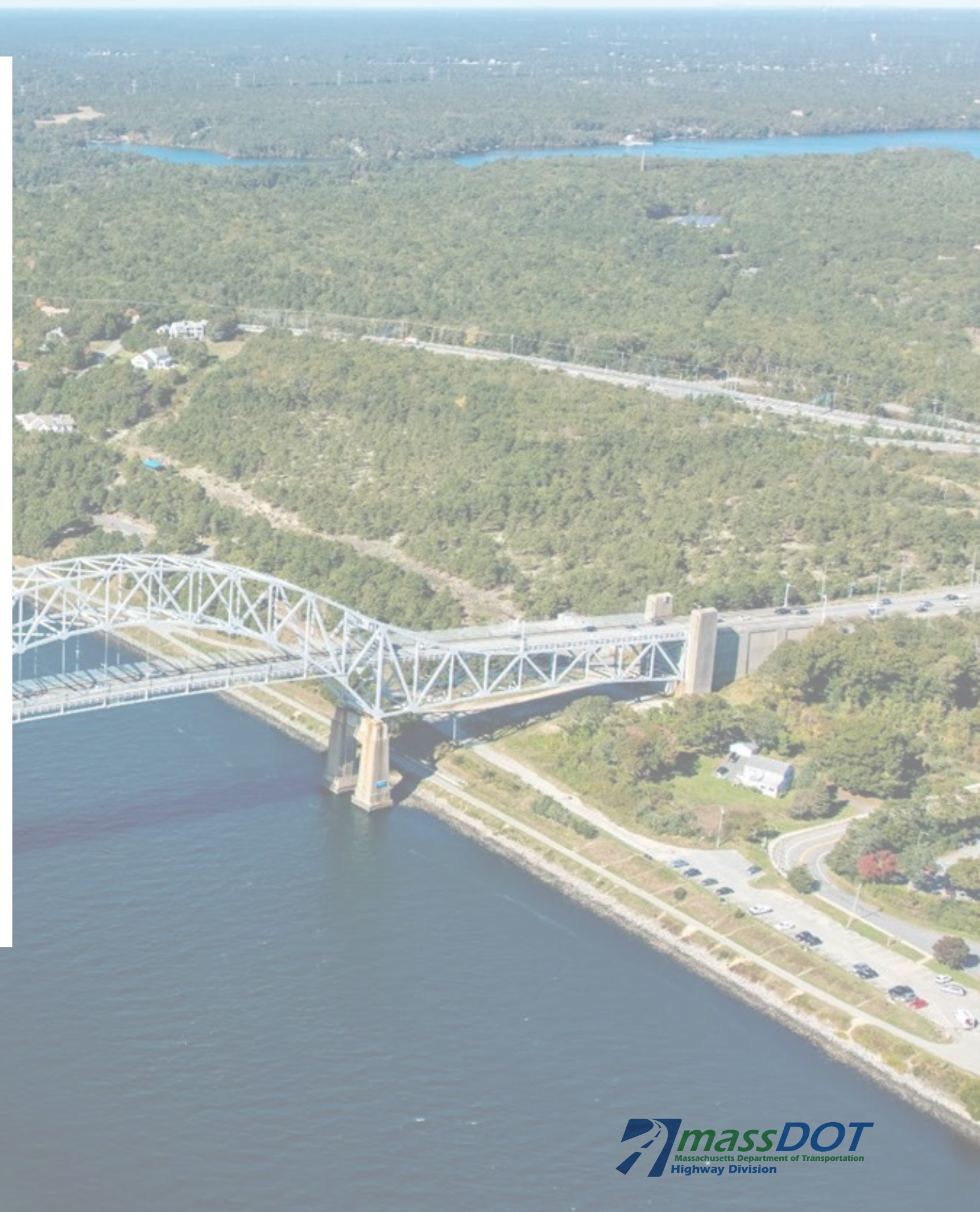




# Cape Cod Bridges Program

*Presentation to Cape & Islands Bridge Coalition*

March 6, 2025



# Overview

## Cape Cod Bridges



### Program Purpose

- The purpose of the Cape Cod Bridges Program is to improve cross-canal mobility and accessibility between Cape Cod and mainland Massachusetts for all road users and to address the increasing maintenance needs and functional obsolescence of the aging Cape Cod Canal highway bridges.

### Program Scope

- Phased replacement of the Sagamore Bridge and the Bourne Bridge
- Improvements to the bridge approach roadways
- Multimodal improvements including Shared Use Paths

### Estimated Program Cost

- \$2.4 Billion for the Sagamore Bridge

# History

## Cape Cod Canal and Bridges Program



- Cape Cod Canal first studied in 1776
- First Bourne Bridge opened in 1911; first Sagamore Bridge opened in 1913
- Canal initially opened in 1914; taken over by the federal government in 1925.
- Current Sagamore and Bourne Bridges opened in 1935
- Canal widened and deepened in 1930
- Major rehabilitations in 1980s



# Environmental Permitting Update



**May 2024** - FHWA concluded the NEPA Scoping Process with:

- Agency coordination meeting and correspondence;
- Virtual public meeting, with 367 attendees;
- Open House in Bourne, with 283 attendees and over 90 individual comments

# Required Permits and Approvals

MassDOT anticipates obtaining the following environmental authorizations and permits.

## **Federal**

NEPA Review

US Fish and Wildlife Service

National Marine Fisheries Service

Section 4(f) of the US DOT Act Section

Section 106 of the National Historic  
Preservation Act

Section 404 of the Clean Water Act

US Coast Guard Bridge Permit

## **State and Local**

MEPA Review

MA Endangered Species Act

Section 401 Water Quality Certificate

Chapter 91 Waterways License

Coastal Zone Management Act

Wetlands Protection Act

State Archaeologist Permit

# Federal and State Permitting: Impact Assessment

## *Environmental Permitting*

## *Documents Will Address a*

## *Broad Array of Potential*

## *Impacts*

Transportation, Traffic, and Safety  
Pedestrian and Bicycle Facilities  
Navigation  
Socioeconomics  
Land Use, Zoning, and Community  
Cohesion  
Community Facilities  
Property Acquisition, Displacement and  
Relocation  
Wetlands and Floodplains  
Water Quality and Stormwater  
Threatened, Endangered, and Protected  
Species  
Coastal Resources  
Air Quality  
Noise  
Resiliency  
Visual Resources  
Cultural Resources  
Publics Parks and Recreation Facilities  
Solid and Hazardous Material and Waste  
Management  
Public Utilities and Services  
Public Health  
Indirect and Cumulative Effects

## Preliminary Analysis

All details will continue to be evaluated and expanded upon the DEIS/DEIR.

- Less than 5000 square feet of wetland impacts
- Substantial safety and multimodal improvement
- Connectivity improvements for all users
- Navigability improvements
- Adverse Effect for the demolition of the National Register-Listed bridges mitigated by the replacement bridge type
- No unanticipated impacts to sensitive archaeological resources



## Public Involvement



MassDOT has conducted multiple public meetings and open house events

MassDOT presented the “build” alternative at a November 2024 open house event attended by over 450 residents

Public feedback - strong support for the replacement of the Bourne and Sagamore Bridges

MassDOT continues to engage an Advisory Group comprised of local and regional residents and elected officials



# Roadway Interchange Update



- The Interchange Options were presented to the Advisory Group in October 2024.
- This process was also presented at the November Open House.
- General public consensus on the recommended Interchange Options, which will be included in the Draft EIS.
- The preliminary design is advancing based on these recommendations.

## Bridge Type – Twin Network Tied Arch

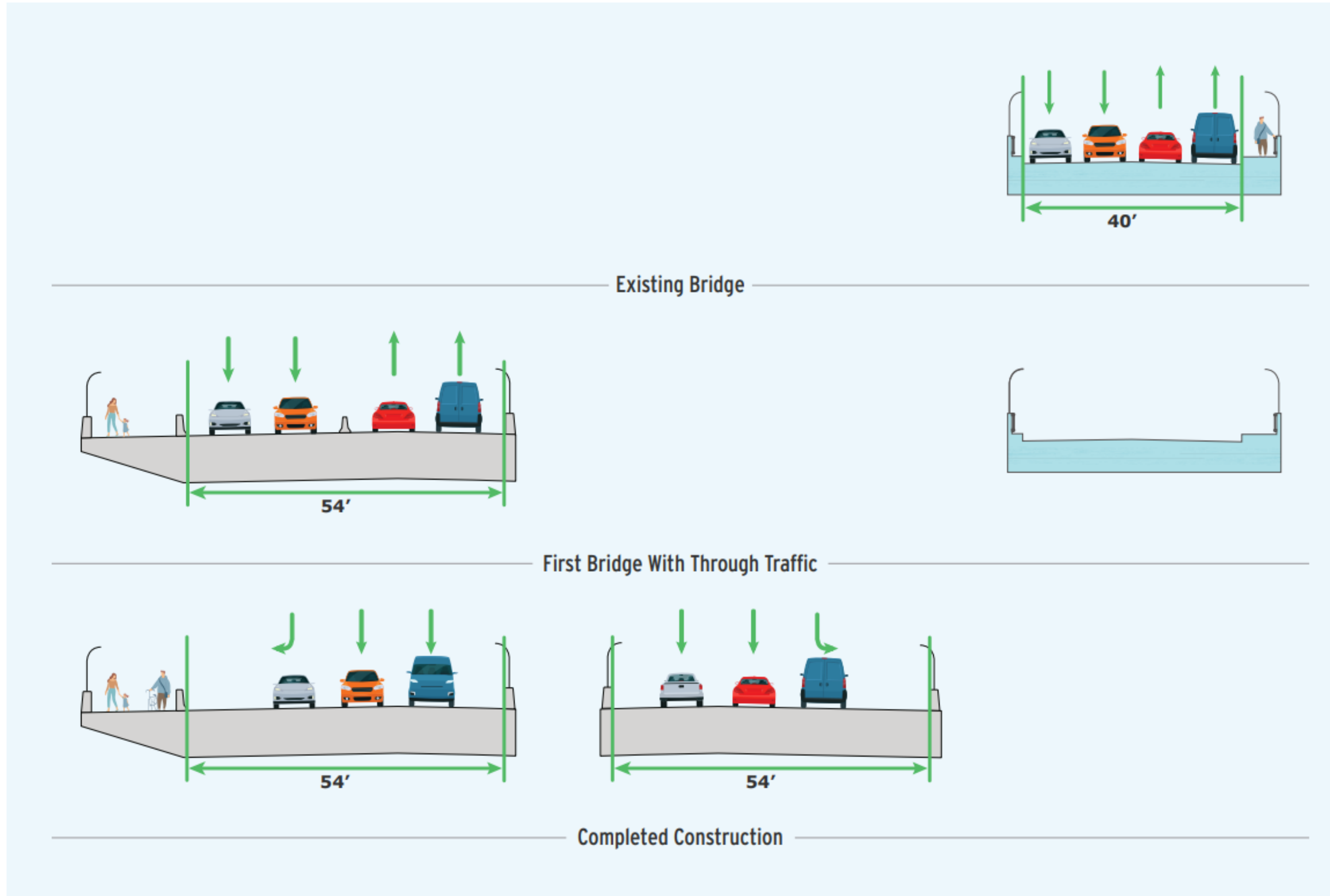


# Construction Phase

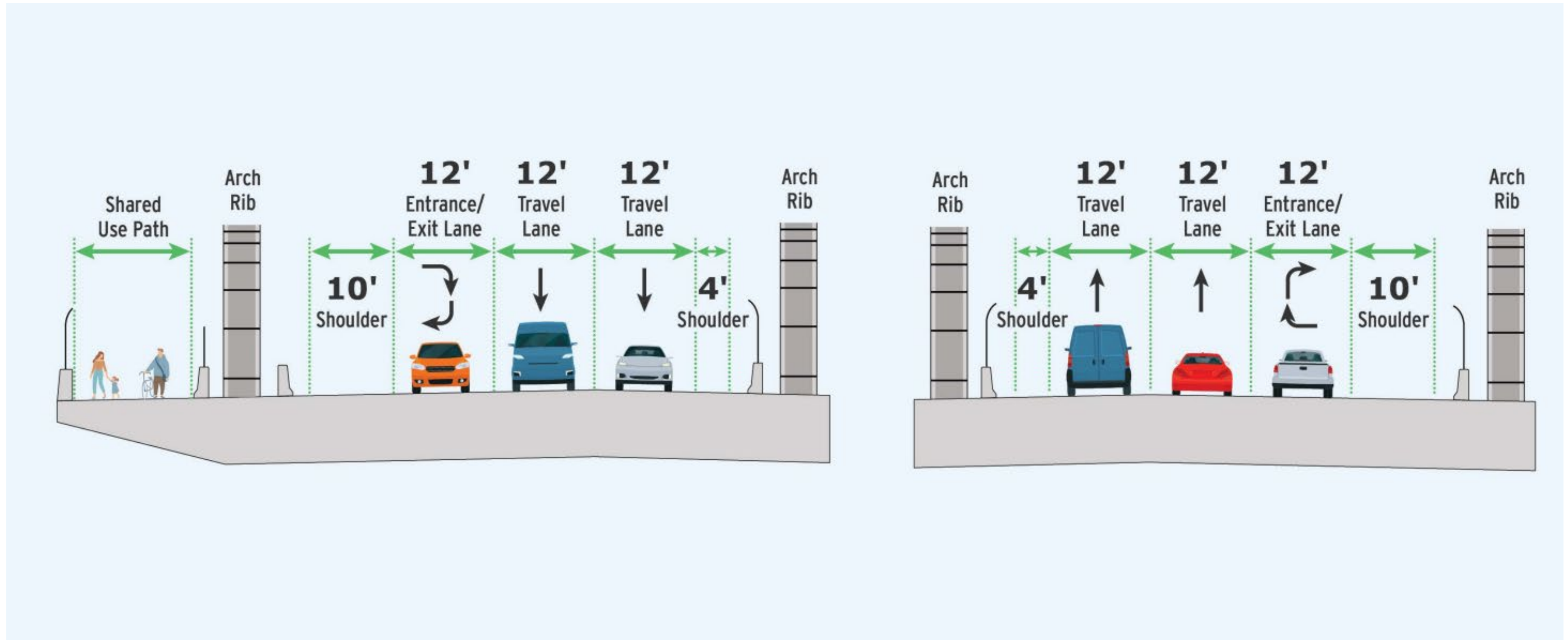


- The preliminary design is advancing with the following construction phase goals:
  - Maintain two lanes of travel in each direction across the canal at all times
  - Maintain ramp connections with limited disruptions
  - Remove traffic from the existing bridges as soon as practical
- Work will take place on a year-round basis

# Construction Staging at Canal Crossing

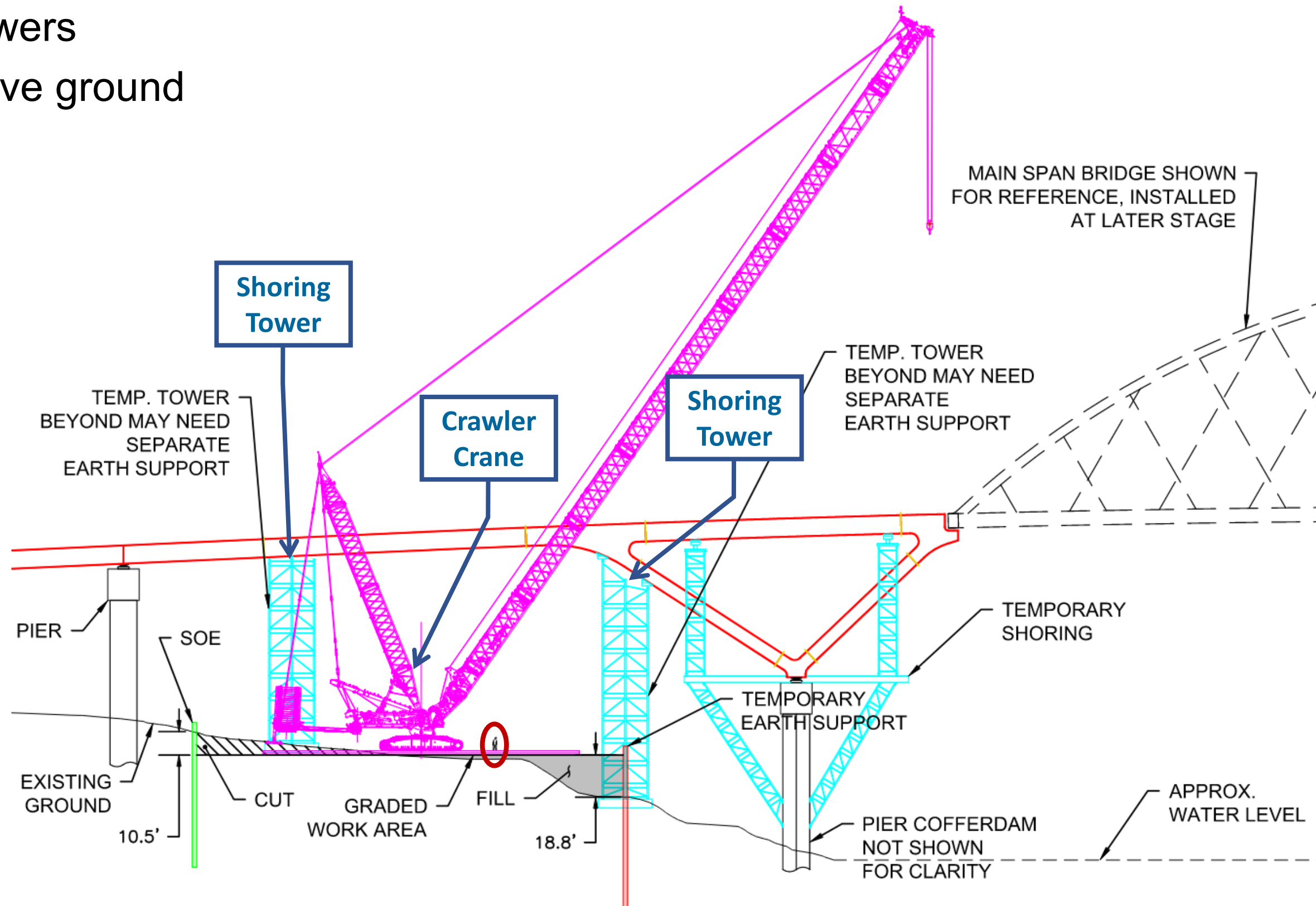


# Bridge Type – Lane Configuration



# Delta Frame and Approach Span Construction

- Large land-based cranes
- Tall shoring towers
- Work high above ground



# Schedule Update



- Major federal and state environmental documents to be filed July 2025
- Record of Decision September 2026
- Draft RFP Sept. 2026
- Notice to Proceed Jan. 2028

## Next Steps/Upcoming Activities

Prepare and publish DEIS/DEIR

Continue to advance preliminary design

Upcoming meetings:

- **Cape Cod Bridges Advisory Group** – March 13<sup>th</sup> Mass. Maritime Academy
- **Cape & Islands Municipal Leaders Association** – March 14<sup>th</sup>
- **Spring 2025** – Meetings with Town of Bourne, BRA
- **Spring 2025** – Section 4(f) public meeting to present impacts, mitigations and benefits to recreation facilities effected by the project
- **Summer 2025** – DEIS public meeting
- **ROW, Borings/Vegetation Management**





# *Thank You*

*Cape Cod Bridges Program*

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