



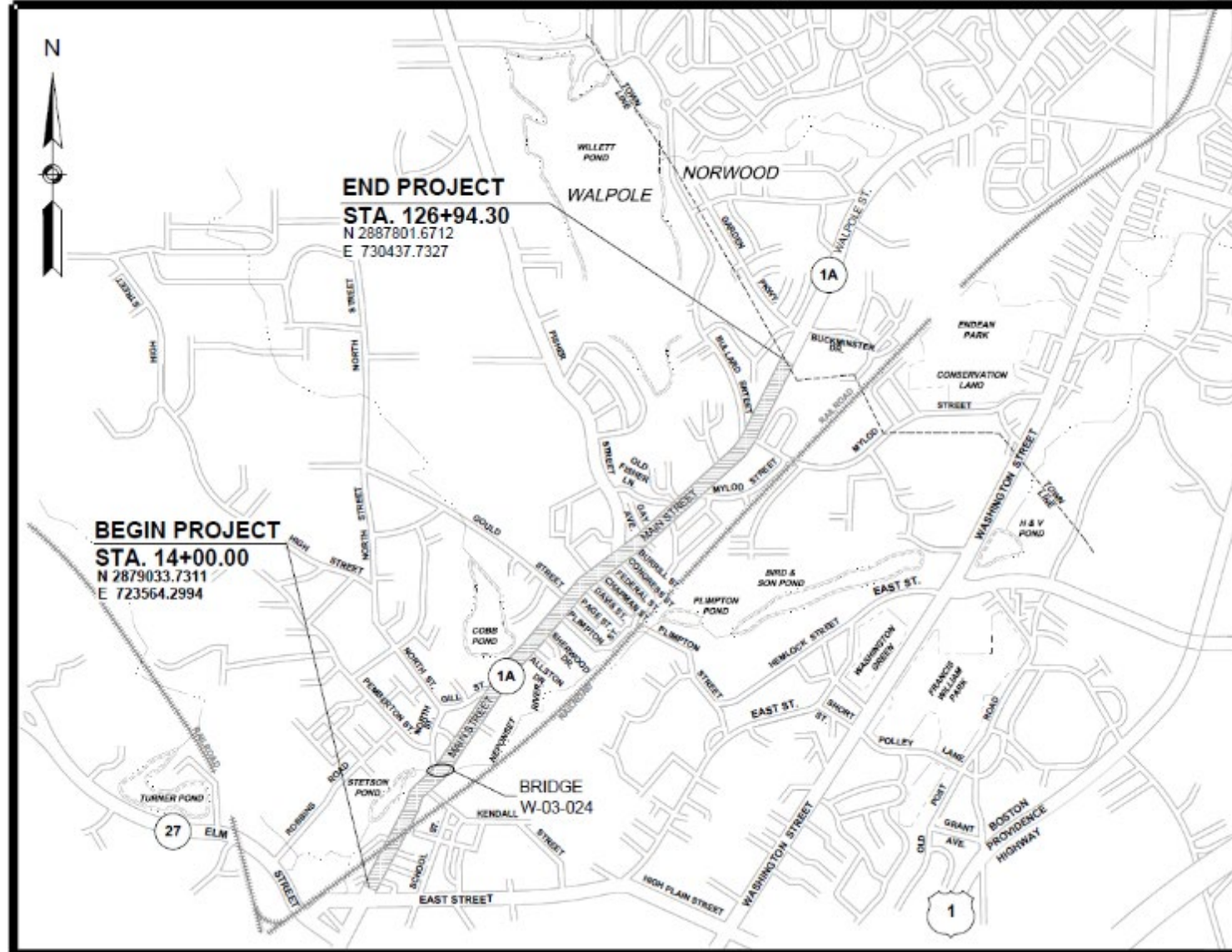
MassDOT Highway Construction Contract: 112878

**Route 1A (Main Street) Reconstruction, from Norwood
Townline to Route 27, including Bridge W-03-024 over the
Neponset River in Walpole (602261)**

MassDOT Board of Directors

February 2021

Project Location



Overview



- Full depth reconstruction, ADA improvements, and traffic signal upgrades along Route 1A (Main Street)
- Replacement of Neponset River Bridge
- Installation of bridge rail across existing MBTA arch bridge
- Approximately 2.1 miles along Route 1A from 300 feet north of Route 27 to the Norwood Town Line
- Requesting MassDOT Board approval of \$19.8M contract with MDR Construction Co Inc.
- Construction will take approx. 4-1/2 years to complete
- Route 1A will be discontinued upon construction completion, transferred to the Town of Walpole

Purpose and Need

- Roadway requires reconstruction and safety upgrades
- Existing roadway lacks ADA compliant pedestrian accommodations and bicycle accommodations
- New traffic signals warranted at three intersections
- Traffic signal upgrades at one existing signalized intersection
- Replacement of the Neponset River Bridge W-03-024 (built in 1911) carrying Route 1A over the Neponset River
- Provide improved access management

Purpose and Need (cont'd)



Purpose and Need (cont'd)



Purpose and Need (cont'd)



Construction Scope

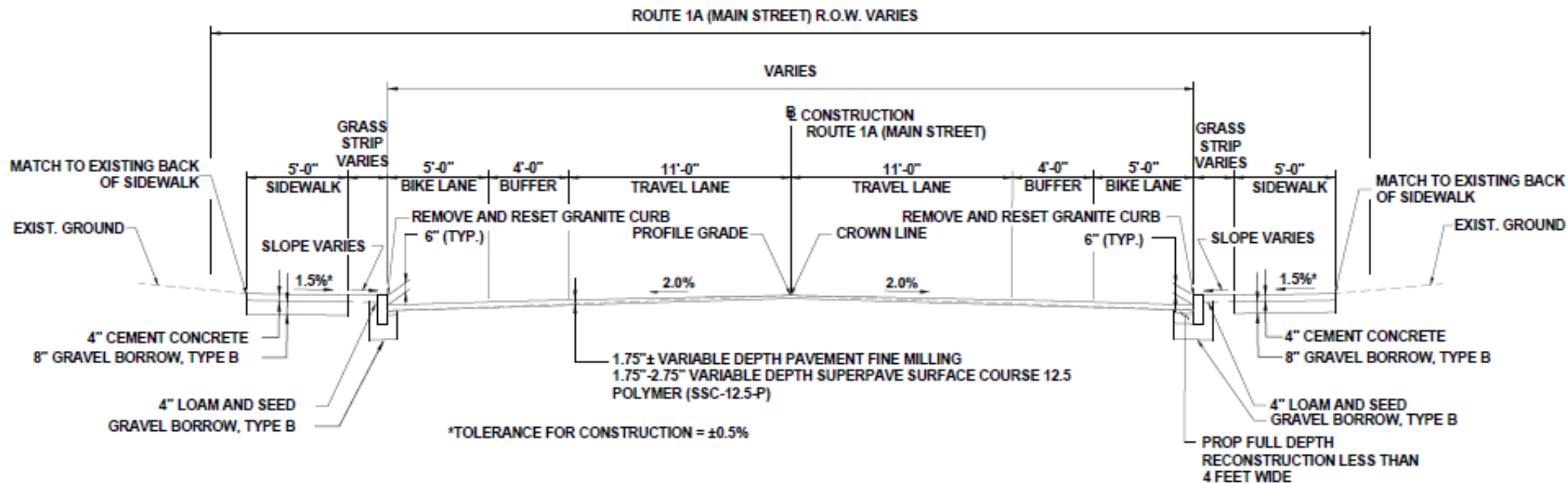
- Full Depth Pavement Reconstruction of Route 1A
- ADA Compliant cement concrete sidewalks, wheelchair ramps, and driveway aprons on both sides of Route 1A
- Installation of 5-foot wide bicycle lanes on both sides of Route 1A
- Reconstruction of Bridge (W-03-024) over the Neponset River
- Some rehabilitation of Bridge (W-03-013) over the MBTA Tracks
- Removal of the existing concrete base under Route 1A
- Reconstruction and improvements to the existing closed drainage system
- Reconfiguration of the intersection and installation of new traffic signals at North Street, Fisher Street, and Bullard/Willett Street

Construction Scope (cont'd)



- Reconstruction of the existing signal at the Stop and Shop Plaza
- Replacement of the existing flashing beacon and intersection improvements at Gould/Page Street
- Replacement of the existing flashing beacon and intersection improvements at Kendall Street
- New Pavement Markings and Crosswalks
- Relocation of 104 utility poles
- Proposed work also includes adjusting or rebuilding of drainage structures; removing and resetting curb, edging, and curb inlets; installation of reflectorized pavement markers; and other related work.

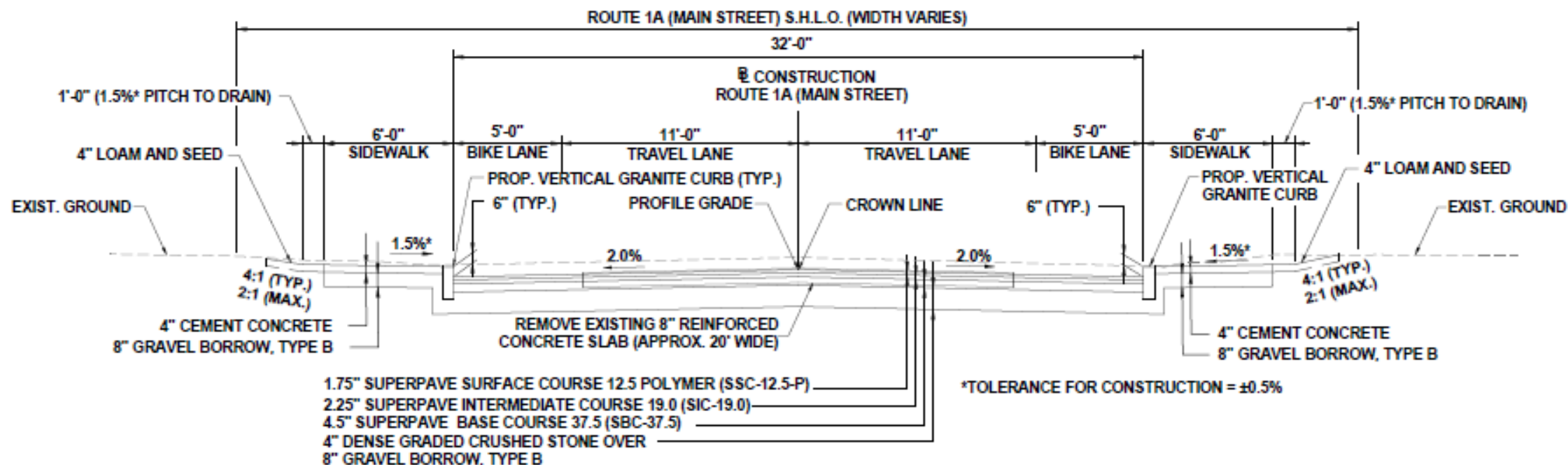
Construction Scope (cont'd)



TYPICAL ROUTE 1A (MAIN STREET) SECTION

STA. 14+00.00 - STA. 23+50.00
 STA. 126+36.50 - STA. 126+94.30
 SCALE: 1"=4'

Construction Scope (cont'd)



TYPICAL ROUTE 1A (MAIN STREET) SECTION

STA 23+50.00 - STA 126+36.50

SCALE: 1"=4'

Construction Scope (cont'd)

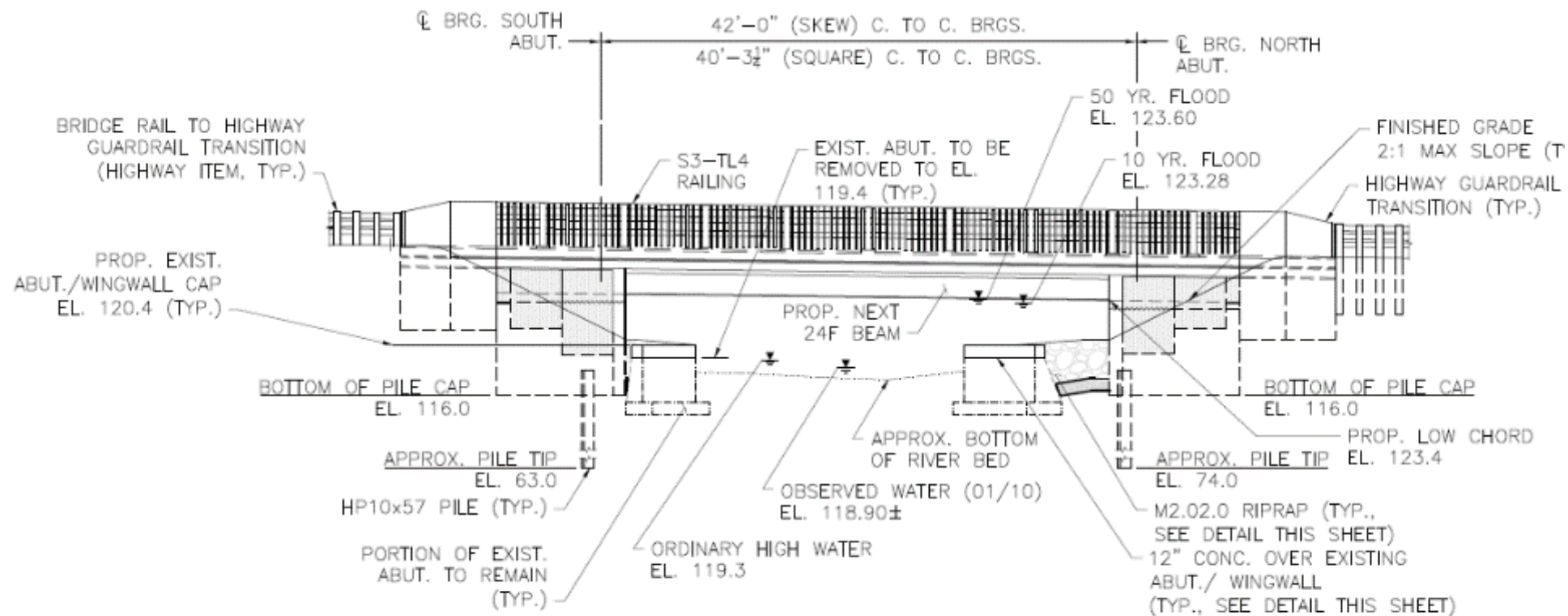


Neponset River Bridge W-03-024

- Demolition of the existing bridge (W-03-024) superstructure and the partial removal of the existing bridge substructure. The existing foundations below high-water level will remain for scour protection.
- Construction of a new single span structure utilizing NEXT F beams.
- 8 3/4" exposed concrete deck supported on integral abutments, founded on H piles, and constructed behind the existing bridge foundations that remain.
- Installation of steel S3-TL4 bridge railing
- Staged construction with temporary pedestrian and utility bridge

Construction Scope (cont'd)

Neponset River Bridge W-03-024



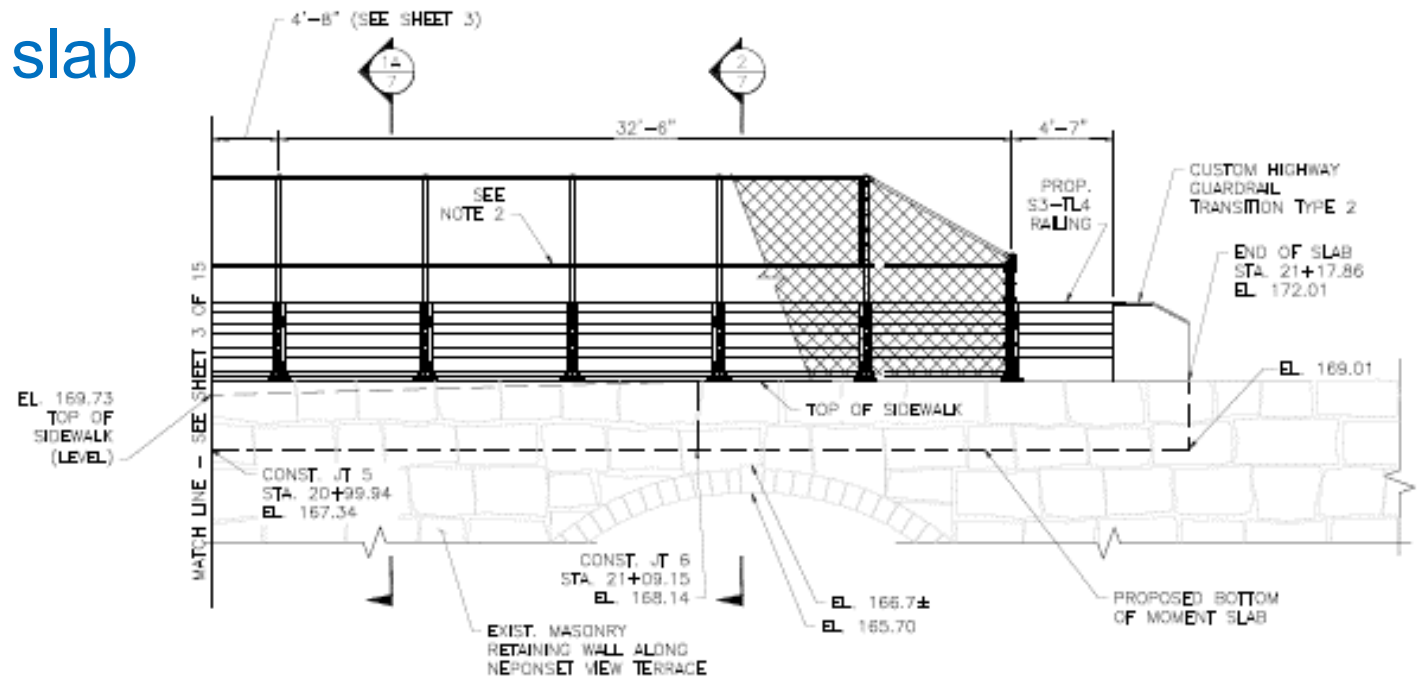
ELEVATION

SCALE: 3/8" = 1'-0"

Construction Scope (cont'd)

Bridge W-03-013 over MBTA Tracks

- Removal of the existing wood fence over the MBTA bridge
- Installation S3-TL4 rail and CF-PL3 barrier
- Installation of a moment slab



Traffic Impacts

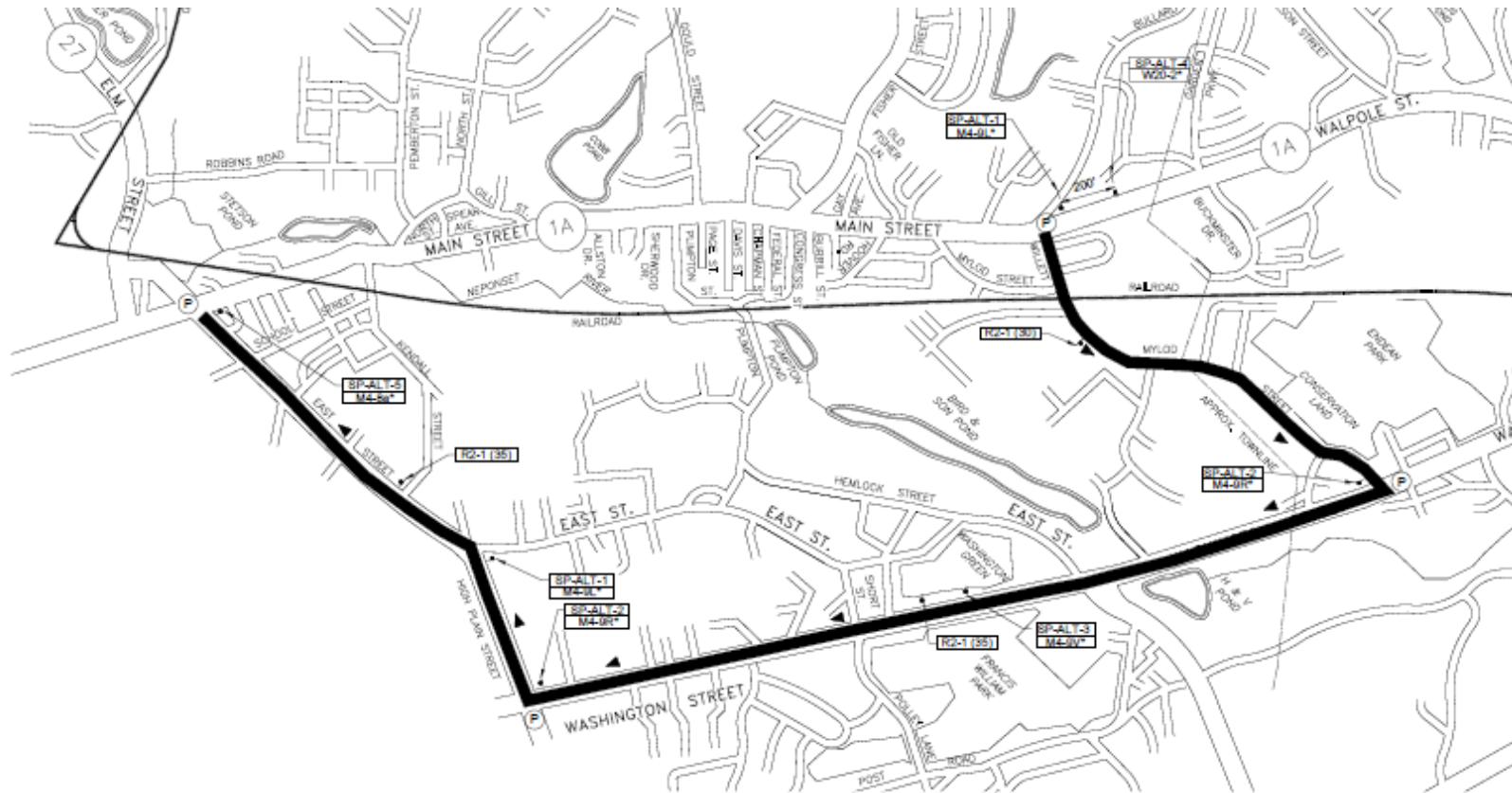
- Work on this project is restricted to a normal eight-hour day shift and normal eight-hour night shift.
- No work is allowed between Friday at 6:00 PM and Sunday at 6:00 PM.
- A night-time detour route and daytime alternate route has been proposed to mitigate traffic impacts.
- Local detours (around work zone) and one-direction alternating traffic (on Route 1A) are anticipated and permitted only between 9:00 AM and 3:00 PM.

Traffic Impacts

- Night work will be required for paving, full-depth pavement reconstruction, removal of the existing buried reinforced concrete slab, drainage construction, striping, and signal work.
- Other construction activities shall not be performed at night without approval from MassDOT.
- All lanes shall be paved by 3:00 PM Friday and remained paved until 6:00 PM Sunday.

Traffic Impacts (cont'd)

Detour/Alternate Route



Public Participation/Outreach



- Walpole Selectboard Meeting – November 16, 2010
- 25% Design Public Hearing – January 20, 2014
- Walpole Selectboard Meeting – June 16, 2015
- Walpole Selectboard Meeting – July 14, 2015
- Public Information Meeting – November 27, 2018

Procurement



- Project was advertised September 12, 2020
- Engineers Estimate was \$20,101,404.50
- Bid Opening was December 22, 2020
- Eight (8) bids were received:
 - **MDR Construction Co Inc** **\$19,790,903.87**
 - J H Lynch & Sons Inc \$19,888,862.00
 - Baltazar Contractors Inc \$20,895,348.00
 - McCourt Construction Co Inc \$20,996,889.50
 - P. Gioioso & Sons Inc \$21,630,320.00
 - Northern Constr Services LLC \$23,739,673.00
 - Barletta Heavy Division Inc \$24,490,000.00
 - ET&L Corp \$26,876,819.00

Overall Project Budget



| Line Item | Budget |
|--------------------------|-------------------------|
| Bid Amount | \$19,790,903.87 |
| Contingencies | \$ 1,980,021.37 |
| Construction Engineering | \$ 990,010.69 |
| Total | \$ 22,760,935.93 |

- 80% Federal funding, 20% State funding
- Programmed Cost in the 2021 the Capital Investment Plan (CIP) \$26.09 m.

Proposed Action



VOTED:

To authorize the Secretary, and/or his designee, to award and execute, in the name of and on behalf of MassDOT, and in a form approved by the General Counsel, a certain Highway Division Contract (# 112878) entitled “Walpole-Reconstruction of Route 1A, from Norwood Townline to Route 27, including Bridge W-03-024 over the Neponset River” in the amount of \$19,790,903.87, with MDR Construction Co., Inc.