

**TOWN OF PLYMOUTH CAPITAL IMPROVEMENT PLAN REQUEST
FY25 SPRING ANNUAL TOWN MEETING**

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|--|----------------------------|--------------|
| Department: Fire Department | Priority #: | 1 |
| Project Title and Description: Rehabilitate Pumping Engine #7 | Total Project Cost: | \$176,748.00 |

Department/Division Head: Chief Neil Foley

Check if project is: New ☒ Resubmitted ☐ **Cost estimate was developed:** Internally ☒ Externally ☐

For project re-submittals, list prior year(s):

List any funding sources and amounts already granted: _____

| Basis of Estimated Costs (attach additional information if available) | | | If project has impact on 5 Year Plan and future operating budgets, insert estimated amounts. | | |
|---|--------------|----------|--|---------|--------------------------|
| Capital: | Cost | Comments | Fiscal Year: | Capital | Operations & Maintenance |
| <i>Planning and Design</i> | | | FY26 | | |
| <i>Labor and Materials</i> | \$176,748.00 | | FY27 | | |
| <i>Administration</i> | | | FY28 | | |
| <i>Land Acquisition</i> | | | FY29 | | |
| <i>Equipment</i> | | | FY30 | | |
| <i>Other</i> | | | | | |
| <i>Contingency</i> | | | | | |
| Total Capital | \$176,748.00 | | | | |

Project Justification and Objective: This project is in line with the Department's fire apparatus replacement program as recommended by the 2022 Fire Department Analysis, which outlines a goal of 15 years of frontline service with an additional 5 years in reserve. If this work is unable to be performed, full replacement will likely be needed within 5 years.

For Capital Project Requests:

Will this project be phased over more than one fiscal year? If yes, enter it on the 5 Year Plan Yes ☐ No ☒
Can this project be phased over more than one fiscal year? Yes ☐ No ☒

For Capital Equipment Requests:

☐ Check if equipment requested is replacement and enter the year, make & model, VIN and present condition of existing equipment

What is the expected lifespan of this new/replacement equipment: 10 + Years

Attach backup information, estimates, or justification to support this request.



Town of Plymouth
Fire Department
114 Sandwich Street
Plymouth, Massachusetts 02360
508-830-4213
Fax 508-830-4174

To: Capital Improvement Committee
cc: Sandra Strassel, Procurement Officer
Lynne Barrett, Finance Director
Derek Brindisi, Town Manager
Brad Brothers, Asst. Town Manager

From: Neil J. Foley, Chief of Department

Date: November 1, 2023

RE: Rehabilitate 2013 E-One Cyclone 1500GPM Pumping Engine \$176,748.00

The Department is requesting \$176,748.00 to perform a comprehensive refurbishment of Engine 7, a 2013 Pumping Engine stationed at the North Plymouth Station. Engine 7 has accumulated 6,142 engine hours, equivalent to 251,822 road miles. All regular and recommended preventive maintenance has been performed by our repair shop or the factory-authorized dealer. According to the Repair Division's April 2023 Apparatus Report, Engine 7 is currently rated to be in good condition, but it is showing signs of its age and use.

Engine 7 has responded to over 15,000 emergencies since being placed in service in 2013. As a result, it is showing signs of expected wear and tear for a 10-year-old truck that has been exposed to road salt and other corrosive substances used in the Northeast. This work will involve nearly all major components, including engine, transmission, fire pump, chassis, cab, body, electric, and paint. A delay in this project will likely necessitate complete replacement sooner than anticipated. The current estimated replacement cost of a pumping engine is roughly \$970,576.00, a figure that has historically increased by 4% annually but recently has increased up to 11%. Therefore, it is imperative to stay on course with the Department's fire apparatus rehabilitation schedule and maximize the service life of our apparatus.

This project is in line with the Department's fire apparatus replacement program as recommended by the 2022 Fire Department Analysis, which outlines a goal of 15 years of frontline service with an additional 5 years in reserve. If this work is unable to be performed, full replacement will likely be needed within 5 years.

This pumping engine was manufactured to meet all National Fire Protection Association (NFPA) safety standards required at the time. However, new safety standards have been adopted to enhance the safety of our firefighters and the public. With the requested funding, all necessary repairs and preventive work will be carried out, and components will be updated to meet as many current NFPA safety standards as possible.