



TOWN OF MAYNARD Department of Public Works

MUNICIPAL BUILDING
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Justin DeMarco
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Administration

*Cemetery & Parks
WWTP*

Facilities

Highway

Water & Sewer

Memorandum

To: Select Board
From: Justin DeMarco, DPW Director
Wayne P. Amico, PE, Town Engineer
cc: Greg Johnson, Town Administrator
Date: March 7, 2023
Subject: Route 27 at Concord Traffic Signal Project Scope of Work and Conceptual Plan

Recommended Action:

Provide feedback and comments to Department of Public Works for the presented Scope of Work and Conceptual Design Plan for the new Traffic Signal System to be located at the intersection of Route 27 at Concord Street, including related roadway, sidewalk, and paving work. This project will be funded through a combination of funding sources commencing with ARPA Spending Bill Earmark Awarded through Senator Eldridge's office directly to the Town of Maynard for this project, any additional costs will be supplemented through a combination of allocated localized funding in FY24, and Chapter 90 available funding allowances.

Background and Detail

On June 24, 2022, the Town of Maynard was awarded an ARPA Spending Bill Earmark Award of \$500,000 for the construction of safety improvements at the intersection of Route 27 and Concord Street. The award was made based on the attached supporting documentation that was submitted to MassDOT and confirmed that the proposal was in line with the intent of the ARPA Spending Bill Earmark Award.

The estimated project construction cost was \$510,000 at the time of submittal in 2022, which includes items as detailed in the attached conceptual cost estimate.

This project includes the construction of a new traffic control signal system and associated vehicle and pedestrian safety improvements at the intersection of Concord Street at Haynes and Brown Street (Route 27) in Maynard, Massachusetts. The project also includes construction administration of the proposed improvements, from design through advertising, bidding, contract procurement, construction and project closeout.

Specifically, the following improvements will be made at this intersection, as shown on attached Conceptual Design Plan and Conceptual Cost Estimate:

- Installation of a new traffic signal cabinet with approved MassDOT controller and ancillary control equipment.
- Installation of a new traffic signal mast arm and post system with signal heads to control vehicular and pedestrian operations at this intersection.
- Installation of traffic signal posts with pedestrian control equipment to guide pedestrians across Haynes Street and Concord Street, as well as specific pedestrian control equipment to meter the Assabet River Rail Trail multi use path crossing of Concord Street.
- Installation of an advanced “SIGNAL AHEAD” illuminated traffic signal beacon on Haynes Street at Walcott Street (south of the intersection). This is included based on limited sight distance in the northerly direction on Haynes Street.
- Installation of MUTCD compliant regulatory and safety traffic and pedestrian signage.
- Sidewalk and pedestrian ramp upgrades throughout the intersection at various locations.
- Sidewalk upgrades on approximately 400’ of Haynes Street between Concord Street and Acton Street.
- Sidewalk and pedestrian ramp upgrades at the Acton and Concord Street intersection, directly adjacent to the project intersection.
- Pavement mill and overlay of all four approaches to the intersection as well as the Acton and Concord Street intersection.
- Relocation of a vehicular speed feedback sign solar unit on Haynes Street to a new location north of Concord Street.
- Minor drainage improvements to approaches of the intersection based on the installation of new sections of sidewalk and new handicap ramps
- The work will also include removal and resetting of existing granite curb, installation of new granite curb, replacement of existing cement concrete or asphalt sidewalk with new cement concrete or asphalt sidewalk as well as new pavement markings throughout the project intersection.

These improvements will provide a safer mix of vehicular traffic at this location and its intersection with the Assabet River Rail Trail to better accommodate pedestrian and vehicular connections from the abutting neighborhoods and the Assabet River trail system.

This project brings this intersection into compliance with current AAB/ADA standards. The location of these upgrades is part of the Town’s effort to ensure pedestrian and vehicular accommodations, accessibility, and safety at this highly used intersection that connects major roadways to Maynard’s downtown area.

Summary

The Department of Public Works requests that the SelectBoard approve Scope of Work and Conceptual Design Plan for the new Traffic Signal System to be located at the intersection of Route 27 at Concord Street, and related roadway and sidewalk work.

The currently projected construction cost for these improvements is between \$510,000 - \$650,000.00. Additional costs will be required to further advance the Conceptual Design Plan into fully engineered and biddable Plans and Specifications. This design work will be performed

by the Department of Public Works selected engineering design firm, and then the project will be publicly advertised by the Department of Public Works for award to the project low bid contractor.