



August 3, 2021

Ms. Patricia Leavenworth, P.E.
Chief Engineer
MassDOT Highway Division
10 Park Plaza
Boston, MA 02116

Attn: Ms. Marie Rose, P.E., Director of Project Management

Re: Billerica: Boston Road (Route 3A) Roadway Reconstruction
Project File No. 605178
100% SUBMISSION

Dear Ms. Leavenworth:

We are pleased to submit the following 100% design documents for the subject project for review & comment.

- 100% Design Plans with Cross Sections
- Color Utility Plans (included in 100% plan set) & Pole Relocation Spreadsheet
- Preliminary Right of Way Plans
- Preliminary Estimate (CPE format)/Calculation Book
- Horizontal Alignment Report
- Special Provisions
- 100% Design Review Checklist
- 100% Detail Sheets
- Response to Comments (Submitted at CRM)
- Traffic Control Agreement
- Mast Arm Boring Geotechnical Memorandum
- Clearance Calculations

We are submitting the above Bluebeam and Utility Submission documents electronically via FTP link as discussed with the MassDOT PM.

The project is partially located within the Town of Billerica's Historic District, located along Boston Road from Heritage Road to the southern project limit. Since the 75% designs, additional design alterations have been addressed and included as part of the 100% design submission. These changes include: Pedestrian Hybrid Beacon (HAWK) installations as opposed to the previous Rectangular Rapid Flashing Beacon (RRFB) installation; the revision of stamped concrete islands to brick paver islands; additional brick work for the sidewalks within the Billerica Historic District; and the request for use of proprietary items from Federal Highway Administration (FHWA) has been submitted to the project manager. The two RRFB locations along Boston Road were discussed during the comment resolution meeting and have since been revised in design to HAWK signal locations for pedestrian and bicycle accommodations across Boston Road. The previous submission featured stamped concrete island along both sides of Boston Road within the limits of the Historic District and has been revised under the current design to provide brick paver islands. Additional brick pavers are provided along the east side of Boston Road from Mulberry Road to

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August 3, 2021

Page 2 of 2

the southern project limit has been included to supplement the Town's Historic District. Lastly, a request to FHWA has been submitted to MassDOT to allow for the use of proprietary streetlighting poles and luminaires as well as ornamental mast arm structures to match the Town's existing historic district standard as part of this project.

The project also includes undergrounding overhead utility wires crossing along Boston Road from Heritage Road to Danforth Village. This work involves the installation of utility conduits and handholes per design from utility companies. These plans have been updated per a recent field utility meeting on 6/14/2021. The proposed work is shown in the 100% design and estimated as non-participating items for the project.

The utility force account estimate has not been updated since 75% submission. There is a section of Verizon duct bank need to be relocated due to a conflict with the proposed street lighting. The plans show the relocation by others and Verizon has been notified of the proposed impact. We are still waiting of the final estimate from the utility companies.

The NOI filing to local conservation commission is anticipate in September 2021 and final ENF will be submitted after the NOI filing. Town will present the project to local historical district commission in September 2021.

We trust this submission is satisfactory. Please feel free to call if you have any questions relative to this project.

Very truly yours,



Darshan N. Jhaveri, P.E.
Project Manager / Senior Associate

cc: Mr. Paul Stedman, MassDOT District 4 Highway Director
Ms. Kelley Conway, P.E., Town Engineer, Town of Billerica