

Powder Point Bridge Replacement Project

Public Information Meeting & Listening Session

February 11, 2026

Project File No. 612006



Agenda

- 01 Meeting Structure
- 02 Introductions
- 03 Project Background
- 04 Current Conditions
- 05 How We Got Here
- 06 Design Concepts
- 07 Next Steps
- 08 Listening Session



Meeting Set Up

1. Design Concept Presentation
 - Background
 - What we have heard
 - Design Concepts
2. Listening Session
 - Informal discussion
 - Tables hosted by project team members
 - Questions and feedback welcomed
3. Q&A



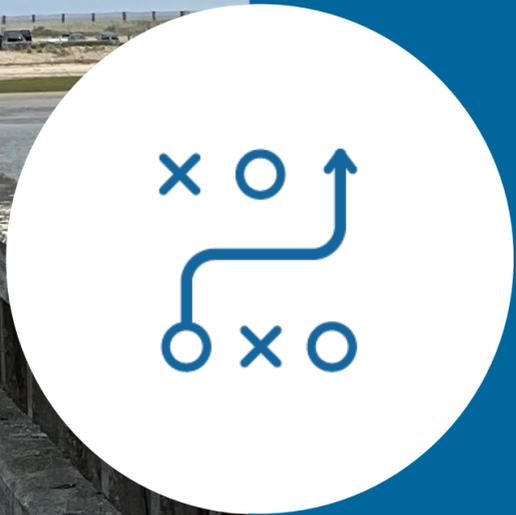
Introductions

MassDOT Highway Division Team

- Dan Racicot: Legislative Liaison
- Marco Pereira: Project Manager
- Jeff Shrimpton: Program Engineer for Design, Environmental Section
- Kurt Jergensen: Historic Bridge Specialist
- George Batchelor: State Highway Landscape Architect
- Pedro Hernandez: Design Architect
- Shane Sousa: District 5 Bridge

Bridge Design Team

- Peter Wu: HDR Project Manager
- Tony Santoro: HDR Deputy Project Manager
- Ben Holsapple: HDR Lead Structural
- Ety Padmodipoetro: Urban Idea Lab Architect



Project Understanding

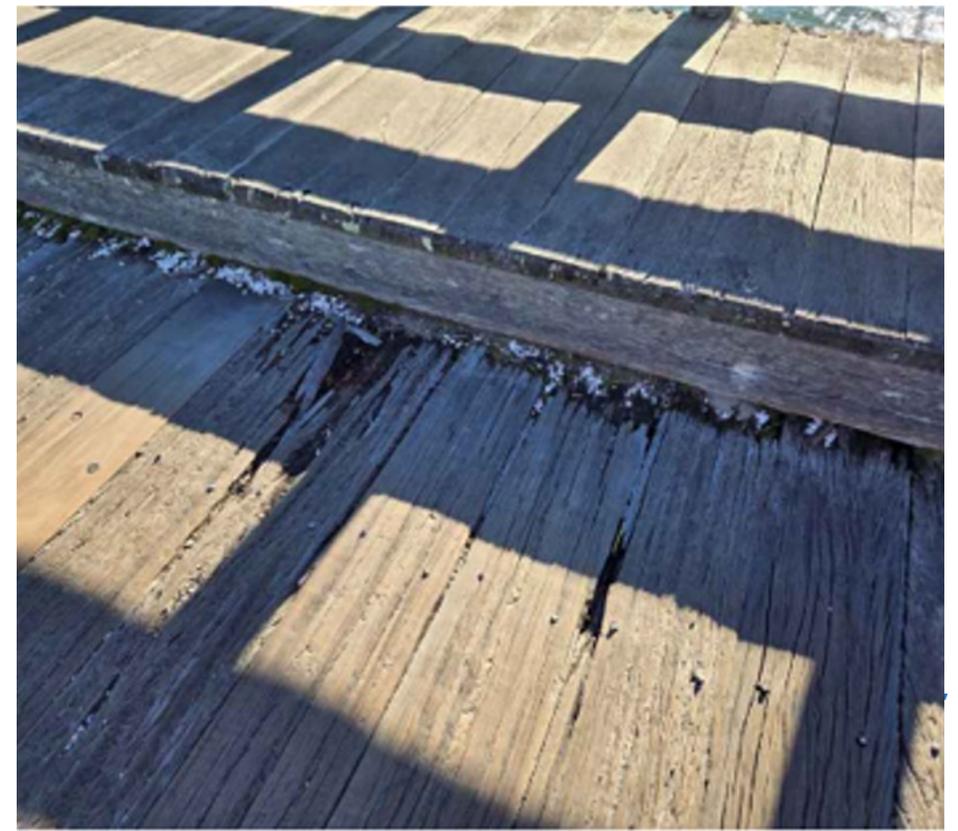
Background

- Original structure damaged by fire in 1985
- Replacement bridge constructed in 1986
- Repairs are frequent, costly, and increasing
- Harsh marine environment



Current Conditions

- Serious condition due to marine environment
- Fiber Reinforced Polymer (FRP) repairs
- Vehicles traveling over the bridge are limited to no more than 4 tons in weight
- If two adjacent piles were to fail, the bridge would likely require immediate closure
- 23 piles have lost capacity
- Bowed planks and underside rot
- Splitting wood, loose planks, missing fasteners, and raised nails
- Weathering
- Costs are surpassing the “longevity” of the repairs



How Did We Get Here?



June 18, 2025
Public Information Meeting #1



Summer 2025
MassDOT confers with Town of Duxbury



Summer 2025
A historic bridge architect joins the project team



September 15, 2025
The Select Board votes to continue the project



October 17, 2025
Powder Point Bridge Advisory Board briefing



October 21, 2025
Public Information Meeting and Listening Session



Fall 2025 – Winter 2026
Design concept development



Feb 2026
Powder Point Bridge Advisory Board briefing



MassDOT & Design Team Goals

- Present preliminary design concepts and obtain community feedback for further development
- Construct replacement bridge with structurally sound materials that meet current bridge design standards, and improve safety and connectivity for roadway users throughout the service life of replacement structure.
- Current MassDOT and FHWA bridge requirements, including 100-year service life.
- Incorporate design elements to create a context-sensitive bridge design.



Community Feedback

Community Feedback

- The proposed Powder Point Bridge should fit into the historic Duxbury
- Consider wood structure to evoke a sense of ease, warmth and calm
- Maintain magical sound of bridge
- Sidewalks should provide a safe area for all pedestrians including traffic calming
- Provide amenities along the sidewalk, such as overlook areas





Design Concepts

View From the Water

Design Concept 1



Design Concept 2



On the Bridge Experience

Design Concept 1



Design Concept 2



Design Concept 1



Design Concept 1

- Honor historic character
- Provide modern, safe, and durable features
- Protected sidewalk on roadway
- Maintain the acoustic profile
- Use similar materials, scale, and rhythm in railing design
- Respect visual cadence of pile spacing
- Use high-quality timber or marine treated wood



Design Concept 1 – Beach View



Design Concept 1 – Bridge Approach



Design Concept 1 – Protected Walkway



Design Concept 1 – Pedestrian Crossing



Design Concept 1 – Bridge Underside Experience



Design Concept 1



Design Concept 2



Design Concept 2

- Honor historic character
- Provide modern, safe, and durable features
- Maintain sense of openness on the bridge
- Place traffic barrier along the railing
- Functional and modern interpretation of railing design
- Respect visual cadence of pile spacing
- Use composite or timber planks on concrete sidewalk



Design Concept 2 – Beach View



Design Concept 2 – Bridge Approach



Design Concept 2 – Open Walkway



Design Concept 2 – Pedestrian Crossing



Design Concept 2 – Bridge Underside Experience



Design Concept 2



Beach View Comparison

Design Concept 1



Design Concept 2



On the Bridge Experience Comparison

Design Concept 1



Design Concept 2



Bridge Underside Experience Comparison

Design Concept 1



Design Concept 2



Water View Comparison

Design Concept 1



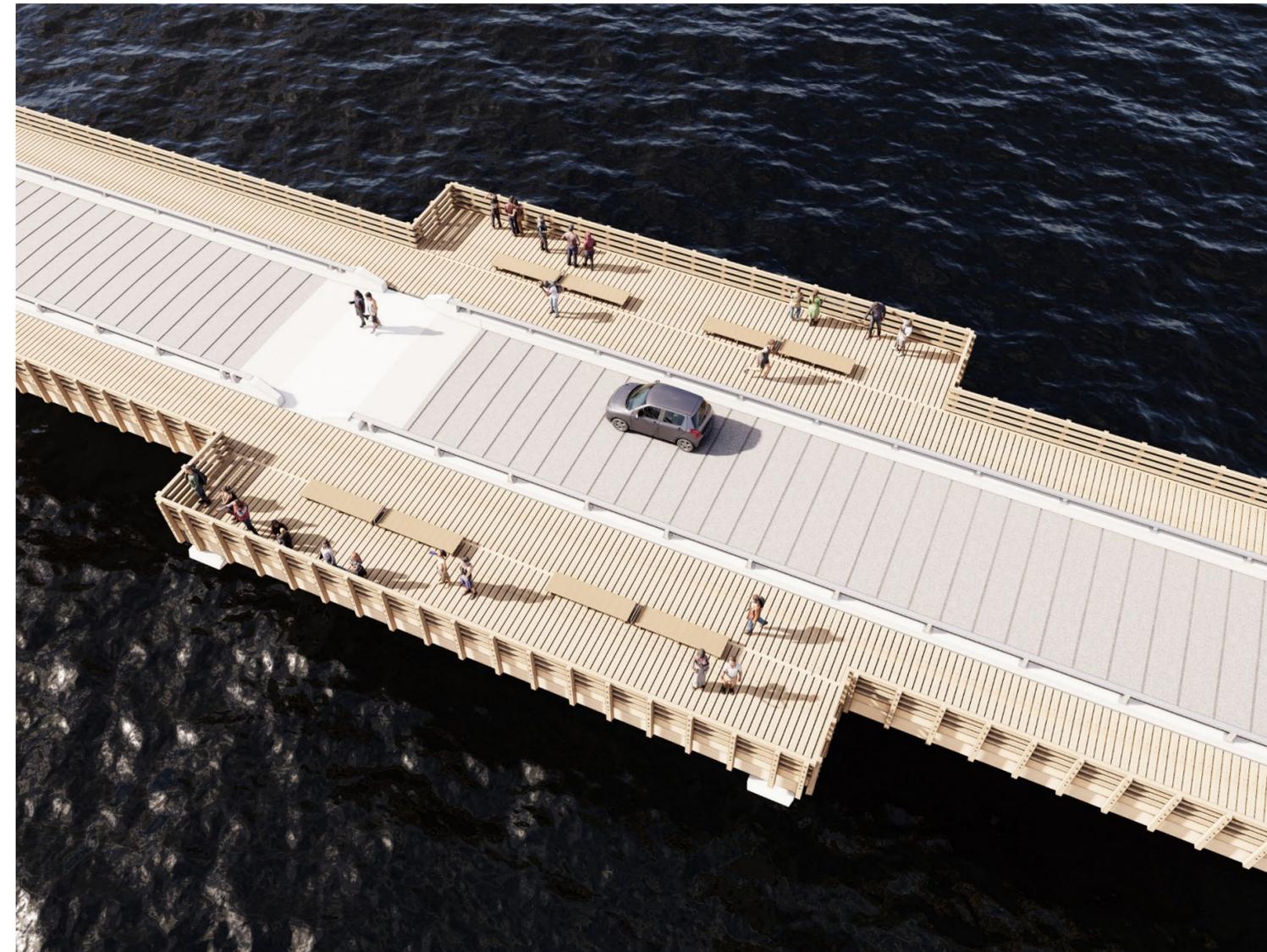
Design Concept 2





Bridge Amenities

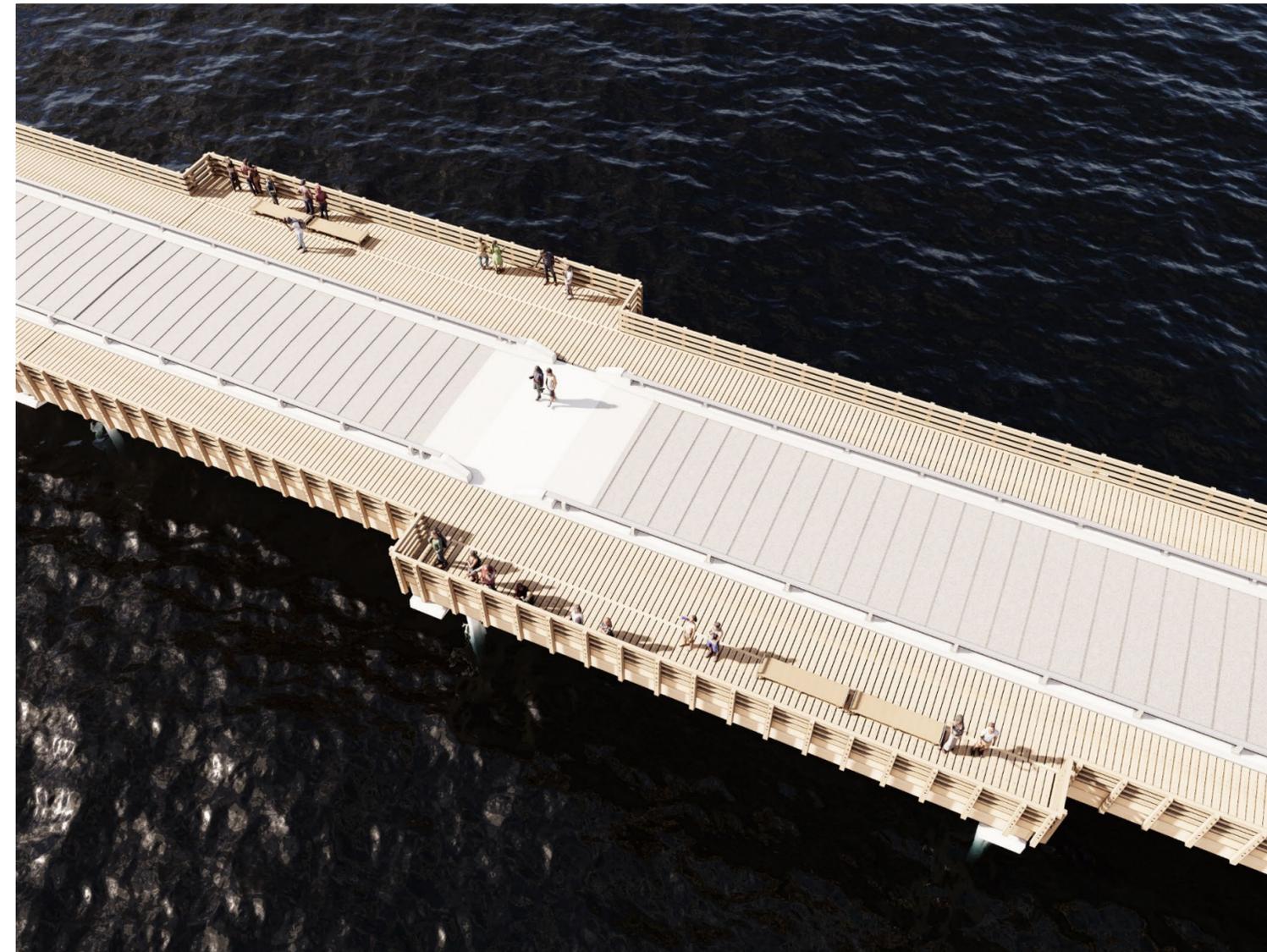
Design Concept Additions: 8'-0" Overlooks

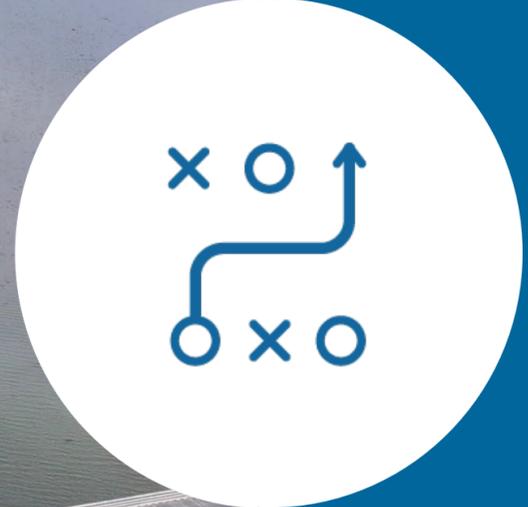


Design Concept Additions: 4'-0" Overlooks



Design Concept Additions: Alternating Overlooks





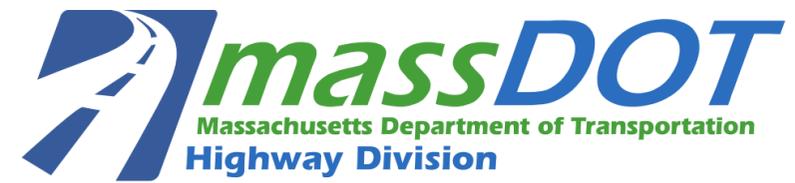
Questions & Answers

Stay Informed

- Project Website: <https://www.mass.gov/powder-point-bridge-replacement-project>



- Project Email: powderpointbridgereplacement@dot.state.ma.us



Thank You

Legislative Briefing

February 9, 2026

Project File No. 612006

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