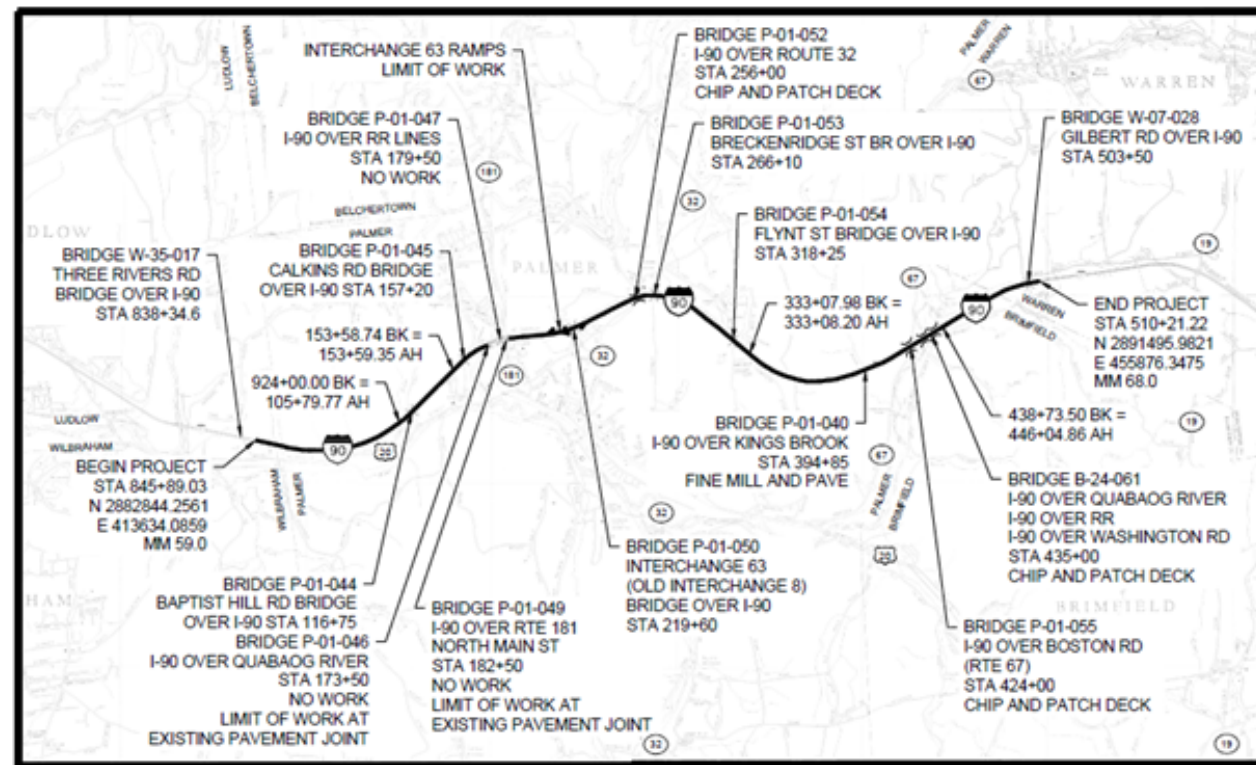




MassDOT Highway Construction Contract: 114901
Interstate Maintenance and Related Work (Including Bridge Work) along a Section of I-90 (MM 59.0 - 68.0) in the District 2 towns of Brimfield, Palmer, Warren, and Wilbraham

Board Meeting
September 21, 2021

Project Location



0 5,000 10,000
SCALE 1" = 5,000'

LENGTH OF PROJECT = 47,520.00 FEET = 9.000 MILES

Overview



- Maintenance and Related Work along a Section of Interstate 90 (Mass Turnpike) from MM 59.0 to MM 68.0 (Brimfield, Palmer, Warren, Wilbraham).
- Bridge pavement excavation, bridge deck repair, bridge joint repair, resurfacing, and guardrail changes at the bridge end posts on 6 bridge decks.
- The project begins in Wilbraham (STA 845+89, MM 59.0) and continues easterly through Palmer and Brimfield, and ends in Warren at station (STA 510+21, MM 68.0), a length of approx. 47,520 feet or 9.0 miles.
- Requesting MassDOT Board approval of \$22.65M contract with Palmer Paving Corp.
- Construction will take approx. 34 months; staged to two lanes of traffic in each direction. During night paving operations one lane of traffic will be maintained.

Purpose and Need

- Existing pavement is 8-10 years old and requires resurfacing. A pavement design concluded 1.5" of pavement should be added to the pavement structure to improve the pavement serviceability and condition. Resurfacing at ramps will be excluded from this project.
- Deck repair and bridge joint repair is needed for 3 pairs of bridges. Guardrail connections with bridge end posts will be upgraded on all bridges across the project, with 8 new end posts being constructed.
- Guardrail will be replaced from MM 59.0 to MM 63.35 to meet MASH requirements.

Purpose and Need (cont'd)



Purpose and Need (cont'd)



Purpose and Need (cont'd)



Construction Scope



Interstate 90 Mainline:

- Fine mill 2" and overlay 3.5" with 1.75" of Superpave Intermediate Course – 12.5 Polymer and 1.75" of Asphalt Rubber Gap Graded – 12.5.
- Variable depth fine milling and overlay at transitions (limits of project, bridges).
- Guardrail replacement from MM 59.0 to MM 63.35.
- Variable depth compacted pavement milling mulch for shoulders as needed to blend additional 1.5" pavement height with existing shoulder.

Construction Scope (cont'd)



Interstate 90 Bridges:

- Bridge pavement excavation, bridge deck repair, bridge joint repair, resurfacing, and guardrail changes at the bridge end posts:
 - I-90 over Thorndike St (Route 32) (P-01-052)
 - I-90 over Boston Rd (Route 67) (P-01-055)
 - I-90 over Quaboag River, CSX RR, Washington Rd (B-24-061)
- Guardrail changes at the bridge end posts only:
 - I-90 over Quabaog River, (P-01-046)
 - I-90 over Mass Central RR (P-01-047)
 - I-90 over N. Main St. (Route 181) (P-01-049)

Construction Scope (cont'd)



- Proposed work also includes adjusting or rebuilding of drainage structures as required, replacing berm, installing recessed pavement markings and slotted pavement markers, implementing temporary traffic controls, installing erosion and sedimentation control measures, and other incidental items as set forth in the proposal and required to complete the work.

Traffic Impacts

- Two lanes of traffic in each direction will be maintained at all times. During night paving operations one lane of traffic will be maintained.
- Bridge work will require 3 phases of traffic shifts.
- All work under this contract shall be conducted between the hours of 9:00 PM and 5:00 AM unless otherwise authorized by the Engineer and with certain exceptions for holidays.

Procurement



- Project was advertised June 19, 2021
- Engineers Estimate was \$22,542,465.00
- Bid Opening was August 17, 2021
- Three (3) bids were received:
 - **Palmer Paving Corp.** **\$22,650,549.25**
 - Eurovia Atlantic Coast LLC \$22,681,560.00
 - Northern Constr Services LLC \$26,657,563.00

Overall Project Budget



Line Item	Budget
Bid Amount	\$ 22,650,549.25
Contingencies	\$ 2,265,054.93
Construction Engineering	\$ 1,132,527.46
Total	\$ 26,048,131.64

- WT Toll Funding

Request of the Board

VOTED

To authorize the Secretary, or his designee, to award and execute MassDOT Construction Contract Number 114901 for Interstate maintenance and related work on I-90 in Brimfield, Palmer, Warren, and Wilbraham with Palmer Paving Corp., in a form approved by the General Counsel, in the amount of \$22,650,549.25.