

# LANCASTER-HARVARD-LITTLETON RESURFACING AND RELATED WORK ON ROUTE 2 FAP #NHP/NHS-003S(242)X

Project File No. 608475 Contract No. 106578

April 22, 2019



### **Project Locus**





### **Overview and Project Need**

- The purpose of this project is to improve the condition of non-interstate pavement and bridge state of good repair, specifically for 10.6 miles of Route 2 in Lancaster, Harvard, and Littleton.
- Project includes micromilling and resurfacing of the existing roadway and 6 exit ramps, in addition to resurfacing and repairs to 5 bridges.
- Low bidder for construction is PJ Keating at \$17,986,688
- Total project cost is \$21,890,611
- Originally programmed in CIP at \$19,688,000



#### **Project Scope of Work**

This project consists of resurfacing Route 2 in Lancaster, Harvard and Littleton between Interstate 190 and Interstate 495 in Northern Worcester County. More specifically, the western limit of this project is a pavement joint, located just east of Exit 34 in Lancaster (mm 103.0 +/-). The eastern limit of this project is the approach to Bridge L-13-017 (mm 113.6 +/-). The total length of this project is approximately 10.6 miles. The limits of work also include the ramps at Exits 35, 36, 37, 38, 39, and 40.

- Micromilling and resurfacing the existing mainline, bridge decks, and ramps.
- Work will also include: clearing and grubbing to re-establish clear zones; adjusting, rebuilding, and remodeling drainage structures; replacing all frames and grates with hook-lock frames and grates; resetting granite edging, granite curbing, and granite curb inlets; replacing HMA berm, replacing most of the existing substandard guardrail on the right side of the roadway; resetting existing salvageable guardrail at some locations in the median areas, replacing traffic data collection stations; bridge deck repairs; and bridge joint repairs.

This section of Route 2 was previously resurfaced in two separate contracts in 2008/2009.



### **Project Scope of Work**

#### **BRIDGE WORK:**

- Repair, modification and/or full reconstruction of the barriers on the five bridge decks and wingwalls.
- Partial and/or full depth repair of the existing reinforced concrete decks where deterioration has occurred.
- Waterproofing membrane along curbs lines.
- Substructure concrete repairs to abutments, piers, backwalls, checkwalls and wingwalls.
- Elastomeric protective coating to bridge barriers, parapets, abutments, backwalls, beam end diaphragms, fascia beams, and areas within 5 feet from the concrete beam end, pier columns and pier caps.
- Replacement of all bridge railings.
- Other required work as directed by the Engineer and necessary for successful completion of the bridge repairs and other related work.



### **Project Scope of Work**

#### **Goal/Objective**

Improve Non-Interstate Pavements and Bridge SGR

#### **Public Participation**

 Three conservation commission meetings were held in the towns of Lancaster, Harvard and Littleton between November - December 2018. Negative determinations were issued for each.



#### **Project Schedule**

Construction Starts
Summer 2019

Substantial Completion
Summer 2021

Full Beneficial Use Spring 2021

Contract Field Completion Fall 2021



## Total Project Cost

Bid Amount:	\$17, 986,688.00
Traffic Control	\$1,120,067.00
Contingencies (10%)	\$1,828,519.00
5% Construction Engineering	\$955,337.74
Total	\$21,890,611.00

Design was performed in-house by District 3 Staff Programmed Cost in the CIP - \$19,688,000



### Bid Estimate Comparison

Office Estimate: \$15,862,297.85

PJ Keating: \$17,986,688.00 (13.39% Above Office Est.)

Brox Industries: \$18,734,877.75 (18.11% Above Office Est.)

JH Lynch: \$ 18,764,564.55 (18.30% Above Office Est.)

Average of Bids: \$18,495,376.77 (16.59% Above Office Est.)

Recommend award to the Low Bidder