



Presentation to the Board

*Bridge Replacement, Route 3
NB/SB (Pilgrim Highway) Over
Franklin Street, DB Project*

Wednesday, July 19, 2023

Duxbury | MassDOT Project File No. 605294-121637



Overview

Replacement of Two Structurally Deficient Bridges with New Bridges that meet current Design Loading Requirements, Vertical Clearances, and Shoulder Widths.





Project Purpose

Project Purpose and Goals

- Replacement of Two Structurally Deficient Bridges with New Bridges that meet current Design Loading Requirements
- Design Bridges to Meet Current Seismic Requirements
- Construct Bridges and Approach Roadways to Accommodate Current Design Standards for Vertical Clearance and Shoulder Width



Construction Scope

Project Elements

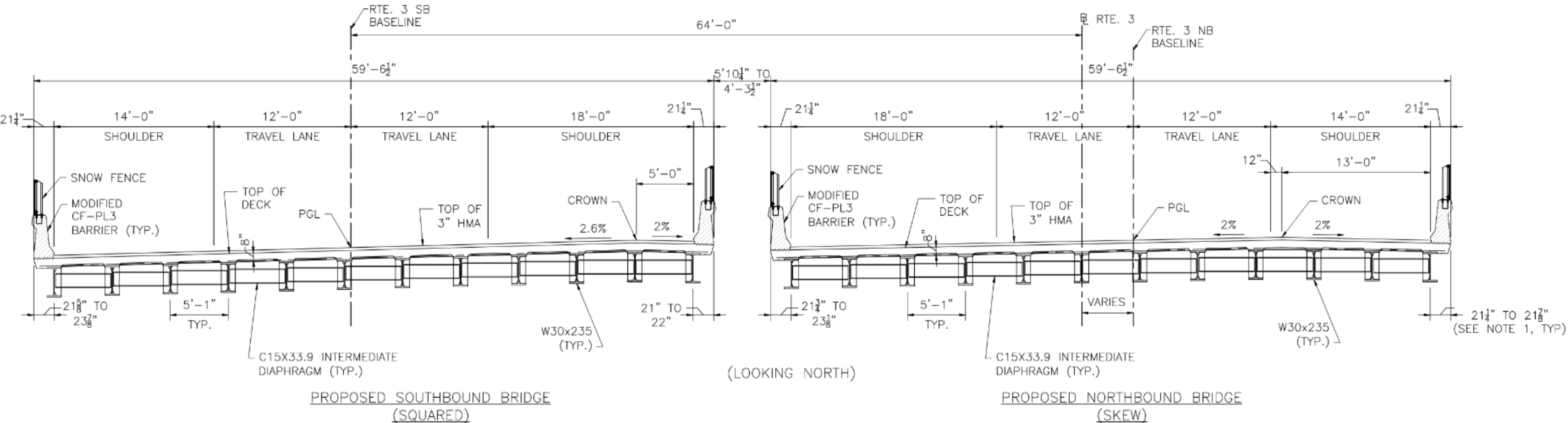
Bridge Improvements

- Full Bridge Replacements – single span structures with overbuild cross-section for the ability to provide additional capacity on Rt3 in the future
- Maintain two lanes of traffic for Route 3 Northbound and Southbound throughout construction
- Increase vertical clearances over Franklin Street to 16'-6"
- Widen to provide for increased safety and future maintenance

Roadway Improvements

- Local widening of Route 3 at bridges
- Reconstruction of Route 3 to establish cross slopes and superelevation as required for current standards
- Design and construction of updated roadway drainage
- Sidewalk improvements along Franklin Street

Proposed Bridge Sections – Route 3 over Franklin Street



Other Project Elements

Utilities

- No utility relocations are proposed.
- Protection of existing Verizon duct bank located under the existing northern sidewalk of Franklin Street

Coordination

- N/A

Laydown and Staging Areas

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

Traffic Management

- Phased construction
- Maintain two travel lanes in each direction on Route 3 throughout the construction except specified times.



**Public
Process**

Public Outreach

Virtual Design Public Hearing was held on Thursday, October 06, 2022

Formal responses to written questions provided following public hearing

Continued Public Involvement

- General public
- Local municipalities
- Adjacent property 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

Design-Builder's Role

Public Involvement

- Public Participation (Outreach) Plan
- Coordination meetings with MassDOT, FHWA, 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 all disruptions of transit services

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

- National Environmental Policy Act (NEPA) – Federal Highway Administration/MassDOT – Programmatic Categorical Exclusion approved by MassDOT on file.
- Section 404 USACE PCN General Permit coverage issued March 22, 2023.
- Section 401 MassDEP WQC Issued March 14, 2023, Amended March 31, 2023.
 - Above mentioned permits require renewal under new USACE Massachusetts General Permit before April 2024
- Project location is near Outstanding Resource Waters requires SWPPP review and approval by MassDEP under the WM 015 NPDES permit program.
- Section 106 of the Historic Preservation Act of 1966 – Cleared under a “No Historic Properties Affected” determination on November 17, 2021.
- Publicly available reportable release databases were reviewed without concerns during preliminary investigations. Contingency items will cover testing, handling, and disposal of contaminated materials should they be uncovered during construction.

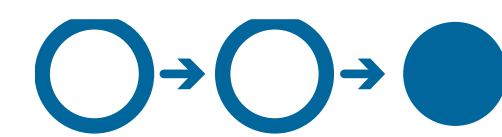
Environmental Considerations

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 in the NPDES Construction General Permit as it relates to their scope of work



Adjacent Projects



Procurement

Schedule of Events

EVENT	DATE
Request for Letters of Interest	11/2/2022
Letters of Interest Due	12/12/2022
RFO Close Date for Questions	1/6/2023
Statements of Qualifications Due	1/18/2023
Design-Builders Short-Listed	2/15/2023
Draft RFP Issued to Short-Listed Design-Builders	3/8/2023
Final RFP Issued to Short-Listed Design-Builders	3/29/2023
Technical & Price Proposals Due	6/7/2023
Oral Presentations	6/22/2023
Public Price Proposal Opening Date	7/6/2023
Anticipated Award Date	TBD
Anticipated Notice to Proceed	TBD

Best Value Calculation

PRICE OPENING/BEST VALUE DETERMINATION

THURSDAY – JULY 6, 2023



Best Value is lowest price per quality score point

Federal Aid No. HIP(BR)-003S(238)X
Bridge Replacement Br. No. D-14-010 (48H & 48J)
Route 3 NB/SB (Pilgrim Highway) over Franklin Street
Design-Build

PROJECT VALUE: \$28,585,000.00

<u>DUXBURY</u> <u>605294-121637</u>	Design-Builders			STEP
	<u>AETNA BRIDGE COMPANY</u>	<u>SKANSKA USA</u> <u>CIVIL NORTHEAST INC</u>	<u>SPS NEW ENGLAND INC</u>	
TECHNICAL SCORE	92.16	86.75	78.28	1 Pre-Entered by MassDOT
PRICE PROPOSAL	\$39,467,000.00	\$29,290,000.00	\$42,414,450.00	2 Transferred from Bid Express
OVERALL VALUE RATING = PRICE PROPOSAL / TECHNICAL SCORE	428,244.358	337,636.888	541,829.969	3 Calculated by MassDOT (step 2 / step 1)
		↑		Apparent Winning Design-Builder

Overall Project Budget

LINE ITEM	BUDGET
Bid Amount	\$29,290,000.00
Contingencies	\$ 2,936,400.00
Construction Engineering	\$ 1,464,500.00
Traffic Police	\$ 650,833.70
Trainees	\$ 4000.00
Total	\$34,345,733.70

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 121637: Bridge Replacement, D-14-10 (48H & 48J), Route 3 (PILGRIM HIGHWAY) NB/SB over Franklin Street Design-Build Project with Skanska USA Civil Northeast Inc. for an amount not to exceed \$29,290,000.00



Thank You

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MassDOT #605294

