



**MassDOT Highway Construction Contract: 120260
Allston Viaduct Bridge Repairs and Related Work (Including
Painting) Br. Nos. B-16-357, B-16-358, B-16-359, and B-16-369
(Steel) along a Section of Interstate 90 (EB & WB) over the
MBTA Railroad-Boston**

MassDOT Board Meeting

March 15, 2023



Project Purpose

Purpose and Need

The primary purpose of the project is to preserve the existing bridge structures to maintain the safe operation of the Commuter Rail and I-90 while MassDOT completes the design and environmental process for the larger, I-90 Allston Multimodal Project.

- The scope of preservation work will prioritize only those elements necessary to preserve the structures for an additional 10-15 years.



Purpose and Need (Continued)

- The Structural Rate of deterioration is exceeding normal maintenance activities.
- Some elements of work will help facilitate the larger Multimodal Project.



Concrete Spalling at Pier along Bridge Seat



Typical Corrosion to the Stringer Ends and
Rocker Bearings



Construction Scope

Construction Scope

- Replacement of existing concrete overlay with new asphalt overlay
- Bridge deck full and partial depth repairs
- Replacement of Bridge Deck Joints
- Repairs, localized replacement of concrete bridge barrier railings



Broken Steel Grid Bars at the Deck
Joint



Typical Corrosion to the Stay-in-Place Forms
with Spalling to the Deck

Construction Scope (Continued)

- Replacement of Concrete Median Barrier with Portable Steel Barrier
- Selected Structural Steel Repairs and Painting
- Repairs to Concrete Abutments and Piers
- Rewiring and limited Repairs to Roadway Lighting System



Heavy Corrosion in Lower Web of
Steel Pier Cap Cross Girder



Spalling of Concrete at Pier Column with
Exposed, Corroding Reinforcing

Construction Duration & User Impacts

- Work is limited to areas below the structure until April 1, 2024 to avoid traffic disruptions along I-90.
- Work on I-90 will be performed with nighttime/off peak lane closures only.
- Work within MBTA Commuter Rail Foul Zones will only be performed during off peak periods (nights/weekends).
- Construction Duration is estimated to be approximately 44 months.



Typical Deterioration to the Pier Bent



Typical Spalling along the Median Barrier



Public Process

Public Outreach and Engagement

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 Outreach and Engagement

- June 3, 2021 (Task Force Meeting)
- October 20, 2021 (Task Force Meeting)
- June 14, 2022 (Task Force Meeting)
- June 16, 2022 (Notice of Project Change Public Information Meeting)
- September 14, 2022 (Public Information Meeting)



Procurement

Construction Procurement

- Project was advertised on September 17, 2022
- Engineers Estimate was \$62,528,581.00
- Bid Opening was on December 13, 2022
- Two (2) Bids were received:

J F White Contracting Co.	\$71,672,611.00
SPS New England Incorporated	\$73,716,624.00
- The difference between the low bid and the Engineer's Estimate may be due to uncertainties and increased labor, material and equipment costs associated with the pandemic and the current level of inflation in the economy.

Overall Project Budget

Line Item	Budget
Bid Amount	\$71,672,611.00
Contingencies (10%)	\$7,167,261.10
5% Construction Engineering	\$3,583,630.55
Traffic Police	\$2,900,000.00
RR Flaggers	\$400,000.00
Specialty Services	\$10,000.00
Total	\$85,733,502.65

The total cost for this construction contract is funded with 100% Tolls – Metro. Highway System.

Request of the MassDOT Board

Staff request that the MassDOT Board authorize the Secretary of the Massachusetts Department of Transportation, or their designee, to award and execute MassDOT Construction Contract 120260: Viaduct Bridge Repairs and Related Work (Including Painting) Br. Nos. B-16-357, B-16-358, B-16-359, and B-16-369 (Steel) along a Section of Interstate 90 (EB & WB) over the MBTA Railroad with J F White Contracting Co. in the amount of \$71,672,611.00, and to execute any necessary or ancillary documents in the name of and on behalf of the Massachusetts Department of Transportation to effectuate this Agreement.