

**MBTA Capital Program - Federal Funding
FFY 2021-2025 Transportation Improvement Program - as of April 2020**

Federal Funding Program	ALI	2021	2022	2023	2024	2025	FFY21-25 Total (Federal)	FFY21-25 Total (Incl. Match)
5307		\$150,670,497	\$153,246,962	\$155,867,485	\$158,532,819	\$161,243,730	\$779,561,494	\$974,451,867
Revenue Vehicle Program	12.12.00	\$97,660,130	\$124,671,267	\$127,291,790	\$129,957,124	\$132,668,035	\$612,248,347	\$765,310,433
Signals/Systems Upgrade Program	12.63.01	\$48,000,000	\$27,136,607	\$27,136,607	\$27,136,607	\$27,136,607	\$156,546,427	\$195,683,034
Stations and Facilities Program	12.34.00	\$5,010,366	\$1,439,088	\$1,439,088	\$1,439,088	\$1,439,088	\$10,766,720	\$13,458,400
5337		\$147,760,137	\$150,286,835	\$152,856,739	\$155,470,590	\$158,129,137	\$764,503,437	\$955,629,296
Bridge & Tunnel Program	12.24.05	\$23,927,558	\$42,698,292	\$42,698,292	\$42,698,292	\$42,698,292	\$194,720,727	\$243,400,909
Revenue Vehicle Program	12.12.00	\$0	\$16,986,118	\$16,986,118	\$16,986,118	\$16,986,118	\$67,944,474	\$84,930,592
Signals/Systems Upgrade Program	12.63.01	\$62,601,253	\$28,932,637	\$28,932,637	\$28,932,637	\$28,932,637	\$178,331,803	\$222,914,753
Stations and Facilities Program	12.34.00	\$61,231,326	\$61,669,786	\$64,239,691	\$66,853,541	\$69,512,089	\$323,506,434	\$404,383,042
5339		\$6,758,840	\$6,874,416	\$6,991,968	\$7,111,531	\$7,233,138	\$34,969,893	\$43,712,367
Bus Program	11.14.00	\$6,758,840	\$6,874,416	\$6,991,968	\$7,111,531	\$7,233,138	\$34,969,893	\$43,712,367
FY21-25 FTA Formula Funding		\$305,189,473	\$310,408,213	\$315,716,193	\$321,114,940	\$326,606,005	\$1,579,034,824	\$1,973,793,530
5309 - GLX		\$100,000,000	\$46,121,000	\$0	\$0	\$0	\$146,121,000	\$292,242,000
Green Line Extension	13.23.03	\$100,000,000	\$46,121,000	\$0	\$0	\$0	\$146,121,000	\$292,242,000
Other Federal		\$100,570,000	\$526,000,000	\$115,680,000	\$80,000,000	\$0	\$822,250,000	\$822,250,000
Passenger Ferry Grant Program	12.33.05	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PTC/ATC/Fiber - RRIF Financing	12.63.01	\$100,570,000	\$526,000,000	\$115,680,000	\$80,000,000	\$0	\$822,250,000	\$822,250,000
FY21-25 Total Federal Funding		\$505,759,473	\$882,529,213	\$431,396,193	\$401,114,940	\$326,606,005	\$2,547,405,824	\$3,088,285,530

Note:

FTA formula funds (5307, 5337 and 5339) are based on estimated apportionments.

TIP programs and projects are based on a draft FY21-24 CIP as of Apr-20. Adjustments will be made to federal projects and budgets as the CIP process is finalized.

The Activity Line Item (ALI) codes are preliminary only and generally reflects the bulk of the TIP program. Within a program there may be several different ALI codes used.

Green Line Extension funding is based on the FFGA. \$550M has been obligated to date; \$300M has been programmed in FFY20.

RRIF loan funding for the PTC/ATC/Fiber Resiliency project is based on the planned drawdown schedule as of Apr-20, and is subject to change.

MBTA Federal Capital Program
FFY 2020 and FFY 2021-2025 TIP - Project List and Descriptions (80% Federal Share)

Funds	TIP Program	CIP ID#	Project Name	FFY 2020	FFY 2021-2025	Total (Federal)	Project Description
5307 - Revenue Vehicles							
5307	Revenue Vehicles	N/A	Bus Overhaul Program (156 Hybrid, 175 CNG, 45 60ft Hybrid)	\$0	\$20,800,000	\$20,800,000	Overhaul of MBTA bus fleet (hybrid and CNG)
5307	Revenue Vehicles	P0618	Delivery of 40 ft Buses - FY 2021 to FY 2025	\$0	\$180,246,317	\$180,246,317	Procurement of 40-foot electric and hybrid buses for replacement of diesel bus fleet.
5307	Revenue Vehicles	P0619	DMA Replacement	\$0	\$82,690,000	\$82,690,000	Procurement of 60-foot Dual Mode Articulated (DMA) buses to replace the existing fleet of 32 Silver Line Bus Rapid Transit buses and to provide for ridership expansion projected as a result of Silver Line service extension to Chelsea.
5307	Revenue Vehicles	P0369	Green Line Type 10 Light Rail Fleet Replacement	\$45,809,122	\$162,511,900	\$208,321,021	Replacement of Light Rail Vehicles to replace the existing Green Line Type 7 and 8 Fleets.
5307	Revenue Vehicles	P0638	Midlife Overhaul of 25 New Flyer Allison Hybrid 60ft Articulated Buses	\$0	\$3,260,130	\$3,260,130	Overhaul of 25 hybrid buses, brought into service in 2009 and 2010, to enable optimal reliability through the end of their service life.
5307	Revenue Vehicles	P0649	Option Order Procurement of 194 New Flyer Hybrid 40 ft Buses	\$24,850,560	\$0	\$24,850,560	Procurement of 40-foot buses with hybrid propulsion to replace Emission Controlled Diesel (ECD) buses that have reached the end of their service life.
5307	Revenue Vehicles	P0376	Overhaul of 155 Option New Flyer Buses	\$720,747	\$0	\$720,747	Mid-life overhaul of 155 standard buses to replace and repair targeted systems and components to optimize reliability and extend their service life.
5307	Revenue Vehicles	P0650	Overhaul of 33 Kawasaki 900 Series Bi-Level Coaches	\$0	\$35,360,000	\$35,360,000	Overhaul and upgrade of existing systems on commuter rail coaches that were brought into service in 2005 to enable optimal reliability through the end of their service life.
5307	Revenue Vehicles	P0652	Procurement of Bi-Level Commuter Rail Coaches	\$0	\$127,380,000	\$127,380,000	Procurement of bi-level commuter rail coaches to replace existing cars that have exceeded their service life.
5307	Revenue Vehicles	P0460	Red Line No. 3 Car - Targeted Reliability Improv.	\$35,226,740	\$0	\$35,226,740	Procurement of bi-level commuter rail coaches to replace existing cars that have exceeded their service life.
5307	Revenue Vehicles	P0618	Bus Procurement - Virginia DOT Option (60 Buses)	\$43,951,070	\$0	\$43,951,070	Overhaul and upgrade of selected systems on Red Line fleet vehicles to extend service life until planned replacement.
				\$150,558,238	\$612,248,347	\$762,806,585	
5307 - Signals and Systems							
5307	Signals and Systems	P0857	Mattapan HSL Transformation	\$0	\$46,584,000	\$46,584,000	State of good repair and accessibility improvements to all stations, improvements to the power infrastructure, strengthening of corridor bridges, improvements to corridor drainage, and other infrastructure improvements.
5307	Signals and Systems	P0285	Signal Program - Red/Orange Line	\$0	\$109,962,427	\$109,962,427	Various signal upgrades and improvements along both the Red and Orange Lines.
				\$0	\$156,546,427	\$156,546,427	
5307 - Stations and Facilities							
5307	Stations and Facilities	P0104	Charlestown Bus - Seawall Rehab	\$21,628,382	\$0	\$21,628,382	Rehabilitation of existing seawall to protect bus maintenance facility from future storm and flooding events.
5307	Stations and Facilities	P0066	Elevator Program	\$12,336,468	\$9,416,087	\$21,752,555	Installation of new redundant elevators and the replacement of existing elevators at various stations, in order to mitigate degradation of station elevators and to maintain station accessibility during elevator maintenance.
5307	Stations and Facilities	P0165	Harvard Square Busway Repairs	\$1,600,000	\$0	\$1,600,000	Rehabilitation of roadway, drainage and catenary infrastructure at the Harvard Square Busway.
5307	Stations and Facilities	P0066e	Harvard/Central Elevator	\$3,076,382	\$0	\$3,076,382	Elevator Improvements at Harvard/Central to address station accessibility needs.

MBTA Federal Capital Program
FFY 2020 and FFY 2021-2025 TIP - Project List and Descriptions (80% Federal Share)

Funds	TIP Program	CIP ID#	Project Name	FFY 2020	FFY 2021-2025	Total (Federal)	Project Description
5307	Stations and Facilities	P0078	Hingham Ferry Dock Modification	\$0	\$1,200,000	\$1,200,000	Capital improvements and modifications to the existing ferry dock in Hingham.
5307	Stations and Facilities	N/A	Stations & Facilities - Program Allowance	\$160,743	\$150,633	\$311,376	TIP program allowance for future cost adjustments
				\$38,801,975	\$10,766,720	\$49,568,695	

5337 - Bridge and Tunnel

5337	Bridge and Tunnel	P0495	Bridge Bundling Contract	\$0	\$28,314,364	\$28,314,364	Replacement of 6 commuter rail bridges: Lynn Fells Parkway in Melrose (Haverhill Line); Parker Street in Lawrence (Haverhill Line); Commercial Street in Lynn (Newburyport/Rockport Line); Bacon Street in Wellesley (Worcester Line); Intervale Road in Weston (Worcester Line); and High Line Bridge in Somerville (Lowell Line).
5337	Bridge and Tunnel	P0009	Bridges - Design	\$0	\$13,571,286	\$13,571,286	Design for high priority bridge repairs system wide.
5337	Bridge and Tunnel	P0855	East Cottage Street Bridge	\$0	\$12,687,558	\$12,687,558	Replacement of East Cottage Street bridge with a new superstructure and substructure to meet design code/standards, as well as MBTA and FTA State of Good Repair requirements.
5337	Bridge and Tunnel	P0008	Emergency Bridge Design / Inspection & Rating	\$0	\$3,420,324	\$3,420,324	Inspection of bridge assets system wide for determination of asset condition ratings and subsequent prioritization and scoping for repairs to select bridges.
5337	Bridge and Tunnel	P0037	Emergency Bridge Repair	\$0	\$3,426,549	\$3,426,549	Repairs to bridges system wide, based on asset condition as determined by system wide inspections.
5337	Bridge and Tunnel	P0006	Gloucester Drawbridge Replacement	\$0	\$12,402,982	\$12,402,982	Replacement of Gloucester Drawbridge with two new independent/operational and functioning movable bascule bridges.
5337	Bridge and Tunnel	P0551	Longfellow Approach	\$0	\$91,088,479	\$91,088,479	Rehabilitation of the Longfellow Approach Viaduct, Charles/MGH Station platforms, and Span 1 of the Longfellow Bridge.
5337	Bridge and Tunnel	P0851	Norfolk Avenue Bridge	\$0	\$11,240,000	\$11,240,000	Replacement of bridge carrying the Fairmont (Dorchester) Line Commuter Rail service over Norfolk Avenue in Boston.
5337	Bridge and Tunnel	P0853	Robert Street Bridge	\$6,868,628	\$0	\$6,868,628	Replacement of bridge carrying the Needham Line Commuter Rail service over Robert Street in Roslindale.
5337	Bridge and Tunnel	P0852	Structural Repairs Systemwide	\$0	\$8,055,417	\$8,055,417	Repairs to bridge or other structures system wide on an emergency or planned basis.
5337	Bridge and Tunnel	R0074	Tunnel Inspection Systemwide	\$0	\$8,880,000	\$8,880,000	Inspection to assess condition of transit tunnels system wide.
5337	Bridge and Tunnel	P0182	Tunnel Rehab	\$0	\$1,633,769	\$1,633,769	Repair and rehabilitation of transit tunnels system wide.
				\$6,868,628	\$194,720,727	\$201,589,355	

5337 - Revenue Vehicles

5337	Revenue Vehicles	P0370	Green Line Train Protection	\$0	\$46,437,946	\$46,437,946	Installation of on-board and wayside equipment for a train monitoring system to determine allowable train separation, based on speed and location, and to prevent vehicles from passing a red signal.
5337	Revenue Vehicles	P0239	Locomotive Overhaul	\$0	\$21,506,527	\$21,506,527	Overhaul of commuter rail locomotives to improve fleet availability and service reliability systemwide.
				\$0	\$67,944,474	\$67,944,474	

5337 - Signals and Systems

5337	Signals and Systems	P0097	45 High Street - Data Center Upgrades	\$1,200,000	\$0	\$1,200,000	Includes new fire suppression/alarm system as well as power, fiber, HVAC and other data center improvements at the MBTA operations center at 45 High Street, Boston.
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**MBTA Federal Capital Program
FFY 2020 and FFY 2021-2025 TIP - Project List and Descriptions (80% Federal Share)**

Funds	TIP Program	CIP ID#	Project Name	FFY 2020	FFY 2021-2025	Total (Federal)	Project Description
5337	Signals and Systems	R0117	Alewife Crossing Improvements	\$0	\$7,258,400	\$7,258,400	As part of the Red/Orange Line Infrastructure Improvement Program, this project will involve the upgrade of track switches at Alewife Station and associated retrofits to accommodate these new components.
5337	Signals and Systems	P0261	Framingham/Worcester Line Third Track and Station Accessibility Impr	\$0	\$11,885,742	\$11,885,742	Construction of a new three-track section on the Framingham/Worcester Commuter Rail line to improve capacity, efficiency of operations and to bring four (4) commuter rail stations into full ADA compliance.
5337	Signals and Systems	P0874	GL B-Branch Infrastructure Improve	\$5,257,022	\$0	\$5,257,022	Retrofit and replacement of existing infrastructure to address state of good repair and code compliance needs within the right-of-way of the Green Line light rail B Branch between Blandford Street and Boston College.
5337	Signals and Systems	P0878	GL C-Branch Surface Improve	\$22,203,181	\$0	\$22,203,181	Retrofit and replacement of existing infrastructure to address state of good repair and code compliance needs within the right-of-way of the Green Line light rail C Branch between Kenmore and Cleveland Circle.
5337	Signals and Systems	P0879	GL E-Branch Surface Improve	\$24,178,583	\$0	\$24,178,583	Retrofit and replacement of existing infrastructure to address state of good repair and code compliance needs within the right-of-way of the Green Line light rail E Branch between Symphony and Huntington Avenue.
5337	Signals and Systems	P0468	Green Line (Non-GLX) Grade Crossings	\$8,873,620	\$0	\$8,873,620	Replacement of existing at-grade crossings at various locations on the B and C branches of the Green Line along Commonwealth Avenue and Beacon Street.
5337	Signals and Systems	P0591	Green Line Central Tunnel Track and Signal Replacement	\$0	\$68,689,513	\$68,689,513	Replacement of the existing 25 cycle signal system and associated wayside equipment at Government Center, Copley and Park Street Interlockings, and related track work.
5337	Signals and Systems	R9593	Green Line D Branch Track and Signal Replacement	\$27,241,154	\$16,827,676	\$44,068,830	Replacement of track and signal system components on the Highland Branch of the Green Line from Reservoir to Riverside Stations, including replacement of obsolete 25 Hz track circuits with modern solid-state 100 Hz track circuits.
5337	Signals and Systems	R0020	Infrastructure Asset Management Program	\$4,000,000	\$8,536,961	\$12,536,961	Collection of infrastructure based asset data in order to update MBTA asset management databases, and manage asset and life cycle/risk management practices.
5337	Signals and Systems	P0637	MCRS2 v17 and Business Process Update	\$4,188,000	\$0	\$4,188,000	Updates and improvements to MBTA asset management systems and business processes.
5337	Signals and Systems	P0212	North Station Terminal Signal	\$0	\$4,000,000	\$4,000,000	Upgrades to the commuter rail signal/communication system in the North Station area required for more efficient phasing of future track alignments, including support for the future Draw1 Bridge Replacement Project.
5337	Signals and Systems	P0705	Power Systems Resiliency Program	\$11,416,644	\$0	\$11,416,644	Installation of new duct bank systems to replace damaged power infrastructure, including at West Fourth Street, Dudley Square, Arlington Street, Causeway Street, two locations on Commonwealth Ave and three locations on Beacon Street.
5337	Signals and Systems	P0654	Red Line Interlock Upgrades	\$0	\$9,600,000	\$9,600,000	Replacement of existing interlocking signal components on the Red Line to bring the assets to a state of good repair.
5337	Signals and Systems	P0301	System-Wide Radio	\$4,130,422	\$51,533,511	\$55,663,933	Replacement of existing radio system for MBTA Police to support critical two-way communication for MBTA Transit Police and to support a secure and Interoperable Radio System.
				\$112,688,625	\$178,331,803	\$291,020,428	

5337 - Stations and Facilities

5337	Stations and Facilities	P0087	Braintree and Quincy Adams Garage Rehab	\$9,295,936	\$0	\$9,295,936	The full repair and rehabilitation of the Red Line's Quincy Adams Station and Braintree Station parking garages.
5337	Stations and Facilities	P0679	Codman Yard Expansion and Improvements	\$0	\$50,843,508	\$50,843,508	Infrastructure improvements to Codman Yard, an additional Red Line storage facility, to accommodate the new vehicle fleet.
5337	Stations and Facilities	P0074	Downtown Crossing Vertical Transportation Improvements Phase 2	\$0	\$5,926,390	\$5,926,390	Construction of two new redundant elevators, in order to improve accessibility and to provide for future elevator maintenance without rendering the station temporarily inaccessible.
5337	Stations and Facilities	P0075	Elevator Program Multiple Location Design	\$0	\$38,779,082	\$38,779,082	Design for the installation of new redundant elevators and the replacement of existing elevators system wide.

**MBTA Federal Capital Program
FFY 2020 and FFY 2021-2025 TIP - Project List and Descriptions (80% Federal Share)**

Funds	TIP Program	CIP ID#	Project Name	FFY 2020	FFY 2021-2025	Total (Federal)	Project Description
5337	Stations and Facilities	P0163	Forest Hills Improvement Project	\$0	\$26,089,763	\$26,089,763	Improvements at Forest Hills Station on the Orange Line and Needham Commuter Rail Line to comply with ADA accessibility standards. Work will also include infrastructure and other improvements.
5337	Stations and Facilities	P0003	Green Line B-Branch Consolidation	\$23,422,633	\$0	\$23,422,633	Addressing accessibility issues along the B branch of the Green Line along Commonwealth Avenue.
5337	Stations and Facilities	P0890	Green Line Surface Station Accessibility	\$0	\$9,120,000	\$9,120,000	Reconstruction of Green Line surface stations and related infrastructure to support compliance with ADA regulations and alignment with corridor capacity needs.
5337	Stations and Facilities	R0071	Lynn Station & Parking Garage Improvements Phase II	\$0	\$26,461,132	\$26,461,132	Extensive rehabilitation efforts include reconstruction of the existing commuter rail platform, upgrade of mechanical and electrical systems at the station, and structural repairs and code compliance retrofits to the garage.
5337	Stations and Facilities	P0174	Natick Center Station Accessibility Project	\$34,878,560	\$0	\$34,878,560	Accessibility improvements at the Natick Center commuter rail station on the Framingham/Worcester Line.
5337	Stations and Facilities	P0170	Newton Commuter Rail Stations Design	\$0	\$16,511,947	\$16,511,947	For a conceptual design and operational analysis study of the Newton commuter rail stations, with additional funding for various accessibility and infrastructure improvements.
5337	Stations and Facilities	P0129	Newton Highlands Green Line Station Accessibility Project	\$0	\$25,642,762	\$25,642,762	Improvements at Newton Highlands station on the D branch of the Green Line to comply with ADA accessibility standards.
5337	Stations and Facilities	P0076	Oak Grove Station Vertical Transportation Improvements	\$30,997,590	\$0	\$30,997,590	Retrofit of the existing Oak Grove station on the Orange Line to bring it into full compliance with ADA standards, including the replacement of existing elevators, construction of two new elevators, various parking and path of travel upgrades.
5337	Stations and Facilities	P0856	Ruggles Station Improvements Phase 2	\$0	\$2,599,003	\$2,599,003	Design for state of good repair improvements to Ruggles Station on the Orange Line.
5337	Stations and Facilities	P0496	Silver Line Gateway - Phase 2	\$0	\$2,301,952	\$2,301,952	Includes the building of a new commuter rail station adjacent to the new Chelsea Bus Rapid Transit (BRT) Station located at the Mystic Mall, as well as decommissioning of the existing Chelsea Commuter Rail Station and signal prioritization.
5337	Stations and Facilities	P0178	South Attleboro Station Accessibility Improvements	\$0	\$38,929,374	\$38,929,374	Needs assessment and design services associated with accessibility, structural, parking and multi-modal facility improvements for the South Attleboro commuter rail station.
5337	Stations and Facilities	P0168	Symphony Station Improvements	\$0	\$33,416,159	\$33,416,159	Upgrades to the existing Symphony Station on the Green Line in order to provide a modern, accessible, code-compliant facility.
5337	Stations and Facilities	P0179	Winchester Center Station	\$39,936,339	\$0	\$39,936,339	Renovation and accessibility improvements to Winchester Center Station on the Lowell and Haverhill commuter rail lines.
5337	Stations and Facilities	P0395	Worcester Union Station Accessibility Improvements	\$0	\$46,885,361	\$46,885,361	Construction of a new, fully accessible high-level center island platform, with associated elevators, ramps, and stairs; replacement and realignment of station tracks; and construction of a new rail crossover.
				\$138,531,058	\$323,506,434	\$462,037,491	
5339 - Bus and Bus Facility							
5339	Bus and Bus Facilities	P0653	Procurement of Battery Electric 40ft Buses and Related infrastructure	\$6,645,206	\$34,969,894	\$41,615,100	Procurement of Battery Electric 40ft Buses and Related infrastructure (5339)
				\$6,645,206	\$34,969,894	\$41,615,100	

Note: Project descriptions and dollar amounts are preliminary only and are provided for informational purposes. In many cases, the scopes of work and project budgets will become more fully developed as the design process proceeds and is completed. The MBTA may also opt to fund a project from a different FTA funding source based on the timing of projects and the availability of FTA funds.