



**MassDOT Project File No. 612469**

**Tunnel System Leak Sealing, Fireproofing and Miscellaneous Repairs (Including Painting) along Interstates 90 & 93 (Ted Williams and Thomas P. O'Neill Tunnels) and Route 1A (Sumner and Callahan Tunnels)**

**City of Boston**

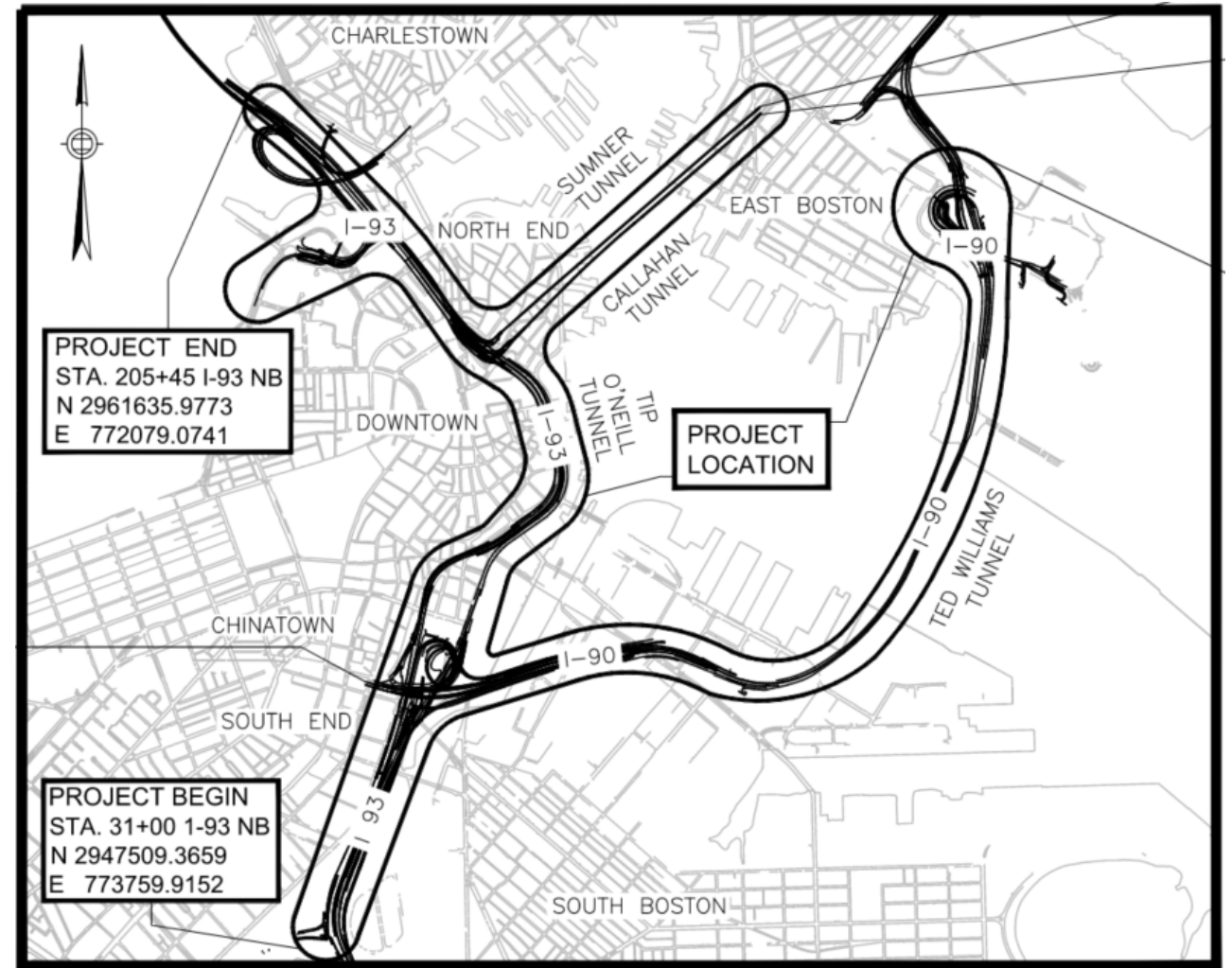
**CPC and MassDOT Board Meeting**

**October 2022**

# Project Location

The project includes work in the following locations:

- I-93 Thomas P. O'Neill Tunnel
- I-90 Ted Williams Tunnel
- Route 1A Sumner and Callahan Tunnels
- Vent Buildings and other facilities supporting the above tunnels



# Purpose and Need

## Project Goals

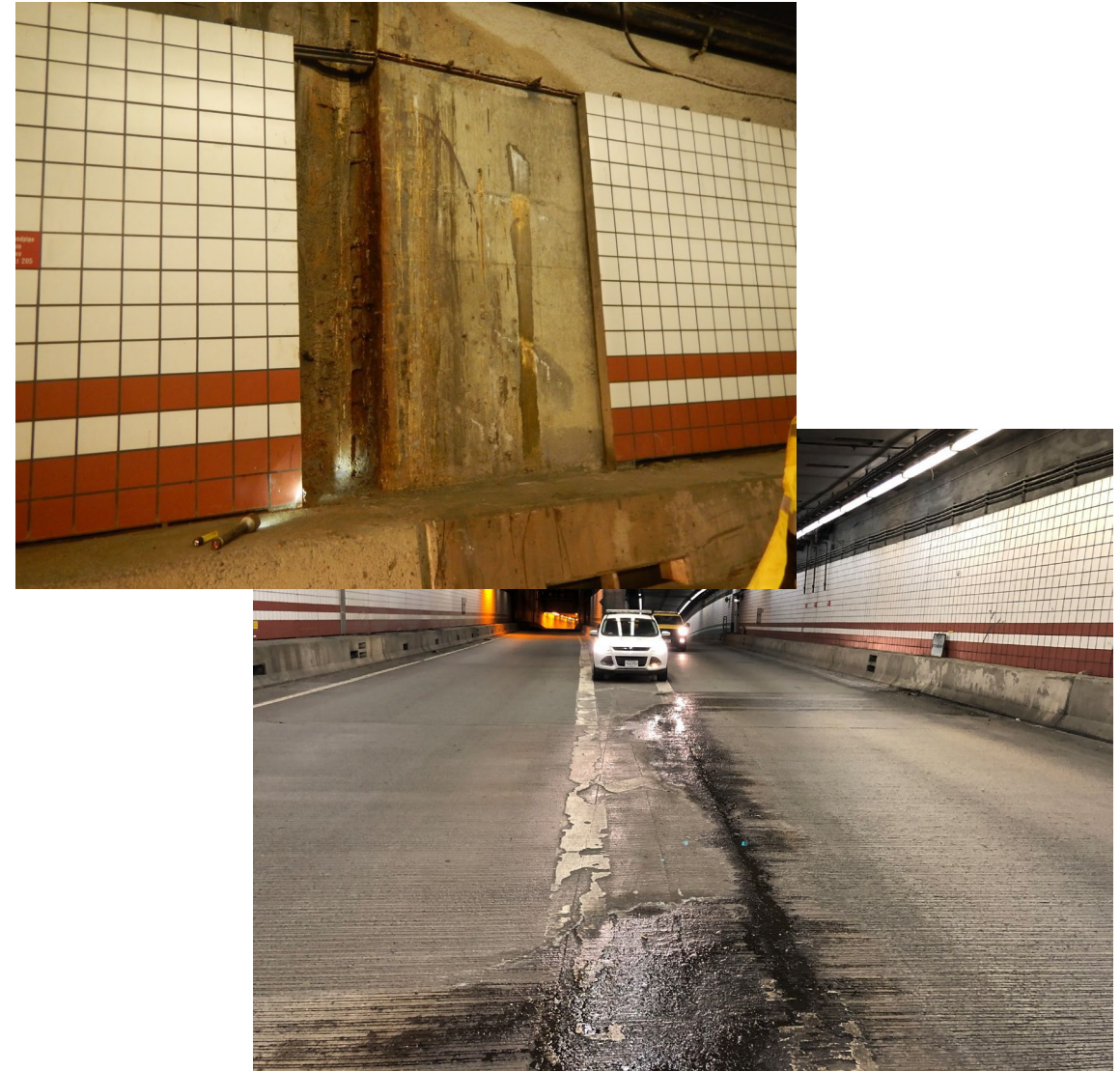
- Provide a ‘toolbox’ of items that District 6 can use to address leaks and other defects in the tunnel system as they are identified.
- Stop leaks in the tunnel system to slow the progression of deterioration.
- Repair various structural and other defects in the tunnel system.





## Purpose and Need (cont.)

- Tunnel system presents a wide variety of areas with deterioration to be addressed. This contract provides District 6 with a means to react quickly to make repairs and limit further deterioration.
- Reducing the number of areas that leak will limit areas where ice poses safety hazards to motorists during winter months.
- Restoration of fireproofing provides needed protection to tunnel systems.



# Construction Scope

- Leak Sealing
  - Prevent water infiltration into tunnel system at various locations
- Concrete Repair
  - Slurry Walls
  - Tunnel Roof Slabs
  - Other Locations identified by District 6
- Fireproofing Repair
  - Replace deteriorated fireproofing at locations identified by District 6
- Roadway Structure Replacement
  - Manhole cover replacement
  - Drainage inlet cover replacement
- Drain Cleaning
  - Improve functionality of existing drainage systems within the tunnels
- Roadway Joint Repair
  - Repair or rebuild roadway joints
  - Install roadway joint underdrains
- Painting
  - Clean and Paint portions of tunnel roof girders and/or soldier piles
- I-90 Connector ITT Joint Repairs
  - Remove deteriorated joint covers
  - Replace with temporary system to restore fireproofing and allow for verification of dimensions prior to fabrication of permanent system

## Construction Impacts

- Most work is performed at night utilizing temporary lane closures
- Where possible, select operations may be completed during daytime hours
- All work is coordinated with District 6 through the weekly Access Work Request (AWR) process

# Procurement

- Project was advertised August 27, 2022
- Engineers Estimate was \$14,601,000.00
- Bid opening was September 27, 2022
- Two (2) bids were received:
  - **SPS New England INC**      **\$15,343,725.00**
  - JF White Contracting CO      \$17,281,520.00

# Overall Project Budget

Line Item	Budget
Bid Amount	\$15,343,725.00
Contingencies	\$2,301,558.75
Others (e.g. traffic police)	\$600,000.00
<b>Total</b>	<b>\$18,245,283.75</b>

- 100% of the cost for this project is funded through State Funds – NFA/MHS.



## Proposed Board Vote

To authorize the Secretary of the Massachusetts Department of Transportation, or his designee, to award and execute MassDOT Construction Contract No. 120081: Tunnel System Leak Sealing, Fireproofing and Miscellaneous Repairs (Including Painting) along Interstates 90 & 93 (Ted Williams and Thomas P. O'Neill Tunnels) and Route 1A (Sumner and Callahan Tunnels) – Boston with SPS New England Inc. in the amount of \$15,343,725.00, in a form approved by the General Counsel, and to execute any necessary or ancillary documents in the name and on behalf of the Massachusetts Department of Transportation to effectuate this Agreement.