

MassDOT Highway Construction

Contract: 127362

**Bridge Rehabilitation, N-12-010=W-29-005,
Commonwealth Avenue (Route 30)
over the Charles River**

MassDOT Board of Directors

October 16, 2024

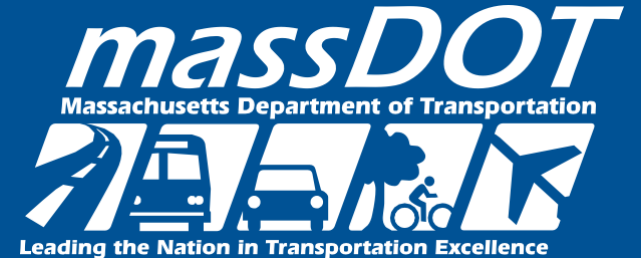


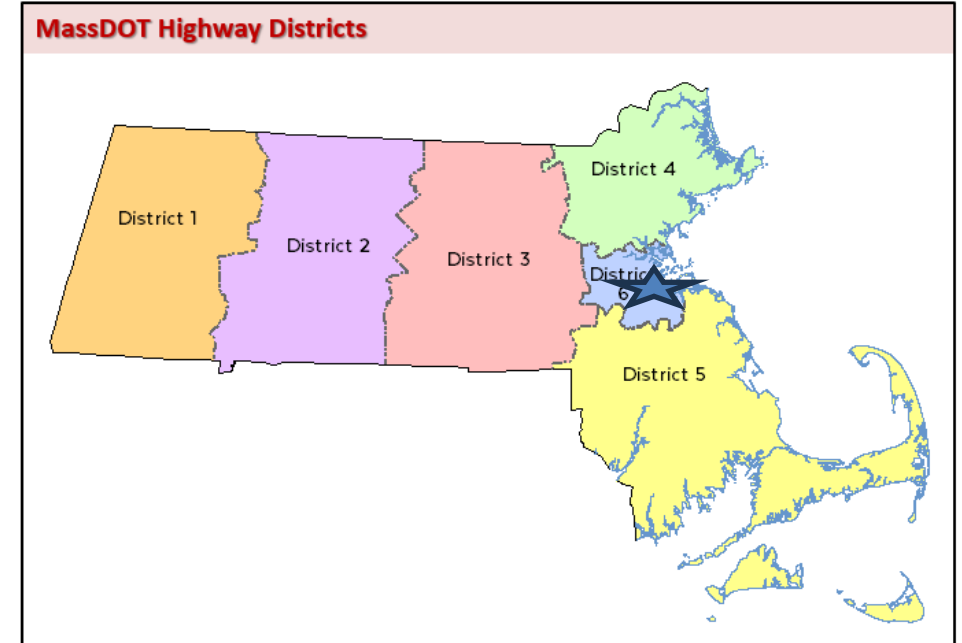
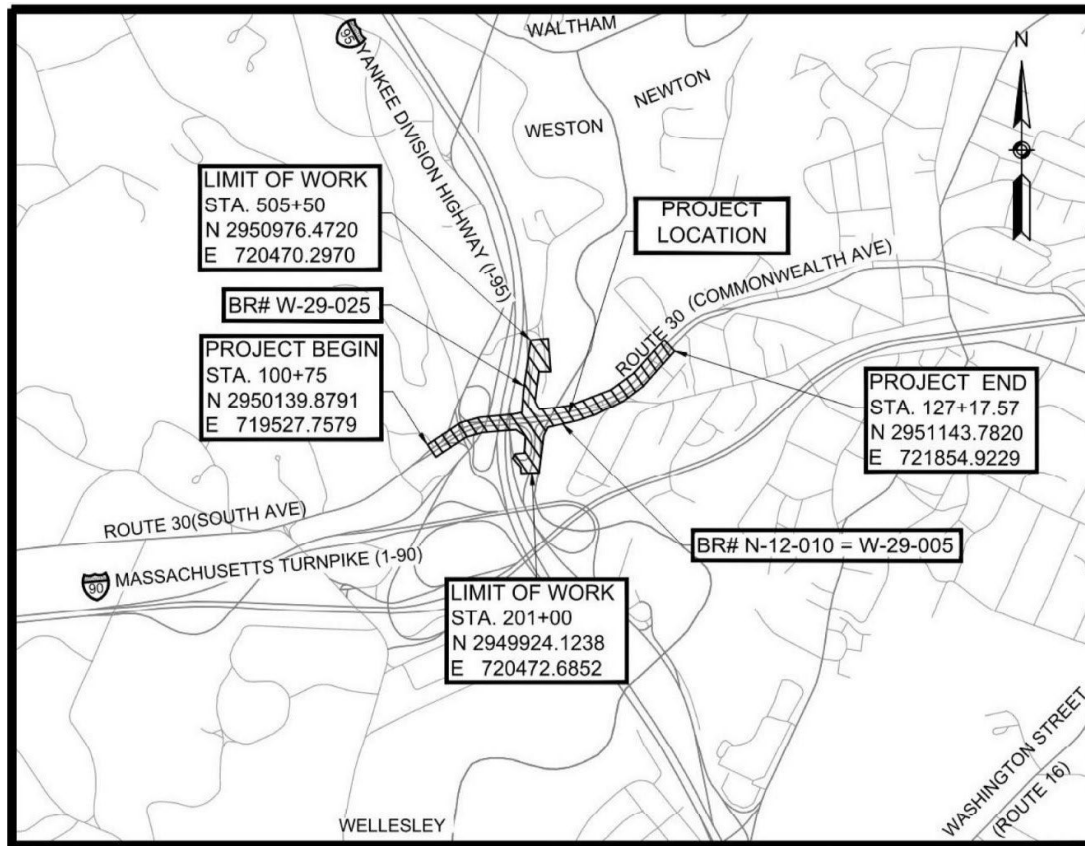
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Project Location

Commonwealth Avenue (Route 30) over the Charles River

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Overview

Scope of Services

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- Replace the Bridge over the Charles River with a single span steel multi-girder superstructure supported on reinforced concrete integral abutments. Replacement work will be performed in 3 stages while maintaining 2 lanes of vehicular traffic and bicycle / pedestrian access at all times.
- Operational improvements to Route 30 at I-95 Intersection / Interchange
- Auburn Street intersection reconstruction, which includes construction of a roundabout
- The project will also include full depth pavement reconstruction; pavement milling and overlay; granite curb installation; hot mixed asphalt pavement for shared use paths and separated bike lanes; cement concrete sidewalk construction; stormwater management upgrades; highway guardrail installation; traffic signal upgrades and reconstruction; installation and relocation of roadway street lighting; pavement marking and signage installation; landscaping; and related work.
- The Notice to Proceed is anticipated to be issued late November 2024 with construction anticipated through early 2029.

Overview

Purpose & Need/Traffic Impacts

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Purpose & Need

- Replace structurally deficient simple span bridges with new single span bridge (75 year service life).
 - ✓ Addresses structural deficiencies by constructing new bridge.
 - ✓ Satisfies current design requirements; reduces maintenance requirements.
- Improve I-95 northbound ramp access to Eastbound Route 30.
- Provide shared-use path from Route 30 to DCR boathouse parking lot and Norumbega Road, and Eastbound buffered bike lane to improve bicycle and pedestrian access.
- Improve traffic flow by reconstructing Auburn Street intersection as a Modern roundabout.

Traffic Impacts

- Travel lanes will be re-aligned and lane reductions may be necessary during construction. No detour routes are anticipated.
- I-95 northbound Loop Ramp will be closed after traffic is rerouted to the reconstructed ramp.
- Safe and accessible pedestrian routes will be maintained throughout construction.

Procurement and Budget

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- Project Advertised July 27, 2024
- Engineer's Estimate was \$22,615,881.50
- Bid Opening was September 17, 2024
- Five (5) Bids were received:

MIG Corp.	\$22,937,945.75
John Rocchio Corp.	\$26,254,721.50
J.F. White Contracting Co.	\$26,295,861.00
SPS – Walsh JV	\$35,815,193.50
McCourt Const. Co. Inc.	\$36,056,611.50

Line Item	Budget
Bid Amount	\$22,937,945.75
Construction Contingencies (10%)	\$2,293,794.55
Construction Engineering (5%)	\$ 1,146,897.28
Traffic Police	\$630,000.00
Trainees	<u>\$4,000.00</u>
Total	\$27,012,637.58

Funding:

- Federal Aid – National Highway Performance Program (NHPP) – On-System Bridge
- Federal Aid – Highway Infrastructure Program (HIPBR) – Bridge

Request of the MassDOT Board of Directors

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Staff request that the MassDOT Board of Directors authorize the Secretary of Transportation, or her designee, to award and execute MassDOT Construction Contract 127362 – Bridge Replacement, N-12-010=W-29-005, Commonwealth Avenue (Route 30) over the Charles River with MIG Corporation in the amount of \$ 22,937,945.75.

Thank You



Appendix

Capital Programs Committee Q and A

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Q1. There is another project nearby, and currently under construction, which is related to the I-90 interchange. People use Route 30 as an alternative. Do you anticipate traffic impacts due to the proximity of both projects?

A1. There are in fact 2 adjacent projects that will be ongoing during the construction of Route 30 over the Charles River. All projects are being overseen by our District 6 Construction Group and there has been coordination conducted regarding the overlap in in any of the anticipated projects schedule and operations, regarding traffic management and signage. There is language in each of the respective contracts related to the adjacent contracts. Highway Division is confident the projects can be undertaken concurrently with continued coordination and public engagement.

Q.2 Does the project duration have to do with I-90 project?

A2. The project duration for this contract is specific to this project and related complexities regarding the bridge replacement and utility relocations and impacts, i.e. the Massachusetts Water Resources Authority and their infrastructure and coordination efforts conducted to date and anticipated during construction. It is also related to the number of construction phases required to ensure that vehicular traffic and bicycle/pedestrian movements are ensured during all phases of construction.

Q3. Is the existing bridge single span?

A3. Yes, the existing bridge as well as the replacement over the Charles River is a single span