



# **Massachusetts Bay Transportation Authority**

## Consulting Contract to Support Procurement of Specialized Work Vehicles

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Fiscal and Management Control Board

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# Overview

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- Today's presentation defines the Engineering and Project Management Services required to support the MBTA through a procurement of 8 subway work cars. The procurement includes:
  - **3 track maintenance vehicles** for the Red, Orange, and Blue Lines (with the option to procure an additional vehicle for the Green Line), which will run on diesel and increase capabilities where power is shut down
  - **3 vacuum cars** for the Red, Orange, and Blue Lines, which will be used to decrease the number of trash fires and, consequently, service disruptions
  - **2 wire maintenance and inspection vehicles** for the Green and Blue Lines, which will replace vehicles that have reached the end of their useful lives and are in constant need of repair
- The appendix includes:
  - Background/history of the subway work cars from procurement until current state
  - Scope of work that will be performed by LTK Engineering Services
  - Why program and consultant services are necessary



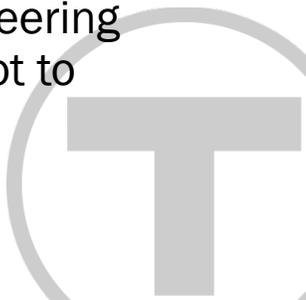
# Request of the Fiscal and Management Control Board

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- LTK Engineering Services was the only company to submit a proposal.
- LTK Engineering Services has WSP USA Services and VP Engineering, Inc. as sub-consultants
- 48-month contract at a cost of \$4,061,930.62
- Contract breakdown:
  - LTK: \$2,795,873.87 (69%)
  - WSP USA: \$685,353.02 (17%)
  - VPE (DBE): \$580,703.73 (14%)
- Total Work Car Replacement Budget is \$63,559,333

## **Request of the FMCB:**

Staff request that the Fiscal and Management Control Board authorize the MBTA General Manager, or his designee, to award and execute MBTA Consulting Contract No. V93PS01: Project Management and Engineering Services in Support of Procurement of Subway Work Cars with **LTK Engineering Services** for an amount not to exceed **\$4,061,930.62**.



# Appendix



# Subway Work Car History

- All of the track maintenance and wire inspection vehicles have reached the end of their useful lives and are in constant need of repair.
- Track maintenance vehicles run on third rail and/or overhead catenary. New vehicles will run on diesel, increasing capabilities where power is shut down.
- Vacuum cars have never been procured by the MBTA. These vehicles will be used to decrease the number of trash fires and, consequently, service disruptions.



*Existing Orange Line track maintenance vehicle*



# Scope of Work

The scope of work will include but is not limited to:

1. Multidiscipline engineering (i.e. electrical and mechanical)
2. Procurement support
3. Review and analysis of technical specifications
4. Historical Assessment
5. Assistance in performance testing
6. Warranty support
7. Quality assurance

## *Why are program and consultant services necessary?*

- Project complexity requires engineering expertise that LTK Engineering Services possesses.
- There is a need to manage and coordinate the activities required to complete all the tasks assigned under the contract for all phases of the project.
- The MBTA does not have enough engineering staff to support a program of this magnitude.

