



Massachusetts Bay Transportation Authority

MBTA Contract R19PS03 PM/CM Services: Amendment 8

Red Line/Orange Line Infrastructure Improvements Program

April 29, 2019

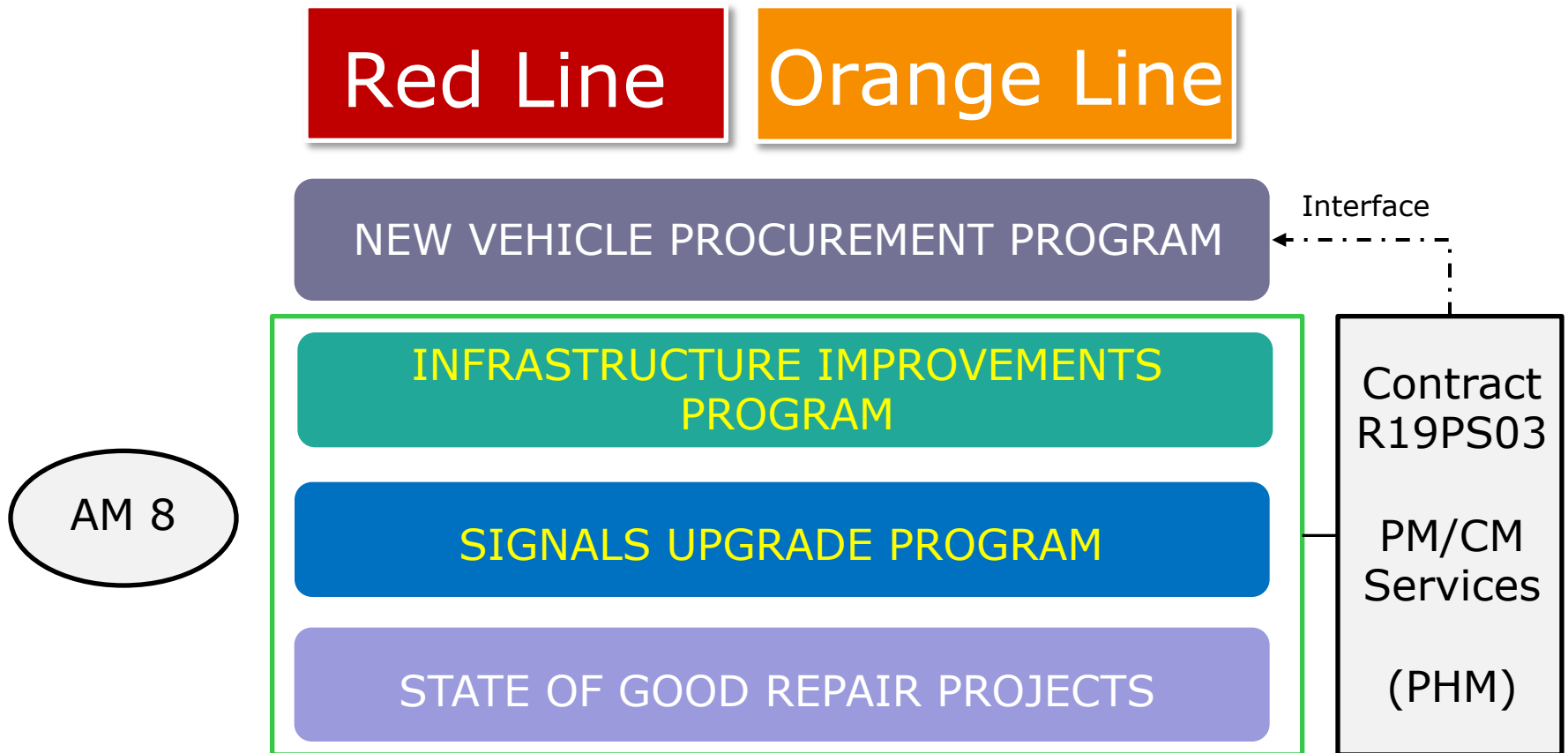


Overview

- Today's board action will allow the continuation of Program Management/Construction Management (PM/CM) services provided by Patrick Engineering and Mott MacDonald, LLC JV (PHM) for the Red Line/Orange Line Infrastructure Improvements Program.
- This action will provide PM/CM services through April, 2020.

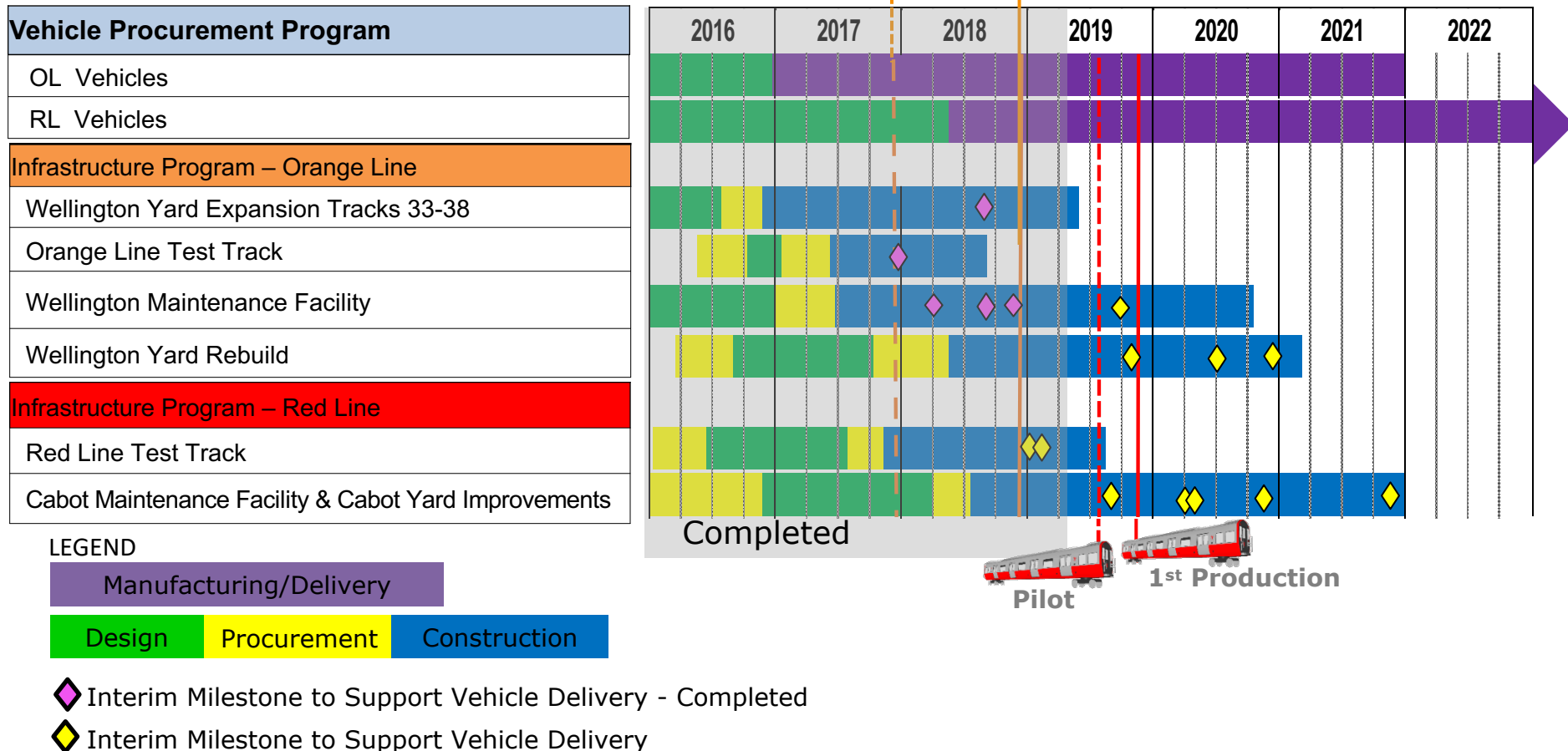


Red Line/Orange Line Infrastructure Improvements Program



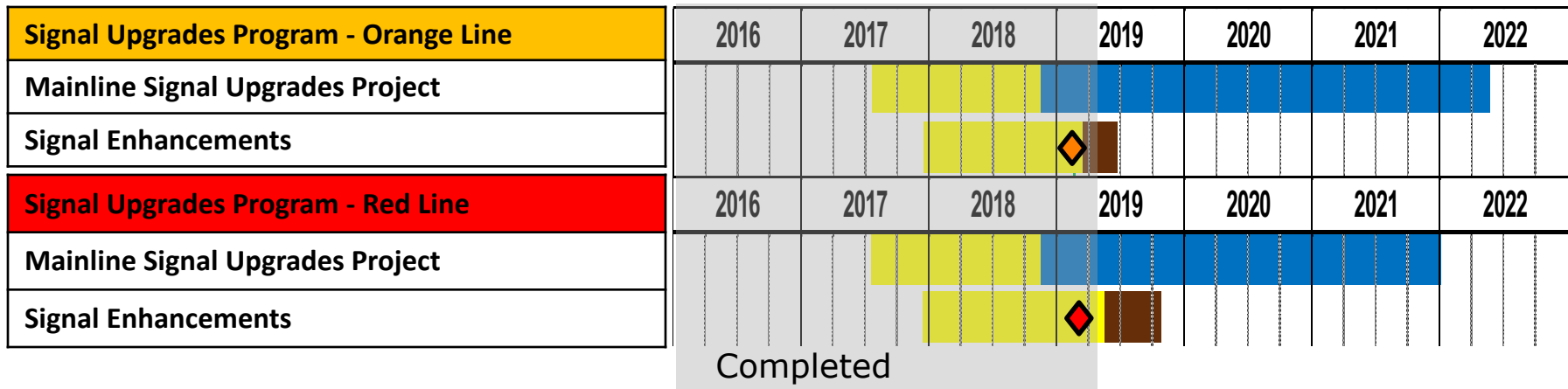


Red Line/Orange Line - Schedule for Infrastructure Projects

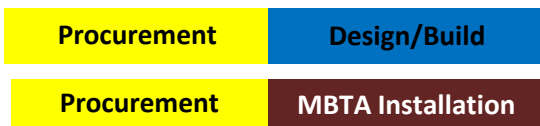




Red Line/Orange Line - Schedule for Signal Projects



LEGEND



- ◆ Start of Orange Line e-Vane Delivery
- ◆ Start of Red Line e-Vane Delivery



PM/CM High Level Scope of Services

Base Contract & Previous Amendments

- Type Studies, Strategic Program Plan
- Procure Designers of Record & Contactors
- Design Reviews and Coordination
- Construction Planning: Interface Mgmt. of Four Infrastructure Projects
- Prepare, Complete & Advertise Bid
- Perform CM Services & Contractor Oversight
- Program Monitoring and Reporting.
- Conceptual Signals Design Document
- Signals Strategic Program Plan
- Develop and Issue Signal Upgrade RFP
- Quality and Safety Oversight
- Change & Claims Management

Amendment No. 8

- Perform CM Services & Contractor Oversight
- Construction Planning: Interface Mgmt. of Five Active Infrastructure Projects and the RL/OL Design Build Signal Upgrades Project
- Quality and Safety Oversight
- Change & Claims Management
- Program Monitoring and Reporting; including FTA Coordination
- Continued Coordination with Internal/External Stakeholders
- Design Reviews and Coordination for the Alewife Crossover and Codman Yard Rebuild projects



Amendment 8 Continuation of PM/CM Services

Red & Orange Line Improvement Projects
(Cost in Millions)

Total Budget

Construction
Advertisement
Dates

Infrastructure Program	
Orange Line Test Track at Wellington Yard	\$ 8.07 M
Wellington Yard Expansion-Tracks 33 to 38	\$ 24.56 M
Wellington Maintenance Facility	\$ 89.38 M
Wellington Yard Rebuild	\$ 127.55 M
Red Line Test Track	\$ 26.64 M
Cabot Yard & Maintenance Facility Improvements	\$ 261.21 M
Program Level MBTA (Project Administration & Field Inspection)	\$ 30.33 M
Program Level PM/CM	\$ 91.07 M
Program Level OR	\$ 8.27 M
Program Contingency	\$ 38.31 M
Subtotal	\$ 705.39 M

✓	Mar. 2017
✓	Oct. 2016
✓	Mar. 2017
✓	Feb. 2018
✓	Aug. 2017
✓	Jun. 2018

Signals Program	
Orange Line Signaling and Train Control Systems Upgrade	\$ 109.35 M
Southwest Corridor Wayside Signal Replacement	\$ 8.56 M
Red Line Signaling and Train Control Systems Upgrade	\$ 98.96 M
Columbia Junction Phase II	\$ 24.32 M
Signal Systems RL/OL Enhancements	\$ 1.05 M
Program Level MBTA (Project Administration & Field Inspection)	\$ 15.19 M
Program Level PM/CM	\$ 4.67 M
Red & Orange Signal Control System Upgrade	\$ 2.66 M
Program Contingency	\$ 2.88 M
Subtotal	\$ 267.64 M

✓	Sep. 2017
✓	Sep. 2017
✓	Sep. 2017
✓	Sep. 2017
✓	Dec. 2017

Total	\$ 973.03 M
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Request of the Fiscal and Management Control Board

Staff request that the Fiscal and Management Control Board authorize the MBTA General Manager, or his designee, to award and execute Amendment No. 8 for Professional Services Contract R19PS03: PM/CM Services for the Red Line/Orange Line Infrastructure Improvements Program & Signal Upgrades (Continuation of PM/CM Services) with Patrick Engineering and Mott MacDonald Joint Venture (PHM) for an amount not to exceed \$19,022,783.