet

Revere Beach Parkway
Metropolitan Park System of Greater Boston MPS
Middlesex and Suffolk Counties, MA

Section number 7 Page 7



How will your property be impacted?

Preliminary Right of Way (ROW) discussion
25% Design Public Hearing

- MassDOT is responsible for acquiring all necessary rights in public land for design, construction, and implementation of this project.
  - Fee takings, permanent easements and/or temporary construction easements may be required.
- Affected property owners will be contacted by personnel from the MassDOT ROW Bureau or consultants representing the responsible agency.
  - Property owners are protected under Massachusetts General Laws, primarily Chapter 79.
- Preliminary ROW drawings are available in these chambers for public review and comment.

At this stage of design, the Right of Way process has not been finalized. This meeting is an opportunity for the public to comment on any impacts to properties.

MassDOT Massachusetts Department of Transportation Highway Division



What are our next steps?

Our Next Steps

1. 75% Design Submittal
   April 2025
2. 100% Design Submittal
   August 2025
3. PS&E Design Submission
   October 2025
4. Advertise Construction Contract
   June 2026
5. Open Bids
   July 2026



How will we keep you informed?

How to Reach Us

- Two-way communication between the project team & the community
  - Email: MassDOTProjectManagement@dot.state.ma.us
  - MassDOT website: https://www.mass.gov/event/

- Project website: https://public.govdelivery.com/accounts/MADOT/subscriber/new?topic_id=MADOT_237
  - Public can subscribe to receive project updates and advisories on the project website



Questions and discussion

Questions and Discussion

- Raise your hand to be called on for questions
- Please state your name and connection to the project before your question

massDOT
Massachusetts Department of Transportation
Highway Division

Thank You

Revere Beach Parkway (Rt 16) over Broadway (Rt 107)

Bridge Replacement Project

Revere City Hall | January 15, 2025 | 6:00 PM

Project File No. 612184

MassDOTProjectManagement@dot.state.ma.us