

Metro Railcar and Signaling Systems Replacement

TIP ID	40-1403-64	Year of Operation	2016
Agency	MTA - Transit	Project Type	Preservation and improvements
Project Category	Transit	Functional Class	NA
Conformity Status	Exempt	Physical Data	NA
CIP or CTP ID(s)	1415/1445	Est. Total Cost	\$72,694,000

Description:

The Metro Railcar fleet consists of 90 cars (45 semi-permanent married pairs). Based on the 30 year design life, the Metro cars are due for replacement. The replacement of the railcar fleet will provide passengers with enhanced comfort, conveniences and ensure improved reliability.

Note: in addition to the state match below, the state will commit an additional \$228.9 million in non-federal funds.

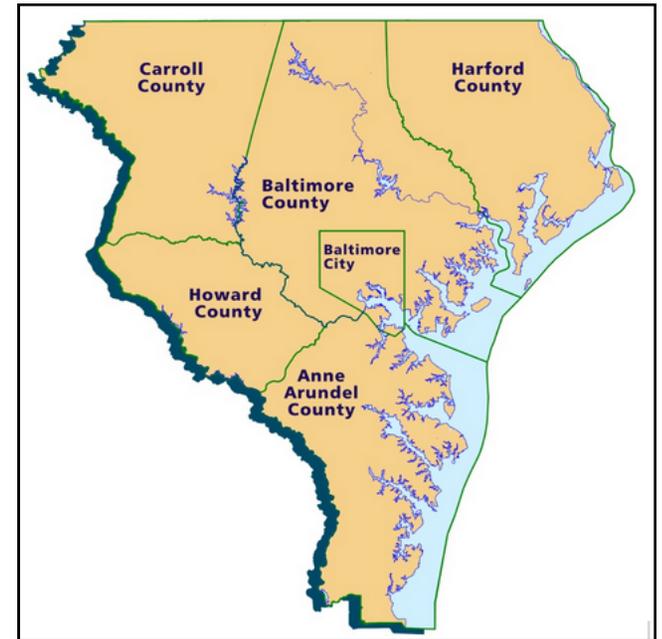
Justification:

The replacement of Metro vehicles and the Signaling System with modern and reliable equipment will enhance passenger comfort, ensure better reliability and offer improved safety.

The MTA's Metro Signaling System consists of a double tracked train controlled signaling system that is 15 miles long. The Metro train control system was installed in three phases and the oldest section is currently 30 yrs old. The Automatic Train Protection system is currently experiencing reliability issues due to its age and parts obsolescence thus increasing maintainability issues across its various systems and sub-systems. The replacement of the Signaling System with modern, reliable equipment will enhance passenger comfort, ensure better reliability and offer improved safety.

Connection to Long-Range Transportation Planning Goals:

2.D Preserve the Existing Infrastructure -- Continue to invest in improvements to existing rail and bus infrastructure and stations/stops





Metro Railcar and Signaling Systems Replacement

(Funding in Thousands)

Section 5307 Urbanized Area Formula

Phase	FY 2014 Federal Funds	FY 2014 Matching Funds	FY 2015 Federal Funds	FY 2015 Matching Funds	FY 2016 Federal Funds	FY 2016 Matching Funds	FY 2017 Federal Funds	FY 2017 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$1,600	\$400	\$28,010	\$7,003	\$24,904	\$6,226	\$68,143
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$0	\$0	\$1,600	\$400	\$28,010	\$7,003	\$24,904	\$6,226	\$68,143

Congestion Mitigation and Air Quality

Phase	FY 2014 Federal Funds	FY 2014 Matching Funds	FY 2015 Federal Funds	FY 2015 Matching Funds	FY 2016 Federal Funds	FY 2016 Matching Funds	FY 2017 Federal Funds	FY 2017 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$3,641	\$910	\$0	\$0	\$4,551
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$0	\$0	\$0	\$0	\$3,641	\$910	\$0	\$0	\$4,551
Total	\$0	\$0	\$1,600	\$400	\$31,651	\$7,913	\$24,904	\$6,226	\$72,694