



Presentation to the Board

Newton-Weston Bridge Bundle, Replacement and Rehabilitation at I-90/I-95, Including Ramp G DB Project

Wednesday, March 15, 2023

MassDOT Project File No: 606783



Overview

- *Bridge replacement of Route I-90 over Route I-95 and Charles River*
- *Bridge replacement of 3 bridges along Ramp G (over Ramps A/B, Hultman Aqueduct, Ramp K and Route I-90)*
- *Superstructure replacement Route I-90 over MBTA/CSX and Ramps A/B over Charles River*
- *Bridge rehabilitation – Ramps A/B over Route I-90 and Charles River, Route I-90 over Charles Street, Ramp C over Hultman Aqueduct*





Project Purpose

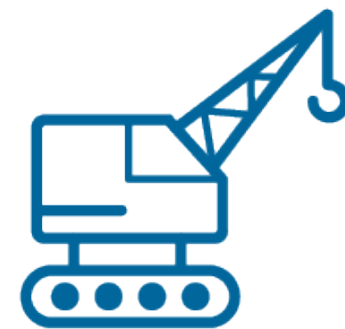
Purpose and Goals

Purpose

- To improve public safety for travel through the interchange

Project Goals

- Bridge Safety | Rehabilitations and Replacements
- Roadway Safety | Acceleration/Deceleration Lanes and Wider Shoulders
- Vertical Clearance | Improve Roadway Profile
- Seismic Resistance | Replace Bridge in conformance with Seismic Standards
- Neighborhood Improvements | Provide noise barriers
- Stormwater Management | Improve stormwater treatment
- Minimize Environmental Impacts | Respect and work in context



Construction Scope

Project Elements

Bridge Improvements

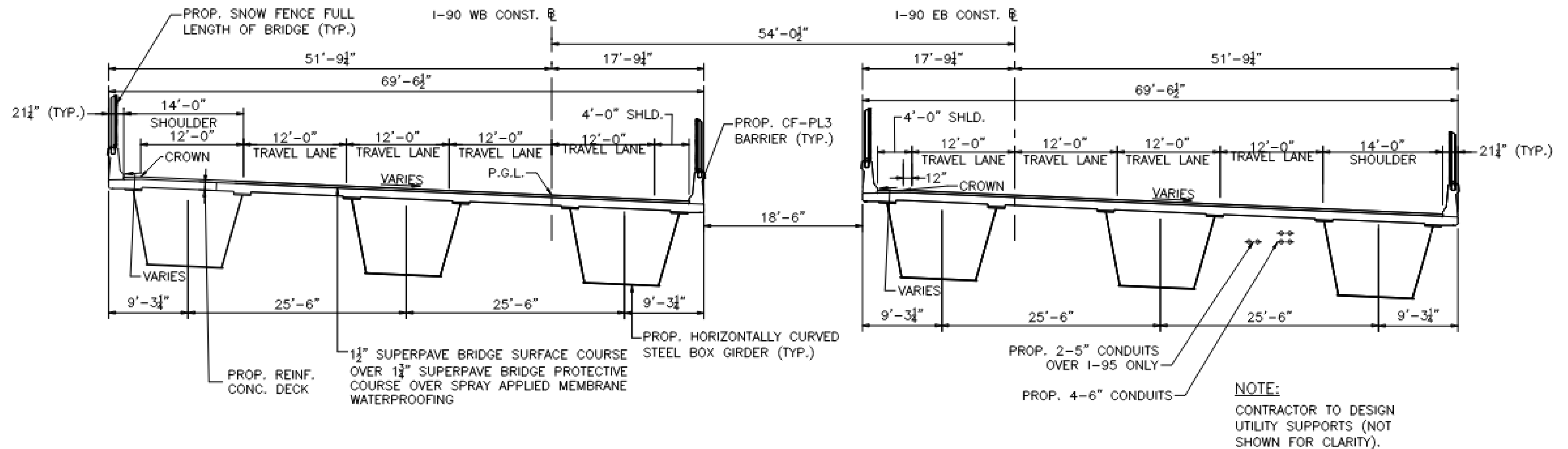
- Full replacement of 4 bridges
- Replacement of 2 bridge superstructures
- Rehabilitation of 3 bridges
- Increase vertical clearance over I-90, I-95, and associated ramps
- Maintain existing clearance for train traffic

Roadway Improvements

- Extend acceleration and deceleration lanes
- Construct wider shoulders
- New roadside barriers
- New highway lighting
- New pavement marking and signs
- New retaining walls

Proposed Bridge Section – I-90

Westbound-Provide (3) 12-foot travel lanes plus 12-foot deceleration lane.
Eastbound-Provide (3) 12-foot travel lanes plus 12-foot acceleration lane.
Provide 14-foot right shoulders and 4-foot left shoulders.



Other Project Elements

MBTA

- Work within MBTA Right of Way
- Coordination with MBTA (Commuter Rail, CSX, and Amtrak)
- Maintain existing vertical and horizontal clearances
- Service disruptions to facilitate construction:
 - Two weekend Commuter Rail closures (Friday night through Monday morning)
 - Busing during service disruptions
 - Advance and concurrent public outreach

Coordination

- City of Newton, Town of Weston
- MBTA, MWRA, Enbridge Gas, MassPort Logan Express, Adjacent MassDOT projects

Other Project Elements

Utilities

- Design-Builder responsible for relocation: ITS, Fiber-Optic infrastructure
- Utility company responsible for relocating cables and local Fiber-Optic lines
- MBTA responsible for relocating power, communications, PTC for Bridge N-12-067
- Fiber-Optics will be relocated to the south side of I-90 during phased construction

Laydown and Staging Areas

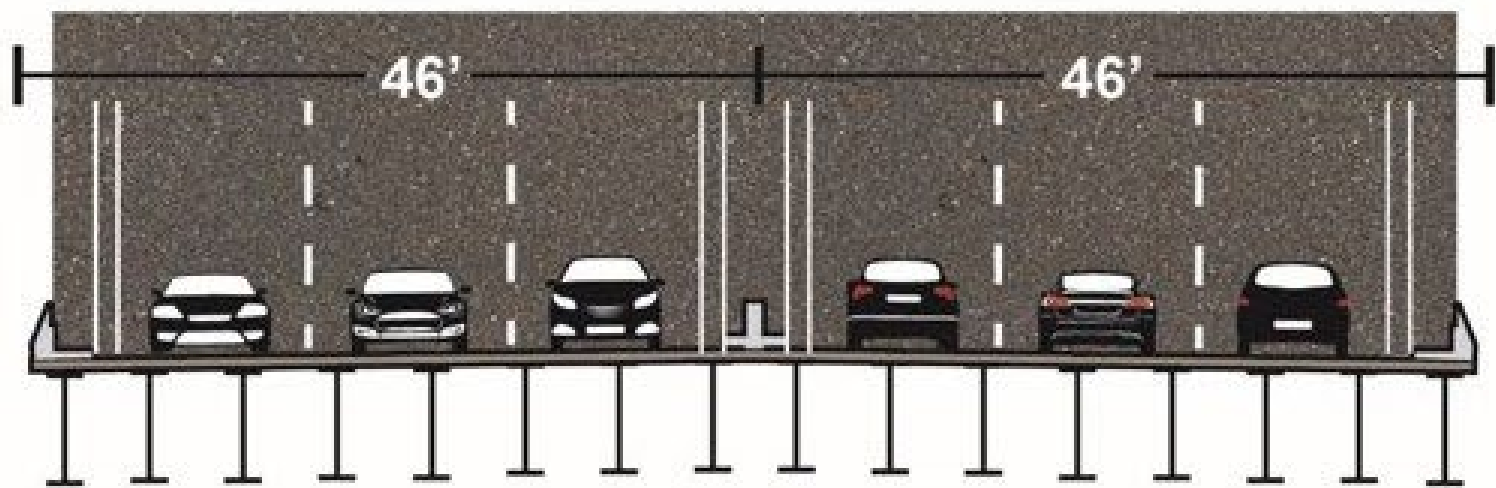
- Design-Builder is responsible for securing their own laydown and staging areas

Traffic Management

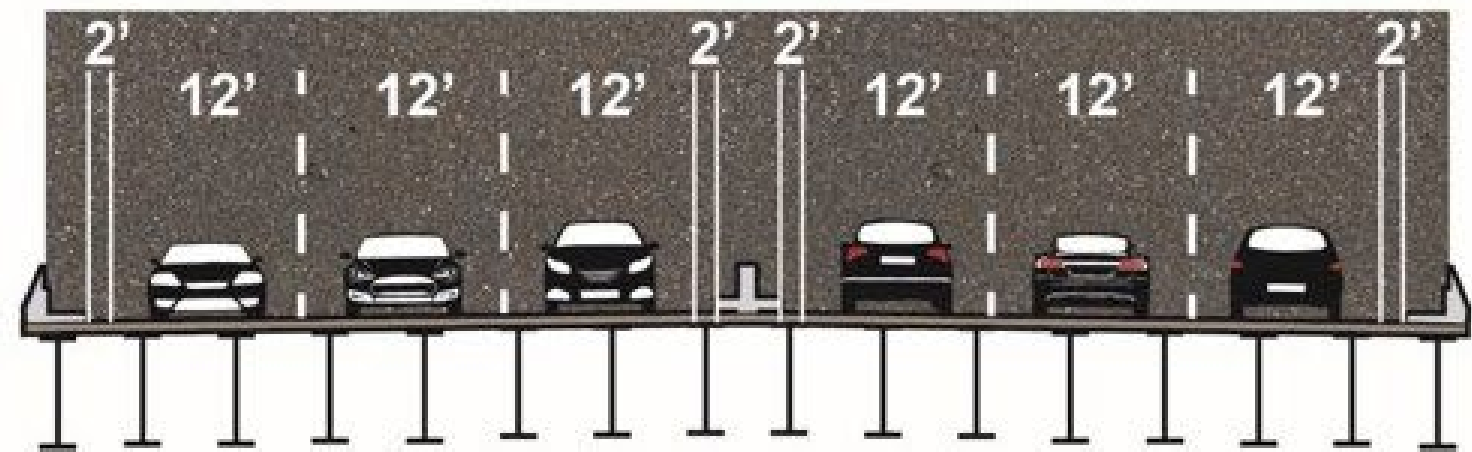
- Phased construction
- Maintain existing lane configurations throughout construction
- I-90 reduced to 1 lane in each direction for 2 accelerated weekends

Anticipated Staging I-90 – Looking Eastbound

Existing Cross Section



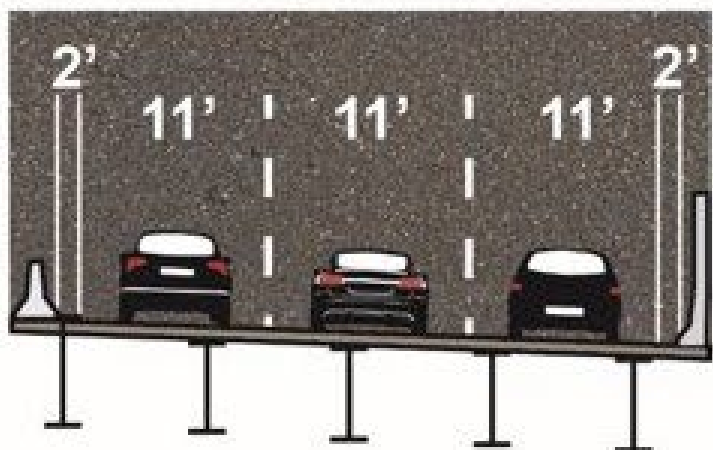
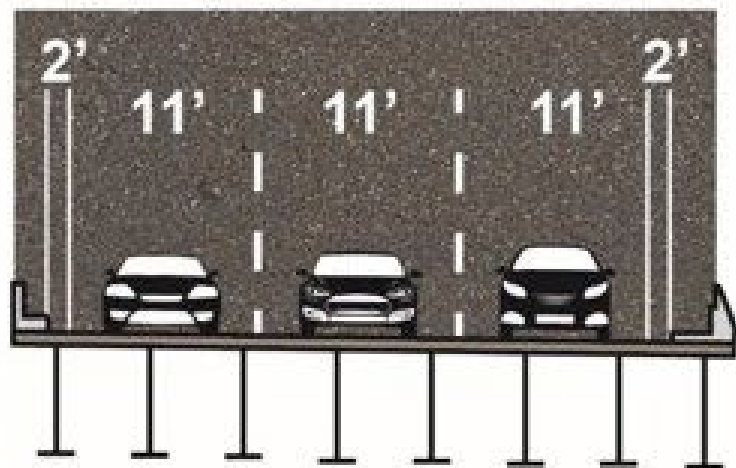
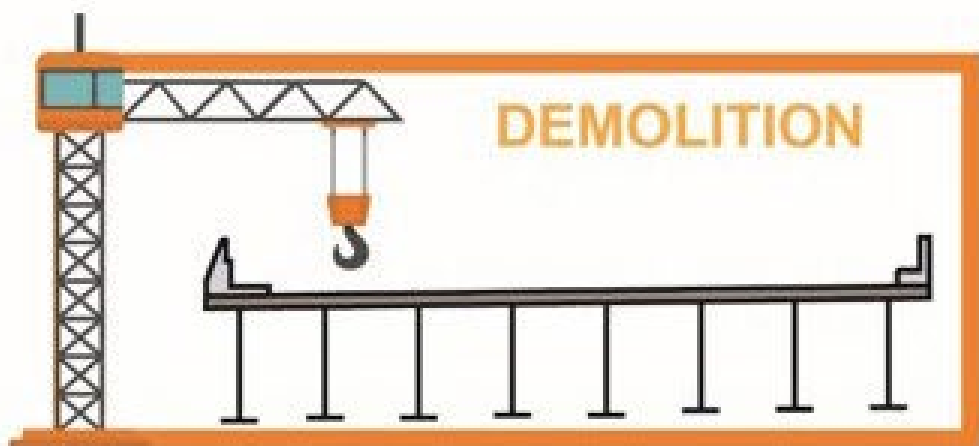
Stage 1 Construction



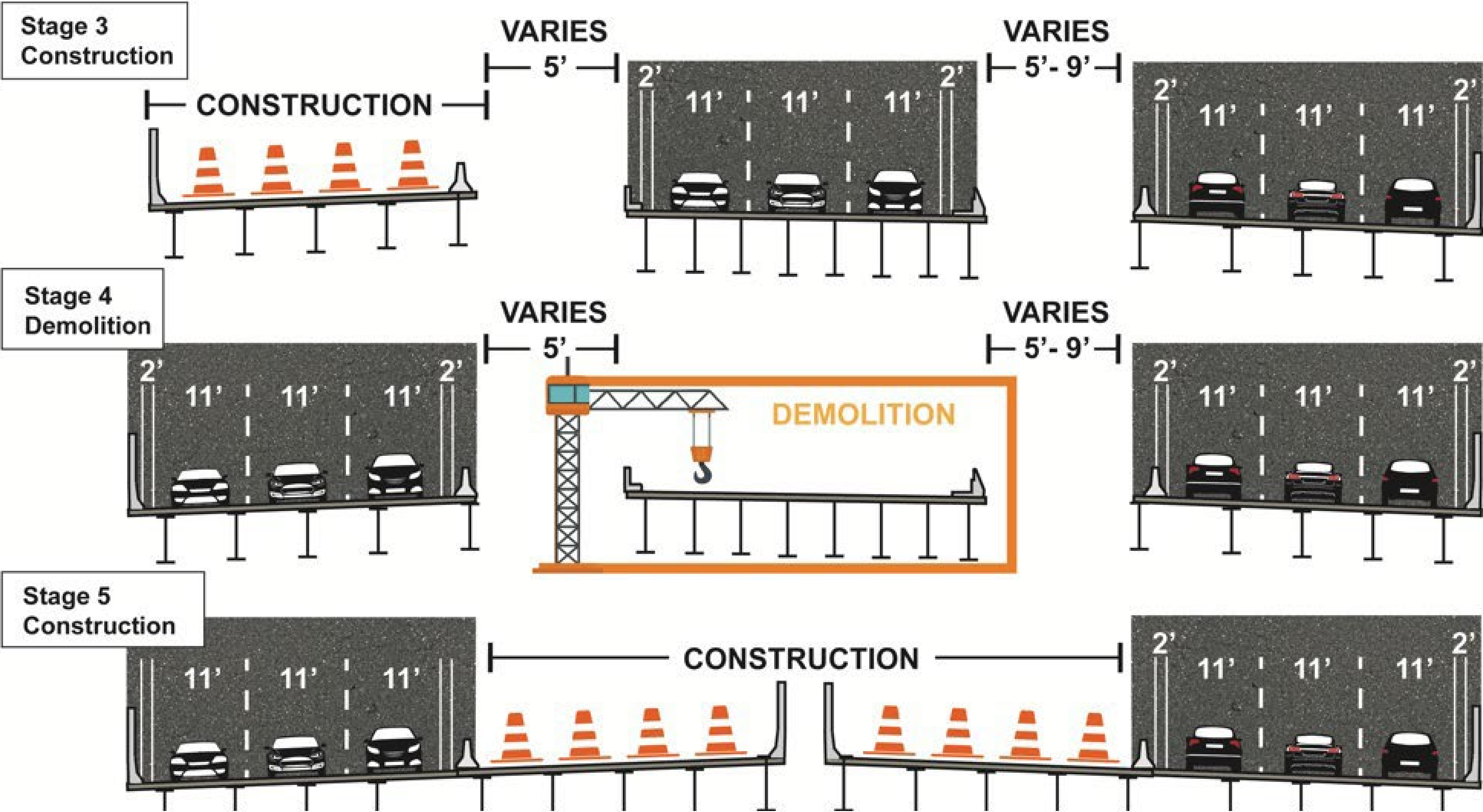
CONSTRUCTION



Stage 2 Demolition



Anticipated Staging I-90 – Looking Eastbound





Public Process

Public Outreach

Public Involvement

- *General public*
- *Local municipalities*
- *Neighborhood groups*
- *Adjacent business owners*
- *Elected officials*

Communication Methods

- *Broadcast and print media*
- *Variable message signs*
- *Project webpage*
- *Mobile media*
- *MassDOT and Commonwealth websites*
- *Social media*
- *GovDelivery*
- *Fliers, fact sheets, newsletters, e-mail, presentations, briefings, meetings, and signs*

Public Engagement

Public Involvement

- *Virtual Legislative Briefing*
 - *Tuesday, March 8, 2022*
- *Virtual Public Information Meeting*
 - *Thursday, March 31, 2022*
 - *Formal responses to written questions provided following public information meeting*
- *In Person Noise Wall Meeting*
 - *Thursday, June 30, 2022*
- *Virtual Pigeon Hill Trail Meeting*
 - *Wednesday, August 17, 2022*
 - *Formal responses to e-mailed questions following meeting*
- *Virtual Design Public Hearing*
 - *Thursday, August 18, 2022*
 - *Formal responses to written questions provided following design public hearing*

Design-Builder's Role

Public Involvement

- *Public Participation (Outreach) Plan*
- *Coordination meetings with MassDOT, MBTA, State Police, Local Municipalities and their Emergency Services departments, local elected officials, the community, utility owners, state and local commissions*
- *Provide content for the MassDOT Project Website*
- *Public outreach for disruptions of transit services (Commuter Rail and Amtrak)*

Public Information Meetings

- *One meeting after MassDOT acceptance of 75% Highway Design*
- *30 days prior to commencement of any construction activities*
- *30 days prior to completion of major milestones and traffic phase changes*
- *7 days prior to short duration closures*
- *14 days prior to long term partial or complete closures*



Environmental Permitting

Environmental Considerations

- *Section 401 of the Clean Water Act – Water Quality Certificate issued by MassDEP September 12, 2022 (BRPWW10-X287064) (BRPWW08-X286716)*
- *Section 404 of the Clean Water Act – Authorization under the New England General Permits issued by the US Army Corps of Engineers September 21, 2022 (File No. NAE-2020-01676)*
- *Section 106 of the Historic Preservation Act of 1966 – Cleared under a “No Historic Properties Affected” determination on May 4, 2020*
- *A Soil Characterization Program was not performed. However, contingency items will cover testing, handling, and disposal of contaminated materials should they be uncovered during construction.*

Environmental Considerations

Design-Builder's Responsibilities

- *Obtain all required Environmental Approvals/Clearances not already obtained by MassDOT and any Amendments based on design changes*
- *Preparation of all documentation required to satisfy any conditions of the NPDES Construction General Permit as it relates to their scope of work*



Adjacent Projects

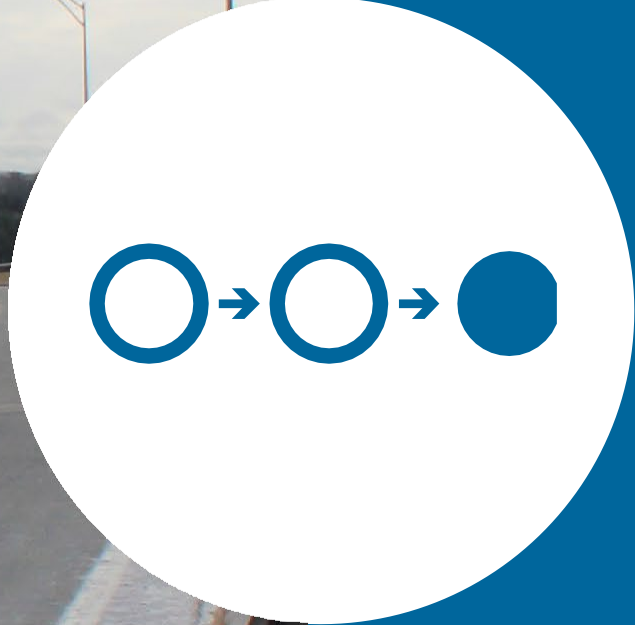
Coordination with Other Projects

Active Projects

- *Newton Weston. Multi-use Trail Connection from Recreation Road to Upper Charles Greenway Including Reconstruction of Pedestrian Bridge No. N-12-078=W-29-062*
- *Newton-Weston. Bridge Rehabilitation, Bridge No. N-12-010=W-29-005 Commonwealth Avenue (Route 30) over Charles River*

Anticipated Projects

- *Newton. Auburndale MBTA Station improvements*
- *Weston. Deck Replacement Bridge No. W-29-015(2KD) South Avenue (Route 30) over Route I-95*
- *Weston. Reconstruction on Route 30*



Procurement

Schedule of Events

| EVENT | DATE |
|--|-----------|
| Request for Letters of Interest | 4/27/2022 |
| Letters of Interest Due | 6/6/2022 |
| Open House for Questions | 6/28/2022 |
| Statements of Qualifications Due | 7/15/2022 |
| Design-Builders Short-Listed | 8/15/2022 |
| Final RFP Issued to Short-Listed Design-Builders | 8/25/2022 |
| Final RFP Issued to Short-Listed Design-Builders | 9/25/2022 |
| Technical & Price Proposals Due | 1/25/2023 |
| Oral Presentation | 2/15/2023 |
| Public Price Proposal Opening Date | 3/15/2023 |
| Anticipated Award Date | 4/15/2023 |
| Anticipated Notice To Proceed | 5/3/2023 |

Best Value Calculation

PRICE OPENING/BEST VALUE DETERMINATION

WEDNESDAY – MARCH 1, 2023



Best Value is lowest price per quality score point

Bridge Bundle, Replacement and Rehabilitation at I-90/I-95 Interchange
Design-Build

PROJECT VALUE: \$288,000,000.00

| NEWTON-WESTON 606783-120259 | Design-Builders | | | STEP |
|--|---|------------------------|------------------|--|
| | BHD-O&G I-90 I-95 INTERCHANGE WESTON | SKANSKA MCCOURT III JV | SPS-WALSH JV | |
| TECHNICAL SCORE | 80.91 | 82.17 | 92.42 | 1 Pre-Entered by MassDOT |
| PRICE PROPOSAL | \$404,996,000.00 | \$341,809,095.00 | \$318,831,312.68 | 2 Transferred from Bid Express |
| OVERALL VALUE RATING = PRICE PROPOSAL / TECHNICAL SCORE | 5,005,512.298 | 4,159,779.664 | 3,449,808.620 | 3 Calculated by MassDOT (step 2 / step 1) |
| | | | ↑ | Apparent Winning DB Entity |

Overall Project Budget

| LINE ITEM | BUDGET |
|--------------------------|-------------------------|
| Bid Amount | \$318,831,312.68 |
| Contingencies | \$ 47,824,696.80 |
| Construction Engineering | \$15,941,565.60 |
| Railroad Flaggers | \$ 110,000.00 |
| Traffic Police | \$ 7,495,054.00 |
| | |
| Incentives | \$12,000,000.00 |
| Total | \$402,202,629.08 |

Request of the Board

- *Staff request that the MassDOT Board authorize the Secretary of the Massachusetts Department of Transportation, or her designee, to award and execute MassDOT Construction Contract 120259: Bridge Bundle, Replacement, and Rehabilitation at I-90/I-95 Design-Build Project with SPS-Walsh JV in the amount of \$318,831,312.68.*



Thank You

Presentation to the Board

March 8, 2023

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