

Transportation Improvement Program



**Pioneer Valley Metropolitan
Planning Organization**

**FY 2022-2026 METROPOLITAN PLANNING ORGANIZATION
PIONEER VALLEY REGION, MASSACHUSETTS**

May 25, 2021

This document was prepared under contract with the Massachusetts Department of Transportation. This report was funded in part through grant(s) from the Federal Highway Administration (and Federal Transit Administration), U.S. Department of Transportation. The views and opinions of the authors (or agency) expressed herein do not necessarily state those or reflect those of the U.S. Transportation.

TRANSPORTATION IMPROVEMENT PROGRAM (TIP)

2022 - 2026

FOR THE
METROPOLITAN PLANNING ORGANIZATION
PIONEER VALLEY REGION,
MASSACHUSETTS

Endorsed May 25, 2021



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Notice of Nondiscrimination Rights and Protections to Beneficiaries

Federal Title VI/Nondiscrimination Protections

The Metropolitan Planning Organization (MPO) operates its programs, services, and activities in compliance with federal nondiscrimination laws including Title VI of the Civil Rights Act of 1964 (Title VI), the Civil Rights Restoration Act of 1987, and related statutes and regulations. Title VI prohibits discrimination in federally assisted programs and requires that no person in the United States of America shall, on the grounds of race, color, or national origin (including limited English proficiency), be excluded from participation in, denied the benefits of, or be otherwise subjected to discrimination under any program or activity that receives federal assistance. Related federal nondiscrimination laws administered by the Federal Highway Administration (FHWA), Federal Transit Administration (FTA), or both, prohibit discrimination on the basis of age, sex, and disability. The Pioneer Valley Region MPO considers these protected populations in its Title VI Programs, consistent with federal interpretation and administration. In addition, the Pioneer Valley Region MPO provides meaningful access to its programs, services, and activities to individuals with limited English proficiency, in compliance with U.S. Department of Transportation policy and guidance on federal Executive Order 13166.

State Nondiscrimination Protections

The Pioneer Valley Region MPO also complies with the Massachusetts Public Accommodation Law, M.G.L. c 272 §§ 92a, 98, 98a, which prohibits making any distinction, discrimination, or restriction in admission to, or treatment in a place of public accommodation based on race, color, religious creed, national origin, sex, sexual orientation, disability, or ancestry. Likewise, the Pioneer Valley Region MPO complies with the Governor's Executive Order 526, section 4, which requires that all programs, activities, and services provided, performed, licensed, chartered, funded, regulated, or contracted for by the state shall be conducted without unlawful discrimination based on race, color, age, gender, ethnicity, sexual orientation, gender identity or expression, religion, creed, ancestry, national origin, disability, veteran's status (including Vietnam-era veterans), or background.

English: If this information is needed in another language, please contact the PVPC Title VI Specialist at 413-781-6045.

Portuguese: Caso esta informação se necessária em outro idioma, favor contar o Especialista em Título VI do PVPC pelo telefone 413-781-6045.

Spanish: Si necesita esta información en otro idioma, por favor contacte al especialista de PVPC del Título VI al 413-781-6045.

Chinese Simplified: (mainland & Singapore): 如果需要使用其它语言了解信息, 请联系马萨诸塞州交通部 (PVPC) 《民权法案》第六章专员, 电话413-781-6045。

Chinese Traditional: (Hong Kong & Taiwan): 如果需要使用其它语言了解信息, 請聯繫馬薩諸塞州交通部 (PVPC) 《民權法案》第六章專員, 電話413-781-6045。

Russian: Если Вам необходимо данная информация на любом другом языке, пожалуйста, свяжитесь со специалистом по Титулу VI Департамента Транспорта штата Массачусетс (PVPC) по тел:
413-781-6045.

Haitian Creole: Si yon moun vle genyen enfòmasyon sayo nan yon lòt lang, tanpri kontakte Espesyalis PVPC Title VI la nan nimewo 413-781-6045.

Vietnamese: Nếu quý vị cần thông tin này bằng tiếng khác, vui lòng liên hệ Chuyên viên Luật VI của PVPC theo số điện thoại 413-781-6045.

French: Si vous avez besoin d'obtenir une copie de la présente dans une autre langue, veuillez contacter le spécialiste du Titre VI de PVPC en composant le 413-781-6045.

Italian: Se ha bisogno di ricevere queste informazioni in un'altra lingua si prega di contattare lo Specialista PVPC del Titolo VI al numero 413-781-6045.

Khmer: របស់វើន្ទីរ៉ូននេបេណក-

អគ្គការិយាល័យបេណកនេសមទាក់ទងអក្សរសេសសើពីក្រុម ៦

របស់ PVPC តាមរយៈលេខទូរស័ព្ទ 413-781-6045

Programs to Support Civil Rights

The MPO administers several programs to ensure that protected populations have equal access to the benefits of, and participation in, the MPO's transportation-planning process, free from discrimination.

MPO Title VI Program: Develops strategies, actions, and analyses needed to comply with FTA Title VI and FHWA Title VI/nondiscrimination requirements. The MPO reports its actions to comply with FTA requirements every three years; while FHWA requires compliance updates annually. The most recent triennial report can be found [here](#).

Transportation Equity Program: Identifies the transportation needs of protected populations through outreach and data collection, ensures that these needs are considered in the MPO's activities, and evaluates the extent to which the MPO meets the needs of these protected populations.

Public Participation Program: Provides avenues through which all residents, including protected populations, can participate in the MPO's transportation-planning and decision-making process.

Complaint Filing

Complaints filed under a federal law or policy (based on race, color, national origin [including limited English proficiency] sex, age, or disability) must be filed no later than 180 calendar days after the date the person believes the discrimination occurred. Complaints filed under a Massachusetts Public Accommodation Law (based on race, color, religious creed, national origin, sex, sexual orientation, disability, or ancestry) or Governor's Executive Order 526, section 4 (based on race, color, age, gender, ethnicity, sexual orientation, gender identity or expression, religion, creed, ancestry, national origin, disability, veteran's status [including Vietnam-era veterans], or background) must be filed no later than 300 calendar days after the date the person believes the discrimination occurred. The full complaint procedures are described in the document below:

PREFACE

The Pioneer Valley Region

The Pioneer Valley Region is comprised of 43 cities and towns covering approximately 1,180 square miles. Home to over 626,000 residents, the Pioneer Valley is the fourth largest metropolitan area in New England. The map on the following page references the Pioneer Valley Region.

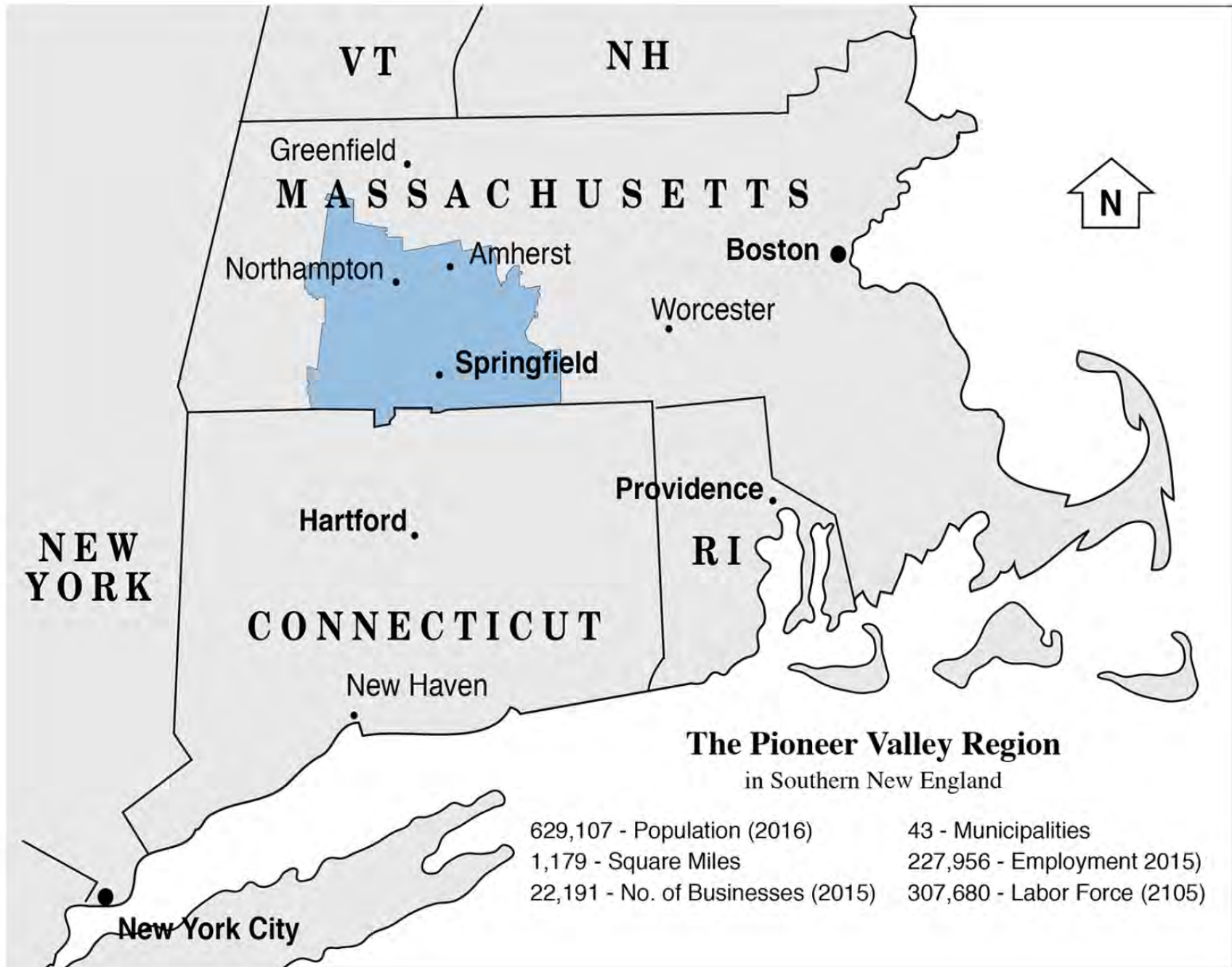
TIP Format and MPO Endorsement

The FFY 2022 - 2026 TIP has been prepared with completely separate components of the document that are subject to federal review and approval and components that are not. This distinction of a “federal component” was the firm position of the Massachusetts Department of Transportation (MassDOT) as a means to avoid potential problems with adequately satisfying federal financial constraint requirements with the non-federal aid component of the TIP. Although a non-federal component of the TIP is represented, it is understood that this component is not subject to Metropolitan Planning Final Rule 23 CMR 450 section 324, therefore federal review and approval is not required.

The non-federal component is provided for the benefit of the MPO and the constituent communities as a representation of an agreed upon listing of improvement projects to be undertaken entirely with state provided resources. All projects included in the Non Federal Aid (NFA) section of the TIP must be eligible to receive federal funds and be located on a functionally classified road. The separation of federal aid projects from non-federal aid projects by no means represents a lack of commitment by the state to fund all projects specifically programmed in the document. Assuming that adequate funds are available from federal and/or state sources, it can be fully expected that the following project listings can and will be implemented over the FFY 2022 - 2026 time frame. Pending federal guidance approving the inclusion of non-federal aid projects without secured bonded resources in each year, the TIP will be amended to reinstate all non-federal aid projects into the document endorsed for federal review and approval.

MassDOT Commitment to Funding all Designed and Permitted Projects

The MassDOT has committed to funding all transportation improvement projects that will be ready for advertisement in FFY 2022 and beyond. In response to this commitment, Pioneer Valley local officials in cooperation with regional and state officials from MassDOT have made a concerted effort to develop a TIP project listing that is truly representative of the projects that will realistically be ready for advertisement in FFY 2022 and beyond. Funding targets for the Pioneer Valley Region have been issued by MassDOT identifying potential resources for each year of the TIP.



I.GENERAL SUPPORT INFORMATION

INTRODUCTION

The Transportation Improvement Program (TIP) is a requirement of the Metropolitan Transportation Planning Process as described in the Metropolitan Planning Final Rule 23 CFR 450 section 324. This regulation developed by the Federal Department of Transportation defines the Transportation Improvement Program as:

“A staged, multiyear, intermodal program of transportation projects which is consistent with the metropolitan transportation plan.”

The Pioneer Valley TIP is a five-year schedule of priority highway, bridge, transit, and multimodal projects identified by year and location complete with funding source and cost. The TIP is developed annually and is available for amendment and adjustment at any time. Each program year of the TIP coincides with the Federal Fiscal Year calendar, October 1 through September 30. All TIPs and amendments are consistent with the goals and objectives of the Regional Transportation Plan for the Pioneer Valley region. This TIP is financially constrained.

FEDERAL AUTHORIZATION

The FAST Act, Fixing America’s Surface Transportation (Pub. L. No. 114-94) was signed into law on December 4, 2015. Funding surface transportation programs at over \$305 billion for fiscal years (FY) 2016 through 2020, FAST act replaced MAP-21 which was enacted in 2012. Under the FAST Act all Metropolitan Planning Organizations are required to incorporate ten planning factors. A FAST Act Continuing Resolution was signed by the President on October 1, 2020 extending Fast Act funding through December 2021. The ten planning factors are as follows:

1. Support the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency.
2. Increase the safety of the transportation system for motorized and non-motorized users.
3. Increase the security of the transportation system for motorized and non-motorized users.
4. Increase the accessibility and mobility of people and for freight.
5. Protect and enhance the environment, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns.
6. Enhance the integration and connectivity of the transportation system, across and between modes, people and freight.
7. Promote efficient system management and operation.
8. Emphasize the preservation of the existing transportation system.
9. Improve the resiliency and reliability of the transportation system and reduce or mitigate storm water impacts of surface transportation.
10. Enhancing travel and tourism.

The Moving Ahead for Progress in the 21st Century Act (MAP-21), enacted in 2012, included provisions to make the Federal surface transportation more streamlined, performance-based, and multimodal, and to address challenges facing the U.S. transportation system, including improving safety, maintaining infrastructure condition, reducing traffic congestion, improving efficiency of the

system and freight movement, protecting the environment, and reducing delays in project delivery. The FAST Act builds on the changes made by MAP-21.¹

The FAST Act specifically addresses all modes of transportation and enhances many of the existing provisions and programs defined in past transportation legislation.

National goal areas continue to be a priority under the FAST Act and address the following areas:

Safety—To achieve a significant reduction in traffic fatalities and serious injuries on all public roads.

Infrastructure condition—To maintain the highway infrastructure asset system in a state of good repair.

Congestion reduction—To achieve a significant reduction in congestion on the NHS.

System reliability—To improve the efficiency of the surface transportation system.

Freight movement and economic vitality—To improve the national freight network, strengthen the ability of rural communities to access national and international trade markets, and support regional economic development.

Environmental sustainability—To enhance the performance of the transportation system while protecting and enhancing the natural environment.

Reduced project delivery delays—To reduce project costs, promote jobs and the economy, and expedite the movement of people and goods by accelerating project completion through eliminating delays in the project development and delivery process, including reducing regulatory burdens and improving agencies' work practices

PERFORMANCE BASED PLANNING AND PROGRAMMING

The FAST Act requires MPOs, in collaboration with the state DOT and transit agencies, to formally establish targets for performance measures aligned with the national goals. Performance Based Planning and Programming (PBPP) refer to the application of performance management within the parameters of the FAST Act to achieve desired outcomes for the multimodal transportation system. It is intended advance transportation investments based on their ability to meet established goals. This includes setting targets for the performance measures identified in the FAST Act.

Performance measures are intended to monitor and track performance over time and assess the effectiveness of projects and strategies in meeting the national goal areas. In the Pioneer Valley region, performance based planning methods have been used in the development of the Transportation Evaluation Criteria to program projects as part of the Regional Transportation Improvement Program for many years.

USDOT implemented the federal PBPP requirements through a series of phased rulemakings. At the conclusion of this rulemaking process, the Commonwealth of Massachusetts has twelve months to establish statewide performance targets for each required federal performance measure. The Pioneer Valley MPO has 180 days from the

¹<https://www.fhwa.dot.gov/fastact/summary.cfm>

date of Commonwealth’s adoption of the statewide performance targets to either adopt the statewide targets or establish their own regional performance targets.

The Federal Transit Administration has finalized a rule to define requirements for transit asset management. This rule requires public transportation providers to develop and implement transit asset management (TAM) plans. TAM plans must include an asset inventory, condition assessments of inventoried assets, and a prioritized list of investments to improve the state of good repair of capital assets. This rule also establishes state of good repair standards and four state of good repair performance measures.

Public Transportation Agency Safety Plans (PTASP) were authorized by the MAP–21 legislation. Under this rule, operators of public transportation systems that receive Federal financial assistance under 49 U.S.C. Chapter 53 such as the PVTA, must develop and implement a PTASP to help ensure that public transportation systems are safe nationwide. The PTASP must include four main elements: (1) Safety Management Policy, (2) Safety Risk Management, (3) Safety Assurance, and (4) Safety Promotion. PVTA adopted their PTASP at their Advisory Board Meeting on November 18, 2020.

Table 1 Regional Performance Target Status

Final Rule	Effective Date	Status	Updated
Safety Performance Measures (PM1)	April 14, 2016	MPO adopted state targets on February 23, 2020	Annually
Pavement/Bridge Performance Measures (PM2)	May 20, 2017	MPO adopted state targets on October 23, 2018	Every Two Years
System Performance Measures (PM3)	May 20, 2017	MPO adopted state targets on October 1, 2020	Every Two Years
Transit Asset Management Plan (TAM)	July 26, 2016	MPO adopted PVTA TAM Plan Targets on March 26, 2019	Every Four Years
Public Transportation Agency Safety Plan (PTASP)	On or before December 31, 2020	MPO adopted PVTA – PTASP on 11/24/2020	Annually

As can be seen from the above table, the Pioneer Valley MPO has elected to adopt the State performance targets for PM1, PM2 and PM3. The MPO will continue to work in close collaboration with the PVTA to incorporate their TAM and PTASP performance targets into the regional transportation planning process. The UPWP includes specific tasks to support the performance based planning and programming for the Pioneer

Valley MPO. The latest performance targets for each adopted performance measure are presented in the following table.

Table 2 Performance Targets for the Pioneer Valley MPO

Rule	Performance Measure	Target
PM1	Total Number of Fatalities	Reduce Total Number of Fatalities to 339 or less statewide
PM1	Rate of Fatalities per 100 Million Vehicle Miles Traveled (VMT)	Reduce the Rate of Fatalities to 0.55/100 million VMT or less statewide
PM1	Total Number of Incapacitating Injuries	Reduce Total Number of Incapacitating Injuries to 2580 or less statewide
PM1	Rate of Serious Incapacitating per 100 Million VMT	Reduce the Rate of Incapacitating Injuries to 4.23/100 million VMT or less statewide
PM1	Total Number of Combined Incapacitating Injuries and Fatalities for Non-motorized Modes	Do Not Exceed the Current Average of 506 for Combined Incapacitating Injuries and Fatalities for Non-motorized Modes
PM2	Percentage of pavement of the Interstate System in Good condition	Maintain a condition of 70% or better for 2020 and 2022
PM2	Percentage of pavement of the Interstate System in Poor condition	Maintain a condition of 4% or better for 2020 and 2022
PM2	Percentage of pavement of the non-Interstate NHS in Good condition	Maintain a condition of 30% or better for 2020 and 2022
PM2	Percentage of pavement of the non-Interstate NHS in Poor condition	Maintain a condition of 30% or better for 2020 and 2022
PM2	Percentage of NHS bridges classified in Good condition	Maintain a condition of 15% or better for 2020 and 16% or better for 2022
PM2	Percentage of NHS bridges classifies in Poor condition	Maintain a condition of 13% or better for 2020 and 12% or better for 2022
PM3	Level of Travel Time Reliability (LOTTR) on the Interstate System	Maintain a LOTTR at or above 68% statewide for the Interstate System
PM3	Level of Travel Time Reliability (LOTTR) on non-Interstate NHS	Maintain a LOTTR at or above 80% statewide for the non-Interstate NHS
PM3	Level of Truck Travel Time Reliability (TTTR)	Maintain a TTTR of 1.85 or better statewide for the Interstate System.
PM3	Total reduction of on-road mobile source emissions from projects funded under the Congestion Mitigation and Air	0.599(VOC), 1.71(NOx) and 6.53(CO) Kg/day

	Quality Program (CMAQ) for the Springfield Maintenance Area	
TAM	Percent of revenue vehicles by asset class that have met or exceeded their Useful Life Benchmark (ULB)	Articulated Bus = 0%, Bus = 20%, Minibus = 100%, Cutaway Bus = 25%, Minivan = 30%, Trolleybus = 100%
TAM	Percent of vehicles that have met or exceeded their Useful Life Benchmark (ULB)	Automobiles = 25% Trucks and other Rubber Tire Vehicles = 25%
TAM	Percent of facilities with a condition rating below 3.0 on the FTA Transit Economic Requirements Model (TERM) Scale	Administrative and Maintenance = 25% Passenger and Parking = 0%
PTASP	Total Number of Fatalities	Reduce Total Number of Fatalities to 0
PTASP	Rate of Fatalities per 100 Million Vehicle Miles Traveled (VMT)	Reduce the Rate of Fatalities to 0.58/100 million VMT or less statewide
PTASP	Total Number of Incapacitating Injuries	Reduce Total Number of Incapacitating Injuries to 0
PTASP	Rate of Serious Incapacitating per 100 Million VMT	Reduce the Rate of Incapacitating Injuries to 0.437. /100 million VMT or less statewide

As can be seen in table 3 PVMPO has invested \$100 million over the past 5 years on projects which will help meet the Performance Measure rules. PVPC staffed used project information to identify the percentage of each project that contributes to each of the performance measures (PM1, PM2 and PM3) Of these investments 33% (\$32,816,132) will help achieve PM1, 32% (\$32,163,780) will help achieve PM2, and 35% (\$35,030,437) will help achieve PM3. As more data became available it is anticipated that corresponding PM trends should be seen showing that our regional is meeting or exceeding our PM Rules.

Table 3 Performance Measure Linked Investments 2018-2022

TIP Year	SID	Municipality	Project Description	Funding Source	Total Programmed	PM 1	PM 2	PM 3
2018	604203	Agawam	AGAWAM- INTERSECTION IMPROVEMENTS AT ROUTE 187 & ROUTE 57	STP	\$3,288,000	40%	20%	40%
Project Investment by Performance Measure						\$ 1,315,200	\$ 657,600	\$ 1,315,200
2019	600513	Agawam	AGAWAM- RECONSTRUCTION OF ROUTE 187 FROM 425 FT. SOUTH OF S. WESTFIELD STREET TO ROUTE 57 (0.3 MILES - PHASE I)	STP	\$2,622,622	5%	80%	15%
Project Investment by Performance Measure						\$ 131,131	\$ 2,098,098	\$ 393,393
2018	604597	Northampton	NORTHAMPTON- IMPROVEMENTS ON I-91 INTERCHANGE 19 AT ROUTE 9 AND DAMON ROAD	NFP	\$7,438,490	85%	5%	10%
Project Investment by Performance Measure						\$ 6,322,717	\$ 371,925	\$ 743,849
2018	PV0005	Multiple	PVTA P21 Express Service Between Union Station in Springfield and the Holyoke Transportation Center	CMAQ	\$500,000	0%	0%	100%
Project Investment by Performance Measure						\$ -	\$ -	\$ 500,000
2018	608786	Multiple	AMHERST- HADLEY- NORTHAMPTON- TRANSIT SIGNAL PRIORITY UPGRADES AT VARIOUS LOCATIONS	TAP	\$1,200,000	0%	0%	100%
Project Investment by Performance Measure						\$ -	\$ -	\$ 1,200,000
2019	PV0001	Multiple	P21 Express - Year 2 Operating	CMAQ	\$500,000	0%	0%	100%
Project Investment by Performance Measure						\$ -	\$ -	\$ 500,000
2019	607987	Ware	WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH STREET	TP/CMAQ/TA	\$2,475,087	45%	10%	45%
Project Investment by Performance Measure						\$ 1,113,789	\$ 247,509	\$ 1,113,789
2020	604434	Chicopee	CHICOPEE- RECONSTRUCTION & RELATED WORK ON FULLER ROAD, FROM MEMORIAL DR (RTE 33) TO SHAWINIGAN DR (2.0 MILES)	STBG/HSIP	\$9,735,424	25%	50%	25%
Project Investment by Performance Measure						\$ 2,433,856	\$ 4,867,712	\$ 2,433,856
2020	PV0001	Multiple	NORTHAMPTON, AMHERST, CHICOPPE, EASTHAMPTON, HADLEY, HOLYOKE, SOUTH HADLEY, SPRINGFIELD, and WEST SPRINGFIELD: ValleyBike share (phase II)	STBG	\$1,200,000	0%	0%	100%
Project Investment by Performance Measure						\$ -	\$ -	\$ 1,200,000
2020	PV0002	Multiple	P 21 Express Year 3	CMAQ	\$500,000	0%	0%	100%
Project Investment by Performance Measure						\$ -	\$ -	\$ 500,000
2020	607502	Northampton	NORTHAMPTON- INTERSECTION IMPROVEMENTS AT KING STREET, NORTH STREET & SUMMER STREET AND AT KING STREET & FINN STREET	BG/CMAQ/H	\$4,171,096	50%	25%	25%
Project Investment by Performance Measure						\$ 2,085,548	\$ 1,042,774	\$ 1,042,774

Table 4 Performance Measure Linked Investments 2018-2022 (continued)

TIP Year	SID	Municipality	Project Description	Funding Source	Total Programmed	PM 1	PM 2	PM 3
2020	608718	Springfield	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT BERKSHIRE AVENUE, COTTAGE AND HARVEY STREETS	HIP	\$3,086,454	35%	5%	60%
Project Investment by Performance Measure						\$ 1,080,259	\$ 154,323	\$ 1,851,872
2020	608236	Northampton	NORTHAMPTON- RECONSTRUCTION OF DAMON ROAD, FROM ROUTE 9 TO ROUTE 5, INCLUDES DRAINAGE SYSTEM REPAIRS & SLOPE STABILIZATION AT THE NORWOTTUCK	STBG/HIP	\$11,274,259	35%	32%	33%
Project Investment by Performance Measure						\$ 3,945,991	\$ 3,607,763	\$ 3,720,505
2021	608084	Amherst	AMHERST- IMPROVEMENTS & RELATED WORK ON ROUTES 9 & 116, FROM UNIVERSITY DRIVE TO SOUTH PLEASANT STREET (0.8 MILES)	STBG / TAP	\$ 5,769,804	30%	50%	20%
Project Investment by Performance Measure						\$ 1,730,941	\$ 2,884,902	\$ 1,153,961
2021	605032	Hadley	HADLEY- RECONSTRUCTION ON ROUTE 9, FROM MIDDLE STREET TO MAPLE/SOUTH MAPLE STREET	STBG	\$8,793,026	20%	30%	50%
Project Investment by Performance Measure						\$ 1,758,605	\$ 2,637,908	\$ 4,396,513
2021	607773	Westfield	WESTFIELD- IMPROVEMENTS & RELATED WORK ON ROUTE 20, COURT STEET & WESTERN AVENUE, LLOYDS HILL ROAD TO HIGH STREET/MILL STREET INTERSECTION (PHASE II)	STBG / CMAQ / HSIP / TAP	\$ 8,606,351	35%	60%	5%
Project Investment by Performance Measure						\$3,012,222.85	\$ 5,163,811	\$ 430,318
2021	608782	Springfield	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT COTTAGE STREET, INDUSTRY AVENUE AND ROBBINS ROAD	CMAQ	\$3,135,052	35%	5%	60%
Project Investment by Performance Measure						\$1,097,268.20	\$ 156,753	\$ 1,881,031
2022	608577	Easthampton	EASTHAMPTON- IMPROVEMENTS AND RELATED WORK ON UNION STREET (ROUTE 141) FROM PAYSON AVENUE TO HIGH STREET (0.36 MILES)	STBG	\$3,624,561	40%	20%	40%
Project Investment by Performance Measure						\$1,449,824.40	\$ 724,912	\$ 1,449,824
2022	605032	Hadley	HADLEY- RECONSTRUCTION ON ROUTE 9, FROM MIDDLE STREET TO MAPLE/SOUTH MAPLE STREET	STBG	\$17,486,346	20%	30%	50%
Project Investment by Performance Measure						\$3,497,269.20	\$ 5,245,904	\$ 8,743,173
2022	606450	Holyoke	HOLYOKE- TRAFFIC SIGNAL UPGRADES AT 15 INTERSECTIONS ALONG HIGH & MAPLE STREETS	STBG/HSIP	\$ 4,603,777	40%	50%	10%
Project Investment by Performance Measure						\$ 1,841,511	\$ 2,301,889	\$ 460,378
Total Investment by Performance Measure (23 Projects)					\$100,010,349	\$ 32,816,132	\$32,163,780	\$35,030,437

Table 4 shows PVTA capital investment in which will help our region meet the TAM rule. Over the past 5 years PVTA has \$54.6 million on buses, vans, mini buses, and facility maintenance. PVTA spends roughly 30% of their yearly capital budget on fleet replace in order to meet the TAM rule. PTAS targets where approved by the MPO in November of 2020, projects will be evaluated in the next TIP cycle for their PTASP effectiveness.

Table 5 TAM Investments 2018-2022

TIP Year	RTA	Capital Project	Total Programmed	PM Rule
2022	PVTA	PVTA - Purchase 40' Replacement Buses (6)	\$3,157,608	TAM
2022	PVTA	PVTA - Replace 35' Buses (6)	\$3,089,428	TAM
2022	PVTA	PVTA - BUY REPLACEMENT 40-FT BUS - Electric (4) (VW Mitigation)	\$3,826,159	TAM
2022	PVTA	PVTA - BUY REPLACEMENT 35-FT BUS - Electric (4) (VW mitigation)	\$3,672,134	TAM
2022	PVTA	PVTA - REHAB-REBUILD 40-FT BUS (6)	\$1,603,599	TAM
2022	PVTA	PVTA - REHAB-REBUILD 35-FT BUS (4)	\$863,066	TAM
2022	PVTA	PVTA - Purchase Replacement Vans (18)- CGP-MAP Funds	\$1,112,400	TAM
2022	PVTA	PVTA - Replace Supervisory Vehicles (2)	\$54,000	TAM
2022	PVTA	PVTA - PREVENTIVE MAINTENANCE - PVTA Facilities State of Good Repair	\$20,000	TAM
2022	PVTA	PVTA - REHAB-RENOVATE - YARDS AND SHOPS - Install new exterior lighting at Northampton Bus Maintenance Facility	\$120,000	TAM
2022	PVTA	PVTA - REHAB-RENOVATE - STORAGE FACILITY - Umass Bus O&M Facility New lighting in Service and Storage	\$120,000	TAM
2022	PVTA	PVTA - REHAB-RENOVATE - MAINTENANCE FACILITY - Northampton Bus Maintenance Facility Generator Replace	\$325,000	TAM
2022	PVTA	PVTA - REHAB-RENOVATE - MAINTENANCE FACILITY Umass O&M Facility Generator replacement cement	\$375,000	TAM
2021	PVTA	Buy Replacement 35-FT Buses (5)	\$1,800,000	TAM
2021	PVTA	REHAB/REBUILD 35-FT BUS (6)	\$1,500,000	TAM
2021	PVTA	REHAB/REBUILD 40-FT BUS (9)	\$2,925,000	TAM
2021	PVTA	Buy Replacement 40-FT Buses	\$5,587,595	TAM
2021	PVTA	BUY REPLACEMENT 40-FT BUS - Electric (6) (VW Mitigation)	\$3,000,000	TAM
2021	PVTA	BUY REPLACEMENT 35-FT BUS - Electric (6) (VW mitigation)	\$2,700,000	TAM
2020	PVTA	Buy Replacement 40' Diesel Bus (16)	\$5,684,136	TAM
2020	PVTA	Buy Replacement 35" Bus (17)	\$4,074,004	TAM
2019	PVTA	Buy Replacement 40' Diesel Bus (4)	\$2,226,480	TAM

2019	PVTA	Buy Replacement 35" Bus (4)	\$2,203,970	TAM
2019	PVTA	Purchase Replacement Vans (27)	\$1,836,620	TAM
2018	PVTA	Replacement Vans (4)	\$283,795	TAM
2018	PVTA	Replace Mini Buses for Shuttles (3)	\$270,000	TAM
2018	PVTA	Replacement 40' Buses (4)	\$2,161,631	TAM
			\$54,591,625	

CONFORMITY WITH THE REGIONAL TRANSPORTATION PLAN

All projects in the TIP come from the 2020 Regional Transportation Plan (RTP). All regionally significant projects included in the TIP were previously included in the air quality analysis completed for the conforming RTP. Because projects in the TIP come from the conforming RTP and all regionally significant RTP projects for 2022 through 2026 (both Federal and Non-Federal Aid) are programmed in the TIP, the same air quality analysis utilized for the RTP can be used for the TIP. Since most all of Massachusetts (with limited exceptions) was designated on 5/21/12 by the United States Environmental Protection Agency as “unclassifiable/attainment” for the latest ozone standard, a conformity determination for the Pioneer Valley 2022 - 2026 TIP is only required for carbon monoxide. Further details and background information are provided in Chapter VII (page 81) of this document and in Chapter 16 of the RTP ([Click here to view](#)).

METROPOLITAN PLANNING ORGANIZATION

The Pioneer Valley Metropolitan Planning Organization (MPO) is responsible for developing the TIP. The MPO is comprised of ten members including four independently operating agencies and six locally elected officials:

Nomination and Election Process for the Six Locally Elected MPO Members

The six locally elected MPO member’s shall be elected to the MPO by the Pioneer Valley Planning (PVPC) Commission at a full Commission meeting. The electoral process shall be conducted using a regional caucus approach for each of the five local officials. PVPC will host meetings in each MPO tier to identify and recommend local officials interested in participating on the MPO. The term of office for each community representative to the Pioneer Valley MPO shall be for two years. At the first election, two Selectmen shall be elected for a one-year term, and two for a full two-year term. In the event that a current MPO member from one of the local tiers chooses not to run for reelection or is not reelected to office, the alternate member shall automatically assume the duties of the member. The PVPC will seek to fill any vacant alternate MPO member slot(s) through a search process carried out in consultation with the Joint Transportation Committee (JTC) and ultimately confirmed by an affirmative vote of the Commission. Once the Commission has successfully completed the election process, the proposed new municipal MPO member or members will be brought before the MPO for acceptance by an affirmative vote of a majority of its members.

Name	Title
Jamey Tesler	Acting Secretary and CEO of the Massachusetts Department of Transportation
Jonathan L. Gulliver	Administrator of the Massachusetts Department of Transportation Highway Division
Walter Gunn	Chairman of the Pioneer Valley Executive Committee

Mayor David Narkewicz
 Mayor John Vieaus
 Mayor Domenic Sarno
 Mayor William C. Reichelt
 Mayor Nicole LaChapelle
 Vacant
 Roger Fuller
 Rick Sullivan

Chairman of the Pioneer Valley Transit Authority Advisory Board
 City of Chicopee (Sub-Region 1)
 City of Springfield (Sub-Region 1)
 City of West Springfield (Sub-Region 2)
 City of Easthampton (Sub-Region 3)
 Sub-Region 4
 Chesterfield Board of Selectmen (Sub-Region 5)
 Economic Development Council of Western Massachusetts

Alternates

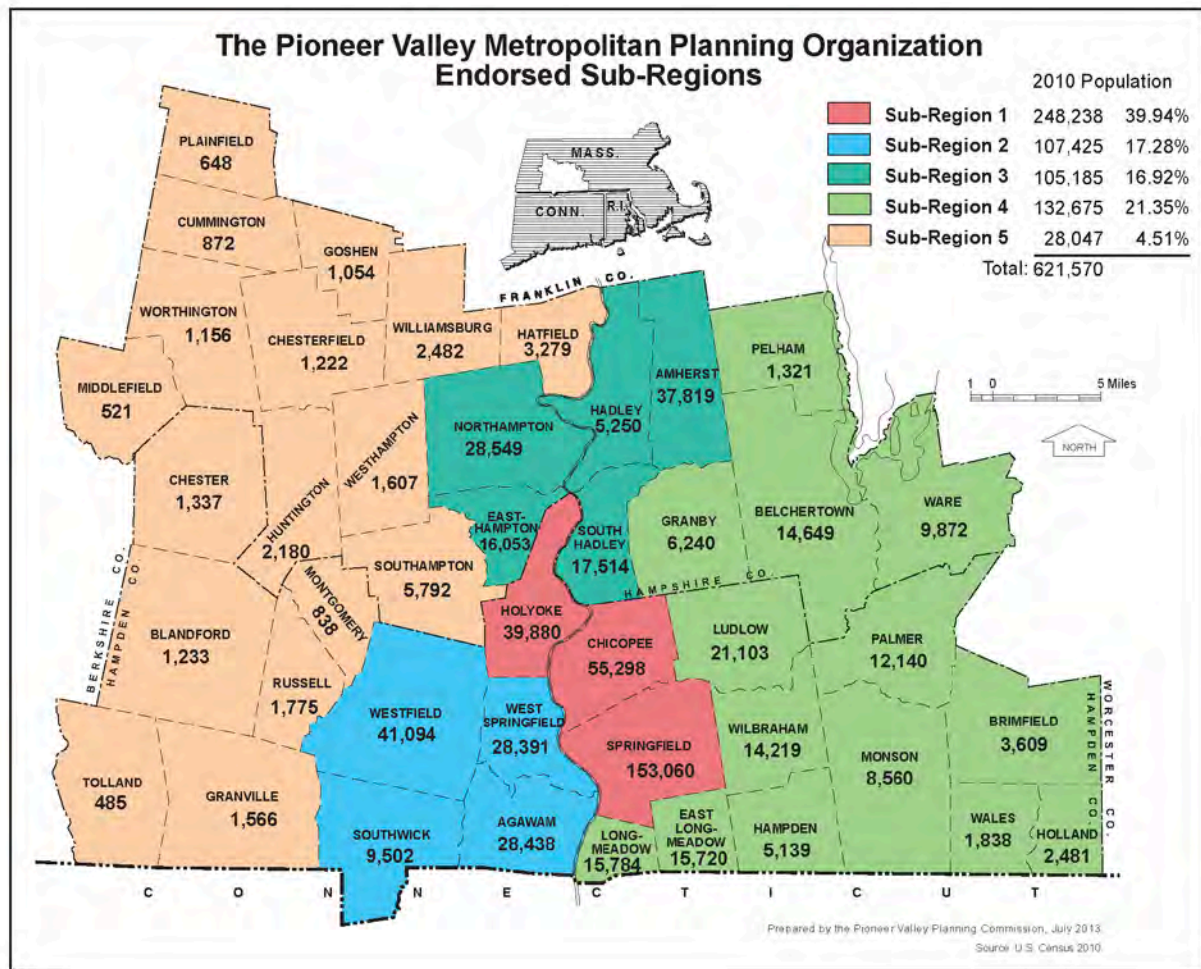
Acting Mayor Terry Murphy
 John Martin

City of Holyoke (Sub-Region 1)
 Southampton Select Board (Sub-Region 5)

Ex-Officio (Non-Voting)

Jeff McEwen
 Peter Butler
 Sandra Sheehan
 Tina Cote
 Michael McManus

Federal Highway Administration
 Federal Transit Administration
 Pioneer Valley Transit Authority Administrator
 Franklin Regional Transit Authority Administrator
 Chairman – Pioneer Valley Joint Transportation Committee



DEVELOPMENT OF THE TIP

As the lead planning agency for the MPO, the PVPC accepts the responsibility for developing the TIP in a cooperative process with members of the MPO and the general public. The final TIP is voted on for endorsement at a formal meeting of the MPO. The endorsed TIP project listing is included in the State Transportation Improvement Program (STIP) verbatim and requires endorsement by the Governor.

The MPO relies on a transportation advisory committee, the Joint Transportation Committee (JTC) to carry out the cooperative process during TIP development. The JTC is a group of community appointed officials, MPO member representatives, public and private transportation providers, citizens, and special interest groups and agencies. The JTC establishes and recommends to the MPO procedures for submitting, prioritizing and selecting projects for the TIP. PVPC staff provides the technical support to conduct the TIP development activities for the JTC.

Below is a general outline of steps taken during the TIP development process.

- Project proponents (communities, MPO members, agencies) submit projects through the process outlined in Chapter 2 of the Massachusetts Project Development & Design Guidebook (2006)
- Projects are prioritized based on evaluation criteria by MPO staff, JTC representatives, and MassDOT Highway Division staff, and MassDOT staff at a posted meeting open to all.
- The State (thru MassDOT) provides funding targets for all 13 Regional Planning Agencies in Massachusetts.
- JTC reviews and recommends projects by Transportation Evaluation Criteria (TEC) and readiness to the MPO.
- Draft TIP project listings are prepared by the MPO staff and distributed for review and comment to MPO members.
- MPO meets to make final decisions on the composition of the TIP and to recommend the Draft TIP for general public release as required by the MPO Public Participation Plan for the Pioneer Valley Region.
- Final Draft TIP is distributed for review, consultation and comment in accordance with the adopted MPO Public Participation Plan.
- Public meetings and news releases are conducted to promote public involvement and consultation.
- Comments are compiled and addressed where appropriate.
- Final TIP developed for the JTC's consideration and their recommendation to MPO.
- MPO meets to vote on final adjustments and endorsement of the TIP.
- Endorsed Regional TIPs are compiled by MassDOT to create the STIP.
- Secretary and CEO of MassDOT endorses the STIP (on behalf of the Governor) and submits the STIP to federal agencies for review and approval.
- Federally approved STIP is ready for state implementation (project advertisement).

Amendments and adjustments to the TIP are made on an as needed basis with the additional public review and input for formal amendments only.

CONGESTION MANAGEMENT PROCESS (CMP)

Congestion Management Process means a systematic approach required in transportation management areas (TMAs) that provides for effective management and operation, based on a cooperatively developed and implemented metropolitan-wide strategy, of new and existing transportation facilities eligible for funding under title 23 U.S.C., and title 49 U.S.C., through the use of travel demand reduction and operational management strategies.

In the Pioneer Valley Region, the CMP is a vital tool used in identifying project needs as well as the merits of projects in the development process. The CMP is also used to identify the effectiveness of project implementation as well as a tool to monitor our performance measures.

701 CMR 7.00 USE OF ROAD FLAGGERS AND POLICE DETAILS ON PUBLIC WORKS PROJECTS

The goal of 701 CMR 7.00 is to ensure the safety all modes of transportation as well as workers in the vicinity of public works projects. Additionally 701 CMR 7.00 provides flexibility on certain types of projects to reduce the overall project cost through different types of traffic control strategies including Road Flagger and/or Police details.

701 CMR 7.00 (the Regulation) was promulgated and became law on October 3, 2008. Under this Regulation, the CMR is applicable to any public works project that is performed within the limits of, or that impact traffic on, any public road. The Municipal Limitation referenced in this Regulation is applicable only to projects where the Municipality is the Awarding Authority.

For all projects contained in the TIP, the Commonwealth is the Awarding Authority. Therefore, all projects must be considered and implemented in accordance with 701 CMR 7.00, and the Road Flagger and Police Detail Guidelines.

By placing a project on the TIP, the Municipality acknowledges that 701 CMR 7.00 is applicable to its project and design and construction will be fully compliant with this Regulation.

This information and additional information relative to guidance and implementation of the Regulation can be found at the following link on the MassDOT Highway Division website:

<http://www.MassDOT.state.ma.us/Highway/flaggers/main.aspx>

The Performance-Based Planning and Programming Rulemaking passed by the Federal Highway Administration (FHWA) and Federal Transit Administration (FTA) required the development of a memorandum of understanding (MOU) between MassDOT and all Metropolitan Planning Organizations (MPOs) and Regional Transit Authorities (RTAs) within Massachusetts. This MOU, which was endorsed by all parties in April of 2019, established specific written procedures for information sharing related to transportation performance data, the selection of both highway and transit performance targets, and the tracking of progress toward achieving these targets.

23 CFR 450.314(H) COOPERATIVELY SHARE PERFORMANCE DATA

The MPO(s), State(s), and the providers of public transportation shall jointly agree upon and develop specific written provisions for cooperatively developing and sharing information related to transportation performance data, the selection of performance targets, the reporting of performance targets, the reporting of performance to be used in tracking progress toward

attainment of critical outcomes for the region of the MPO (see § 450.306(d)), and the collection of data for the State asset management plan for the NHS for each of the following circumstances:

- (i) When one MPO serves an urbanized area,
 - (ii) When more than one MPO serves an urbanized area, and
 - (iii) When an urbanized area that has been designated as a TMA overlaps into an adjacent MPA serving an urbanized area that is not a TMA.
- (2) These provisions shall be documented either:
- (i) As part of the metropolitan planning agreements required under (a), (e), and (g) of this section, or
 - (ii) Documented in some other means outside of the metropolitan planning agreements as determined cooperatively by the MPO(s), State(s), and providers of public transportation.

PROJECT PRIORITY CRITERIA AND SELECTION

In 2014 PVPC with the assistance of the JTC completed a comprehensive update to the TEC for the PVMPO. The purpose of the update was to bring the TEC up to the current standards set forth by MAP -21. In 2018 and 2020 PVPC staff with the assistance of the JTC reviewed the effectiveness of the TEC to ensure the criteria was working as anticipated and met the requirements of the FAST act. All projects included in the TIP have been evaluated and assigned a priority value or rating. This process is used as a management tool to identify projects of regional priority and program them accordingly in the TIP.

TEC SCORING SUMMARY

System Preservation, Modernization and Efficiency	Livability	Mobility	Smart Growth and Economic Development	Safety and Security	Environment and Climate Change	Quality of Life	Environmental Justice and Title VI
Improves Substandard Pavement	Design is consistent with Complete Streets policies	Improves efficiency, reliability and attractiveness of public transit	Encourages development around existing infrastructure	Reduces number and severity of collisions	Preserves floodplains and wetlands	Enhances or preserves greenways and blueways	Reduces and limits disproportionate impacts on an EJ community
8	3	4	2	7	1	1	0.5
Improves Intersection Operations	Provides multi-modal access to a downtown, village center, or employment center	Improves existing peak hour LOS	Prioritizes transportation investments that support land use and economic development goals	Promotes safe and accessible pedestrian and bike environment	Promotes green infrastructure and low impact development to reduce stormwater impacts	Improves access to parks, open lands and open space	Reduces and limits disproportionate impacts on Title VI community
6	2	6	1	5	2	1	0.5
In a Congestion Management Process Area	Reduces auto-dependency	Reduces traffic congestion	Provides services to a TOD, TND or cluster development district	Improves emergency response	Reduced impervious surfaces	Improves access to jobs	Improves transit for EJ populations
5	2	7	0.5	4	0.5	2	1
	Project serves a targeted development site		Supports mixed-use downtowns and village centers		Protects or enhances environmental assets	Preserves historical and cultural resources	Improves transit for Title VI populations
	2		0.5		0.5	0.5	1
	Completes off-road bike and ped network		Improves Intermodal Connections		Supports Brownfield redevelopment	Preserves prime agricultural land	Creates an EJ Burden
	3		4		0.5	0.5	-5
			Reduces congestion on freight routes		Improves air quality	Provides safe and reliable access to education	Creates an Title VI Burden
			2		1	0.5	-5
					Reduces CO2 emissions	Supports designated scenic byways	
					1	0.5	
					Promotes mode shift	Implements ITS Strategies	
					1	2	
					Improves fish and wildlife passage	Improves Network Wayfinding	
					1	1	
					Supports Green Communities	Health Impact Assessment	
					0.5	1	
					Improves storm resilience	Length of Time Project has been in queue for TIP funding	
					3	1	
Maximum Score							
19	12	17	10	16	12	11	3

PROJECT INITIATION

In the fall of 2017 MassDOT rolled out their new project development tool, the MassDOT Project Intake Tool (MaPIT). MaPIT has integrated the entire project initiation process into an online portal which both streamlines and modernizes the project development process. The steps listed below are the same for the project development process; however these steps are now completed online instead of on paper.

The Project Needs Form (PNF) is the first document completed at the start of the project development process. The PNF provides sufficient material to understand the transportation need(s), and results in one of the following three outcomes:

- Verification of the problem, need, or opportunity to enable it to move forward into design;
- Determination of the level of further project planning warranted; or,
- Dismissal of a project from further consideration.

The next step in the project development process involves summarizing the findings and direction defined in the Project Scope (PS) used by the Project Review Committee (PRC) and the MPO for project review and evaluation. The PS will include the following information to be documented by the proponent:

- Project Type and Description, including locus map
- Summary of Project Planning Process
- Preliminary identification of the Project Category for review and programming purposes
- Definition of the proposed project management responsibility
- Definition of an interagency (including local boards) coordination plan
- Definition of a public outreach plan for the design process
- Project Need Form or Project Planning Report as an attachment
- Transportation Evaluation Criteria as an attachment

The project intake tool (MaPIT) can be found at <http://massdot.maps.arcgis.com/home/index.html>

PROJECT SELECTION AND PROGRAMMING

The project priority ratings were applied in conjunction with a project's anticipated advertisement schedule. The funding targets provided by the MassDOT to develop the five-year program of the TIP were applied for each year in order to develop this fiscally constrained document. A project was not considered for scheduling in a year earlier than its anticipated schedule regardless of the priority rating. For projects that are expected to be ready to go in the first year of the TIP the top priority projects for that year were funded under the federal aid categories, since these funds are most secure. Once the federal aid funds were completely programmed, non-federal aid funds were programmed to priority projects. This initial assignment procedure was applied to each year of the TIP and is subject to change as the TIP is developed and refined by members of the MPO and the JTC.

AMENDMENT/ADJUSTMENT OF THE TIP

Amendment means a revision to a long-range statewide or metropolitan transportation plan, TIP, or STIP that involves a major change to a project included in a metropolitan transportation plan, TIP, or STIP, including the addition or deletion of a project or a major change in project cost (\$500,000 for projects under \$5,000,000 and 10% for projects exceeding \$5,000,000), project/project phase initiation dates, or a major change in design concept or design scope (e.g., changing project termini or the number of through traffic lanes or changing the number of stations in the case of fixed guideway transit projects). Changes to projects that are included only for illustrative purposes do not require an amendment. An amendment is a revision that requires public review and comment and a re-demonstration of fiscal constraint. If an amendment involves “non-exempt” projects in nonattainment and maintenance areas, a conformity determination is required.

Amendments require formal MPO action, and must follow the requirements outlined in the Pioneer Valley Public Participation Plan (PPP). Additional information regarding the PPP can be found at <http://www.pvpc.org/content/pioneer-valley-public-participation-plan>

Program adjustments can be conducted without formal MPO action in order to minimize constraints on programming projects. Minor adjustments could include such actions as moving projects between Year 1 and Year 2, and minor fluctuations in project description, costs and funding source. This action can be accomplished through an agreed upon administrative action.

Summary of TIP Revisions

Type of Revision	Definition	Procedure	Notes
Major Project Cost Change	Increase or decrease of \$500,000 or greater for projects programmed under \$5,000,000 and greater than 10% of the total cost for projects programmed over \$5,000,000.	Amendment	The “increase” or “decrease” in cost is relative to the Total Federal Participating Cost (TFPC) of a project.
Minor Project Cost Change	Increase or decrease of \$499,999 or less for projects programmed under \$5,000,000 and less than 10% of the total cost for projects programmed over \$5,000,000.	Adjustment	The “increase” or “decrease” in cost is relative to the Total Federal Participating Cost (TFPC) of a project.
Project Description Change	Change in the description of the project as it is listed in the STIP.	Adjustment	Project description changes are treated as Adjustments for minor changes (e.g. spelling errors, more detailed descriptions, adding mile-markers, etc.).
Major Project Scope Change	A revision to the project scope large enough to necessitate an additional review by MassDOT’s Project Review Committee (PRC) – typically accompanied by major project cost change.	Amendment	Major scope change will require the initiation of a new project through MaPIT, and review/approval by PRC.

Minor Project Scope Change	A minor revision to the project scope that does not significantly alter the original PRC- approved scope of work.	Adjustment	In many cases, changes in this category will also include a minor cost change.
Project Addition	The programming of a new project in any federal fiscal year of the active TIP.	Amendment	Project additions are treated as amendments if the project has been vetted through the public process.
Project Removal	The removal of a project in any federal fiscal year of the active TIP.	Amendment	Exception: if a project is removed from an active TIP due to it being previously advanced/advertised, or is moved to the statewide list from a regional TIP, the action would be considered an adjustment.
Change in Funding Source	A change in the project’s funding source, including federal and non-federal sources which fall within the project cost change revisions listed above.	Adjustment	Changes in funding sources for projects are permissible for advertisement purposes if the FHWA Division Office has been consulted.
Change in Additional Information	A change in any item listed in the “Additional Information” column of the STIP not covered in any other item listed here (e.g. earmark details, project proponent, etc.)	Adjustment	Additional Information including: Total cost, AC, Year-of-expenditure, TEC scores - can be updated without formal approval of the MPO.
Change in Year of Programming	Moving a currently programmed project earlier or later than an originally programmed year.	Adjustment	Changes to a project delivery schedule (advancement or delay) can be handled as an adjustment when time limitations prevent the revision from being released for public review. Staff will make every effort to handle this type of revision as an amendment when possible.

The MassDOT process used to make amendment/adjustment to the STIP can be found [here](#).

DESCRIPTION OF FUNDING SOURCES

Interstate Maintenance (IM) - Resurfacing, restoration and rehabilitation are eligible activities for maintaining Interstate facilities. Reconstruction is also eligible if it does not add capacity. However, high-occupancy-vehicle (HOV) and auxiliary lanes can be added. Funding: federal - 90 %, state - 10 %.

Surface Transportation Block Grant Program (STBG) - This program formerly the Surface Transportation Program (STP) is a flexible funding program that can be used for projects that preserve and improve the conditions and performance on any Federal-aid highway, bridge and tunnel projects on any public road, pedestrian and bicycle infrastructure, and transit capital projects, including intercity bus terminals. Funding: federal - 80%, state - 20%.

Transportation Alternatives Program (TAP) - The TAP provides funding for programs and projects defined as transportation alternatives, including on- and off-road pedestrian and bicycle facilities, infrastructure projects for improving non-driver access to public transportation and enhanced mobility, community improvement activities, and environmental mitigation; recreational trail program projects; safe routes to school projects; and projects for planning, designing, or constructing boulevards and other roadways largely in the right-of-way of former Interstate System routes or other divided highways. Funding: federal - 80%, state - 20%

Congestion Mitigation and Air Quality Improvement Program (CMAQ) - These funds are directed towards transportation projects and programs which reduce transportation-related emissions. These funds are to assist areas designated as nonattainment and maintenance under the Clean Air Act Amendments of 1990. These projects will contribute to meeting the attainment of National Ambient Air Quality Standards (NAAQS). Funding: federal - 80%, state - 20%.

Highway Safety Improvement Program (HSIP)—The HSIP requires a data-driven, strategic approach to improving highway safety on all public roads that focuses on performance. The goal of HSIP is to achieve a significant reduction in traffic fatalities and serious injuries on all public roads, including non-State-owned public roads and roads on tribal lands. Funding: federal - 80%, state - 20%. HSIP federal – 90%, state – 10%.

Bridges (BR) - Funds the replacement or repair of structurally deficient or unsafe bridges in urban and rural areas. All bridges, both on and off the federal aid roadway system are eligible for funding. Funding: federal - 80%, state - 20%.

National Highway Performance Program (NHPP) - The NHPP provides support for the condition and performance of the National Highway System (NHS), for the construction of new facilities on the NHS, and to ensure that investments of Federal-aid funds in highway construction are directed to support progress toward the achievement of performance targets established in a State's asset management plan for the NHS. NHPP projects must be on an eligible facility and support progress toward achievement of national performance goals for improving infrastructure condition, safety, mobility, or freight movement on the NHS, and be consistent with Metropolitan and Statewide planning requirements. Funding: federal - 80%, state - 20%.

National Highway Freight Program (NHFP) - The purpose, among other goals, of the National Highway Freight Program (NHFP) is to improve efficient movement of freight on the National Highway Freight Network (NHFN). Funding: federal - 80%, state - 20%.

High Priority Projects (HPP) High Priority Projects are congressionally earmarked projects that have been deemed as a high priority for the state where the project is located. Funding: federal - 80%, state – 20%

Section 115 Funds Included in the Transportation bill as congressional earmarks, each year the earmarks are given a designated funding category. In FFY2005 the funding designation for these projects was Section 115 Funds. Funding: federal – 100%, state – 0%

Section 117 Funds Included in the Transportation bill as congressional earmarks, each year the earmarks are given a designated funding category. In FFY2006 the funding designation for these projects was Section 117 Funds. Funding: federal – 100%, state – 0%

Section 129 Funds Congressional Earmarks for FFY 2008. Funding: federal – 100%, state – 0%

Section 125 Funds Congressional Earmarks for FFY 2009. Funding: federal – 100%, state – 0%

Non-Federal Aid (NFA) - This funding category contains all those projects not receiving federal funds. Various categories of state funding are included in this group including bikeways, State Aid (Chapter 90), and highway construction and maintenance (Chapter 497). This category is included in the TIP for informational purposes only. Funding: federal - 0 %, state - 100 %.

Section 5339 Bus and Bus Facilities– (5309 SAFETEA-LU) Program provides capital funding to replace, rehabilitate, and purchases buses and related equipment and to construct bus related facilities. Funding: Federal - 80%, State - 20%

Section 5307 Capital- This program provides grants to Urbanized Areas¹ (UZA) for public transportation capital, planning, job access and reverse commute projects, as well as operating expenses in certain circumstances. These funds constitute a core investment in the enhancement and revitalization of public transportation systems in the nation’s urbanized areas, which depend on public transportation to improve mobility and reduce congestion. Federal Share is 80% for Capital Assistance, 50% for Operating Assistance, and 80% for Americans with Disabilities Act (ADA) no-fixed-route paratransit service, using up to 10% of a recipient’s apportionment.

Section 5310 - Section 10 pertains to transportation facilities meeting special needs of the elderly and disabled. Funds allocated under Section 16(b) (2) provide private non-profit corporations and associations with grants and loans to improve the mobility of the elderly and disabled. In Massachusetts, 16(b) (2) funds are administered at the state level by the MASSDOT. These funds typically are used for the purchase of capital items, including lift-equipped vans. Mobility Assistance Program (MAP) funds are intended for use by public agencies, such as municipal councils on aging and the Pioneer Valley Transit Authority (PVTA) to provide van service to elderly and/or disabled persons.

Section 5311 - These funds are made available exclusively for public transportation projects outside the urbanized areas. Both capital and operating expenses are eligible.

TRANSPORTATION SYSTEM OPERATING AND MAINTENANCE COSTS

The FFY 2022- 2026 TIP is consistent with the Regional Transportation Plan (RTP) for the Pioneer Valley Region. Tables 5, 6 and 7 presents the estimates outlined in the RTP of annual expenditures associated with operating and maintaining the transportation system. These estimates represent past expenditures and do not reflect costs associated with maintaining a constant level of system performance.

Table 6 Transportation Operating and Maintenance Expenditures

Year	Target	Other Statewide	Non Interstate	NFA Bridge	Interstate	Total All Funding
	10.8099%	10.8099%	13.0542%	10.8099%	8.4544%	
2020-2024	\$134,136,806	\$121,332,223	\$47,144,718	\$54,049,500	\$13,381,407	\$370,044,654
2025-2029	\$153,789,263	\$136,359,264	\$56,120,172	\$55,238,590	\$16,897,096	\$418,404,385
2030-2034	\$188,833,297	\$167,431,514	\$68,908,303	\$56,453,840	\$20,747,444	\$502,374,398
2035-	\$209,293,530	\$185,572,848	\$76,374,571	\$57,695,820	\$22,995,446	\$551,932,215

2039						
2040	\$44,516,326	\$39,470,984	\$16,244,722	\$11,793,026	\$4,891,087	\$116,916,145
Totals	\$730,569,222	\$650,166,833	\$264,792,486	\$235,230,776	\$78,912,480	\$1,959,671,797

Source: Regional Transportation Plan, updated 2020

Table 7 Transit Operating Expenditures

Year	5307	5310	5339	RTACAP	Total
2020-2024	\$68,180,385	\$2,933,482	\$7,224,890	\$36,688,650	\$115,027,407
2025-2029	\$75,572,320	\$3,253,115	\$8,718,575	\$40,357,515	\$127,901,525
2030-2034	\$83,765,669	\$3,607,577	\$10,521,068	\$44,393,267	\$142,287,581
2035-2039	\$92,847,318	\$4,000,659	\$12,696,208	\$48,832,593	\$158,376,778
2040	\$19,744,098	\$850,992	\$2,838,307	\$10,743,170	\$34,176,567
Total	\$340,109,790	\$14,645,825	\$41,999,048	\$181,015,195	\$577,769,858

Table 8 Transit Maintenance Expenditures

	2020-2024	2025-2029	2030-2034	2035-2039	2040	Grand Total
Local Assessments	\$49,372,389	\$55,860,326	\$63,200,831	\$71,505,940	\$15,445,284	\$255,384,770
5307 Federal Urbanized Formula	\$58,635,131	\$64,992,195	\$72,038,475	\$79,848,693	\$16,979,925	\$292,494,419
5339 Federal	\$7,224,890	\$8,718,575	\$10,521,068	\$12,696,208	\$2,838,307	\$41,999,048
5310 Federal Elderly and Disabled	\$2,933,482	\$3,253,115	\$3,607,577	\$4,000,659	\$850,992	\$14,645,825
Fare box	\$45,399,763	\$50,125,006	\$55,342,057	\$61,102,103	\$13,198,054	\$225,166,983
Advertising, other revenue	\$3,255,020	\$3,593,805	\$3,967,851	\$4,380,829	\$946,259	\$16,143,764
Operating Funds for Programming in the RTP	\$166,820,675	\$186,543,022	\$208,677,859	\$233,534,432	\$50,258,821	\$845,834,809

Source: Regional Transportation Plan, updated 2020

II. PUBLIC PARTICIPATION SUMMARY AND CHANGES

In accordance with 23 CFR 450.316(a) The MPO shall develop and use a documented participation plan that defines a process for providing individuals, affected public agencies, representatives of public transportation employees, public ports, freight shippers, providers of freight transportation services, private providers of transportation (including intercity bus operators, employer-based commuting programs, such as carpool program, vanpool program, transit benefit program, parking cash-out program, shuttle program, or telework program), representatives of users of public transportation, representatives of users of pedestrian walkways and bicycle transportation facilities, representatives of the disabled, and other interested parties with reasonable opportunities to be involved in the metropolitan transportation planning process.

And 23 CFR 450.316(b) In developing metropolitan transportation plans and TIPs, the MPO should consult with agencies and officials responsible for other planning activities within the MPA that are affected by transportation (including State and local planned growth, economic development, tourism, natural disaster risk reduction, environmental protection, airport operations, or freight movements) or coordinate its planning process (to the maximum extent practicable) with such planning activities. In addition, the MPO shall develop the metropolitan transportation plans and TIPs with due consideration of other related planning activities within the metropolitan area, and the process shall provide for the design and delivery of transportation services within the area that are provided by:

The DRAFT FFY 2022 - 2026 TIP underwent a public review and comment period consistent with the Pioneer Valley Metropolitan Planning Organizations Public Participation Process. This began April 28, 2021 and continued until May 18, 2021. During this time, comments were received from (insert list of comments). A public hearing was held on May 12, 2021 as part of the JTC meeting. Below is a summary of the comments received during the public review and comment period.

Table 9 Comments Received During Public Review

In addition to the above changes, the Pioneer Valley Transit Authority requested that the following be included: The Pioneer Valley Transit Authority, the FTA Section 5307(c) applicant, has consulted with the Pioneer Valley Planning Commission and concurs that the TIP satisfies the public hearing requirements that pertain to the development of the Program of Projects for regular Section 5307, Urbanized Area Formula Program, grant application including the provision for public notice and the time established for public review and comment.

For FTA projects that are not routine; i.e. Section 5307 applications that required environmental assessment or an environmental impact statement, the public involvement provided herein for TIP review is not sufficient. Additional public involvement will be required by FTA prior to grant approval, as presented in the joint FHWA/FTR environmental regulations, 23 CFR-Part 771.

The Federal Aid (FA) and Non-Federal Aid (NFA) elements were separated into two components. The FA component of the TIP was endorsed by the MPO and the NFA component is included in the main body of the TIP, however, is not subject to federal planning rules.

Comment by	Project ID	Comment	Date	Action	#
Sean Goonan Chicopee Resident	Chicopee	9 email comments from Sean Goonan, Chicopee resident on various transportation issues in Chicopee (provided to MPO members)	4/28/2021	Comment Noted	1
Sean Goonan Chicopee Resident	609061	The roundabout proposed in Chicopee for 2026 should be single-laned. If it's not then it's a waste of time and money. The diagram I saw for it featured multiple unnecessary and detrimental lanes throughout, instead of the correct singular lane. This will save money, save space, improve pedestrian walkability, decrease the number of accidents and counter-intuitively decrease congestion. I have other proposals that I believe should be done before any of the other projects lined up, and I will share those with you, but I thought I'd let you know about the Chicopee roundabout. I do think the roundabout should be done, but it should be designed properly.	5/7/2021	Comment Noted	2
MassDOT - OTP	Performance Measures	Please revise the PM3 emissions targets to 0.559(VOC), 1.71(NOx), and 6.53 (CO) to align with MassDOT's 2020 submission to the Transportation Performance Management Portal.	5/11/2021	To be updated in final document	5

MassDOT - OTP	Performance Measures	The analysis of investments broken down by performance measure categories (pages 11 - 12) could be enhanced through analyzing how amounts included in each funding source contribute to performance measures, as opposed to including all sources within the same category for each performance measure, as a number of projects have benefits in more than one performance measure category.	5/11/2021	To be updated in final document	6
MassDOT - OTP	Amendment / Adjustments	In addition to linking to the PPP, please ensure the TIP document includes an exhaustive list of the scenarios that require a TIP amendment and adjustment. Additionally, please define more explicitly which regional amendment and adjustment procedures differ from those of MassDOT.	5/11/2021	To be updated in final document	7
MassDOT - OTP	Equity Analysis	The analysis in this section should either be completed just for TIP target projects rather than RTP projects, or the categories for low income and minority should be added to Table 12 to evaluate the impact of TIP target projects on these populations.	5/11/2021	To be updated in final document	8
MassDOT - OTP	Document	MassDOT provided feedback on document structure			
MassDOT - OTP	Target Funds	Please revise to ensure this shows the targets for FFY 2022 - 2026	5/11/2021	To be updated in final document	9
FHWA	Document	FHWA Provided feedback on document structure	5/11/2021	To be updated in final document	10
FHWA	Funding Information	Suggestion: may be helpful to note that target funds and programmed amounts represent year of expenditure in the table just for clarity (in addition to the explanation above).	5/11/2021	To be updated in final document	11
FHWA	MPO Structure	Are these sub-regions defined previously? Might be helpful to include a list of towns or something again in this section.	5/11/2021	To be updated in final document	12
FHWA	Equity Analysis	Are the projects in the RTP the same as those in the TIP for the first 4 years?	5/11/2021	To be updated in final document	13
FHWA	TIP Map	This is a great analysis! Is it possible to include a key for the map as well, in this version?	5/11/2021	To be updated in final	14

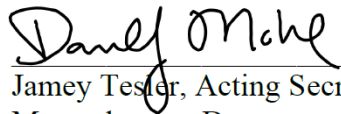
				document	
FHWA	Programmed Project Summary	Would be helpful to have a short description that this table summarizes the projects funded through target funding/PVPC prioritized projects (to avoid confusion with the export from eSTIP)	5/11/2021	To be updated in final document	15
FHWA	Programmed Project Summary	For this and other AC projects, would it be possible to indicate Year X of X in this table?	5/11/2021	To be updated in final document	16
FHWA	Project Universe	For clarity: are these only the Section 1A projects (no statewide/etc)?	5/11/2021	To be updated in final document	17

III. FEDERAL COMPONENT

PIONEER VALLEY MPO ENDORSEMENT

PIONEER VALLEY MPO ENDORSEMENT SHEET

The signatures below signify that all members of the Pioneer Valley Region's Metropolitan Planning Organization, or their designees, have met on May 25, 2021 and discussed the following item for endorsement: The Pioneer Valley Region's 2022-2026 Transportation Improvement Program (TIP)



Jamey Tester, Acting Secretary and Chief Executive Officer
Massachusetts Department of Transportation
Chair, Pioneer Valley MPO

CERTIFICATION OF THE 3-C PLANNING PROCESS

In accordance with the Metropolitan Planning Final Rule, the Pioneer Valley MPO has completed its review and hereby certifies that the conduct of the 3-C (Continuing, Cooperative and Comprehensive) Transportation Planning Process complies with the requirements of CFR 450.334 and includes activities to support the development and implementation of this TIP, the Regional Transportation Plan, and subsequent project development activities, as necessary and to the degree appropriate.

To reinforce this self-certification, the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA) conducted a certification review of the Pioneer Valley MPO planning process in 2019. The two day on-site review was preceded by a desk audit of the major planning documents completed as part of the planning process. Based on the certification review, the transportation planning process for the Pioneer Valley region was found to substantially meet the requirements of 23 CFR 450 Subpart C and 49 CFR 613.

PIONEER VALLEY MPO ENDORSEMENT SHEET

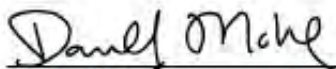
The signatures below signify that all members of the Pioneer Valley Region's Transportation Planning Organization, or their designees, have met on May 25, 2021 and discussed the following item for endorsement:

CERTIFICATION OF THE 3C PLANNING PROCESS

Concurrent with the submittal of the proposed TIP to the FHWA and the FTA, the MPO certifies that its conduct of the metropolitan transportation planning process complies with all applicable requirements (which are listed below), and that this process includes activities to support the development and implementation of the Regional Long-Range Transportation Plan and Air Quality Conformity Determination, the Transportation Improvement Program and Air Quality Conformity Determination and the Unified Planning Work Program:

1. 23 U.S.C. 134, 49 U.S.C. 5303, and this subpart;
2. Sections 174 and 176 (c) and (d) of the Clean Air Act, as amended (42 USC 7504, 7506 (c) and (d) and for applicable State Implementation Plan projects;
3. Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d-1) and 49 CFR part 21;
4. 49 U.S.C. 5332, prohibiting discrimination on the basis of race, color, creed, national origin, sex, or age in employment or business opportunity;
5. Section 1101(b) of the Fast Act (Pub. L. 114-94) and 49 CFR part 26 regarding the involvement of disadvantaged business enterprises in USDOT funded projects;
6. 23 CFR part 230, regarding implementation of an equal employment opportunity program on Federal and Federal-aid highway construction contracts;
7. The provisions of US DOT and of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) and 49 CFR parts 27, 37, and 38;
8. The Older Americans Act, as amended (42 U.S.C. 6101), prohibiting discrimination on the basis of age in programs or activities receiving federal financial assistance;
9. Section 324 of title 23 U.S.C. regarding the prohibition of discrimination based on gender;
10. Section 504 of the Rehabilitation Act of 1973 (29 U.S.C. 794) and 49 CFR part 27 regarding discrimination against individuals with disabilities;
11. Anti-lobbying restrictions found in 49 USC Part 20. No appropriated funds may be expended by a recipient to influence or attempt to influence an officer or employee of any agency, or a member of Congress, in connection with the awarding of any federal contract.

May 25, 2021



Jamey Tesler Acting Secretary and Chief Executive Officer
Massachusetts Department of Transportation
Chair, Pioneer Valley MPO

310 CMR 60.05: GLOBAL WARMING SOLUTIONS ACT REQUIREMENTS - ENDORSEMENT

PIONEER VALLEY MPO ENDORSEMENT SHEET

The signatures below signify that all members of the Pioneer Valley Region's Metropolitan Planning Organization, or their designees, have met on May 26, 2020 and discussed the following item for endorsement:

This will certify that the Long-Range Transportation Plan and Air Quality Conformity Determination for The Pioneer Valley Region's MPO is in compliance with all applicable requirements in the State Regulation 310 CMR 60.05: Global Warming Solutions Act Requirements for the Transportation Sector and the Massachusetts Department of Transportation. The regulation requires the Metropolitan Planning Organization (MPO) to:

1. 310 CMR 60.05, 5(a)(1): Evaluate and track the GHG emissions and impacts of RTPs and TIPs;
2. 310 CMR 60.05, 5(a)(2): In consultation with MassDOT, develop and utilize procedures to prioritize and select projects in RTPs, TIPs, and STIPs based on factors that include GHG emissions and impacts;
3. 310 CMR 60.05, 5(a)(3): Quantify net GHG emissions and impacts resulting from the projects in RTPs and TIPs and have made efforts to minimize GHG emissions and impacts;
4. 310 CMR 60.05, 5(a)(4): Determine in consultation with the RPA that the appropriate planning assumptions used for GHG emissions modeling are consistent with local land use policies, or that local authorities have made documented and credible commitments to establishing such consistency;
5. 310 CMR 60.05, 8(a)(2)(a): Develop RTPs and TIPs;
6. 310 CMR 60.05, 8(a)(2)(b): Ensure that RPAs are using appropriate planning assumptions;
7. 310 CMR 60.05, 8(a)(2)(c): Perform regional GHG emissions analysis of RTPs and TIPs;
8. 310 CMR 60.05, 8(a)(2)(d): Calculate GHG emissions for RTPs and TIPs;
9. 310 CMR 60.05, 8(a)(2)(e): Develop public consultation procedures for GHG reporting and related GWSA requirements consistent with current and approved regional public participation plans;
10. 310 CMR 60.05, 8(c): Prior to making final endorsements on the RTPs, TIPs, STIPs, and projects included in these plans, MassDOT and the MPOs shall include the GHG Assessment and information on related GWSA activities in RTPs, TIPs, and STIPs and provide an opportunity for public review and comment on the RTPs, TIPs, and STIPs.
11. 310 CMR 60.05, 8(a) 1 (c): After a final GHG assessment has been made by MassDOT and the MPOs, MassDOT and the MPOs shall submit MPO-endorsed RTPs, TIPs or projects within 30 days of endorsement to the Department for review of the GHG assessment.

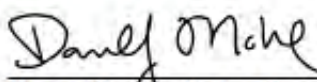
PIONEER VALLEY MPO ENDORSEMENT SHEET

The signatures below signify that all members of the Pioneer Valley Region's Transportation Planning Organization, or their designees, have met on May 25, 2021 and discussed the following item for endorsement:

This will certify that the Long-Range Transportation Plan and Air Quality Conformity Determination for The Pioneer Valley Region's MPO is in compliance with all applicable requirements in the State Regulation 310 CMR 60.05: Global Warming Solutions Act Requirements for the Transportation Sector and the Massachusetts Department of Transportation. The regulation requires the Metropolitan Planning Organization (MPO) to:

1. 310 CMR 60.05, 5(a)(1): Evaluate and track the GHG emissions and impacts of RTPs and TIPs;
2. 310 CMR 60.05, 5(a)(2): In consultation with MassDOT, develop and utilize procedures to prioritize and select projects in RTPs, TIPs, and STIPs based on factors that include GHG emissions and impacts;
3. 310 CMR 60.05, 5(a)(3): Quantify net GHG emissions and impacts resulting from the projects in RTPs and TIPs and have made efforts to minimize GHG emissions and impacts;
4. 310 CMR 60.05, 5(a)(4): Determine in consultation with the RPA that the appropriate planning assumptions used for GHG emissions modeling are consistent with local land use policies, or that local authorities have made documented and credible commitments to establishing such consistency;
5. 310 CMR 60.05, 8(a)(2)(a): Develop RTPs and TIPs;
6. 310 CMR 60.05, 8(a)(2)(b): Ensure that RPAs are using appropriate planning assumptions;
7. 310 CMR 60.05, 8(a)(2)(c): Perform regional GHG emissions analysis of RTPs and TIPs;
8. 310 CMR 60.05, 8(a)(2)(d): Calculate GHG emissions for RTPs and TIPs;
9. 310 CMR 60.05, 8(a)(2)(e): Develop public consultation procedures for GHG reporting and related GWSA requirements consistent with current and approved regional public participation plans;
10. 310 CMR 60.05, 8(c): Prior to making final endorsements on the RTPs, TIPs, STIPs, and projects included in these plans, MassDOT and the MPOs shall include the GHG Assessment and information on related GWSA activities in RTPs, TIPs, and STIPs and provide an opportunity for public review and comment on the RTPs, TIPs, and STIPs.
11. 310 CMR 60.05, 8(a) 1 (c): After a final GHG assessment has been made by MassDOT and the MPOs, MassDOT and the MPOs shall submit MPO-endorsed RTPs, TIPs or projects within 30 days of endorsement to the Department for review of the GHG assessment.

May 25, 2021



Jamey Tesler, Acting Secretary and Chief Executive Officer
Massachusetts Department of Transportation
Chair, Pioneer Valley MPO

FUNDING INFORMATION

FEDERAL AID TARGETS

The MassDOT provided the revised PVPC federal aid highway funding targets for the region On January 26, 2021. The targets are provided for FFYs 2022 through 2026 and represent both the federal aid portion and respective state match. (See Appendix A for additional information).

During the development of the TIP PVPC staff worked with MassDOT, PVTA, Municipalities with active projects, and project designers to develop current year project cost estimates and design status. Once the draft TIP was programmed, Highway projects funded with regional target funds are inflated four percent per year starting in FFY2023 in order to reflect year of expenditure (YOE).

Federal financial resources for transit are projected using appropriated amounts provided by the FTA for the funding categories of Sections 5307 and 5311. Section 5309 funds are based on estimates of what will be reasonably available. Due to the discretionary nature of these categories, project line items are maintained in the fourth year of the TIP until an actual grant award is tendered. Section 5310 is programmed through the state and is awarded on a discretionary basis. Projections are based on past experience and the funding level provided by the State.

FEDERAL AID FINANCIAL CONSTRAINT

The federal aid element of the TIP is financially constrained according to the definition in Federal Register 23 CFR Part 450.324. The federal aid projects programmed for this region reasonably meet the federal aid funding targets provided for the region. Only projects for which funds can reasonably be expected have been included. Table 9 (highway) and Table 10 (transit) shows both these target amounts and the amounts programmed for highway and transit projects during fiscal years 2022 – 2026, target funds and programmed amounts represent year of expenditure. Projects that are not charged against the funding targets are not presented in the tables. These projects include: Statewide items; and special funding projects.

Table 10 Federal Highway Financial Plan

	2022	2023	2024	2025	2026	GRAND TOTAL
Total Target Funds	\$26,839,851	\$27,426,056	\$27,785,521	\$27,136,864	\$26,432,171	\$135,620,463
Total of Programmed	\$26,839,851	\$27,208,514	\$27,202,550	\$23,991,612	\$22,487,591	\$127,730,118
Programmed STBG	\$26,839,851	\$25,708,276	\$25,702,550	\$23,991,612	\$22,487,591	\$124,729,880
Programmed HSIP	\$0	\$1,000,000	\$1,000,000	\$0	\$0	\$2,000,000
Programmed CMAQ	\$0	\$0	\$0	\$0	\$0	\$0
Programmed TAP	\$0	\$500,238	\$500,000	\$0	\$0	\$1,000,238
Difference	\$0	\$217,542	\$582,971	\$3,145,252	\$3,944,580	\$7,890,345

The funding targets were programmed to projects according to project priority rating. Projects were programmed slightly beyond the program target with the understanding that the targets are not earmarks and program levels are expected to fluctuate.

The TIP reflects an emphasis on the maintenance and operation of the current transportation system with the ability to provide capital improvements. The federal aid program for each year consists of almost entirely of maintenance projects for the present transportation system.

The transit program outlined in Table 10 represents both apportioned items as well as discretionary items. The total programmed amount represents both the federal, state and local contributions.

Table 11 Federal Transit Financial Plan

	2022	2023	2024	2025	2026	GRAND TOTAL
Available Funds	\$25,770,768	\$27,160,305	\$30,516,886	\$24,751,604	\$24,299,150	\$132,498,713
Transit Capital Investment	\$25,770,768	\$27,160,305	\$30,516,886	\$24,751,604	\$24,299,150	\$132,498,713
5307	\$13,123,333	\$13,134,267	\$13,145,333	\$13,267,867	\$12,773,767	\$65,444,567
5309						\$0
5310						\$0
5311						\$0
5337						\$0
5339	\$976,792	\$1,352,396	\$3,616,000	\$3,188,328	\$6,024,254	\$15,157,770
5320						\$0
Other Federal						\$0
Other Non Federal	\$7,498,293	\$7,723,241	\$8,080,342	\$3,135,710		\$26,437,586
State Bond Cap	\$4,172,350	\$4,950,401	\$5,675,211	\$5,159,699	\$5,501,129	\$25,458,790
Difference	\$0	\$0	\$0	\$0	\$0	\$0

The transit projects programmed focus on maintaining and operating the present system.

THE GEOGRAPHIC DISTRIBUTION OF FEDERAL TARGET FUNDS IN THE PIONEER VALLEY METROPOLITAN PLANNING REGION – 2022 TO 2026

PVPC staff reviewed project programming for the TIP in order to show the geographic distribution of Federal Target funds in the Pioneer Valley Metropolitan Planning Organization (MPO) region. PVPC staff reviewed year 1 section 1A (Federal Aid Target Projects) for the next 5 years (2022 through 2026) TIP. Table 11 provides the results of this analysis broken out by MPO sub-region while Table 12 provides the results broken out by municipality. Please see page 3 for MPO region map and additional information regarding the composition of the MPO.

As can be seen in Tables 11 and 12 the PVMPO has successfully programmed 20 projects in 14 communities over the next 5 years. The total funding commitment for these projects is \$127.7 million. The average investment per project is \$6.4 million (decrease from \$8.5 million in FFY 2021) or 4 projects per year on average (up from 3.6 in FFY 2021).

Table 12 Projects Proposed to be Completed in the 2022-2026 TIP by Sub-Region

	2022	2023	2024	2025	2026	Total	Total Funds	% Funds	% Population	Average Median Income	Average Median Below Poverty	Population
Sub Region 1	1		1		2	4	\$32,591,174	26%	40%	\$39,186	24.37%	248,238
Sub Region 2	1	3	1			5	\$21,692,328	17%	17%	\$64,795	8.53%	107,425
Sub Region 3	2			1	1	4	\$43,472,513	34%	17%	\$61,037	14.68%	105,185
Sub Region 4		3		2		5	\$16,970,869	13%	21%	\$73,499	6.84%	132,675
Sub Region 5			2			2	\$13,003,234	10%	4%	\$68,342	6.52%	28,047
	4	6	4	3	3	20	\$127,730,118	100%		\$61,372	12.19%	621,570

Source: PVPC TIP

As can be seen in Table 11, sub-region 1 (40% of PV population) will see 4 projects worth \$32.6 million (26% of the available funding) over the next 5 years. Sub-region 3 is anticipated to receive 8% more funding than population over the next 5 years. This is due in large to the MPO’s commitment to fund a \$17.5 million project in Hadley in 2022 and a \$16 million project in Northampton in 2025. The PVMPO is committed to funding transportation improvement projects across the entire region. The community data provided in Table 12 shows the extent to which this has been proposed over the next 5 years. With the implementation of the new Transportation Evaluation Criteria (TEC) as well as other regional and state initiatives, the PVMPO is positioned to be able to continue to make decisions that will be equitable for the entire region.

Table 13 Projects Proposed to be Completed in the 2022-2026 TIP by Municipality

	2022	2023	2024	2025	2026	Total	Total Funds	% Funds	% Population	Median Household Income	Below Poverty Level	Population
Agawam								0%	4.6%	\$63,561	9.3%	28,705
Amherst								0%	6.2%	\$52,537	33.8%	38,919
Belchertown								0%	2.4%	\$74,221	7.8%	14,735
Blandford								0%	0.2%	\$72,361	5.6%	1,246
Brimfield								0%	0.6%	\$82,365	3.0%	3,708
Chester								0%	0.2%	\$65,648	9.2%	1,360
Chesterfield								0%	0.2%	\$63,594	7.3%	1,239
Chicopee					1	1	\$10,264,718	8%	8.9%	\$47,276	12.9%	55,717
Cummington			1			1	\$1,792,800	1%	0.1%	\$50,521	6.4%	867
East Longmeadow								0%	2.6%	\$84,173	5.1%	16,022
Easthampton	1					1	\$3,624,561	3%	2.5%	\$56,927	8.3%	15,971
Goshen								0%	0.2%	\$69,219	2.8%	1,058
Granby		2				2	\$3,382,672	3%	1.0%	\$78,261	5.8%	6,290
Granville								0%	0.3%	\$75,208	7.1%	1,612
Hadley	1					1	\$17,486,346	14%	0.8%	\$74,737	7.5%	5,271
Hampden								0%	0.8%	\$78,722	4.2%	5,179
Hatfield								0%	0.5%	\$60,033	11.1%	3,282
Holland				1		1	\$1,177,653	1%	0.4%	\$64,868	9.4%	2,495
Holyoke	1				1	2	\$10,524,565	8%	6.4%	\$35,550	30.1%	40,249
Huntington								0%	0.3%	\$52,275	9.8%	2,168
Longmeadow				1		1	\$6,754,438	5%	2.5%	\$108,835	5.3%	15,882
Ludlow								0%	3.4%	\$61,410	5.9%	21,451
Middlefield								0%	0.1%	\$78,214	5.3%	528
Monson								0%	1.4%	\$66,389	8.2%	8,722
Montgomery								0%	0.1%	\$78,333	2.0%	862
Northampton				1		1	\$16,059,521	13%	4.5%	\$58,179	14.6%	28,495
Palmer								0%	1.9%	\$51,846	10.3%	12,157
Pelham								0%	0.2%	\$88,462	5.7%	1,319
Plainfield								0%	0.1%	\$57,188	9.3%	650
Russell								0%	0.3%	\$68,750	2.1%	1,789
South Hadley					1	1	\$6,302,085	5%	2.8%	\$62,803	9.2%	17,740
Southampton								0%	1.0%	\$68,693	4.9%	5,984
Southwick								0%	1.5%	\$81,967	2.9%	9,634
Springfield			1			1	\$11,801,891	9%	24.5%	\$34,731	30.1%	153,703
Tolland								0%	0.1%	\$85,750	7.9%	483
Wales		1				1	\$5,656,106	4%	0.3%	\$52,500	5.3%	1,875
Ware								0%	1.6%	\$49,630	14.9%	9,844
West Springfield	1	3	1			5	\$21,692,328	17%	4.6%	\$52,806	11.0%	28,684
Westfield								0%	6.6%	\$60,845	10.9%	41,301
Westhampton								0%	0.3%	\$79,583	5.2%	1,603
Wilbraham								0%	2.3%	\$87,303	4.8%	14,477
Williamsburg								0%	0.4%	\$65,147	10.2%	2,466
Worthington			1			1	\$11,210,434	9%	0.2%	\$71,300	4.6%	1,167
Hampden County	2	4	2	2	2	12	\$67,871,699	53%	74.5%	\$50,036	17.7%	467,313
Hampshire County	2	2	2	1	1	8	\$59,858,419	47%	25.5%	\$61,460	13.9%	159,596
PVMPO Region	4	6	4	3	3	20	\$ 127,730,118	100%	100.0%	\$ 52,108	16.6%	626,909

Bold indicates communities that have a higher probability of requiring translation of documents into a language other than English. For additional information on the Language Access Plan (LAP) please refer to Chapter 4 page 56 ([Click Here](#))

Source: PVPC TIP

EQUITY ASSESSMENT MEASURES

EQUITY ASSESSMENT STRATEGIES

Title VI and the executive orders of Environmental Justice call for programs that quantify the benefits and burdens of the transportation investments and evaluate the impacts for different socio-economic groups. To accomplish this task PVPC worked with the JTC to establish measures of effectiveness that would reflect quantifiable transportation expenditures in the Region. These measures were used to evaluate capital expenditures in the Regional Transportation Plan and Transportation Improvement Program and to evaluate transit service. The evaluations provide a barometer of the distribution of resources and also assist decision-makers in achieving an equitable balance of in future years.

EQUITY DISTRIBUTION ANALYSIS

PVPC conducted an equity assessment on the transportation planning tasks completed as part of previous UPWP's this assessment process has previously been used on the Regional TIP and identifies how regional transportation improvement projects have potential impacted defined minority and low-income block groups in the region. The following demographic map (figure 1) displays an overlay of federally funded projects from the Transportation Improvement Program (TIP) to minority and low income census block groups

2022 to 2026 TIP funding allocations were calculated for defined low income and minority populations. PVPC completed an inventory of projects included on the TIP and mapped these projects. GIS tools were used to determine the amount of transportation funds (including bridge projects) allocated to each population group and also compared these values to regional average allocations using census block group data. This analysis is also conducted the Regional Transportation Plan (RTP). PVPC is also working to conduct analysis on other Title VI protected classes. The TIP analysis is presented in Tables 13 and 14.

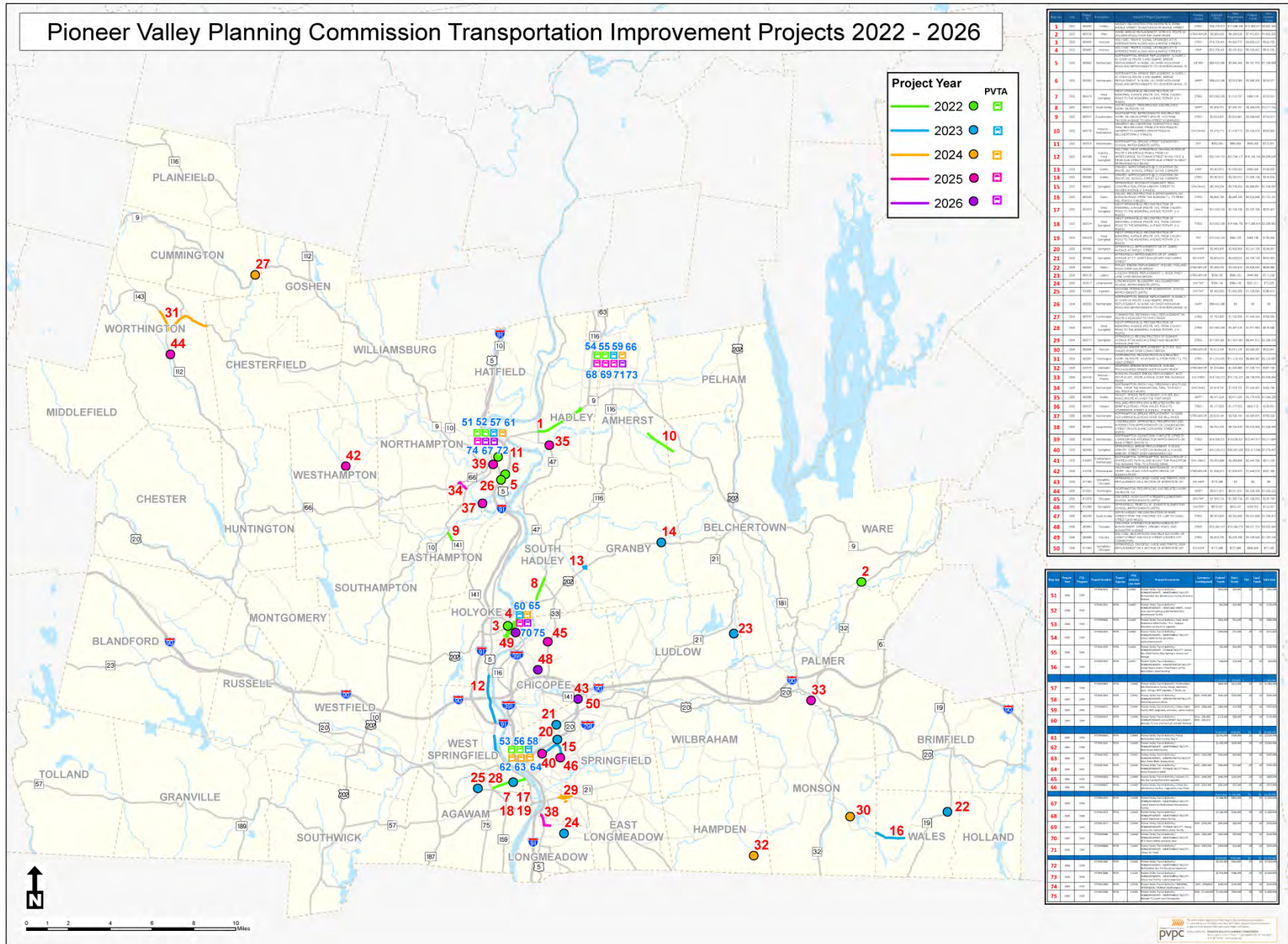
Table 14 Distribution of Projects in the TIP to Low Income Populations

	PVPC Total	Low Income Block Groups	Other Block Groups	% PVPC Total in <u>Low Income</u> Block Groups	% PVPC Total in Other Block Groups
Transportation Analysis Zones (Block Groups)	442	158	284	35.75%	64.25%
Population	621570	207727	413843	33.42%	66.58%
Minority Population	171475	110607	60868	64.50%	35.50%
Number of Projects	54	30	24	55.56%	44.44%
Projects not Funded	\$0.00	\$0.00	\$0.00		
Projects	\$284,441,698	\$172,577,335	\$111,864,363	60.67%	39.33%
Total Project Dollars per Capita	\$458	\$831	\$270		

Table 15 Distribution of Projects in the TIP to Minority Populations

	PVPC Total	Minority Block Groups	Other Block Groups	% PVPC Total in Minority Block Groups	% PVPC Total in Other Block Groups
Transportation Analysis Zones (Block Groups)	442	163	279	36.88%	63.12%
Population	621570	212230	409340	34.14%	65.86%
Minority Population	171475	130808	40667	76.28%	23.72%
Number of Projects	54	30	24	55.56%	44.44%
Projects not Funded	0	0	0		
Projects	\$284,441,698	\$205,640,237	\$78,801,461	72.30%	27.70%
Total Project Dollars per Capita	\$458	\$969	\$193		

Figure 1 - Projects Programmed in the TIP



A more detailed version of this map can be viewed [HERE](#)

IV. FEDERAL AID REGIONAL PROJECT LISTINGS

The following is a complete listing of the Pioneer Valley Federally Funded Transportation Improvement Projects for Fiscal Years 2022 - 2026.

ORGANIZATION OF PROJECT LISTINGS

Each project in the TIP contains the following information:

MassDOT Project ID - Project identification numbers given by the Massachusetts Highway Department.

MassDOT Project Description – Includes Town or city in which a project is located, and a description of work to be funded under the project.

MassDOT District – The MassDOT sub-Region where the project is located, for PVMPO projects will be in either District 1 or District 2.

Funding Source - The funding category from which funding is expected.

Total Programmed Funds - The total funding for the project under the specified funding source.

Federal Funds - The amount of federal dollars allocated for project construction.

Non-Federal Funds - The amount of non-federal dollars allocated to the project.

Additional Information – Provides additional project information including design status, Transportation Evaluation Criteria (TEC) Score, and YOE Cost.

Regional Target - The total combined Federal and State dollar amount provided for project funding.

TEC Score – This score is based on criteria developed rank the regional significant of each eligible TIP project

Table 16 Summary of Programmed Projects Section 1 A Federal Aid Target Projects

Project in table 15 are listed to provide a quick summary of those projects the MPO selected to be funded with Regional Target Funds. The complete listing of approved projects funded in FFY 2022 – 2026 can be found in Tables 16-20.

Year	Project ID	Municipality	MassDOT Project Description	Funding Source	Total Funds	Federal Funds	Non-Federal	Other Information
2022	605032	Hadley	HADLEY- RECONSTRUCTION ON ROUTE 9, FROM MIDDLE STREET TO MAPLE/SOUTH MAPLE STREET	STBG	\$17,486,346	\$13,989,077	\$3,497,269	Construction / (YOE \$26,27,937) Project A/C over 2 years FFY 2021 \$8,793,026, FFY 2022 \$17,486,346 /61 TEC / 100% / STBG
2022	606450	Holyoke	HOLYOKE- TRAFFIC SIGNAL UPGRADES AT 15 INTERSECTIONS ALONG HIGH & MAPLE STREETS	STBG	\$4,603,777	\$3,683,022	\$920,755	Construction / (YOE \$10,755,401 (\$4,603,777 in statewide funding) = \$6,151,624) / 66 TEC / 25 / STBG
2022	608374	West Springfield	WEST SPRINGFIELD- RECONSTRUCTION OF MEMORIAL AVENUE (ROUTE 147), FROM COLONY ROAD TO THE MEMORIAL AVENUE ROTARY (1.4 MILES)	STBG	\$1,125,167	\$900,134	\$225,033	Construction / (YOE \$21,692,328) 3 years of AC funding FFY 2022 \$1, 125,167 FFY2023 \$18,169,736 FFY2024 \$2,397,425 / 72.5 TEC / 75% / STBG 100% due June 21
2022	608577	Easthampton	EASTHAMPTON- IMPROVEMENTS AND RELATED WORK ON UNION STREET (ROUTE 141) FROM PAYSON AVENUE TO HIGH STREET (0.36 MILES)	STBG	\$3,624,561	\$2,899,649	\$724,912	Construction / (TFPC \$3,624,561) / 62.5 TEC / 75% STBG
FFY 2022 Total (4 Projects)					\$26,839,851			
Year	Project ID	Municipality	MassDOT Project Description	Funding Source	Total Funds	Federal Funds	Non-Federal	Other Information
2023	606895	Granby	GRANBY- IMPROVEMENTS @ 2 LOCATIONS ON ROUTE 202: SCHOOL STREET & FIVE CORNERS	HSIP	\$1,000,000	\$900,000	\$100,000	Construction / (YOE \$3,382,672) / 43 TEC / 75% STBG, HSIP
2023	606895	Granby	GRANBY- IMPROVEMENTS @ 2 LOCATIONS ON ROUTE 202: SCHOOL STREET & FIVE CORNERS	STBG	\$2,382,672	\$1,906,138	\$476,534	Construction / (YOE \$3,382,672) / 43 TEC / 75% STBG, HSIP
2023	608163	Wales	WALES- RECONSTRUCTION & IMPROVEMENTS ON MONSON ROAD, FROM THE MONSON T.L. TO REED HILL ROAD (1.5 MILES)	STBG	\$5,656,106	\$4,524,885	\$1,131,221	Construction / YOE \$5,656,106 / 39.5 TEC / 75% STBG
2023	608374	West Springfield	WEST SPRINGFIELD- RECONSTRUCTION OF MEMORIAL AVENUE (ROUTE 147), FROM COLONY ROAD TO THE MEMORIAL AVENUE ROTARY (1.4 MILES)	CMAQ	\$3,169,736	\$2,535,789	\$633,947	Construction / (YOE \$21,692,328) 3 years of AC funding FFY 2022 \$1, 125,167 FFY2023 \$18,169,736 FFY2024 \$2,397,425 / 72.5 TEC / 75% / STBG 100% due June 21
2023	608374	West Springfield	WEST SPRINGFIELD- RECONSTRUCTION OF MEMORIAL AVENUE (ROUTE 147), FROM COLONY ROAD TO THE MEMORIAL AVENUE ROTARY (1.4 MILES)	STBG	\$14,499,762	\$11,599,810	\$2,899,952	Construction / (YOE \$21,692,328) 3 years of AC funding FFY 2022 \$1, 125,167 FFY2023 \$18,169,736 FFY2024 \$2,397,425 / 72.5 TEC / 75% / STBG 100% due June 21
2023	608374	West Springfield	WEST SPRINGFIELD- RECONSTRUCTION OF MEMORIAL AVENUE (ROUTE 147), FROM COLONY ROAD TO THE MEMORIAL AVENUE ROTARY (1.4 MILES)	TAP	\$500,238	\$400,190	\$100,048	Construction / (YOE \$21,692,328) 3 years of AC funding FFY 2022 \$1, 125,167 FFY2023 \$18,169,736 FFY2024 \$2,397,425 / 72.5 TEC / 75% / STBG 100% due June 21
FFY 2023 Total (3 Projects)					\$27,208,514 \$21,866,811 \$5,341,703			

Year	Project ID	Municipality	MassDOT Project Description	Funding Source	Total Funds	Federal Funds	Non-Federal	Other Information
2024	606797	Cummington	CUMMINGTON- RETAINING WALL REPLACEMENT ON ROUTE 9 ADJACENT TO SWIFT RIVER	STBG	\$1,792,800	\$1,434,240	\$358,560	Construction / (YOE \$1,792,800 / 9 TEC / Pre 25% / STBG
2024	608374	West Springfield	WEST SPRINGFIELD- RECONSTRUCTION OF MEMORIAL AVENUE (ROUTE 147), FROM COLONY ROAD TO THE MEMORIAL AVENUE ROTARY (1.4 MILES)	STBG	\$2,397,425	\$1,917,940	\$479,485	Construction / (YOE \$21,692,328) 3 years of AC funding FFY 2022 \$1, 125,167 FFY2023 \$18,169,736 FFY2024 \$2,397,425 / 72.5 TEC / 75% / STBG 100% due June 21
2024	608717	Springfield	SPRINGFIELD- RECONSTRUCTION OF SUMNER AVENUE AT DICKINSON STREET AND BELMONT AVENUE (THE "X")	STBG	\$11,801,891	\$9,441,513	\$2,360,378	Construction / YOE \$11,801,892) 71 TEC / 25% STBG, CMAQ, HSIP, TAP
2024	609287	Worthington	WORTHINGTON- RECONSTRUCTION & RELATED WORK ON ROUTE 143 (PHASE II), FROM PERU T.L. TO COLD STREET	STBG	\$11,210,434	\$8,968,347	\$2,242,087	Construction / (YOE \$11,210,434) / 41 TEC / 75% Project Phase I funded in FFY 2019 / STBG
FFY 2024 Total (4 Projects)					\$27,202,550	\$21,762,040	\$5,440,510	
Year	Project ID	Municipality	MassDOT Project Description	Funding Source	Total Funds	Federal Funds	Non-Federal	Other Information
2025	608727	Holland	HOLLAND- RESURFACING & RELATED WORK ON BRIMFIELD ROAD, FROM WALES ROAD TO STURBRIDGE STREET (0.9 MILES - PHASE II)	STBG	\$1,177,653	\$942,122	\$235,531	Construction (YOE \$1,177,653) 27.5 TEC / Pre 25% / STBG
2025	608881	Longmeadow	LONGMEADOW- SPRINGFIELD- RESURFACING AND INTERSECTION IMPROVEMENTS ON LONGMEADOW STREET (ROUTE 5) AND CONVERSE STREET (0.84 MILES)	STBG	\$6,754,438	\$5,403,550	\$1,350,888	Construction (YOE \$6,754,438 / 59 TEC / 25% / STBG
2025	609286	Northampton	NORTHAMPTON- DOWNTOWN COMPLETE STREETS CORRIDOR AND INTERSECTION IMPROVEMENTS ON MAIN STREET (ROUTE 9)	STBG	\$16,059,521	\$12,847,617	\$3,211,904	Construction (YOE \$16,059,520) 80 TEC / Pre 25% / STBG
FFY 2025 (3 Projects)					\$23,991,612	\$19,193,290	\$4,798,322	
Year	Project ID	Municipality	MassDOT Project Description	Funding Source	Total Funds	Federal Funds	Non-Federal	Other Information
2026	608785	South Hadley	SOUTH HADLEY- RECONSTRUCTION OF MAIN STREET FROM THE CHICOPEE CITY LINE TO CANAL STREET (0.67 MILES)	STBG	\$6,302,085	\$5,041,668	\$1,260,417	Construction (YOE \$6,302,085) TEC 38.5 / 25%
2026	609061	Chicopee	CHICOPEE- INTERSECTION IMPROVEMENTS AT MONTGOMERY STREET, GRANBY ROAD, AND MCKINSTRY AVENUE	STBG	\$10,264,718	\$8,211,774	\$2,052,944	Construction (YOE \$10,264,718) TEC 56 / 25%
2026	609065	Holyoke	HOLYOKE- RESURFACING AND RELATED WORK ON CABOT STREET AND RACE STREET (CENTER CITY CONNECTOR)	STBG	\$5,920,788	\$4,736,630	\$1,184,158	Construction (YOE \$5,920,788) TEC 56.5 / 25%
FFY 2026 (3 Projects)					\$22,487,591	\$17,990,073	\$4,497,518	

Table 17 Federally Funded Projects Year 2022

STIP: 2022 - 2026 (D)									
Program	MassDOT Project ID	MPO	Municipality	MassDOT Project Description	District	Funding Source	Total Programmed Funds	Federal Funds	Non-Federal Funds
Federal Fiscal Year 2022									
Section 1A / Regionally Prioritized Projects							\$26,839,851	\$21,471,881	\$5,367,970
Capacity	605032	Pioneer Valley	Hadley	HADLEY- RECONSTRUCTION ON ROUTE 9, FROM MIDDLE STREET TO MAPLE/SOUTH MAPLE STREET	2	STBG	\$17,486,346	\$13,989,077	\$3,497,269
Intersection Improvements	606450	Pioneer Valley	Holyoke	HOLYOKE- TRAFFIC SIGNAL UPGRADES AT 15 INTERSECTIONS ALONG HIGH & MAPLE STREETS	2	STBG	\$4,603,777	\$3,683,022	\$920,755
Roadway Reconstruction	608374	Pioneer Valley	West Springfield	WEST SPRINGFIELD- RECONSTRUCTION OF MEMORIAL AVENUE (ROUTE 147), FROM COLONY ROAD TO THE MEMORIAL AVENUE ROTARY (1.4 MILES)	2	STBG	\$1,125,167	\$900,134	\$225,033
Roadway Reconstruction	608577	Pioneer Valley	Easthampton	EASTHAMPTON- IMPROVEMENTS AND RELATED WORK ON UNION STREET (ROUTE 141) FROM PAYSON AVENUE TO HIGH STREET (0.36 MILES)	2	STBG	\$3,624,561	\$2,899,649	\$724,912
STBG Programmed							\$26,839,851	\$21,471,881	\$5,367,970
Total Programmed for Pioneer Valley Region Projects*							\$26,839,851	\$21,471,881	\$5,367,970
Program Target for Pioneer Valley Region Projects							\$26,839,851	\$21,471,881	\$5,367,970
Target Funds Available for Pioneer Valley Region Projects							\$0	\$0	\$0

Table 16: Federally Funded Projects Year 2022 (Continued)

Section 2A / State Prioritized Reliability Projects							\$20,492,172	\$16,393,738	\$4,098,434
Bridge On-system NHS	606552	Pioneer Valley	Northampton	NORTHAMPTON- BRIDGE REPLACEMENT, N-19-059, I-91 OVER US ROUTE 5 AND B&MRR, BRIDGE REPLACEMENT, N-19-060, I-91 OVER HOCKANUM ROAD AND IMPROVEMENTS TO I-91/INTERCHANGE 18	2	NHPP	\$3,370,385	\$2,696,308	\$674,077
Non-Interstate Pavement	608473	Pioneer Valley	South Hadley	SOUTH HADLEY- RESURFACING AND RELATED WORK ON ROUTE 116	2	NHPP	\$7,855,761	\$6,284,609	\$1,571,152
Bridge Off-system	605126	Pioneer Valley	Ware	WARE- BRIDGE REPLACEMENT, W-05-015, ROUTE 32 (PALMER ROAD) OVER THE WARE RIVER	2	STBG-BR-Off	\$9,266,026	\$7,412,821	\$1,853,205
Section 2B / State Prioritized Modernization Projects							\$7,014,628	\$6,226,865	\$787,763
Roadway Reconstruction	609515	Pioneer Valley	Northampton	NORTHAMPTON- BRIDGE STREET ELEMENTARY SCHOOL IMPROVEMENTS (SRTS)	2	TAP	\$863,004	\$690,403	\$172,601
Intersection Improvements	606450	Pioneer Valley	Holyoke	HOLYOKE- TRAFFIC SIGNAL UPGRADES AT 15 INTERSECTIONS ALONG HIGH & MAPLE STREETS	2	HSIP	\$6,151,624	\$5,536,462	\$615,162
Section 2C / State Prioritized Expansion Projects							\$1,479,773	\$1,183,818	\$295,955
Bicycle and Pedestrian	608719	Pioneer Valley	Multiple	AMHERST- BELCHERTOWN- NORWOTTUCK RAIL TRAIL RESURFACING, FROM STATION ROAD IN AMHERST TO WARREN WRIGHT ROAD IN BELCHERTOWN (1.5 MILES)	2	STBG	\$1,479,773	\$1,183,818	\$295,955

Table 18 Federally Funded Projects Year 2023

Program	MassDOT Project ID	MPO	Municipality	MassDOT Project Description	District	Funding Source	Total Programmed Funds	Federal Funds	Non-Federal Funds	
Federal Fiscal Year 2023										
Section 1A / Regionally Prioritized Projects							\$27,208,514	\$21,866,811	\$5,341,703	
Intersection Improvements	606895	Pioneer Valley	Granby	GRANBY- IMPROVEMENTS @ 2 LOCATIONS ON ROUTE 202: SCHOOL STREET & FIVE CORNERS	2	HSIP	\$1,000,000	\$900,000	\$100,000	
Intersection Improvements	606895	Pioneer Valley	Granby	GRANBY- IMPROVEMENTS @ 2 LOCATIONS ON ROUTE 202: SCHOOL STREET & FIVE CORNERS	2	STBG	\$2,382,672	\$1,906,138	\$476,534	
Roadway Reconstruction	608163	Pioneer Valley	Wales	WALES- RECONSTRUCTION & IMPROVEMENTS ON MONSON ROAD, FROM THE MONSON T.L. TO REED HILL ROAD (1.5 MILES)	2	STBG	\$5,656,106	\$4,524,885	\$1,131,221	
Roadway Reconstruction	608374	Pioneer Valley	West Springfield	WEST SPRINGFIELD- RECONSTRUCTION OF MEMORIAL AVENUE (ROUTE 147), FROM COLONY ROAD TO THE MEMORIAL AVENUE ROTARY (1.4 MILES)	2	STBG	\$17,669,498	\$14,135,598	\$3,533,900	
Roadway Reconstruction	608374	Pioneer Valley	West Springfield	WEST SPRINGFIELD- RECONSTRUCTION OF MEMORIAL AVENUE (ROUTE 147), FROM COLONY ROAD TO THE MEMORIAL AVENUE ROTARY (1.4 MILES)	2	TAP	\$500,238	\$400,190	\$100,048	
							HSIP Programmed	\$1,000,000	\$900,000	\$100,000
							STBG Programmed	\$25,708,276	\$20,566,621	\$5,141,655
							TAP Programmed	\$500,238	\$400,190	\$100,048
Total Programmed for Pioneer Valley Region Projects*								\$27,208,514	\$21,866,811	\$5,341,703
Program Target for Pioneer Valley Region Projects								\$27,426,056	\$21,940,845	\$5,485,211
Target Funds Available for Pioneer Valley Region Projects								\$217,542	\$74,034	\$143,508

Table 17: Federally Funded Projects Year 2023 (Continued)

Section 2A / State Prioritized Reliability Projects							\$30,978,819	\$25,245,958	\$5,732,861
Bridge Off-system	609120	Pioneer Valley	Ludlow	LUDLOW- BRIDGE REPLACEMENT, L-16-026, PINEY LANE OVER BROAD BROOK	2	STBG-BR-Off	\$556,192	\$444,954	\$111,238
Bridge Off-system	608847	Pioneer Valley	Wales	WALES- BRIDGE REPLACEMENT, W-02-002, HOLLAND ROAD OVER WALES BROOK	2	STBG-BR-Off	\$3,049,418	\$2,439,534	\$609,884
Safety Improvements	608565	Pioneer Valley	Springfield	SPRINGFIELD- IMPROVEMENTS ON ST. JAMES AVENUE AT ST. JAMES BOULEVARD AND CAREW STREET	2	HSIP	\$4,629,032	\$4,166,129	\$462,903
Non-Interstate Pavement	604209	Pioneer Valley	Multiple	HOLYOKE- WEST SPRINGFIELD- REHABILITATION OF ROUTE 5 (RIVERDALE ROAD), FROM I-91 (INTERCHANGE 13) TO MAIN STREET IN HOLYOKE & FROM ELM STREET TO NORTH ELM STREET IN WEST SPRINGFIELD (3.2 MILES)	2	NHPP	\$22,744,177	\$18,195,342	\$4,548,835
Section 2B / State Prioritized Modernization Projects							\$4,346,994	\$3,726,676	\$620,318
Roadway Reconstruction	609517	Pioneer Valley	Longmeadow	LONGMEADOW- BLUEBERRY HILL ELEMENTARY SCHOOL IMPROVEMENTS (SRTS)	2	TAP	\$364,139	\$291,311	\$72,828
Intersection Improvements	608560	Pioneer Valley	Springfield	SPRINGFIELD- IMPROVEMENTS ON ST. JAMES AVENUE AT TAPLEY STREET	2	HSIP	\$2,490,805	\$2,241,725	\$249,081
Roadway Reconstruction	610652	Pioneer Valley	Agawam	AGAWAM- ROBINSON PARK ELEMENTARY SCHOOL IMPROVEMENTS (SRTS)	2	TAP	\$1,492,050	\$1,193,640	\$298,410
Section 2C / State Prioritized Expansion Projects							\$8,748,334	\$6,998,667	\$1,749,667
Bicycle and Pedestrian	608157	Pioneer Valley	Springfield	SPRINGFIELD- MCKNIGHT COMMUNITY TRAIL CONSTRUCTION, FROM ARMORY STREET TO HAYDEN AVENUE (1.5 MILES)	2	CMAQ	\$8,748,334	\$6,998,667	\$1,749,667

Table 19: Federally Funded Projects 2024

Program	MassDOT Project ID	MPO	Municipality	MassDOT Project Description	District	Funding Source	Total Programmed Funds	Federal Funds	Non-Federal Funds	
Federal Fiscal Year 2024										
Section 1A / Regionally Prioritized Projects							\$27,202,550	\$21,862,040	\$5,340,510	
Roadway Reconstruction	606797	Pioneer Valley	Cummington	CUMMINGTON- RETAINING WALL REPLACEMENT ON ROUTE 9 ADJACENT TO SWIFT RIVER	1	STBG	\$1,792,800	\$1,434,240	\$358,560	
Roadway Reconstruction	608374	Pioneer Valley	West Springfield	WEST SPRINGFIELD- RECONSTRUCTION OF MEMORIAL AVENUE (ROUTE 147), FROM COLONY ROAD TO THE MEMORIAL AVENUE ROTARY (1.4 MILES)	2	STBG	\$2,397,425	\$1,917,940	\$479,485	
Roadway Reconstruction	608717	Pioneer Valley	Springfield	SPRINGFIELD- RECONSTRUCTION OF SUMNER AVENUE AT DICKINSON STREET AND BELMONT AVENUE (THE "X")	2	HSIP	\$1,000,000	\$900,000	\$100,000	
Roadway Reconstruction	608717	Pioneer Valley	Springfield	SPRINGFIELD- RECONSTRUCTION OF SUMNER AVENUE AT DICKINSON STREET AND BELMONT AVENUE (THE "X")	2	STBG	\$10,301,891	\$8,241,513	\$2,060,378	
Roadway Reconstruction	608717	Pioneer Valley	Springfield	SPRINGFIELD- RECONSTRUCTION OF SUMNER AVENUE AT DICKINSON STREET AND BELMONT AVENUE (THE "X")	2	TAP	\$500,000	\$400,000	\$100,000	
Roadway Reconstruction	609287	Pioneer Valley	Worthington	WORTHINGTON- RECONSTRUCTION & RELATED WORK ON ROUTE 143 (PHASE II), FROM PERU T.L. TO COLD STREET	1	STBG	\$11,210,434	\$8,968,347	\$2,242,087	
							HSIP Programmed	\$1,000,000	\$900,000	\$100,000
							STBG Programmed	\$25,702,550	\$20,562,040	\$5,140,510
							TAP Programmed	\$500,000	\$400,000	\$100,000
Total Programmed for Pioneer Valley Region Projects*							\$27,202,550	\$21,862,040	\$5,340,510	
Program Target for Pioneer Valley Region Projects							\$27,785,521	\$22,228,417	\$5,557,104	
Target Funds Available for Pioneer Valley Region Projects							\$582,971	\$366,377	\$216,594	

Table 18: Federally Funded Projects Year 2024 (Continued)

Section 2A / State Prioritized Reliability Projects							\$4,149,202	\$3,319,362	\$829,840
Bridge Off-system	608846	Pioneer Valley	Monson	MONSON- BRIDGE REPLACEMENT, M-27-015, OLD WALES ROAD OVER CONANT BROOK	2	STBG-BR-Off	\$2,613,234	\$2,090,587	\$522,647
Bridge Off-system	610779	Pioneer Valley	Hampden	HAMPDEN- BRIDGE MAINTENANCE, H-04-004, ROCKADUNDEE BRIDGE OVER SCANTIC RIVER	2	STBG-BR-Off	\$1,535,968	\$1,228,774	\$307,194

Table 20: Federally Funded Projects 2025

Program	MassDOT Project ID	MPO	Municipality	MassDOT Project Description	District	Funding Source	Total Programmed Funds	Federal Funds	Non-Federal Funds	
Federal Fiscal Year 2025										
Section 1A / Regionally Prioritized Projects							\$23,991,612	\$19,193,290	\$4,798,322	
Roadway Reconstruction	608727	Pioneer Valley	Holland	HOLLAND- RESURFACING & RELATED WORK ON BRIMFIELD ROAD, FROM WALES ROAD TO STURBRIDGE STREET (0.9 MILES - PHASE II)	2	STBG	\$1,177,653	\$942,122	\$235,531	
Roadway Reconstruction	608881	Pioneer Valley	Longmeadow	LONGMEADOW- SPRINGFIELD- RESURFACING AND INTERSECTION IMPROVEMENTS ON LONGMEADOW STREET (ROUTE 5) AND CONVERSE STREET (0.84 MILES)	2	STBG	\$6,754,438	\$5,403,550	\$1,350,888	
Roadway Reconstruction	609286	Pioneer Valley	Northampton	NORTHAMPTON- DOWNTOWN COMPLETE STREETS CORRIDOR AND INTERSECTION IMPROVEMENTS ON MAIN STREET (ROUTE 9)	2	STBG	\$16,059,521	\$12,847,617	\$3,211,904	
							STBG Programmed	\$23,991,612	\$19,193,290	\$4,798,322
							Total Programmed for Pioneer Valley Region Projects*	\$23,991,612	\$19,193,290	\$4,798,322
							Program Target for Pioneer Valley Region Projects	\$27,136,864	\$21,709,491	\$5,427,373
							Target Funds Available for Pioneer Valley Region Projects	\$3,145,252	\$2,516,201	\$629,051

Table 19: Federally Funded Projects Year 2025 (Continued)

Section 2A / State Prioritized Reliability Projects							\$65,775,557	\$52,620,446	\$13,155,111
Bridge On-system NHS	609409	Pioneer Valley	Springfield	SPRINGFIELD- BRIDGE REPLACEMENT, S-24-016, ARMORY STREET OVER CSX MAINLINE & S-24-026, ARMORY STREET OVER ABANDONED CSX	2	NHPP	\$36,897,333	\$29,517,866	\$7,379,467
Bridge Off-system	610768	Pioneer Valley	Westhampton	WESTHAMPTON- BRIDGE MAINTENANCE, W-27-028, PERRY HILL ROAD OVER NORTH BROOK OF MANHAN RIVER	2	STBG-BR-Off	\$1,936,973	\$1,549,578	\$387,395
Bridge Off-system	608869	Pioneer Valley	Northampton	NORTHAMPTON- BRIDGE REPLACEMENT, N-19-068, OLD SPRINGFIELD ROAD OVER THE MILL RIVER	2	STBG-BR-Off	\$3,826,144	\$3,060,915	\$765,229
Bridge On-system NHS	608460	Pioneer Valley	Hadley	HADLEY- BRIDGE REPLACEMENT, H-01-005, BAY ROAD (ROUTE 47) OVER THE FORT RIVER	2	NHPP	\$6,471,024	\$5,176,819	\$1,294,205
Bridge On-system Non-NHS	604136	Pioneer Valley	Multiple	MONSON- PALMER- BRIDGE REPLACEMENT, M-27-007=P-01-007, STATE AVENUE OVER THE QUABOAG RIVER	2	STBG	\$10,132,472	\$8,105,978	\$2,026,494
Non-Interstate Pavement	612031	Pioneer Valley	Worthington	WORTHINGTON- RESURFACING AND RELATED WORK ON ROUTE 112	1	NHPP	\$6,511,611	\$5,209,289	\$1,302,322
Section 2B / State Prioritized Modernization Projects							\$1,994,161	\$1,595,329	\$398,832
Roadway Reconstruction	612079	Pioneer Valley	Chicopee	CHICOPEE- HUGH SCOTT STREIBER ELEMENTARY SCHOOL IMPROVEMENTS (SRTS)	2	TAP	\$1,383,724	\$1,106,979	\$276,745
Roadway Reconstruction	612080	Pioneer Valley	Springfield	SPRINGFIELD- REBECCA M. JOHNSON ELEMENTARY SCHOOL IMPROVEMENTS (SRTS)	2	TAP	\$610,437	\$488,350	\$122,087
Section 2C / State Prioritized Expansion Projects							\$4,974,699	\$3,979,759	\$994,940
Bicycle and Pedestrian	608413	Pioneer Valley	Northampton	NORTHAMPTON- ROCKY HILL GREENWAY MULTI-USE TRAIL, FROM THE MANHAN RAIL TRAIL TO ROCKY HILL ROAD (0.4 MILES)	2	CMAQ	\$1,918,701	\$1,534,961	\$383,740
Bicycle and Pedestrian	610657	Pioneer Valley	Multiple	EASTHAMPTON- NORTHAMPTON- INSTALLATION OF A SHARED-USE PATH ALONG MOUNT TOM ROAD FROM THE MANHAN TRAIL TO ATWOOD DRIVE	2	STBG	\$3,055,998	\$2,444,798	\$611,200

Table 21: Federally Funded Projects Year 2026

Program	MassDOT Project ID	MPO	Municipality	MassDOT Project Description	District	Funding Source	Total Programmed Funds	Federal Funds	Non-Federal Funds	
Federal Fiscal Year 2026										
Section 1A / Regionally Prioritized Projects							\$22,487,591	\$17,990,073	\$4,497,518	
Roadway Reconstruction	608785	Pioneer Valley	South Hadley	SOUTH HADLEY- RECONSTRUCTION OF MAIN STREET FROM THE CHICOPEE CITY LINE TO CANAL STREET (0.67 MILES)	2	STBG	\$6,302,085	\$5,041,668	\$1,260,417	
Roadway Reconstruction	609061	Pioneer Valley	Chicopee	CHICOPEE- INTERSECTION IMPROVEMENTS AT MONTGOMERY STREET, GRANBY ROAD, AND MCKINSTRY AVENUE	2	STBG	\$10,264,718	\$8,211,774	\$2,052,944	
Roadway Reconstruction	609065	Pioneer Valley	Holyoke	HOLYOKE- RESURFACING AND RELATED WORK ON CABOT STREET AND RACE STREET (CENTER CITY CONNECTOR)	2	STBG	\$5,920,788	\$4,736,630	\$1,184,158	
							STBG Programmed	\$22,487,591	\$17,990,073	\$4,497,518
							Total Programmed for Pioneer Valley Region Projects*	\$22,487,591	\$17,990,073	\$4,497,518
							Program Target for Pioneer Valley Region Projects	\$26,432,171	\$21,145,737	\$5,286,434
							Target Funds Available for Pioneer Valley Region Projects	\$3,944,580	\$3,155,664	\$788,916
Section 2A / State Prioritized Reliability Projects							\$772,896	\$695,606	\$77,290	
Safety Improvements	611953	Pioneer Valley	Multiple	SPRINGFIELD- CHICOPEE- GUIDE AND TRAFFIC SIGN REPLACEMENT ON A SECTION OF INTERSTATE 291	2	HSIP	\$772,896	\$695,606	\$77,290	
Pioneer Valley Region Total Program Summary							\$278,457,353	\$224,370,318	\$54,087,035	

Table 22: Universe of Projects and TEC Scores

2022-2026	Municipality	SID	Project Name and Description	Design	TEC Score	TEC Rank	Cost Estimate
2022/2023	West Springfield	608374	RECONSTRUCTION OF MEMORIAL AVENUE (ROUTE 147), FROM COLONY ROAD TO THE MEMORIAL AVENUE ROTARY (1.4 MILES)	75	72.5	2	\$ 21,692,328
2022	Easthampton	608577	EASTHAMPTON- IMPROVEMENTS AND RELATED WORK ON UNION STREET (ROUTE 141) FROM PAYSON AVENUE TO HIGH STREET (0.36 MILES)	75	62.5	5	\$ 3,624,561
2023 SW	Holyoke / West Springfield	604209	REHABILITATION OF ROUTE 5 (RIVERDALE ROAD), FROM I-91 (INTERCHANGE 13) TO MAIN STREET IN HOLYOKE & FROM ELM STREET TO NORTH ELM STREET IN WEST SPRINGFIELD (3.2 MILES)	75	59	6	\$ 25,319,402
2023	Granby	606895	GRANBY- IMPROVEMENTS @ 2 LOCATIONS ON ROUTE 202: SCHOOL STREET & FIVE CORNERS	75	43.0	11	\$ 3,252,569
2024	Worthington	609287	ROUTE 143 RECONSTRUCTION (PHASE II) PERU TOWN LINE TO COLD STREET	75	40.0	13	\$ 10,380,031
2023	Wales	608163	WALES- RECONSTRUCTION & IMPROVEMENTS ON MONSON ROAD, FROM THE MONSON T.L. TO REED HILL ROAD (1.5 MILES)	75	39.5	14	\$ 5,438,563
2023 SW	Springfield	608560	IMPROVEMENTS ON ST. JAMES AVENUE AT TAPLEY STREET	25	NA		\$ 2,395,005
2023 SW	Springfield	608565	IMPROVEMENTS ON ST. JAMES AVENUE AT ST. JAMES BOULEVARD AND CAREW STREET	25	NA		\$ 4,450,992
2024	Springfield	608717	SPRINGFIELD- RECONSTRUCTION OF SUMNER AVENUE AT DICKINSON STREET AND BELMONT AVENUE (THE "X")	25	71.0	3	\$ 10,927,677
2022 STP / SW CMAQ	Holyoke	606450	HOLYOKE- TRAFFIC SIGNAL UPGRADES AT 15 INTERSECTIONS ALONG HIGH & MAPLE STREETS (Total cost is \$10,755,401 - \$5,425,894)	25	66.0	4	\$ 5,329,507
2025	Longmeadow / Springfield	608881	RESURFACING AND INTERSECTION IMPROVEMENTS ON LONGMEADOW STREET (ROUTE 5) AND CONVERSE STREET (0.84 MILES)	25	59.0	6	\$ 6,030,749
2026	Holyoke	609065	HOLYOKE- RESURFACING AND RELATED WORK ON CABOT STREET AND RACE STREET (CENTER CITY CONNECTOR)	25	56.5	7	\$ 5,104,128
2026	Chicopee	609061	CHICOPEE - INTERSECTION RECONSTRUCTION, MONTGOMERY ROAD AT GRANBY ROAD AND MCKINSTRY AVENUE, AND MONTGOMERY ROAD AT TURNPIKE ACCESS ROAD	25	56.0	8	\$ 8,848,895
	Longmeadow	607430	RESURFACING & RELATED WORK ON LONGMEADOW STREET (ROUTE 5), FROM THE CT S.L. TO CONVERSE STREET (2.88 MILES)	25	47.0	9	\$ 10,515,417

Table 21: Universe of Projects and TEC Scores (Continued)

2024 SW	Wilbraham	608489	WILBRAHAM- RESURFACING AND RELATED WORK ON ROUTE 20	25	42.5	12	\$ 28,635,835
2026	South Hadley	608785	SOUTH HADLEY- RECONSTRUCTION OF MAIN STREET FROM THE CHICOPEE CITY LINE TO CANAL STREET (0.67 MILES)	25	38.5	16	\$ 5,432,832
	Williamsburg	607231	RECONSTRUCTION OF MOUNTAIN STREET	25	34.5	18	\$ 12,497,537
	Granville	608736	GRANVILLE- RECONSTRUCTION OF ROUTE 57	25	34.0	19	\$
	Southampton	604653	REHABILITATION OF EAST STREET - FROM COLLEGE HIGHWAY EASTERLY TO COUNTY ROAD (2.6 MILES)	25	31.5	20	\$ 4,956,200
2025	Northampton	609286	NORTHAMPTON- DOWNTOWN COMPLETE STREETS CORRIDOR AND INTERSECTION IMPROVEMENTS ON MAIN STREET (ROUTE 9)	0	80	1	\$ 14,338,858
	Amherst / Pelham	609051	RESURFACING AND RELATED WORK ON BELCHERTOWN ROAD (ROUTE 9) FROM SOUTH EAST STREET TO THE BELCHERTOWN T.L. (2.1 MILES)	0	31.5	20	\$ 7,055,628
2025 SW	Westfield	608487	WESTFIELD- RESURFACING AND RELATED WORK ON ROUTE 10 AND 202	0	32	20	\$ 8,475,109
	Granby	608466	GRANBY- RESURFACING AND RELATED WORK ON ROUTE 202 FROM KENDALL STREET TO SCHOOL STREET	0	30	21	\$ 4,638,760
	Easthampton	608423	EASTHAMPTON- IMPROVEMENTS AND RELATED WORK ON ROUTE 10, FROM WEST STREET TO THE NORTHAMPTON TOWN LINE	0	29.5	22	\$ 5,758,750
2025	Holland	608727	HOLLAND- RESURFACING & RELATED WORK ON BRIMFIELD ROAD, FROM WALES ROAD TO STURBRIDGE STREET (0.9 MILES - PHASE II)	0	27.5	23	\$ 1,051,476
	Goshen	602888	ROUTE 9 RECONSTRUCTION	0	25.0	25	\$ 8,526,000
	Palmer	601504	RECONSTRUCTION OF ROUTE 32, FROM 765 FT. SOUTH OF STIMSON STREET TO 1/2 MILES SOUTH OF RIVER STREET (PHASE I) (1.63 MILES)	0	23.0	26	\$ 6,134,080
	Southwick	604155	SOUTHWICK- RESURFACING & RELATED WORK ON ROUTE 10/202, COLLEGE HIGHWAY (NORTHERLY SECTION) FROM THE WESTFIELD T.L. TO TANNERY ROAD (1.33 MILES)	0	19.5	27	\$ 3,600,000
	Chesterfield	608886	RECONSTRUCTION OF NORTH ROAD AND DAMON POND ROAD	0	16.5	28	\$ 4,441,000
2024	Cumington	606797	ROUTE 9 RETAINING WALL	0	9.0	30	\$ 1,660,000
							\$ 240,511,889
							\$ 154,831,917
							\$ 82,528,193
							\$ 299,544,328

Table 21: Universe of Projects and TEC Scores – Bicycle and Pedestrian Projects

2022-2026	Municipality	SID	Project Name and Description	Design	TEC Score	TEC Rank	Cost Estimate
2025 SW	Northampton	608413	NORTHAMPTON- ROCKY HILL GREENWAY MULTI-USE TRAIL, FROM THE MANHATTAN RAIL TRAIL TO ROCKY HILL ROAD (0.4 MILES)	100	38.5	15	\$ 1,713,126
	Westfield	608073	WESTFIELD- WESTFIELD RIVER LEVEE MULTI-USE PATH CONSTRUCTION, FROM CONGRESS STREET TO WILLIAMS RIDING WAY (NEAR MEADOW STREET) (2 MILES)	75	37	17	\$ 5,314,431
2022 SW	Amherst / Belchertown	608719	AMHERST- BELCHERTOWN- NORWOTTUCK RAIL TRAIL RESURFACING, FROM STATION ROAD IN AMHERST TO WARREN WRIGHT ROAD IN BELCHERTOWN (1.5 MILES)	25	13	29	\$ 1,358,834
2025 SW	Easthampton / Northampton	610657	EASTHAMPTON- NORTHAMPTON- INSTALLATION OF A SHARED-USE PATH ALONG MOUNT TOM ROAD FROM THE MANHATTAN TRAIL TO A TWOOD DRIVE	0	44.0	10	\$ 2,728,570
	Westfield	610536	WESTFIELD- PEDESTRIAN AND BICYCLE IMPROVEMENTS ON MAIN STREET (ROUTE 20)	0	44.0	10	\$ 2,541,400
2023 SW	Springfield	608157	SPRINGFIELD- MCKNIGHT COMMUNITY TRAIL CONSTRUCTION, FROM ARMORY STREET TO HAYDEN AVENUE (1.5 MILES)	0	42.5	12	\$ 8,411,860
	Williamsburg	608787	WILLIAMSBURG- CONSTRUCTION OF THE "MILL RIVER GREENWAY" SHARED USE PATH	0	31.5	20	\$ 23,938,754
	Springfield	610664	SPRINGFIELD- RECONSTRUCTION OF BIRNIE AVENUE AT GERENA SCHOOL PEDESTRIAN TUNNEL. (Total Project Cost \$2+ million, City to cover remaining balance)	0	26.0	24	\$ 1,206,348
	Southampton	607823	SOUTHAMPTON- GREENWAY RAIL TRAIL CONSTRUCTION, FROM COLEMAN ROAD TO ROUTE 10 (3.5 MILES)	0	19.5	27	\$ 6,080,722

Projects listed in the Universe of Projects but not programmed in the TIP are shown for informational purposes. If additional funds become available unprogrammed projects from this list could be added, if the selected project would be ready for advertisement in that program year

V. Transit Project Listing for FFY 2022 - 2026

The following is a complete listing of programmed transit projects for FFY 2022 - 2026

Table 23 FFY 2022 Transit Project Information

FTA Program	Project Number	Transit Agency	FTA Activity Line Item	Project Description	Carryover (unobligated)	Federal Funds	State Funds	TDC	Local Funds	Total Cost
5307										
5307	RTD0010233	Pioneer Valley Transit Authority	114402	Pioneer Valley Transit Authority / REHAB/RENOVATE - MAINTENANCE FACILITY - Northampton Bus Maintenance Facility Generator Replace		\$260,000	\$65,000	\$0	\$0	\$325,000
5307	RTD0010231	Pioneer Valley Transit Authority	114405	Pioneer Valley Transit Authority / REHAB/RENOVATE - YARDS AND SHOPS - Install new exterior lighting at Northampton Bus Maintenance Facility		\$96,000	\$24,000	\$0	\$0	\$120,000
5307	RTD0009835	Pioneer Valley Transit Authority	442301	Pioneer Valley Transit Authority / LONGTERM TRANS PLAN - SYSTEM LEVEL		\$196,000	\$49,000	\$0	\$0	\$245,000
5307	RTD0009864	Pioneer Valley Transit Authority	114402	Pioneer Valley Transit Authority / Main Street Paratransit O&M Facility - Yr 4 - Replace Generator w/ electrical upgrades		\$224,000	\$56,000	\$0	\$0	\$280,000
5307	RTD0009870	Pioneer Valley Transit Authority	116100	Pioneer Valley Transit Authority / ENGINEERING & DESIGN Cottage St at Robbins Road		\$32,000	\$8,000	\$0	\$0	\$40,000
5307	RTD0009827	Pioneer Valley Transit Authority	111202	Pioneer Valley Transit Authority / Replace 35' Buses (6)		\$2,471,542	\$31,811	\$462,497	\$0	\$2,503,353
5307	RTD0008751	Pioneer Valley Transit Authority	119406	Pioneer Valley Transit Authority / Bike Access for shelters and Buses		\$5,600	\$1,400	\$0	\$0	\$7,000
5307	RTD0009830	Pioneer Valley Transit Authority	119402	Pioneer Valley Transit Authority / Purchase Shelters and shelter accessories		\$52,000	\$13,000	\$0	\$0	\$65,000
5307	RTD0009833	Pioneer Valley Transit Authority	117A00	Pioneer Valley Transit Authority/Preventive Maintenance		\$3,178,384	\$794,596	\$0	\$0	\$3,972,980
5307	RTD0010230	Pioneer Valley Transit Authority	114406	Pioneer Valley Transit Authority / REHAB/RENOVATE - SHOP EQUIPMENT - Replace Fluid Pumps Dispenser System		\$72,000	\$18,000	\$0	\$0	\$90,000
5307	RTD0009865	Pioneer Valley Transit Authority	114211	Pioneer Valley Transit Authority / Purchase replacement support vehicles (2)		\$55,090	\$13,773	\$0	\$0	\$68,863
5307	RTD0010234	Pioneer Valley Transit Authority	114402	Pioneer Valley Transit Authority / REHAB/RENOVATE - MAINTENANCE FACILITY Umass O&M Facility Generator replacement		\$300,000	\$75,000	\$0	\$0	\$375,000

Table 22 FFY 2022 Transit Project Information (Continued)

5307	RTD0009868	Pioneer Valley Transit Authority	111401	Pioneer Valley Transit Authority / REHAB/REBUILD 40-FT BUS (6)	\$1,282,879	\$320,720	\$0	\$0	\$1,603,599
5307	RTD0009848	Pioneer Valley Transit Authority	114406	Pioneer Valley Transit Authority / Purchase shop equipment	\$80,000	\$20,000	\$0	\$0	\$100,000
5307	RTD0009828	Pioneer Valley Transit Authority	114411	Pioneer Valley Transit Authority / Replace Supervisory Vehicles (2)	\$43,200	\$10,800	\$0	\$0	\$54,000
5307	RTD0009831	Pioneer Valley Transit Authority	119408	Pioneer Valley Transit Authority / Signage & Lighting	\$8,854	\$1,634	\$0	\$0	\$10,488
5307	RTD0010232	Pioneer Valley Transit Authority	114404	Pioneer Valley Transit Authority / REHAB/RENOVATE - STORAGE FACILITY - Umass Bus O&M Facility New lighting in Service and Storage	\$96,000	\$24,000	\$0	\$0	\$120,000
5307	RTD0009834	Pioneer Valley Transit Authority	117C00	Pioneer Valley Transit Authority / NON FIXED ROUTE ADA PARA SERV	\$928,055	\$232,014	\$0	\$0	\$1,160,069
5307	RTD0010229	Pioneer Valley Transit Authority	117A00	Pioneer Valley Transit Authority / PREVENTIVE MAINTENANCE - PVTA Facilities State of Good Repair	\$16,000	\$4,000	\$0	\$0	\$20,000
5307	RTD0009826	Pioneer Valley Transit Authority	111201	Pioneer Valley Transit Authority / Purchase 40' Replacement Buses (6)	\$1,758,589	\$812,944	\$0	\$0	\$2,571,533
5307	RTD0010235	Pioneer Valley Transit Authority	114401	Pioneer Valley Transit Authority / REHAB/RENOVATE - ADMINISTRATIVE FACILITY - Carpet Replacement / Floor Repairs at the Admin/Main Street Building	\$48,000	\$12,000	\$0	\$0	\$60,000
5307	RTD0009869	Pioneer Valley Transit Authority	111402	Pioneer Valley Transit Authority / REHAB/REBUILD 35-FT BUS (4)	\$690,453	\$172,613	\$0	\$0	\$863,066
5307	RTD0009829	Pioneer Valley Transit Authority	114402	Pioneer Valley Transit Authority / Environmental Compliance	\$16,000	\$4,000	\$0	\$0	\$20,000
5307	RTD0009832	Pioneer Valley Transit Authority	116202	Pioneer Valley Transit Authority / Information Technology Systems	\$1,212,687	\$1,212,687	\$0	\$0	\$2,425,374
Subtotal					\$13,123,333	\$3,976,992	\$462,497	\$0	\$17,100,325

Table 22 FFY 2022 Transit Project Information (Continued)

5309					Subtotal	\$0	\$0	\$0	\$0	\$0
5310					Subtotal	\$0	\$0	\$0	\$0	\$0
5311					Subtotal	\$0	\$0	\$0	\$0	\$0
5337					Subtotal	\$0	\$0	\$0	\$0	\$0
5339										
	5339	RTD0010347	Pioneer Valley Transit Authority	111201	BUY REPLACEMENT 40-FT BUS	\$488,396	\$97,679	\$0	\$0	\$586,075
	5339	RTD0010349	Pioneer Valley Transit Authority	111202	BUY REPLACEMENT 35-FT BUS	\$488,396	\$97,679	\$0	\$0	\$586,075
					Subtotal	\$976,792	\$195,358	\$0	\$0	\$1,172,150
5320					Subtotal	\$0	\$0	\$0	\$0	\$0
Other Federal					Subtotal	\$0	\$0	\$0	\$0	\$0
Other Non-Federal										
Other Non-Federal	RTD0009867	Pioneer Valley Transit Authority	111202	Pioneer Valley Transit Authority / BUY REPLACEMENT 35-FT BUS - Electric (4) (VW mitigation)		\$0	\$0	\$0	\$3,672,134	\$3,672,134
Other Non-Federal	RTD0009866	Pioneer Valley Transit Authority	111201	Pioneer Valley Transit Authority / BUY REPLACEMENT 40-FT BUS - Electric (4) (VW Mitigation)		\$0	\$0	\$0	\$3,826,159	\$3,826,159
					Subtotal	\$0	\$0	\$0	\$7,498,293	\$7,498,293
					Total	\$14,100,125	\$4,172,350	\$462,497	\$7,498,293	\$25,770,768

Table 24 FFY 2023 Transit Project Information

FTA Program	Project Number	Transit Agency	FTA Activity Line Item	Project Description	Carryover (unobligated)	Federal Funds	State Funds	TDC	Local Funds	Total Cost
5307										
5307	RTD0009837	Pioneer Valley Transit Authority	111201	Pioneer Valley Transit Authority / Purchase 40' Replacement Buses (7)	2022 - \$2,547,118	\$2,547,118	\$509,424	\$0	\$0	\$3,056,542
5307	RTD0009838	Pioneer Valley Transit Authority	111202	Pioneer Valley Transit Authority / Purchase 35' Replacement Buses (5)	2022 - \$1,633,011	\$1,633,011	\$326,602	\$0	\$0	\$1,959,613
5307	RTD0009843	Pioneer Valley Transit Authority	116220	Pioneer Valley Transit Authority / Information Technology Systems	2022 - \$1,318,237	\$1,318,237	\$1,318,237	\$0	\$0	\$2,636,474
5307	RTD0009845	Pioneer Valley Transit Authority	442400	Pioneer Valley Transit Authority / Transporation planning	2022 - \$196,000	\$196,000	\$49,000	\$0	\$0	\$245,000
5307	RTD0009846	Pioneer Valley Transit Authority	117C00	Pioneer Valley Transit Authority / Partransit ADA service subsidy	2022 - \$946,616	\$946,616	\$236,654	\$0	\$0	\$1,183,270
5307	RTD0009847	Pioneer Valley Transit Authority	117A00	Pioneer Valley Transit Authority / Preventive Maintenance	2022 - \$3,241,952	\$3,241,952	\$810,488	\$0	\$0	\$4,052,440
5307	RTD0009874	Pioneer Valley Transit Authority	114400	Pioneer Valley Transit Authority / REHAB/RENOVATE BUS SUPPORT FACIL/EQUIP - Holyoke ITC Fuel and fluid UST and AST Removal	2016 - \$29,482; 2022 - \$82,518	\$112,000	\$28,000	\$0	\$0	\$140,000
5307	RTD0009875	Pioneer Valley Transit Authority	114406	Pioneer Valley Transit Authority / REHAB/RENOVATE - SHOP EQUIPMENT	2022 - \$120,000	\$120,000	\$30,000	\$0	\$0	\$150,000
5307	RTD0009840	Pioneer Valley Transit Authority	119302	Pioneer Valley Transit Authority / Purchase Bus Shelters, benches, trash receptacles,etc.	2018 - \$21,966	\$21,966	\$5,491	\$0	\$0	\$27,457
5307	RTD0009842	Pioneer Valley Transit Authority	119308	Pioneer Valley Transit Authority / Purchase & Replace signage and lighting	2015 - \$75,430	\$75,430	\$18,858	\$0	\$0	\$94,288
5307	RTD0009873	Pioneer Valley Transit Authority	111401	Pioneer Valley Transit Authority / REHAB/REBUILD 40-FT BUS (8)	2022 - \$1,451,559	\$1,451,559	\$750,716	\$0	\$0	\$2,202,275
5307	RTD0008771	Pioneer Valley Transit Authority	114402	Pioneer Valley Transit Authority / UMass O&M Facility MEP upgrades, restrooms, administration	2022 - \$288,000	\$288,000	\$72,000	\$0	\$0	\$360,000

Table 23 FFY 2023 Transit Project (Continued)

5307	RTD0010236	Pioneer Valley Transit Authority	111406	Pioneer Valley Transit Authority / REHAB/REBUILD 60' ARTICULATED BUS (2)	2022 - \$445,578	\$445,578	\$297,052	\$0	\$0	\$742,630
5307	RTD0010238	Pioneer Valley Transit Authority	114211	Pioneer Valley Transit Authority / ACQUIRE - SUPPORT VEHICLES (2)	2022 - \$52,000	\$52,000	\$13,000	\$0	\$0	\$65,000
5307	RTD0010237	Pioneer Valley Transit Authority	111204	Pioneer Valley Transit Authority / BUY REPLACEMENT <30 FT BUS (2) Type D Shuttle buses	2022 - \$125,600	\$125,600	\$31,400	\$0	\$0	\$157,000
5307	RTD0010239	Pioneer Valley Transit Authority	114211	Pioneer Valley Transit Authority / ACQUIRE - SUPPORT VEHICLES (2) Supervisory Vehicles	2022 - \$43,200	\$43,200	\$10,800	\$0	\$0	\$54,000
5307	RTD0010241	Pioneer Valley Transit Authority	117A00	Pioneer Valley Transit Authority / PREVENTIVE MAINTENANCE - State of Good Repair	2022 - \$16,000	\$16,000	\$4,000	\$0	\$0	\$20,000
5307	RTD0010242	Pioneer Valley Transit Authority	114401	Pioneer Valley Transit Authority / REHAB/RENOVATE - ADMINISTRATIVE FACILITY - Rehab Paratransit offices	2022 - \$400,000	\$400,000	\$100,000	\$0	\$0	\$500,000
5307	RTD0010243	Pioneer Valley Transit Authority	116100	Pioneer Valley Transit Authority / ENGINEERING & DESIGN - Robbins Road Construction Administration	2022 - \$100,000	\$100,000	\$25,000	\$0	\$0	\$125,000
					Subtotal	\$13,134,267	\$4,636,722	\$0	\$0	\$17,770,989
5309					Subtotal	\$0	\$0	\$0	\$0	\$0
5310					Subtotal	\$0	\$0	\$0	\$0	\$0
5311					Subtotal	\$0	\$0	\$0	\$0	\$0
5337					Subtotal	\$0	\$0	\$0	\$0	\$0

Table 23 FFY 2023 Transit Project (Continued)

5339											
5339	RTD0009844	Pioneer Valley Transit Authority	114402	Pioneer Valley Transit Authority / Northampton Bus Maintenance Facility rehabs: bathrooms, bays, ceilings, MEP upgrades, IT Room, etc.		\$864,000	\$216,000	\$0	\$0	\$1,080,000	
5339	RTD0010348	Pioneer Valley Transit Authority	111201	BUY REPLACEMENT 40-FT BUS	2022 - \$488,396	\$488,396	\$97,679	\$0	\$0	\$586,075	
						Subtotal	\$1,352,396	\$313,679	\$0	\$0	\$1,666,075
5320											
						Subtotal	\$0	\$0	\$0	\$0	\$0
Other Federal											
						Subtotal	\$0	\$0	\$0	\$0	\$0
Other Non-Federal											
Other Non-Federal	RTD0009871	Pioneer Valley Transit Authority	111201	Pioneer Valley Transit Authority / BUY REPLACEMENT 40-FT BUS - Electric (4) (LOCAL should be VW Mitigation)		\$0	\$0	\$0	\$3,940,943	\$3,940,943	
Other Non-Federal	RTD0009872	Pioneer Valley Transit Authority	111202	Pioneer Valley Transit Authority / BUY REPLACEMENT 35-FT BUS - Electric (4) (LOCAL should be VW Mitigation)		\$0	\$0	\$0	\$3,782,298	\$3,782,298	
						Subtotal	\$0	\$0	\$0	\$7,723,241	\$7,723,241
						Total	\$14,486,663	\$4,950,401	\$0	\$7,723,241	\$27,160,305

Table 25 FFY 2024 Transit Project Information

FTA Program	Project Number	Transit Agency	FTA Activity Line Item	Project Description	Carryover (unobligated)	Federal Funds	State Funds	TDC	Local Funds	Total Cost
5307										
5307	RTD0009852	Pioneer Valley Transit Authority	119202	Pioneer Valley Transit Authority / PURCHASE BUS SHELTERS	2023 - \$60,000	\$60,000	\$15,000	\$0	\$0	\$75,000
5307	RTD0009853	Pioneer Valley Transit Authority	119208	Pioneer Valley Transit Authority / Signage and Lighting	2023 - \$16,000	\$16,000	\$4,000	\$0	\$0	\$20,000
5307	RTD0009854	Pioneer Valley Transit Authority	119206	Pioneer Valley Transit Authority / Bike access Equipment	2023 - \$5,600	\$5,600	\$1,400	\$0	\$0	\$7,000
5307	RTD0009855	Pioneer Valley Transit Authority	114220	Pioneer Valley Transit Authority / Information Technology Systems	2023 - \$1,318,237	\$1,318,237	\$1,318,237	\$0	\$0	\$2,636,474
5307	RTD0009857	Pioneer Valley Transit Authority	114402	Pioneer Valley Transit Authority / Umass Bus Maintenance Facility - Upgrade Bus Bay Doors	2023 - \$220,000	\$220,000	\$55,000	\$0	\$0	\$275,000
5307	RTD0009858	Pioneer Valley Transit Authority	114400	Pioneer Valley Transit Authority / Holyoke ITC-Bus Bay Canopy/Pavement Upgrades	2023 - \$480,000	\$480,000	\$120,000	\$0	\$0	\$600,000
5307	RTD0009859	Pioneer Valley Transit Authority	114406	Pioneer Valley Transit Authority / Purchase Shop Equipment - All Garages	2023 - \$96,000	\$96,000	\$24,000	\$0	\$0	\$120,000
5307	RTD0009861	Pioneer Valley Transit Authority	300900	Pioneer Valley Transit Authority / ADA Operating Assistance	2023 - \$965,548	\$965,548	\$241,387	\$0	\$0	\$1,206,935
5307	RTD0010245	Pioneer Valley Transit Authority	111202	Pioneer Valley Transit Authority / BUY REPLACEMENT 35-FT BUS (6)	2023 - \$2,622,059	\$2,622,059	\$655,515	\$0	\$0	\$3,277,574
5307	RTD0010248	Pioneer Valley Transit Authority	111401	Pioneer Valley Transit Authority / REHAB/REBUILD 40-FT BUS (7)	2023 - \$1,190,881	\$1,190,881	\$793,920	\$0	\$0	\$1,984,801
5307	RTD0010249	Pioneer Valley Transit Authority	111204	Pioneer Valley Transit Authority / BUY REPLACEMENT <30 FT BUS (2) Type D Shuttle Bus	2023 - \$128,000	\$128,000	\$32,000	\$0	\$0	\$160,000
5307	RTD0010250	Pioneer Valley Transit Authority	114211	Pioneer Valley Transit Authority / ACQUIRE - SUPPORT VEHICLES (2)	2023 - \$53,600	\$53,600	\$13,400	\$0	\$0	\$67,000
5307	RTD0010252	Pioneer Valley Transit Authority	114211	Pioneer Valley Transit Authority / ACQUIRE - SUPPORT VEHICLES (2) Supervisory Vehicle	2023 - \$44,000	\$44,000	\$11,000	\$0	\$0	\$55,000
5307	RTD0010254	Pioneer Valley Transit Authority	117A00	Pioneer Valley Transit Authority / PREVENTIVE MAINTENANCE - State of Good Repair	2023 - \$12,000	\$12,000	\$3,000	\$0	\$0	\$15,000

Table 24 FFY 2024 Transit Project Information (Continued)

5307	RTD0010262	Pioneer Valley Transit Authority	114404	Pioneer Valley Transit Authority / REHAB/RENOVATE - STORAGE FACILITY	2023 - \$280,000	\$280,000	\$70,000	\$0	\$0	\$350,000
5307	RTD0010263	Pioneer Valley Transit Authority	114401	Main Street Paratransit O&M Pioneer Valley Transit Authority / REHAB/RENOVATE - ADMINISTRATIVE FACILITY Main Street HVAC Replacement	2023 - \$360,000	\$360,000	\$90,000	\$0	\$0	\$450,000
5307	RTD0010264	Pioneer Valley Transit Authority	442400	Pioneer Valley Transit Authority / SHORT RANGE TRANSIT PLANNING	2023 - \$200,000	\$200,000	\$50,000	\$0	\$0	\$250,000
5307	RTD0010267	Pioneer Valley Transit Authority	117A00	Pioneer Valley Transit Authority / PREVENTIVE MAINTENANCE	2023 - \$3,306,791	\$3,306,791	\$826,698	\$0	\$0	\$4,133,489
5307	RTD0009851	Pioneer Valley Transit Authority	111201	Pioneer Valley Transit Authority / Replacement 40' Bus (4)	2023 - \$1,786,617	\$1,786,617	\$446,654	\$0	\$0	\$2,233,271
Subtotal						\$13,145,333	\$4,771,211	\$0	\$0	\$17,916,544
5309						Subtotal	\$0	\$0	\$0	\$0
5310						Subtotal	\$0	\$0	\$0	\$0
5311						Subtotal	\$0	\$0	\$0	\$0
5337						Subtotal	\$0	\$0	\$0	\$0
5339						Subtotal	\$0	\$0	\$0	\$0
5339	RTD0009856	Pioneer Valley Transit Authority	114403	Pioneer Valley Transit Authority / Rehab Northampton Maint Facility, Year 4		\$2,016,000	\$504,000	\$0	\$0	\$2,520,000
5339	RTD0010261	Pioneer Valley Transit Authority	114402	Pioneer Valley Transit Authority / REHAB/RENOVATE - MAINTENANCE FACILITY - Main Street O&M Facility		\$1,600,000	\$400,000	\$0	\$0	\$2,000,000
Subtotal						\$3,616,000	\$904,000	\$0	\$0	\$4,520,000
5320						Subtotal	\$0	\$0	\$0	\$0
Other Federal						Subtotal	\$0	\$0	\$0	\$0

Table 24 FFY 2024 Transit Project Information (Continued)

-Federal									
RTD0010246	Pioneer Valley Transit Authority	111201	Pioneer Valley Planning Commission / BUY REPLACEMENT 40-FT BUS (7) - Electric Buses with VW Mitigation Funds		\$0	\$0	\$0	\$7,103,550	\$7,103,550
RTD0010247	Pioneer Valley Transit Authority	111202	Pioneer Valley Transit Authority / BUY REPLACEMENT 35-FT BUS (1)		\$0	\$0	\$0	\$976,792	\$976,792
				Subtotal	\$0	\$0	\$0	\$8,080,342	\$8,080,342
				Total	\$16,761,333	\$5,675,211	\$0	\$8,080,342	\$30,516,886

Table 26 FFY 2025 Transit Project Information

FTA Program	Project Number	Transit Agency	FTA Activity Line Item	Project Description	Carryover (unobligated)	Federal Funds	State Funds	TDC	Local Funds	Total Cost
5307										
5307	RTD0009880	Pioneer Valley Transit Authority	111401	Pioneer Valley Transit Authority / REHAB/REBUILD 40-FT BUS (7)	2024 - \$1,431,041	\$1,431,041	\$613,303	\$0	\$0	\$2,044,344
5307	RTD0009881	Pioneer Valley Transit Authority	111402	Pioneer Valley Transit Authority / REHAB/REBUILD 35-FT BUS (5)	2024 - \$825,208	\$825,208	\$353,661	\$0	\$0	\$1,178,869
5307	RTD0009882	Pioneer Valley Transit Authority	114406	Pioneer valley Transit Authority / REHAB/RENOVATE - SHOP EQUIPMENT	2024 - \$120,000	\$120,000	\$30,000	\$0	\$0	\$150,000
5307	RTD0009883	Pioneer Valley Transit Authority	114402	Pioneer Valley Transit Authority / REHAB/RENOVATE - MAINTENANCE FACILITY - Environmental Compliance	2024 - \$4,000	\$4,000	\$1,000	\$0	\$0	\$5,000
5307	RTD0009884	Pioneer Valley Transit Authority	119408	Pioneer Valley Transit Authority / REHAB/RENOV SIGNAGE	2024 - \$16,000	\$16,000	\$4,000	\$0	\$0	\$20,000
5307	RTD0009885	Pioneer Valley Transit Authority	119406	Pioneer Valley Transit Authority / REHAB/RENOV BICYCLE ACCESS, FACIL & EQUIP ON BUSES	2024 - \$5,600	\$5,600	\$1,400	\$0	\$0	\$7,000
5307	RTD0009886	Pioneer Valley Transit Authority	119402	Pioneer Valley Transit Authority / BUS SHELTERS	2024 - \$60,000	\$60,000	\$15,000	\$0	\$0	\$75,000
5307	RTD0009887	Pioneer Valley Transit Authority	114402	Pioneer Valley Transit Authority / REHAB/RENOVATE - MAINTENANCE FACILITY - Corewall building	2024 - \$80,000	\$80,000	\$20,000	\$0	\$0	\$100,000
5307	RTD0009888	Pioneer Valley Transit Authority	114402	Pioneer Valley Transit Authority / REHAB/RENOVATE - MAINTENANCE FACILITY - UMass AC Install	2024 - \$200,000	\$200,000	\$50,000	\$0	\$0	\$250,000
5307	RTD0009889	Pioneer Valley Transit Authority	114402	Pioneer Valley Transit Authority / REHAB/RENOVATE - MAINTENANCE FACILITY HITC Paint Interior structural steal	2024 - \$360,000	\$360,000	\$90,000	\$0	\$0	\$450,000
5307	RTD0009891	Pioneer Valley Transit Authority	440000	Pioneer Valley Transit Authority / PLANNING	2024 - \$200,000	\$200,000	\$50,000	\$0	\$0	\$250,000
5307	RTD0009892	Pioneer Valley Transit Authority	300900	Pioneer Valley Transit Authority / ADA OPERATING ASSISTANCE	2024 - \$984,859	\$984,859	\$246,215	\$0	\$0	\$1,231,074
5307	RTD0009893	Pioneer Valley Transit Authority	117A00	Pioneer Valley Transit Authority / PREVENTIVE MAINTENANCE	2024 - \$3,372,927	\$3,372,927	\$843,232	\$0	\$0	\$4,216,159

Table 25 FFY 2025 Transit Project Information (Continued)

5307	RTD0009894	Pioneer Valley Transit Authority	116202	Pioneer Valley Transit Authority / PURCHASE COMMUNICATIONS SYSTEM - ITS	2024 - \$1,194,369	\$1,194,369	\$1,194,369	\$0	\$0	\$2,388,738
5307	RTD0009895	Pioneer Valley Transit Authority	111201	Pioneer Valley Transit Authority / BUY REPLACEMENT 40-FT BUS (11)	2024 - \$4,064,263	\$4,064,263	\$812,853	\$0	\$0	\$4,877,116
5307	RTD0010270	Pioneer Valley Transit Authority	114211	Pioneer Transit Authority / ACQUIRE - SUPPORT VEHICLES	2024 - \$53,600	\$53,600	\$13,400	\$0	\$0	\$67,000
5307	RTD0010271	Pioneer Valley Transit Authority	114211	Pioneer Valley Transit Authority / ACQUIRE - Supervisory VEHICLES	2024 - \$11,000; 2024 - \$44,000	\$44,000	\$11,000	\$0	\$0	\$55,000
5307	RTD0010272	Pioneer Valley Transit Authority	117A00	Pioneer Valley Transit Authority / PREVENTIVE MAINTENANCE - State of Good Repair	2024 - \$12,000	\$12,000	\$3,000	\$0	\$0	\$15,000
5307	RTD0010273	Pioneer Valley Transit Authority	114404	Pioneer Valley Transit Authority / REHAB/RENOVATE - STORAGE FACILITY - Paving and access improvements Umass Facility	2024 - \$240,000	\$240,000	\$60,000	\$0	\$0	\$300,000
					Subtotal	\$13,267,867	\$4,412,433	\$0	\$0	\$17,680,300
5309					Subtotal	\$0	\$0	\$0	\$0	\$0
5310					Subtotal	\$0	\$0	\$0	\$0	\$0
5311					Subtotal	\$0	\$0	\$0	\$0	\$0
5337					Subtotal	\$0	\$0	\$0	\$0	\$0
5339										
5339	RTD0010275	Pioneer Valley Transit Authority	114402	Pioneer Valley Transit Authority / REHAB/RENOVATE - MAINTENANCE FACILITY - Lateral Expansion Northampton Maintenance Facility		\$1,008,000	\$252,000	\$0	\$0	\$1,260,000
5339	RTD0010274	Pioneer Valley Transit Authority	114402	Pioneer Valley Transit Authority / REHAB/RENOVATE - MAINTENANCE FACILITY - Lateral Expansion Umass Facility		\$1,184,000	\$296,000	\$0	\$0	\$1,480,000
5339	RTD0010351	Pioneer Valley Transit Authority	111201	BUY REPLACEMENT 40-FT BUS		\$996,328	\$199,266	\$0	\$0	\$1,195,594
					Subtotal	\$3,188,328	\$747,266	\$0	\$0	\$3,935,594

Table 25 FFY 2025 Transit Project Information (Continued)

5320					Subtotal	\$0	\$0	\$0	\$0	\$0
Other Federal					Subtotal	\$0	\$0	\$0	\$0	\$0
Other Non-Federal										
Other Non-Federal	RTD0010268	Pioneer Valley Transit Authority	111201	Pioneer Valley Transit Authority / BUY REPLACEMENT 40-FT BUS (3) - Electric (VW Mitigation Funds)		\$0	\$0	\$0	\$3,135,710	\$3,135,710
					Subtotal	\$0	\$0	\$0	\$3,135,710	\$3,135,710
					Total	\$16,456,195	\$5,159,699	\$0	\$3,135,710	\$24,751,604

Table 27 FFY 2026 Transit Project Information

FTA Program	Project Number	Transit Agency	FTA Activity Line Item	Project Description	Carryover (unobligated)	Federal Funds	State Funds	TDC	Local Funds	Total Cost
5307										
5307	RTD0010277	Pioneer Valley Transit Authority	111206	Pioneer Valley Transit Authority / BUY REPL ARTICULATED BUS (2 - 60ft)	2025 - \$1,600,000	\$1,600,000	\$400,000	\$0	\$0	\$2,000,000
5307	RTD0010278	Pioneer Valley Transit Authority	111201	Pioneer Valley Transit Authority / BUY REPLACEMENT 40-FT BUS (4)	2025 - \$1,895,421	\$1,895,421	\$473,855	\$0	\$0	\$2,369,276
5307	RTD0010279	Pioneer Valley Transit Authority	111202	Pioneer Valley Transit Authority / BUY REPLACEMENT 35-FT BUS	2025 - \$1,301,864	\$1,301,864	\$260,373	\$0	\$0	\$1,562,237
5307	RTD0010281	Pioneer Valley Transit Authority	114406	Pioneer Valley Transit Authority / REHAB/RENOVATE - SHOP EQUIPMENT	2025 - \$120,000	\$120,000	\$30,000	\$0	\$0	\$150,000
5307	RTD0010282	Pioneer Valley Transit Authority	117A00	Pioneer Valley Transit Authority / PREVENTIVE MAINTENANCE - State of Good Repair	2025 - \$12,000	\$12,000	\$3,000	\$0	\$0	\$15,000
5307	RTD0010285	Pioneer Valley Transit Authority	111402	Pioneer Valley Transit Authority REHAB/REBUild Environmental Compliance	2025 - \$4,000	\$4,000	\$1,000	\$0	\$0	\$5,000
5307	RTD0010283	Pioneer Valley Transit Authority	119402	Pioneer Valley Transit Authority / BUS SHELTERS	2025 - \$106,566	\$106,566	\$26,642	\$0	\$0	\$133,208
5307	RTD0010284	Pioneer Valley Transit Authority	119408	Pioneer Valley Transit Authority / REHAB/RENOV SIGNAGE	2025 - \$16,000	\$16,000	\$4,000	\$0	\$0	\$20,000
5307	RTD0010286	Pioneer Valley Transit Authority	119406	Pioneer Valley Transit Authority / REHAB/RENOV BICYCLE ACCESS, FACIL & EQUIP ON BUSES	2025 - \$5,600	\$5,600	\$1,400	\$0	\$0	\$7,000
5307	RTD0010289	Pioneer Valley Transit Authority	114402	Pioneer Valley Transit Authority / REHAB/RENOVATE - MAINTENANCE FACILITY - Holyoke ITC Lower Level Renovations	2025 - \$1,440,000	\$1,440,000	\$360,000	\$0	\$0	\$1,800,000
5307	RTD0010290	Pioneer Valley Transit Authority	113103	Pioneer Valley Transit Authority / TERMINAL, INTERMODAL (TRANSIT) Northampton ITC	2025 - \$400,000	\$400,000	\$100,000	\$0	\$0	\$500,000
5307	RTD0010291	Pioneer Valley Transit Authority	442400	Pioneer Valley Transit Authority / SHORT RANGE TRANSIT PLANNING	2025 - \$204,000	\$204,000	\$51,000	\$0	\$0	\$255,000

Table 26 FFY 2026 Transit Project Information (Continued)

5307	RTD0010292	Pioneer Valley Transit Authority	117C00	Pioneer Valley Transit Authority / NON FIXED ROUTE ADA PARA SERV	2025 - \$1,004,557	\$1,004,557	\$251,139	\$0	\$0	\$1,255,696
5307	RTD0010293	Pioneer Valley Transit Authority	117A00	Pioneer Valley Transit Authority / PREVENTIVE MAINTENANCE	2025 - \$3,440,386	\$3,440,386	\$860,096	\$0	\$0	\$4,300,482
5307	RTD0010294	Pioneer Valley Transit Authority	116202	Pioneer Valley Transit Authority / PURCHASE ITS	2025 - \$1,223,373	\$1,223,373	\$1,223,373	\$0	\$0	\$2,446,746
					Subtotal	\$12,773,767	\$4,045,878	\$0	\$0	\$16,819,645
5309					Subtotal	\$0	\$0	\$0	\$0	\$0
5310					Subtotal	\$0	\$0	\$0	\$0	\$0
5311					Subtotal	\$0	\$0	\$0	\$0	\$0
5337					Subtotal	\$0	\$0	\$0	\$0	\$0
5339					Subtotal	\$0	\$0	\$0	\$0	\$0
5339	RTD0010287	Pioneer Valley Transit Authority	114402	Pioneer Valley Transit Authority / REHAB/RENOVATE - MAINTENANCE FACILITY - Northampton Bus Facility Lateral Expansion		\$2,656,000	\$664,000	\$0	\$0	\$3,320,000
5339	RTD0010288	Pioneer Valley Transit Authority	114402	Pioneer Valley Transit Authority / REHAB/RENOVATE - MAINTENANCE FACILITY - Umass Bus Facility - Lateral Expansion		\$2,352,000	\$588,000	\$0	\$0	\$2,940,000
5339	RTD0010352	Pioneer Valley Transit Authority	111202	BUY REPLACEMENT 35-FT BUS		\$1,016,254	\$203,251	\$0	\$0	\$1,219,505
					Subtotal	\$6,024,254	\$1,455,251	\$0	\$0	\$7,479,505
5320					Subtotal	\$0	\$0	\$0	\$0	\$0
Other Federal					Subtotal	\$0	\$0	\$0	\$0	\$0
Other Non-Federal					Subtotal	\$0	\$0	\$0	\$0	\$0
					Total	\$18,798,021	\$5,501,129	\$0	\$0	\$24,299,150

VI. PROJECT IMPLEMENTATION

The TIP is also used as a management tool for monitoring the progress and implementation of the RTP and previous TIP's. The award status of FFY 2020-2021TIP projects are identified in Table 27.

Table 28 Project Implementation

TIP Year	Project ID	Project	Funding	Total Funds	Status
2020	607502	NORTHAMPTON- INTERSECTION IMPROVEMENTS AT KING STREET, NORTH STREET & SUMMER STREET AND AT KING STREET & FINN STREET	STBG / CMAQ	\$4,066,668	Construction
2020	604434	CHICOPEE- RECONSTRUCTION & RELATED WORK ON FULLER ROAD, FROM MEMORIAL DR (RTE 33) TO SHAWINIGAN DR (2.0 MILES)	STBG / HSIP	\$9,735,424	Construction
2020	608236	NORTHAMPTON- RECONSTRUCTION OF DAMON ROAD, FROM ROUTE 9 TO ROUTE 5, INCLUDES DRAINAGE SYSTEM REPAIRS & SLOPE STABILIZATION AT THE NORWOTTUCK	STBG, TAP	\$11,274,259	Construction
2020	PV0001	NORTHAMPTON, AMHERST, CHICOPPE, EASTHAMPTON, HADLEY, HOLYOKE, SOUTH HADLEY, SPRINGFIELD, and WEST SPRINGFIELD: ValleyBike share (phase II)	STBG	\$1,200,000	Operating
2020	PV0002	P 21 Express Year 3	CMAQ	\$500,000	Operating
2020	608718	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT BERKSHIRE AVENUE, COTTAGE AND HARVEY STREETS	HIP	\$3,154,158	Construction
2020	608631	WESTHAMPTON- BRIDGE REPLACEMENT, W-27-005, KINGS HIGHWAY OVER N BRANCH MANHAN RIVER	STBG-BR-OFF	\$1,937,318	Construction
2020	400103	WESTFIELD- BRIDGE REPLACEMENT, W-25-006, ROUTE 10/202 (SOUTHWICK ROAD) OVER THE LITTLE RIVER	NHPP-On	\$ 13,276,980	Construction
2020	606552	NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I-91 OVER HOCKANUM ROAD	NHPP-On	\$4,671,793	Construction
2020	608575	CHICOPEE TO HOLYOKE- GUIDE AND TRAFFIC SIGN REPLACEMENT ON I-391	HSIP	\$1,861,310	Construction
2020	602911	CHICOPEE- CONNECTICUT RIVERWALK & BIKEWAY CONSTRUCTION, FROM BOAT RAMP NEAR I-90 TO NASH FIELD (2.5 MILES), INCLUDES NEW BRIDGE C-13-060 OVER OVERFLOW CHANNEL	CMAQ	\$ 3,041,445	Construction

TIP Year	SID	Project Description	Funding Source	Programmed Funds	Status
2021	605032	HADLEY- RECONSTRUCTION ON ROUTE 9, FROM MIDDLE STREET TO MAPLE/SOUTH MAPLE STREET	STBG	\$8,793,026	9/11/21 Ad Date
2021	607773	WESTFIELD- IMPROVEMENTS & RELATED WORK ON ROUTE 20, COURT STEET & WESTERN AVENUE, LLOYDS HILL ROAD TO HIGH STREET/MILL STREET INTERSECTION (PHASE II)	STBG, HSIP, TAP	\$8,657,958	Advertised
2021	608084	AMHERST- IMPROVEMENTS & RELATED WORK ON ROUTES 9 & 116, FROM UNIVERSITY DRIVE TO SOUTH PLEASANT STREET (0.8 MILES)	STBG, TAP	\$5,963,144	Advertised
2021	608782	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT COTTAGE STREET, INDUSTRY AVENUE AND ROBBINS ROAD	STBG, CMAQ	\$3,268,656	Advertised
2021	606552	NORTHAMPTON– BRIDGE REPLACEMENT, N-19-059, I-91 OVER US ROUTE 5 AND B&MRR, BRIDGE REPLACEMENT, N-19-060, I-91 OVER HOCKANUM ROAD AND IMPROVEMENTS TO I-91/INTERCHANGE 18	NHPP	\$21,605,777	Construction

VII. Air Quality Conformity Information FFY 2022 - 2026

This section documents the latest air quality conformity determination for the 1997 ozone National Ambient Air Quality Standards (NAAQS) in the Pioneer Valley Region. It covers the applicable conformity requirements according to the latest regulations, regional designation status, legal considerations, and federal guidance. Further details and background information are provided below:

Introduction

The 1990 Clean Air Act Amendments (CAAA) require metropolitan planning organizations within nonattainment and maintenance areas to perform air quality conformity determinations prior to the approval of Long-Range Transportation Plans (LRTPs) and Transportation Improvement Programs (TIPs), and at such other times as required by regulation. Clean Air Act (CAA) section 176(c) (42 U.S.C. 7506(c)) requires that federally funded or approved highway and transit activities are consistent with (“conform to”) the purpose of the State Implementation Plan (SIP). Conformity to the purpose of the SIP means that means Federal Highway Administration (FHWA) and Federal Transit Administration (FTA) funding and approvals are given to highway and transit activities that will not cause or contribute to new air quality violations, worsen existing violations, or delay timely attainment of the relevant NAAQS or any interim milestones (42 U.S.C. 7506(c)(1)). EPA’s transportation conformity rules establish the criteria and procedures for determining whether metropolitan transportation plans, transportation improvement programs (TIPs), and federally supported highway and transit projects conform to the SIP (40 CFR Parts 51.390 and 93).

A nonattainment area is one that the U.S. Environmental Protection Agency (EPA) has designated as not meeting certain air quality standards. A maintenance area is a nonattainment area that now meets the standards and has been re-designated as maintaining the standard. A conformity determination is a demonstration that plans, programs, and projects are consistent with the State Implementation Plan (SIP) for attaining the air quality standards. The CAAA requirement to perform a conformity determination ensures that federal approval and funding go to transportation activities that are consistent with air quality goals.

Legislative and Regulatory Background

The entire Commonwealth of Massachusetts was previously classified as nonattainment for ozone, and was divided into two nonattainment areas. The Eastern Massachusetts ozone nonattainment area included Barnstable, Bristol, Dukes, Essex, Middlesex, Nantucket, Norfolk, Plymouth, Suffolk, and Worcester counties. Berkshire, Franklin, Hampden, and Hampshire counties comprised the Western Massachusetts ozone nonattainment area. With these classifications, the 1990 Clean Air Act Amendments (CAAA) required the Commonwealth to reduce its emissions of volatile organic compounds (VOCs) and nitrogen oxides (NOx), the two major precursors to ozone formation to achieve attainment of the ozone standard. The 1970 Clean Air Act defined a one-hour national ambient air quality standard (NAAQS) for ground-level ozone. The 1990 CAAA further classified degrees of nonattainment of the one-hour standard based on the severity of the monitored levels of the pollutant. The entire commonwealth of Massachusetts was classified as being in serious nonattainment for the one-hour ozone standard, with a required attainment date of 1999. The attainment date was later extended, first to 2003 and a second time to 2007.

In 1997, the EPA proposed a new, eight-hour ozone standard that replaced the one-hour standard, effective June 15, 2005. Scientific information had shown that ozone could affect human health at lower levels, and over longer exposure times than one hour. The new standard was challenged in court, and after a lengthy legal battle, the courts upheld it. It was finalized in June 2004. The eight-hour standard is 0.08 parts per million, averaged over eight hours and not to be exceeded more than once per year. Nonattainment areas were again further classified based on the severity of the eight-hour values. Massachusetts as a whole was classified as being in moderate nonattainment for the eight-hour standard, and was separated into two nonattainment areas—Eastern Massachusetts and Western Massachusetts.

In March 2008, EPA published revisions to the eight-hour ozone NAAQS establishing a level of 0.075 ppm, (March 27, 2008; 73 FR 16483). In 2009, EPA announced it would reconsider this standard because it fell outside of the range recommended by the Clean Air Scientific Advisory Committee. However, EPA did not take final action on the reconsideration so the standard would remain at 0.075 ppm.

After reviewing data from Massachusetts monitoring stations, EPA sent a letter on December 16, 2011 proposing that only Dukes County would be designated as nonattainment for the new proposed 0.075 ozone standard. Massachusetts concurred with these findings.

On May 21, 2012, (77 FR 30088), the final rule was published in the Federal Register, defining the 2008 NAAQS at 0.075 ppm, the standard that was promulgated in March 2008. A second rule published on May 21, 2012 (77 FR 30160), revoked the 1997 ozone NAAQS to occur one year after the July 20, 2012 effective date of the 2008 NAAQS.

Also on May 21, 2012, the air quality designations areas for the 2008 NAAQS were published in the Federal Register. In this Federal Register, the only area in Massachusetts that was designated as nonattainment is Dukes County. All other Massachusetts counties were designated as attainment/unclassified for the 2008 standard. On March 6, 2015, (80 FR 12264, effective April 6, 2015) EPA published the Final Rulemaking, “Implementation of the 2008 National Ambient Air Quality Standards (NAAQS) for Ozone: State Implementation Plan Requirements; Final Rule.” This rulemaking confirmed the removal of transportation conformity to the 1997 Ozone NAAQS and the replacement with the 2008 Ozone NAAQS, which (with actually a stricter level of allowable ozone concentration than the 1997 standards) classified Massachusetts as “Attainment/unclassifiable” (except for Dukes County).

However, on February 16, 2018, the United States Court of Appeals for the District of Columbia Circuit in *South Coast Air Quality Mgmt. District v. EPA* (“*South Coast II*,” 882 F.3d 1138) held that transportation conformity determinations must be made in areas that were either nonattainment or maintenance for the 1997 ozone NAAQS and attainment for the 2008 ozone NAAQS when the 1997 ozone NAAQS was revoked. These conformity determinations are required in these areas after February 16, 2019. On November 29, 2018, EPA issued *Transportation Conformity Guidance for the South Coast II Court Decision* (EPA-420-B-18-050, November 2018) that addresses how transportation conformity determinations can be made in areas. According to the guidance, both Eastern and Western Massachusetts, along with several other areas across the country, are now defined as “orphan nonattainment areas” – areas that were designated as

nonattainment for the 1997 ozone NAAQS at the time of its revocation (80 FR 12264, March 6, 2015) and were designated attainment for the 2008 ozone NAAQS in EPA's original designations rule for this NAAQS (77 FR 30160, May 21, 2012).

Current Conformity Determination

After 2/16/19, as a result of the court ruling and the subsequent federal guidance, transportation conformity for the 1997 NAAQS – intended as an “anti-backsliding” measure – now applies to both of Massachusetts’ orphan areas. Therefore, a conformity determination was made for the 1997 ozone NAAQS on the 2020-2040 Regional Transportation Plans. This conformity determination was finalized in July 2019 following each MPO’s previous endorsement of their regional transportation plan, and approved by the Massachusetts Divisions of FHWA and FTA on October 15, 2019. This conformity determination continues to be valid for the Pioneer Valley FFY 2022-2026 Transportation Improvement Program, and Massachusetts’ FFY 2022-2026 STIP, as each is developed from the conforming 2020-2040 Regional Transportation Plans.

The transportation conformity regulation at 40 CFR 93.109 sets forth the criteria and procedures for determining conformity. The conformity criteria for TIPs and RTPs include: latest planning assumptions (93.110), latest emissions model (93.111), consultation (93.112), transportation control measures (93.113(b) and (c), and emissions budget and/or interim emissions (93.118 and/or 93.119).

For the 1997 ozone NAAQS areas, transportation conformity for TIPs and RTPs for the 1997 ozone NAAQS can be demonstrated without a regional emissions analysis, per 40 CFR 93.109(c). This provision states that the regional emissions analysis requirement applies one year after the effective date of EPA’s nonattainment designation for a NAAQS and until the effective date of revocation of such NAAQS for an area. The 1997 ozone NAAQS revocation was effective on April 6, 2015, and the *South Coast II* court upheld the revocation. As no regional emission analysis is required for this conformity determination, there is no requirement to use the latest emissions model, or budget or interim emissions tests.

Therefore, transportation conformity for the 1997 ozone NAAQS for the Pioneer Valley FFY 2022-2026 Transportation Improvement Program and 2020-2040 Regional Transportation Plans can be demonstrated by showing that remaining requirements in Table 1 in 40 CFR 93.109 have been met. These requirements, which are laid out in Section 2.4 of EPA’s guidance and addressed below, include:

- Latest planning assumptions (93.110)
- Consultation (93.112)
- Transportation Control Measures (93.113)
- Fiscal Constraint (93.108)

Latest Planning Assumptions:

The use of latest planning assumptions in 40 CFR 93.110 of the conformity rule generally apply to regional emissions analysis. In the 1997 ozone NAAQS areas, the use of latest planning assumptions requirement applies to assumptions about transportation control measures (TCMs) in an approved SIP (See following section on Timely Implementation of TCMs).

Consultation:

The consultation requirements in 40 CFR 93.112 were addressed both for interagency consultation and public consultation. Interagency consultation was conducted with FHWA, FTA, US EPA Region 1, MassDEP, and the Massachusetts MPOs on March 6, 2019 to discuss the latest conformity-related court rulings and resulting federal guidance. Regular and recurring interagency consultations have been held since on an (at least) annual schedule, with the most recent conformity consultation held on January 21, 2021. This ongoing consultation is conducted in accordance with the following:

- Massachusetts' Air Pollution Control Regulations 310 CMR 60.03 "Conformity to the State Implementation Plan of Transportation Plans, Programs, and Projects Developed, Funded or Approved Under Title 23 USC or the Federal Transit Act"
- The Commonwealth of Massachusetts Memorandum of Understanding among the Massachusetts Department of Transportation, Massachusetts Department of Environmental Protection, Massachusetts Metropolitan Planning Organizations, and Regional Transit Authorities, titled The Conduct of Air Quality Planning and Coordination for Transportation Conformity (dated September 16, 2019)

Public consultation was conducted consistent with planning rule requirements in 23 CFR 450. Title 23 CFR Section 450.324 and 310 CMR 60.03(6)(h) requires that the development of the TIP, RTP, and related certification documents provide an adequate opportunity for public review and comment. Section 450.316(b) also establishes the outline for MPO public participation programs. The Pioneer Valley MPO's [Public Participation Plan](#) was formally adopted in 2016. The Public Participation Plan ensures that the public will have access to the TIP/RTP and all supporting documentation, provides for public notification of the availability of the TIP/RTP and the public's right to review the document and comment thereon, and provides a 21-day public review and comment period prior to the adoption of the TIP/RTP and related certification documents.

The public comment period for this conformity determination commenced on April 28, 2021. During the 21-day public comment period, any comments received were incorporated into this Plan. This allowed ample opportunity for public comment and MPO review of the draft document. The public comment period will close on May 18, 2021 and subsequently, the Pioneer Valley MPO endorsed this air quality conformity determination on May 25, 2021. These procedures comply with the associated federal requirements.

Timely Implementation of Transportation Control Measures:

Transportation Control Measures (TCMs) have been required in the SIP in revisions submitted to EPA in 1979 and 1982. All SIP TCMs have been accomplished through construction or through

implementation of ongoing programs. All of the projects have been included in the Region's Transportation Plan (present or past) as recommended projects or projects requiring further study.

Fiscal Constraint:

Transportation conformity requirements in 40 CFR 93.108 state that TIPs and transportation plans and must be fiscally constrained consistent with DOT's metropolitan planning regulations at 23 CFR part 450. The Pioneer Valley 2022-2026 Transportation Improvement Program and 2020-2040 Regional Transportation Plan are fiscally constrained, as demonstrated in this document.

As of April 22, 2002, the city of Springfield was re-designated as being in attainment for carbon monoxide (CO) with an EPA-approved limited maintenance plan. In areas with approved limited maintenance plans, federal actions requiring conformity determinations under the transportation conformity rule are considered to satisfy the "budget test" (as budgets are treated as not constraining in these areas for the length of the initial maintenance period). Any future required "project level" conformity determinations for projects located within this community will continue to use a "hot-spot" analysis to assure that any new transportation projects in this CO attainment area do not cause or contribute to carbon monoxide non-attainment.

In summary and based upon the entire process described above, the Pioneer Valley MPO has prepared this conformity determination for the 1997 Ozone NAAQS in accordance with EPA's and Massachusetts' latest conformity regulations and guidance. This conformity determination process demonstrates that the FFY 2022-2026 Transportation Improvement Program and the 2020 - 2040 Regional Transportation Plan meet the Clean Air Act and Transportation Conformity Rule requirements for the 1997 Ozone NAAQS, and have been prepared following all the guidelines and requirements of these rules during this time period.

Therefore, the implementation of the Pioneer Valley MPO's FFY 2022-2026 Transportation Improvement Program and the 2020-2040 Regional Transportation Plan are consistent with the air quality goals of, and in conformity with, the Massachusetts State Implementation Plan.

VIII. Greenhouse Gas Monitoring and Evaluation

Introduction

This section summarizes the greenhouse gas (GHG) impacts that are anticipated to result from the projects that are included in this FFY 2022 – 2026 Transportation Improvement Program (TIP). It includes a summary of the state laws and policies that call for reducing greenhouse gas in order to mitigate global climate change, actions that are being to respond to these state laws and policies, the role of regional planning and TIP development in reducing GHG emission and tracking these reductions, and the projected GHG emission impacts from the projects programmed in the TIP.

State Policy Context

The Global Warming Solutions Act (GWSA), which was signed into law in August 2008, makes Massachusetts a leader in setting aggressive and enforceable GHG reduction targets, and implementing policies and initiatives to achieve these targets. In keeping with the law, on December 29, 2010 the Massachusetts Executive Office of Energy and Environmental Affairs (EOEEA), in consultation with other state agencies and the public, released the Massachusetts *Clean Energy and Climate Plan for 2020*. In December 2014 the Department of Environmental Protection issued new regulations that require Metropolitan Planning Organizations to quantify impacts from project investments, track progress towards reductions, and consider impacts in the prioritization of GHG impacts from project investments. The targets for overall statewide GHG emissions are:



GreenDOT Policy

The transportation sector is the single largest emitter of greenhouse gases, accounting for over a third of GHG emissions, and therefore the transportation sector is a key focus of the *Clean Energy and Climate Plan*. MassDOT’s approach to supporting the implementation of the plan is set forth in its GreenDOT Policy Directive, a comprehensive sustainability initiative that sets three principal objectives:

- **Reduce greenhouse gas (GHG) emissions.** MassDOT will achieve this by taking GHG emissions into account in all of its responsibilities, from strategic planning to project design and construction and system operations.
- **Promote the healthy transportation modes of walking, bicycling, and public transit.** MassDOT will achieve this by pursuing multi-modal, “complete streets” design standards; providing choice in transportation services; and by working with MPOs and other partners to prioritize and program a balance of projects that serve drivers, pedestrians, bicyclists, and public transit riders.
- **To support smart growth development.** MassDOT will achieve this by working with MPOs and other partners to make transportation investments that enable denser, smart growth development patterns that support reduced GHG emissions.

Regional GHG Tracking and Evaluation in RTPs

MassDOT coordinated with MPOs and regional planning agency (RPA) staffs on the implementation of GHG tracking and evaluation in development of each MPO's 2040 RTPs, which were adopted in September 2011. This collaboration has continued for the MPO's 2040 RTPs and 2019-22 TIPs.

Working together, MassDOT and the MPOs have attained the following milestones: Modeling and long-range statewide projections for GHG emissions resulting from the transportation sector. Using the Boston MPO's regional model and the statewide travel demand model for the remainder of the state, GHG emissions were projected for 2020 no-build and build conditions, and for 2040 no-build and build conditions.

All of the MPOs included these GHG emission projections in their RTPs, along with a discussion of climate change and a statement of MPO support for reducing GHG emissions as a regional goal.

Project-Level GHG Tracking and Evaluation in the Transportation Improvement Program

It is also important to monitor and evaluate the GHG impacts of the transportation projects that are programmed in the MPO Transportation Improvement Programs (TIP). The TIP includes both the larger, regionally-significant projects from the RTPs, which have already had their aggregate GHG impacts calculated and reported in the RTP, as well as smaller projects that are not included in the RTP but that may nevertheless have impacts on GHG emissions. The principal objective of this tracking is to enable the MPOs to evaluate expected GHG impacts of different projects and to use this information as a criterion for prioritizing and programming projects in future TIPs.

In order to monitor and evaluate the GHG impacts of TIP projects, MassDOT and the MPOs have developed the following approach for identifying anticipated GHG impacts and quantifying GHG impacts of projects, when appropriate, through the TIP. Different types of projects will have different anticipated GHG emissions impacts. The different project categories are outlined on the next two pages with this region's project tracking sheet on the third page.

Calculation of GHG Impacts for TIP Projects

The Office of Transportation Planning at MassDOT provided the spreadsheets that are used for determining Congestion Management and Air Quality Improvement (CMAQ) eligibility. These spreadsheets require the same inputs as the CMAQ calculations, and have been adapted to provide CO₂ impacts. The data and analysis required for these calculations is available from functional design reports that should be submitted for projects that would produce a measurable GHG impact.

Projects with Quantified Impacts

RTP Projects - Major capacity expansion projects would be expected to have a significant impact on GHG emissions. However, these projects are included in the RTPs and analyzed using the statewide model or Boston regional model, which would reflect their GHG impacts. Therefore, no independent TIP calculations are required.

- **Quantified Decrease in Emissions** - Projects that would be expected to produce a measurable decrease in emissions. The approach for calculating these impacts is described below. These projects should be categorized in the following manner:
- **Quantified Decrease in Emissions from Traffic Operational Improvement** - An intersection reconstruction or signalization project that is projected to reduce delay and congestion.

- **Quantified Decrease in Emissions from Pedestrian and Bicycle Infrastructure** - A shared-use path that would enable increased walking and biking and decreased vehicle-miles traveled (VMT).
- **Quantified Decrease in Emissions from New/Additional Transit Service** - A bus or shuttle service that would enable increased transit ridership and decreased VMT
- **Quantified Decrease in Emissions from a Park and Ride Lot** A park-and-ride lot that would enable increased transit ridership/ increased ridesharing and decreased VMT
- **Quantified Decrease in Emissions from Bus Replacement**
A bus replacement that would directly reduce GHG emissions generated by that bus service.
- **Quantified Decrease in Emissions from Complete Streets Improvements**
Improvements to roadway networks that include the addition of bicycle and pedestrian accommodations where none were present before.
- **Quantified Decrease in Emissions from Other Improvement**

Quantified Increase in Emissions – Projects that would be expected to produce a measurable increase in emissions

Projects with Assumed Impact

No Assumed Impact/Negligible Impact on Emission - Projects that do not change the capacity or use of a facility (e.g. a resurfacing project that restores a roadway to its previous condition, or a bridge rehabilitation/replacement that restores the bridge to its previous condition) would be assumed to have no GHG impact.

Assumed Nominal Decrease in Emissions - Projects that would be expected to produce a minor decrease in emissions that cannot be calculated with any precision. Examples of such projects include roadway repaving or reconstruction projects that add a new sidewalk or new bike lanes. Such a project would enable increased travel by walking or bicycling, but there may be not data or analysis to support any projections of GHG impacts. These projects should be categorized as a Qualitative Decrease in Emissions.

Assumed Nominal Increase in Emissions -Projects that would be expected to produce a minor increase in emissions that cannot be calculated with any precision. The projects should be categorized as a Qualitative Increase in Emissions.

Regional Greenhouse Gas Impact Summary Tables for FFY 2022 – 2026 TIP

The following tables (table 28 and table 29) summarize the calculated quantitative and assumed qualitative impacts of the projects included in the regional FFY 2022 – 2026 TIP.

Table 29 Greenhouse Gas Summary Tables FFY 2022

MassDot Project ID	MassDOT Project Description	GHG Analysis Type	GHG Impact Description	GHG CO2 Impact (kg/yr)	Additional Information
Federal Fiscal Year 2022					
Pioneer Valley					
605032	HADLEY- RECONSTRUCTION ON ROUTE 9, FROM	Quantified	Quantified Decrease in Emissions	-354	
605126	WARE- BRIDGE REPLACEMENT, W-05-015, ROUTE 32		No assumed impact/negligible	0	
606450	HOLYOKE- TRAFFIC SIGNAL UPGRADES AT 15	Quantified	Quantified Decrease in Emissions	-12,567	
606552	NORTHAMPTON- BRIDGE REPLACEMENT, N-19-059, I-	Qualitative	No assumed impact/negligible	0	
608374	WEST SPRINGFIELD- RECONSTRUCTION OF MEMORIAL AVENUE (ROUTE 147), FROM COLONY ROAD TO THE MEMORIAL AVENUE ROTARY (1.4	Quantified	Quantified Decrease in Emissions from Complete Streets Project	0	All CO2 emissions reductions are included within the last year of advanced construction (FFY 2024)
608473	SOUTH HADLEY- RESURFACING AND RELATED WORK		No assumed impact/negligible	0	
608577	EASTHAMPTON- IMPROVEMENTS AND RELATED	Quantified	Quantified Decrease in Emissions	-3,170	
608719	AMHERST- BELCHERTOWN- NORWOTTUCK RAIL TRAIL		No assumed impact/negligible	0	
609515	NORTHAMPTON- BRIDGE STREET ELEMENTARY	Qualitative	Qualitative Decrease in Emissions	0	
Pioneer Valley			Total GHG Increase (kg/year)	0	
			Total GHG Reduction (kg/year)	-16,091	
			Total GHG Difference (kg/year)	-16,091	
2022			Total GHG Increase (kg/year)	0	
			Total GHG Reduction (kg/year)	-16,091	
			Total GHG Difference (kg/year)	-16,091	

Table 28 Greenhouse Gas Summary Tables FFY 2023

Federal Fiscal Year 2023					
Pioneer Valley					
604209	HOLYOKE- WEST SPRINGFIELD- REHABILITATION OF	Qualitative	Qualitative Decrease in Emissions	0	
606895	GRANBY- IMPROVEMENTS @ 2 LOCATIONS ON	Quantified	Quantified Decrease in Emissions	-273	
608157	SPRINGFIELD- MCKNIGHT COMMUNITY TRAIL	Quantified	Quantified Decrease in Emissions	-45,830	
608163	WALES- RECONSTRUCTION & IMPROVEMENTS ON	Qualitative	Qualitative Decrease in Emissions	0	
608374	WEST SPRINGFIELD- RECONSTRUCTION OF MEMORIAL AVENUE (ROUTE 147), FROM COLONY ROAD TO THE MEMORIAL AVENUE ROTARY (1.4	Quantified	Quantified Decrease in Emissions from Complete Streets Project	0	All CO2 emissions reductions are included within the last year of advanced construction (FFY 2024)
608560	SPRINGFIELD- IMPROVEMENTS ON ST. JAMES		No assumed impact/negligible	0	
608565	SPRINGFIELD- IMPROVEMENTS ON ST. JAMES		No assumed impact/negligible	0	
608847	WALES- BRIDGE REPLACEMENT, W-02-002, HOLLAND		No assumed impact/negligible	0	
609120	LUDLOW- BRIDGE REPLACEMENT, L-16-026, PINEY		No assumed impact/negligible	0	
609517	LONGMEADOW- BLUEBERRY HILL ELEMENTARY	Qualitative	Qualitative Decrease in Emissions	0	
610652	AGAWAM- ROBINSON PARK ELEMENTARY SCHOOL	Qualitative	Qualitative Decrease in Emissions	0	
Pioneer Valley			Total GHG Increase (kg/year)	0	
			Total GHG Reduction (kg/year)	-46,103	
			Total GHG Difference (kg/year)	-46,103	
2023			Total GHG Increase (kg/year)	0	
			Total GHG Reduction (kg/year)	-46,103	
			Total GHG Difference (kg/year)	-46,103	

Table 28 Greenhouse Gas Summary Tables FFY 2024

MassDot Project ID	MassDOT Project Description	GHG Analysis Type	GHG Impact Description	GHG CO2 Impact (kg/yr)	Additional Information
Federal Fiscal Year 2024					
Pioneer Valley					
606797	CUMMINGTON- RETAINING WALL REPLACEMENT ON	Qualitative	No assumed impact/negligible	0	
608374	WEST SPRINGFIELD- RECONSTRUCTION OF MEMORIAL AVENUE (ROUTE 147), FROM COLONY ROAD TO THE MEMORIAL AVENUE ROTARY (1.4	Quantified	Quantified Decrease in Emissions from Complete Streets Project	-8,434	All CO2 emissions reductions are included within the last year of advanced construction (FFY 2024)
608717	SPRINGFIELD- RECONSTRUCTION OF SUMNER	Quantified	Quantified Decrease in Emissions	-39,183	
608846	MONSON- BRIDGE REPLACEMENT, M-27-015, OLD		No assumed impact/negligible	0	
609287	WORTHINGTON- RECONSTRUCTION & RELATED	Quantified	Quantified Decrease in Emissions	-220	
610779	HAMPDEN- BRIDGE MAINTENANCE, H-04-004,		No assumed impact/negligible	0	
Pioneer Valley			Total GHG Increase (kg/year)	0	
			Total GHG Reduction (kg/year)	-47,837	
			Total GHG Difference (kg/year)	-47,837	
2024			Total GHG Increase (kg/year)	0	
			Total GHG Reduction (kg/year)	-47,837	
			Total GHG Difference (kg/year)	-47,837	

Table 28 Greenhouse Gas Summary Tables FFY 2025

MassDot Project ID	MassDOT Project Description	GHG Analysis Type	GHG Impact Description	GHG CO2 Impact (kg/yr)	Additional Information
Federal Fiscal Year 2025					
Pioneer Valley					
604136	MONSON- PALMER- BRIDGE REPLACEMENT, M-27-		No assumed impact/negligible	0	
608413	NORTHAMPTON- ROCKY HILL GREENWAY MULTI-USE	Quantified	Quantified Decrease in Emissions	-3,665	
608460	HADLEY- BRIDGE REPLACEMENT, H-01-005, BAY		No assumed impact/negligible	0	
608727	HOLLAND- RESURFACING & RELATED WORK ON	Qualitative	Qualitative Decrease in Emissions	0	
608869	NORTHAMPTON- BRIDGE REPLACEMENT, N-19-068,		No assumed impact/negligible	0	
608881	LONGMEADOW- SPRINGFIELD- RESURFACING AND	Quantified	Quantified Decrease in Emissions	-3,410	
609286	NORTHAMPTON- DOWNTOWN COMPLETE STREETS	Qualitative	Qualitative Decrease in Emissions	0	
609409	SPRINGFIELD- BRIDGE REPLACEMENT, S-24-016,		No assumed impact/negligible	0	
610657	EASTHAMPTON- NORTHAMPTON- INSTALLATION OF A	Qualitative	Qualitative Decrease in Emissions	0	
610768	WESTHAMPTON- BRIDGE MAINTENANCE, W-27-028,		No assumed impact/negligible	0	
612031	WORTHINGTON- RESURFACING AND RELATED WORK		No assumed impact/negligible	0	
612079	CHICOPEE- HUGH SCOTT STREIBER ELEMENTARY	Qualitative	Qualitative Decrease in Emissions	0	
612080	SPRINGFIELD- REBECCA M. JOHNSON ELEMENTARY	Qualitative	Qualitative Decrease in Emissions	0	
Pioneer Valley			Total GHG Increase (kg/year)	0	
			Total GHG Reduction (kg/year)	-7,075	
			Total GHG Difference (kg/year)	-7,075	
2025			Total GHG Increase (kg/year)	0	
			Total GHG Reduction (kg/year)	-7,075	
			Total GHG Difference (kg/year)	-7,075	

Table 28 Greenhouse Gas Summary Tables FFY 2026

MassDot Project ID	MassDOT Project Description	GHG Analysis Type	GHG Impact Description	GHG CO2 Impact (kg/yr)	Additional Information
Federal Fiscal Year 2026					
Pioneer Valley					
608785	SOUTH HADLEY- RECONSTRUCTION OF MAIN STREET	Qualitative	Qualitative Decrease in Emissions	0	
609061	CHICOPEE- INTERSECTION IMPROVEMENTS AT	Qualitative	Qualitative Decrease in Emissions	0	
609065	HOLYOKE- RESURFACING AND RELATED WORK ON	Qualitative	Qualitative Decrease in Emissions	0	
611953	SPRINGFIELD- CHICOPEE- GUIDE AND TRAFFIC SIGN		No assumed impact/negligible	0	
Pioneer Valley			Total GHG Increase (kg/year)	0	
			Total GHG Reduction (kg/year)	0	
			Total GHG Difference (kg/year)	0	
2026			Total GHG Increase (kg/year)	0	
			Total GHG Reduction (kg/year)	0	
			Total GHG Difference (kg/year)	0	
2022 - 2026			Total GHG Increase (kg/year)	0	
			Total GHG Reduction (kg/year)	-117,106	
			Total GHG Difference (kg/year)	-117,106	

Table 30 Transit GHG Summary 2022

MassDOT/FTA Project ID ▼	MassDOT/FTA Project Description ▼	Total Programmed Funds ▼	GHG Analysis Type ▼	GHG CO ₂ Impact (kg/yr) ▼	GHG Impact Description ▼	Total Cost ▼	Additional Information ▼
RTD0009838	Buy Replacement 35-FT Buses (5)	\$1,959,613	Quantified	708423.59	Quantified Decrease in Emissions from Bus Replacement	\$1,959,613	141684.718 kg per year per bus (5) buses
RTD0009837	Buy Replacement 40-FT Buses (7)	\$3,056,542	Quantified	912628.843	Quantified Decrease in Emissions from Bus Replacement	\$3,056,542	130375.549 kg per bus (7) per year
RTD0009871	BUY REPLACEMENT 40-FT BUS - Electric (4) (RTACAP should be VW Mitigation)	\$3,000,000	Quantified	7921604	Quantified Decrease in Emissions from Bus Replacement	5941203	1980401 kg per bus per year (4)
RTD0009872	BUY REPLACEMENT 35-FT BUS - Electric (4) (RTACAP should be VW mitigation)	\$2,700,000	Quantified	7921604	Quantified Decrease in Emissions from Bus Replacement	5941203	1980401 kg per bus per year (4)
RTD0009868	REHAB/REBUILD 40-FT BUS (9)	\$2,925,000	Qualitative		Qualitative Decrease in Emissions	2202275	
RTD0009869	REHAB/REBUILD 35-FT BUS (4)	\$863,066	Qualitative		Qualitative Decrease in Emissions	\$863,066	

Table 29 Transit GHG Summary 2023

MassDOT/FTA Project ID ▼	MassDOT/FTA Project Description ▼	Total Programmed Funds ▼	GHG Analysis Type ▼	GHG CO ₂ Impact (kg/yr) ▼	GHG Impact Description ▼	Total Cost ▼	Additional Information ▼
RTD0009837	Purchase 40' Replacement Buses (6)	\$2,571,533	Quantified	912628.843	Quantified Decrease in Emissions from Bus Replacement	\$2,571,533	130375.549 kg per bus (6) per year
RTD0009838	Replace 35' Buses (6)	\$2,503,353	Quantified	141684.718	Quantified Decrease in Emissions from Bus Replacement	\$2,503,353	141684.718 kg per year per bus (6) buses
RTD0009871	BUY REPLACEMENT 40-FT BUS - Electric (4) (RTACAP should be VW Mitigation)	\$3,826,159	Quantified	7921604	Quantified Decrease in Emissions from Bus Replacement	\$3,826,159	1980401 kg per bus per year (4)
RTD0009872	BUY REPLACEMENT 35-FT BUS - Electric (4) (RTACAP should be VW mitigation)	\$3,672,134	Quantified	7921604	Quantified Decrease in Emissions from Bus Replacement	\$3,672,134	1980401 kg per bus per year (4)
RTD0009873	REHAB/REBUILD 40-FT BUS (6)	\$1,603,599	Qualitative		Qualitative Decrease in Emissions	\$1,603,599	
RTD0010237	BUY REPLACEMENT <30 FT BUS (2) Type D Shuttle buses	\$ 157,000	Quantified	520363.626	Quantified Decrease in Emissions from Bus Replacement	\$ 157,000	260181.813 kg per year per van (2)
RTD0010236	REHAB/REBUILD 60' ARTICULATED BUS (2)	\$ 742,630	Qualitative		Qualitative Decrease in Emissions		

Table 29 Transit GHG Summary 2024

MassDOT/FTA Project ID ▼	MassDOT/FTA Project Description ▼	Total Programmed Funds ▼	GHG Analysis Type ▼	GHG CO ₂ Impact (kg/yr) ▼	GHG Impact Description ▼	Total Cost ▼	Additional Information ▼
RTD0009851	Purchase 40' Replacement Buses (4)	\$2,233,271	Quantified	521502.196	Quantified Decrease in Emissions from Bus Replacement	\$2,233,271	130375.549 kg per bus (4) per year
RTD0010245	Purchase 35' Replacement Buses (6)	\$3,277,574	Quantified	850108.308	Quantified Decrease in Emissions from Bus Replacement	\$3,277,574	141684.718 kg per year per bus (6) buses
RTD0010246	BUY REPLACEMENT 40-FT BUS - Electric (7) (RTACAP should be VW Mitigation)	\$7,103,550	Quantified	1386287	Quantified Decrease in Emissions from Bus Replacement	\$7,103,550	1980401 kg per bus per year (7)
RTD0010247	BUY REPLACEMENT 35-FT BUS - Electric (1) (RTACAP should be VW Mitigation)	\$976,792	Quantified	1980401	Quantified Decrease in Emissions from Bus Replacement	\$976,792	1980401 kg per bus per year (1)
RTD0010248	REHAB/REBUILD 40-FT BUS (7)	\$ 1,984,801	Qualitative		Qualitative Decrease in Emissio	\$ 1,984,801	
RTD0010249	BUY REPLACEMENT <30 FT BUS (2) Type D Shuttle buses	\$ 160,000	Quantified	520363.626	Quantified Decrease in Emissions from Bus Replacement	\$ 160,000	260181.813 kg per year per van (2)

Table 29 Transit GHG Summary 2025

MassDOT/FTA Project ID ▼	MassDOT/FTA Project Description ▼	Total Programmed Funds ▼	GHG Analysis Type ▼	GHG CO ₂ Impact (kg/yr) ▼	GHG Impact Description ▼	Total Cost ▼	Additional Information ▼
RTD0010268	BUY REPLACEMENT 40-FT BUS - Electric (3)	\$3,135,710	Quantified	5941203	Quantified Decrease in Emissions from Bus Replacement	\$3,135,710	1980401 kg per bus per year (3)
RTD0009880	REHAB/REBUILD 40-FT BUS (7)	\$2,044,344	Qualitative		Qualitative Decrease in Emissions	\$2,044,344	
RTD0009881	REHAB/REBUILD 435-FT BUS (3)	\$1,178,868	Qualitative		Qualitative Decrease in Emissions	\$1,178,868	
RTD0009895	Replacement 40' Bus (11)	\$4,877,116	Quantified	1434131.04	Quantified Decrease in Emissions from Bus Replacement	\$4,877,116	130375.549 kg per bus (11) per year

APPENDICES

APPENDIX A: MassDOT Targets

2022-2026 Regional Target Budgets (DRAFT)

	2021 Current Obligation authority (federal aid only)	2021 Proposed Obligation authority (87.7%)	2022 Current Obligation authority (federal aid only)	2022 Proposed Obligation authority (91%)*	2023 Current Obligation authority (federal aid only)	2023 Proposed Obligation authority (91%)*	2024 Current Obligation authority (federal aid only)	2024 Proposed Obligation authority (91%)*	2025 Current Obligation authority (federal aid only)	2025 Proposed Obligation authority (91%)*
Apportionment	\$ 683,012,988.64	\$ 664,877,512.00	\$ 697,256,952.71	\$ 678,743,257.99	\$ 711,797,958.57	\$ 692,898,168.39	\$ 726,642,211.10	\$ 707,348,273.60	\$ 741,796,034.39	\$ 722,098,729.79
Base obligation authority	\$ 624,547,829.00	\$ 583,320,922.00	\$ 634,503,827.00	\$ 617,656,364.77	\$ 647,736,142.00	\$ 630,537,333.00	\$ 664,244,412.00	\$ 643,888,928.98	\$ 675,034,394.00	\$ 657,110,754.11
Planned redistribution request	\$ 50,000,000.00	\$ 50,000,000.00	\$ 50,000,000.00	\$ 50,000,000.00	\$ 50,000,000.00	\$ 50,000,000.00	\$ 50,000,000.00	\$ 50,000,000.00	\$ 50,000,000.00	\$ 50,000,000.00
Total estimated funding available	\$ 771,541,829.00	\$ 633,320,922.00	\$ 684,503,827.00	\$ 667,656,364.77	\$ 697,736,142.00	\$ 680,537,333.00	\$ 711,244,412.00	\$ 693,888,928.98	\$ 725,034,394.00	\$ 707,110,754.11
ABP GANS Repayment	\$ (82,375,000.00)	\$ (82,375,000.00)	\$ (86,470,000.00)	\$ (86,470,000.00)	\$ (89,510,000.00)	\$ (89,510,000.00)	\$ (93,985,000.00)	\$ (93,985,000.00)	\$ (122,185,000.00)	\$ (122,185,000.00)
Total non-s earmarked funding available	\$ 589,166,829.00	\$ 550,945,922.00	\$ 598,033,827.00	\$ 581,186,364.77	\$ 608,226,142.00	\$ 591,027,333.00	\$ 617,259,412.00	\$ 599,903,928.98	\$ 602,849,394.00	\$ 584,925,754.11
Funding for Regional Priorities**	\$ 194,665,923.26	\$ 194,665,923.26	\$ 198,629,796.33	\$ 198,629,796.33	\$ 202,968,036.19	\$ 202,968,036.19	\$ 205,628,283.96	\$ 205,628,283.96	\$ 200,827,858.00	\$ 200,827,858.00
Highway Division Programs***	\$ 394,500,905.74	\$ 356,279,998.74	\$ 399,404,030.67	\$ 382,556,568.45	\$ 405,258,105.81	\$ 389,059,296.81	\$ 411,631,128.04	\$ 394,073,645.01	\$ 402,021,533.00	\$ 384,097,896.11
			Delta (TFC)	\$ (16,847,462.23)	\$ (17,188,809.00)	\$ (17,188,809.00)	\$ (21,469,511.25)	\$ (21,469,511.25)	\$ (21,946,863.76)	\$ (22,404,546.11)
			Delta (TFPC)	\$ (21,089,327.78)						

	2026 Proposed Obligation authority (91%)*
Base obligation authority	\$ 670,814,528
Planned redistribution request	\$ 50,000,000
Total estimated funding available	\$ 720,814,528
ABP GANS Repayment	\$ (133,620,000)
Total non-earmarked funding available regional share %	\$ 587,194,527.57

	MPO	Total funding
3.5566%	Berkshire	\$ 8,703,789
42.9671%	Boston	\$ 6,963,031
4.5651%	Cape Cod	\$ 105,061,400
8.6801%	Central Mass	\$ 11,211,300
2.5397%	Franklin	\$ 21,248,678
0.3700%	Martha's Vineyard	\$ 6,209,971
4.4206%	Merrimack Valley	\$ 757,999
4.4506%	Montachusett	\$ 10,831,077
0.2200%	Nantucket	\$ 10,904,432
3.9086%	Northern Middlesex	\$ 430,348
4.5595%	Old Colony	\$ 537,935
10.8009%	Pioneer Valley	\$ 9,559,584
8.9601%	Southeastern Mass	\$ 7,647,676
		\$ 8,918,963
		\$ 21,145,541
		\$ 26,431,927
		\$ 17,527,097
		\$ 21,908,871
		\$ 244,515,676.93
		\$ 391,581,790.41
		\$ 489,477,482.53

**Ease Obligation Authority based on 2.1% growth rate from actual FFY 2021 apportionment and average of Fed Aid Obligation Authority (91%) through FFY 2020

***MPO TIP targets will be held harmless from the change in proposed Obligation Authority

****MassDOT Highway Division programs are being revised based on new ABP GANS schedule and proposed Obligation Authority

Appendix B: Additional Project Information

Year	MassDOT Project ID	MPO	Municipality	MassDOT Project Description	District	Funding Source	Adjusted TFPC	Total Programmed Funds	Federal Funds	Non-Federal Funds	MPO Project Score	Entity Receiving Transfer	PSAC Score	Earmark Details	Proponent	Other Information		
Federal Fiscal Year 2022								\$61,810,769	\$50,063,778	\$11,746,991								
Section 1A / Regionally Prioritized Projects								\$26,839,851	\$21,471,881	\$5,367,970								
Capacity								\$17,486,346	\$13,989,077	\$3,497,269								
2022	605032	Pioneer Valley	Hadley	HADLEY- RECONSTRUCTION ON ROUTE 9, FROM MIDDLE STREET TO MAPLE/SOUTH MAPLE STREET	2	STBG	\$26,279,372	\$17,486,346	\$13,989,077	\$3,497,269	61		68		MassDOT	Construction / (YOE \$26,279,372) Project A/C over 2 years FFY 2021 \$8,793,026, FFY 2022 \$17,486,346 / 61 TEC / 100% / STBG		
Intersection Improvements								\$4,603,777	\$3,683,022	\$920,755								
2022	606450	Pioneer Valley	Holyoke	HOLYOKE- TRAFFIC SIGNAL UPGRADES AT 15 INTERSECTIONS ALONG HIGH & MAPLE STREETS	2	STBG	\$10,755,401	\$4,603,777	\$3,683,022	\$920,755	66		68		Holyoke	Construction / (YOE \$10,755,401 (\$4,603,777 in statewide funding = \$6,151,624 in regional target funding) / 66		
Roadway Reconstruction								\$4,749,728	\$3,799,782	\$949,946								
2022	608374	Pioneer Valley	West Springfield	WEST SPRINGFIELD- RECONSTRUCTION OF MEMORIAL AVENUE (ROUTE 147), FROM COLONY ROAD TO THE MEMORIAL AVENUE ROTARY (1.4 MILES)	2	STBG	\$21,692,328	\$1,125,167	\$900,134	\$225,033	72.5		69		West Springfield	Construction / (YOE \$21,692,328) 3 years of AC funding FFY 2022 \$1,125,167 FFY2023 \$18,169,736 FFY2024 \$2,397,425 / 72.5 TEC / 75% / STBG 100% due June 21		
2022	608577	Pioneer Valley	Easthampton	EASTHAMPTON- IMPROVEMENTS AND RELATED WORK ON UNION STREET (ROUTE 141) FROM PAYSON AVENUE TO HIGH STREET (0.36 MILES)	2	STBG	\$3,624,561	\$3,624,561	\$2,899,649	\$724,912	62.5		61.5		Easthampton	Construction / (TFPC \$3,624,561) / 62.5 TEC / 75% STBG		
Section 1B / Earmark or Discretionary Grant Funded Projects								\$5,984,345	\$4,787,476	\$1,196,869								
Earmark Discretionary								\$5,984,345	\$4,787,476	\$1,196,869								
2022	606552	Pioneer Valley	Northampton	NORTHAMPTON- BRIDGE REPLACEMENT, N-19-059, I-91 OVER US ROUTE 5 AND B&MRR, BRIDGE REPLACEMENT, N-19-060, I-91 OVER HOCKANUM ROAD AND IMPROVEMENTS TO I-91/INTERCHANGE 18	2	HIP-BR	\$60,423,296	\$5,984,345	\$4,787,476	\$1,196,869					MassDOT	AC'd over 2020-2024; TFPC: \$60,423,296; NHPP + HIP Bridge (2019)		
Section 2A / State Prioritized Reliability Projects								\$20,492,172	\$16,393,738	\$4,098,434								
Bridge Off-system								\$9,266,026	\$7,412,821	\$1,853,205								
2022	605126	Pioneer Valley	Ware	WARE- BRIDGE REPLACEMENT, W-05-015, ROUTE 32 (PALMER ROAD) OVER THE WARE RIVER	2	STBG-BR-Off	\$9,266,026	\$9,266,026	\$7,412,821	\$1,853,205					MassDOT			
Bridge On-system NHS								\$3,370,385	\$2,696,308	\$674,077								
2022	606552	Pioneer Valley	Northampton	NORTHAMPTON- BRIDGE REPLACEMENT, N-19-059, I-91 OVER US ROUTE 5 AND B&MRR, BRIDGE REPLACEMENT, N-19-060, I-91 OVER HOCKANUM ROAD AND IMPROVEMENTS TO I-91/INTERCHANGE 18	2	NHPP	\$60,423,296	\$3,370,385	\$2,696,308	\$674,077					MassDOT	AC'd over 2020-2024; TFPC: \$60,423,296; NHPP + HIP Bridge (2019)		
Non-Interstate Pavement								\$7,855,761	\$6,284,609	\$1,571,152								
2022	608473	Pioneer Valley	South Hadley	SOUTH HADLEY- RESURFACING AND RELATED WORK ON ROUTE 116	2	NHPP	\$7,855,761	\$7,855,761	\$6,284,609	\$1,571,152					MassDOT			
Section 2B / State Prioritized Modernization Projects								\$7,014,628	\$6,226,865	\$787,763								
Intersection Improvements								\$6,151,624	\$5,536,462	\$615,162								
2022	606450	Pioneer Valley	Holyoke	HOLYOKE- TRAFFIC SIGNAL UPGRADES AT 15 INTERSECTIONS ALONG HIGH & MAPLE STREETS	2	HSIP	\$10,755,401	\$6,151,624	\$5,536,462	\$615,162	66		68		Holyoke	Construction / (YOE \$10,755,401 (\$4,603,777 in statewide funding = \$6,151,624 in regional target funding) / 66		
Roadway Reconstruction								\$863,004	\$690,403	\$172,601								
2022	609515	Pioneer Valley	Northampton	NORTHAMPTON- BRIDGE STREET ELEMENTARY SCHOOL IMPROVEMENTS (SRTS)	2	TAP	\$863,004	\$863,004	\$690,403	\$172,601			27		City of Northampton			
Section 2C / State Prioritized Expansion Projects								\$1,479,773	\$1,183,818	\$295,955								
Bicycle and Pedestrian								\$1,479,773	\$1,183,818	\$295,955								
2022	608719	Pioneer Valley	Multiple	AMHERST- BELCHERTOWN- NORWOTTUCK RAIL TRAIL RESURFACING, FROM STATION ROAD IN AMHERST TO WARREN WRIGHT ROAD IN BELCHERTOWN (1.5 MILES)	2	STBG	\$1,479,773	\$1,479,773	\$1,183,818	\$295,955			21		MassDOT			

Year	MassDOT Project ID	MPO	Municipality	MassDOT Project Description	District	Funding Source	Adjusted TFPC	Total Programmed Funds	Federal Funds	Non-Federal Funds	MPO Project Score	Entity Receiving Transfer	PSAC Score	Earmark Details	Proponent	Other Information		
Federal Fiscal Year 2023								\$71,282,661	\$57,838,113	\$13,444,549								
Section 1A / Regionally Prioritized Projects								\$27,208,514	\$21,866,811	\$5,341,703								
Intersection Improvements								\$3,382,672	\$2,806,138	\$576,534								
2023	606895	Pioneer Valley	Granby	GRANBY- IMPROVEMENTS @ 2 LOCATIONS ON ROUTE 202: SCHOOL STREET & FIVE CORNERS	2	HSIP	\$3,382,672	\$1,000,000	\$900,000	\$100,000	43		62.5		MassDOT D2	Construction / (YOE \$3,382,672) / 43 TEC / 75% STBG, HSIP		
2023	606895	Pioneer Valley	Granby	GRANBY- IMPROVEMENTS @ 2 LOCATIONS ON ROUTE 202: SCHOOL STREET & FIVE CORNERS	2	STBG	\$3,382,672	\$2,382,672	\$1,906,138	\$476,534	43		62.5		MassDOT D2	Construction / (YOE \$3,382,672) / 43 TEC / 75% STBG, HSIP		
Roadway Reconstruction								\$23,825,842	\$19,060,674	\$4,765,168								
2023	608163	Pioneer Valley	Wales	WALES- RECONSTRUCTION & IMPROVEMENTS ON MONSON ROAD, FROM THE MONSON T.L. TO REED HILL ROAD (1.5 MILES)	2	STBG	\$5,656,106	\$5,656,106	\$4,524,885	\$1,131,221	39.5		20.5		Wales	Construction / YOE \$5,656,106 / 39.5 TEC / 75% STBG		
2023	608374	Pioneer Valley	West Springfield	WEST SPRINGFIELD- RECONSTRUCTION OF MEMORIAL AVENUE (ROUTE 147), FROM COLONY ROAD TO THE MEMORIAL AVENUE ROTARY (1.4 MILES)	2	STBG	\$21,692,328	\$17,669,498	\$14,135,598	\$3,533,900	72.5		69		West Springfield	Construction / (YOE \$21,692,328) 3 years of AC funding FFY 2022 \$1, 125,167 FFY2023 \$18,169,736 FFY2024 \$2,397,425 / 72.5 TEC / 75% / STBG 100% due June 21		
2023	608374	Pioneer Valley	West Springfield	WEST SPRINGFIELD- RECONSTRUCTION OF MEMORIAL AVENUE (ROUTE 147), FROM COLONY ROAD TO THE MEMORIAL AVENUE ROTARY (1.4 MILES)	2	TAP	\$21,692,328	\$500,238	\$400,190	\$100,048	72.5		69		West Springfield	Construction / (YOE \$21,692,328) 3 years of AC funding FFY 2022 \$1, 125,167 FFY2023 \$18,169,736 FFY2024 \$2,397,425 / 72.5 TEC / 75% / STBG 100% due June 21		
Section 2A / State Prioritized Reliability Projects								\$30,978,819	\$25,245,958	\$5,732,861								
Non-Interstate Pavement								\$22,744,177	\$18,195,342	\$4,548,835								
2023	604209	Pioneer Valley	Multiple	HOLYOKE- WEST SPRINGFIELD- REHABILITATION OF ROUTE 5 (RIVERDALE ROAD), FROM I-91 (INTERCHANGE 13) TO MAIN STREET IN HOLYOKE & FROM ELM STREET TO NORTH ELM STREET IN WEST SPRINGFIELD (3.2 MILES)	2	NHPP	\$22,744,178	\$22,744,177	\$18,195,342	\$4,548,835	59		65.5		MassDOT	Construction (YOE \$22,744,177) / 59 TEC / 75% Design / NHPP		
Bridge On-system NHS								\$0	\$0	\$0								
2023	606552	Pioneer Valley	Northampton	NORTHAMPTON- BRIDGE REPLACEMENT, N-19-059, I-91 OVER US ROUTE 5 AND B&MRR, BRIDGE REPLACEMENT, N-19-060, I-91 OVER HOCKANUM ROAD AND IMPROVEMENTS TO I-91/INTERCHANGE 18	2	NHPP	\$60,423,296	\$0	\$0	\$0					MassDOT	AC'd over 2020-2024; TFPC: \$60,423,296; NHPP + HIP Bridge (2019)		
Safety Improvements								\$4,629,032	\$4,166,129	\$462,903								
2023	608565	Pioneer Valley	Springfield	SPRINGFIELD- IMPROVEMENTS ON ST. JAMES AVENUE AT ST. JAMES BOULEVARD AND CAREW STREET	2	HSIP	\$4,629,032	\$4,629,032	\$4,166,129	\$462,903					MassDOT			
Bridge Off-system								\$3,605,610	\$2,884,488	\$721,122								
2023	608847	Pioneer Valley	Wales	WALES- BRIDGE REPLACEMENT, W-02-002, HOLLAND ROAD OVER WALES BROOK	2	STBG-BR-Off	\$3,049,418	\$3,049,418	\$2,439,534	\$609,884					MassDOT			
2023	609120	Pioneer Valley	Ludlow	LUDLOW- BRIDGE REPLACEMENT, L-16-026, PINEY LANE OVER BROAD BROOK	2	STBG-BR-Off	\$556,192	\$556,192	\$444,954	\$111,238					MassDOT			
Section 2B / State Prioritized Modernization Projects								\$4,346,994	\$3,726,676	\$620,318								
Intersection Improvements								\$2,490,805	\$2,241,725	\$249,081								
2023	608560	Pioneer Valley	Springfield	SPRINGFIELD- IMPROVEMENTS ON ST. JAMES AVENUE AT TAPLEY STREET	2	HSIP	\$2,490,805	\$2,490,805	\$2,241,725	\$249,081			75.5		MassDOT			
Roadway Reconstruction								\$1,856,189	\$1,484,951	\$371,238								
2023	609517	Pioneer Valley	Longmeadow	LONGMEADOW- BLUEBERRY HILL ELEMENTARY SCHOOL IMPROVEMENTS (SRTS)	2	TAP	\$364,139	\$364,139	\$291,311	\$72,828			29.5		Town of Longmeadow			
2023	610652	Pioneer Valley	Agawam	AGAWAM- ROBINSON PARK ELEMENTARY SCHOOL IMPROVEMENTS (SRTS)	2	TAP	\$1,492,050	\$1,492,050	\$1,193,640	\$298,410			36.5		Town of Agawam			
Section 2C / State Prioritized Expansion Projects								\$8,748,334	\$6,998,667	\$1,749,667								
Bicycle and Pedestrian								\$8,748,334	\$6,998,667	\$1,749,667								
2023	608157	Pioneer Valley	Springfield	SPRINGFIELD- MCKNIGHT COMMUNITY TRAIL CONSTRUCTION, FROM ARMORY STREET TO HAYDEN AVENUE (1.5 MILES)	2	CMAQ	\$8,748,334	\$8,748,334	\$6,998,667	\$1,749,667	42.5		30.5		Springfield	Construction (YOE \$8,748,334) / 42.5 TEC / Pre 25% / CMAQ / MassDOT Bicycle and Pedestrian Program		

Year	MassDOT Project ID	MPO	Municipality	MassDOT Project Description	District	Funding Source	Adjusted TFPC	Total Programmed Funds	Federal Funds	Non-Federal Funds	MPO Project Score	Entity Receiving Transfer	PSAC Score	Earmark Details	Proponent	Other Information		
Federal Fiscal Year 2024								\$31,351,752	\$25,181,402	\$6,170,350								
Section 1A / Regionally Prioritized Projects								\$27,202,550	\$21,862,040	\$5,340,510								
Roadway Reconstruction								\$27,202,550	\$21,862,040	\$5,340,510								
2024	606797	Pioneer Valley	Cummington	CUMMINGTON- RETAINING WALL REPLACEMENT ON ROUTE 9 ADJACENT TO SWIFT RIVER	1	STBG	\$1,792,800	\$1,792,800	\$1,434,240	\$358,560	9				MassDOT D1	Construction / (YOE \$1,792,800 / 9 TEC / Pre 25% / STBG		
2024	608374	Pioneer Valley	West Springfield	WEST SPRINGFIELD- RECONSTRUCTION OF MEMORIAL AVENUE (ROUTE 147), FROM COLONY ROAD TO THE MEMORIAL AVENUE ROTARY (1.4 MILES)	2	STBG	\$21,692,328	\$2,397,425	\$1,917,940	\$479,485	72.5		69		West Springfield	Construction / (YOE \$21,692,328) 3 years of AC funding FFY 2022 \$1, 125,167 FFY2023 \$18,169,736 FFY2024 \$2,397,425 / 72.5 TEC / 75% / STBG 100% due June 21		
2024	608717	Pioneer Valley	Springfield	SPRINGFIELD- RECONSTRUCTION OF SUMNER AVENUE AT DICKINSON STREET AND BELMONT AVENUE (THE "X")	2	HSIP	\$11,801,891	\$1,000,000	\$900,000	\$100,000	71		77.5		Springfield	Construction / YOE \$11,801,892) 71 TEC / 25% STBG, HSIP, TAP		
2024	608717	Pioneer Valley	Springfield	SPRINGFIELD- RECONSTRUCTION OF SUMNER AVENUE AT DICKINSON STREET AND BELMONT AVENUE (THE "X")	2	STBG	\$11,801,891	\$10,301,891	\$8,241,513	\$2,060,378	71		77.5		Springfield	Construction / YOE \$11,801,892) 71 TEC / 25% STBG, HSIP, TAP		
2024	608717	Pioneer Valley	Springfield	SPRINGFIELD- RECONSTRUCTION OF SUMNER AVENUE AT DICKINSON STREET AND BELMONT AVENUE (THE "X")	2	TAP	\$11,801,891	\$500,000	\$400,000	\$100,000	71		77.5		Springfield	Construction / YOE \$11,801,892) 71 TEC / 25% STBG, HSIP, TAP		
2024	609287	Pioneer Valley	Worthington	WORTHINGTON- RECONSTRUCTION & RELATED WORK ON ROUTE 143 (PHASE II), FROM PERU T.L. TO COLD STREET	1	STBG	\$11,210,433	\$11,210,434	\$8,968,347	\$2,242,087	41		26.5		Worthington	Construction / (YOE \$11,210,434) / 41 TEC / 75% Project Phase I funded in FFY 2019 / STBG		
Section 2A / State Prioritized Reliability Projects								\$4,149,202	\$3,319,362	\$829,840								
Bridge On-system NHS								\$0	\$0	\$0								
2024	606552	Pioneer Valley	Northampton	NORTHAMPTON- BRIDGE REPLACEMENT, N-19-059, I-91 OVER US ROUTE 5 AND B&MRR, BRIDGE REPLACEMENT, N-19-060, I-91 OVER HOCKANUM ROAD AND IMPROVEMENTS TO I-91/INTERCHANGE 18	2	NHPP	\$60,423,296	\$0	\$0	\$0					MassDOT	AC'd over 2020-2024; TFPC: \$60,423,296; NHPP + HIP Bridge (2019)		
Bridge Off-system								\$4,149,202	\$3,319,362	\$829,840								
2024	608846	Pioneer Valley	Monson	MONSON- BRIDGE REPLACEMENT, M-27-015, OLD WALES ROAD OVER CONANT BROOK	2	STBG-BR-Off	\$2,613,234	\$2,613,234	\$2,090,587	\$522,647					MassDOT			
2024	610779	Pioneer Valley	Hampden	HAMPDEN- BRIDGE MAINTENANCE, H-04-004, ROCKADUNDEE BRIDGE OVER SCANTIC RIVER	2	STBG-BR-Off	\$1,535,968	\$1,535,968	\$1,228,774	\$307,194					MassDOT			

Year	MassDOT Project ID	MPO	Municipality	MassDOT Project Description	District	Funding Source	Adjusted TFPC	Total Programmed Funds	Federal Funds	Non-Federal Funds	MPO Project Score	Entity Receiving Transfer	PSAC Score	Earmark Details	Proponent	Other Information		
Federal Fiscal Year 2025								\$96,736,029	\$77,388,823	\$19,347,206								
Section 1A / Regionally Prioritized Projects								\$23,991,612	\$19,193,290	\$4,798,322								
Roadway Reconstruction								\$23,991,612	\$19,193,290	\$4,798,322								
2025	608727	Pioneer Valley	Holland	HOLLAND- RESURFACING & RELATED WORK ON BRIMFIELD ROAD, FROM WALES ROAD TO STURBRIDGE STREET (0.9 MILES - PHASE II)	2	STBG	\$1,177,653	\$1,177,653	\$942,122	\$235,531	27.5				Holland	Construction (YOE \$1,177,653) 27.5 TEC / Pre 25% / STBG		
2025	608881	Pioneer Valley	Longmeadow	LONGMEADOW- SPRINGFIELD- RESURFACING AND INTERSECTION IMPROVEMENTS ON LONGMEADOW STREET (ROUTE 5) AND CONVERSE STREET (0.84 MILES)	2	STBG	\$6,754,438	\$6,754,438	\$5,403,550	\$1,350,888	59		57.5		Longmeadow	Construction (YOE \$6,754,438 / 59 TEC / 25% / STBG		
2025	609286	Pioneer Valley	Northampton	NORTHAMPTON- DOWNTOWN COMPLETE STREETS CORRIDOR AND INTERSECTION IMPROVEMENTS ON MAIN STREET (ROUTE 9)	2	STBG	\$16,059,521	\$16,059,521	\$12,847,617	\$3,211,904	80		71.5		Northampton	Construction (YOE \$16,059,520) 80 TEC / Pre 25% / STBG		
Section 2A / State Prioritized Reliability Projects								\$65,775,557	\$52,620,446	\$13,155,111								
Bridge On-system Non-NHS								\$10,132,472	\$8,105,978	\$2,026,494								
2025	604136	Pioneer Valley	Multiple	MONSON- PALMER- BRIDGE REPLACEMENT, M-27-007=P-01-007, STATE AVENUE OVER THE QUABOAG RIVER	2	STBG	\$10,132,472	\$10,132,472	\$8,105,978	\$2,026,494					MassDOT			
Bridge On-system NHS								\$43,368,357	\$34,694,686	\$8,673,671								
2025	608460	Pioneer Valley	Hadley	HADLEY- BRIDGE REPLACEMENT, H-01-005, BAY ROAD (ROUTE 47) OVER THE FORT RIVER	2	NHPP	\$6,471,024	\$6,471,024	\$5,176,819	\$1,294,205					MassDOT			
2025	609409	Pioneer Valley	Springfield	SPRINGFIELD- BRIDGE REPLACEMENT, S-24-016, ARMORY STREET OVER CSX MAINLINE & S-24-026, ARMORY STREET OVER ABANDONED CSX	2	NHPP	\$41,325,013	\$36,897,333	\$29,517,866	\$7,379,467					MassDOT			
Bridge Off-system								\$5,763,117	\$4,610,494	\$1,152,623								
2025	608869	Pioneer Valley	Northampton	NORTHAMPTON- BRIDGE REPLACEMENT, N-19-068, OLD SPRINGFIELD ROAD OVER THE MILL RIVER	2	STBG-BR-Off	\$3,826,144	\$3,826,144	\$3,060,915	\$765,229					MassDOT			
2025	610768	Pioneer Valley	Westhampton	WESTHAMPTON- BRIDGE MAINTENANCE, W-27-028, PERRY HILL ROAD OVER NORTH BROOK OF MANHAN RIVER	2	STBG-BR-Off	\$1,936,973	\$1,936,973	\$1,549,578	\$387,395					MassDOT			
Safety Improvements								\$0	\$0	\$0								
2025	611953	Pioneer Valley	Multiple	SPRINGFIELD- CHICOPEE- GUIDE AND TRAFFIC SIGN REPLACEMENT ON A SECTION OF INTERSTATE 291	2	HSIP	\$772,896	\$0	\$0	\$0					MassDOT			
Non-Interstate Pavement								\$6,511,611	\$5,209,289	\$1,302,322								
2025	612031	Pioneer Valley	Worthington	WORTHINGTON- RESURFACING AND RELATED WORK ON ROUTE 112	1	NHPP	\$6,511,611	\$6,511,611	\$5,209,289	\$1,302,322					MassDOT			
Section 2B / State Prioritized Modernization Projects								\$1,994,161	\$1,595,329	\$398,832								
Roadway Reconstruction								\$1,994,161	\$1,595,329	\$398,832								
2025	612079	Pioneer Valley	Chicopee	CHICOPEE- HUGH SCOTT STREIBER ELEMENTARY SCHOOL IMPROVEMENTS (SRTS)	2	TAP	\$1,383,724	\$1,383,724	\$1,106,979	\$276,745					City of Chicopee			
2025	612080	Pioneer Valley	Springfield	SPRINGFIELD- REBECCA M. JOHNSON ELEMENTARY SCHOOL IMPROVEMENTS (SRTS)	2	TAP	\$610,437	\$610,437	\$488,350	\$122,087					City of Springfield			
Section 2C / State Prioritized Expansion Projects								\$4,974,699	\$3,979,759	\$994,940								
Bicycle and Pedestrian								\$4,974,699	\$3,979,759	\$994,940								
2025	608413	Pioneer Valley	Northampton	NORTHAMPTON- ROCKY HILL GREENWAY MULTI-USE TRAIL, FROM THE MANHAN RAIL TRAIL TO ROCKY HILL ROAD (0.4 MILES)	2	CMAQ	\$1,918,701	\$1,918,701	\$1,534,961	\$383,740	38.5		21		Northampton	Construction (YOE \$1,918,701) 38.5 TEC / 100% Design / CMAQ / MassDOT Bicycle and Pedestrian Program		
2025	610657	Pioneer Valley	Multiple	EASTHAMPTON- NORTHAMPTON- INSTALLATION OF A SHARED-USE PATH ALONG MOUNT TOM ROAD FROM THE MANHAN TRAIL TO ATWOOD DRIVE	2	STBG	\$3,055,998	\$3,055,998	\$2,444,798	\$611,200			37.5		MassDOT			

Year	MassDOT Project ID	MPO	Municipality	MassDOT Project Description	District	Funding Source	Adjusted TFPC	Total Programmed Funds	Federal Funds	Non-Federal Funds	MPO Project Score	Entity Receiving Transfer	PSAC Score	Earmark Details	Proponent	Other Information		
Federal Fiscal Year 2026								\$23,260,487	\$18,685,679	\$4,574,808								
Section 1A / Regionally Prioritized Projects								\$22,487,591	\$17,990,073	\$4,497,518								
Roadway Reconstruction								\$22,487,591	\$17,990,073	\$4,497,518								
2026	608785	Pioneer Valley	South Hadley	SOUTH HADLEY- RECONSTRUCTION OF MAIN STREET FROM THE CHICOPEE CITY LINE TO CANAL STREET (0.67 MILES)	2	STBG	\$6,302,085	\$6,302,085	\$5,041,668	\$1,260,417	38.5				South Hadley	Construction (YOE \$6,302,085) TEC 38.5 / 25%		
2026	609061	Pioneer Valley	Chicopee	CHICOPEE- INTERSECTION IMPROVEMENTS AT MONTGOMERY STREET, GRANBY ROAD, AND MCKINSTRY AVENUE	2	STBG	\$10,264,718	\$10,264,718	\$8,211,774	\$2,052,944	56				Chicopee	Construction (YOE \$10,264,718) TEC 56 / 25%		
2026	609065	Pioneer Valley	Holyoke	HOLYOKE- RESURFACING AND RELATED WORK ON CABOT STREET AND RACE STREET (CENTER CITY CONNECTOR)	2	STBG	\$5,920,788	\$5,920,788	\$4,736,630	\$1,184,158	56.5				Holyoke	Construction (YOE \$5,920,788) TEC 56.5 / 25%		
Section 2A / State Prioritized Reliability Projects								\$772,896	\$695,606	\$77,290								
Safety Improvements								\$772,896	\$695,606	\$77,290								
2026	611953	Pioneer Valley	Multiple	SPRINGFIELD- CHICOPEE- GUIDE AND TRAFFIC SIGN REPLACEMENT ON A SECTION OF INTERSTATE 291	2	HSIP	\$772,896	\$772,896	\$695,606	\$77,290					MassDOT			

APPENDIX C: Operating and Maintenance Expenditures 2021-2025

Operating and Maintenance Expenditures as of April 2021						
Statewide and District Contracts plus Expenditures within MPO boundaries						
Program Group/Sub Group	Est SFY 2021 Spending	Est SFY 2022 Spending	Est SFY 2023 Spending	Est SFY 2024 Spending	Est SFY 2025 Spending	
Part 1: Non-Federal Aid						
Section I - Non Federal Aid Maintenance Projects - State Bondfunds						
01 - ADA Retrofits						
New Sidewalks and Curbing	\$ 374,915	\$ 77,526	\$ 115,304	\$ 38,435	\$ -	
02 - Bicycles and pedestrians program						
Bikeway/Bike Path Construction	\$ -	\$ -	\$ -	\$ -	\$ -	
03 - Bridge						
Bridge Maintenance	\$ 50,530,642	\$ 38,042,142	\$ 17,926,495	\$ 2,636,969	\$ -	
Bridge Maintenance - Deck Repairs	\$ 8,768,432	\$ 6,573,425	\$ 3,751,868	\$ 1,656,076	\$ 155,826	
Bridge Maintenance - Joints	\$ 1,155,000	\$ 2,287,026	\$ 1,516,850	\$ 460,985	\$ 71,388	
Bridge Preservation	\$ 4,252,063	\$ 4,518,597	\$ 1,646,318	\$ -	\$ -	
Bridge Reconstruction/Rehab	\$ -	\$ 175,570	\$ 526,709	\$ 526,709	\$ 43,892	
Draw bridge Maintenance	\$ 7,557,601	\$ 6,380,659	\$ 2,434,718	\$ -	\$ -	
Painting - Structural	\$ 6,641,700	\$ 5,373,228	\$ 542,013	\$ -	\$ -	
Structures Maintenance	\$ 1,828,780	\$ 225,000	\$ 130,601	\$ -	\$ -	
04 - Capacity						
Hwy Reconstr - Added Capacity	\$ -	\$ -	\$ -	\$ -	\$ -	
05 - Facilities						
Vertical Construction (Ch 149)	\$ 10,306,212	\$ 3,605,059	\$ 2,272,733	\$ 695,293	\$ -	
07 - Intersection Improvements						
Traffic Signals	\$ 3,023,006	\$ 2,194,146	\$ 444,178	\$ 144,000	\$ -	
08 - Interstate Pavement						
Resurfacing Interstate	\$ -	\$ -	\$ -	\$ -	\$ -	
09 - Intelligent Transportation Systems Program						
Intelligent Transportation System	\$ -	\$ -	\$ -	\$ -	\$ -	
10 - Non-interstate DOT Pavement Program						
Milling and Cold Planing	\$ -	\$ 489,886	\$ 839,805	\$ 209,951	\$ -	
Resurfacing	\$ 10,466,353	\$ 4,796,360	\$ 3,271,364	\$ 696,316	\$ -	
Resurfacing DOT Owned Non-Interstate	\$ 8,495,515	\$ 3,639,973	\$ 1,657,155	\$ -	\$ -	
11 - Roadway Improvements						
Asbestos Removal	\$ -	\$ 1,246,592	\$ -	\$ -	\$ -	
Catch Basin Cleaning	\$ 1,786,357	\$ 1,529,801	\$ 1,350,344	\$ 285,946	\$ -	
Contract Highway Maintenance	\$ 4,636,076	\$ 2,012,347	\$ 634,879	\$ 69,639	\$ -	
Crack Sealing	\$ 2,415,593	\$ 1,371,677	\$ 425,506	\$ -	\$ -	
Culvert Maintenance	\$ 496,297	\$ 588,151	\$ -	\$ -	\$ -	
Culvert Reconstruction/Rehab	\$ 444,173	\$ -	\$ -	\$ -	\$ -	
Drainage	\$ 8,178,326	\$ 5,030,169	\$ 3,473,204	\$ 524,839	\$ -	
Guard Rail & Fencing	\$ 6,443,072	\$ 2,462,423	\$ 1,440,851	\$ 425,823	\$ -	
Highway Sweeping	\$ 973,750	\$ 1,128,020	\$ 1,224,735	\$ 160,245	\$ -	
Landscaping	\$ 799,028	\$ -	\$ -	\$ -	\$ -	
Mowing and Spraying	\$ 2,705,380	\$ 2,790,093	\$ 1,240,827	\$ 126,229	\$ -	
Sewer and Water	\$ 11,200	\$ 583	\$ 1,100	\$ 733	\$ -	
Tree Trimming	\$ 3,834,965	\$ 3,443,210	\$ 2,634,418	\$ 449,600	\$ -	

12 - Roadway Reconstruction										
Hwy Reconstr - Restr and Rehab	\$	2,402,766	\$	558,020	\$	222,630	\$	-	\$	-
13 - Safety Improvements										
Electrical	\$	1,026,290	\$	262,366	\$	-	\$	-	\$	-
Impact Attenuators	\$	823,156	\$	870,993	\$	1,086,817	\$	634,834	\$	254,897
Lighting	\$	2,163,221	\$	1,881,231	\$	421,297	\$	81,000	\$	-
Pavement Marking	\$	3,757,747	\$	3,227,399	\$	983,304	\$	194,783	\$	-
Safety Improvements	\$	619,617	\$	225,000	\$	33,595	\$	-	\$	-
Sign Installation/Upgrading	\$	249,246	\$	361,674	\$	498,880	\$	227,526	\$	-
Structural Signing	\$	773,069	\$	237,152	\$	119,607	\$	-	\$	-
Section I Total:	\$	157,939,547	\$	107,605,498	\$	52,868,105	\$	10,245,930	\$	526,003
Section II - Non Federal Aid Highway Operations - State Operating Budget										
Snow and Ice Operations & Materials										
	\$	73,700,000	\$	45,000,000	\$	45,000,000	\$	45,000,000	\$	45,000,000
District Maintenance Payroll										
Mowing, Litter Mgmt, Sight Distance Clearing, Etc.	\$	33,575,810	\$	34,583,084	\$	35,620,577	\$	36,689,194	\$	37,789,870
Section II Total:	\$	107,275,810	\$	79,583,084	\$	80,620,577	\$	81,689,194	\$	82,789,870
Grand Total NFA:	\$	265,215,357	\$	187,188,583	\$	133,488,682	\$	91,935,124	\$	83,315,873

APPENDIX D Metropolitan Planning Area (MPA) State and Local Consulted Agencies

As required in MAP-21, the Moving Ahead for Progress in the 21st Century Act (P.L. 112-141) consulted with agencies and officials responsible for other planning activities within the MPA (metropolitan planning area) that are affected by transportation (including State and local planned growth, economic development, environmental protection, airport operations, or freight movements) or coordinate its planning process (to the maximum extent practicable) with such planning activities

PVMPO fulfilled these requirements through the processes tied to the Joint Transportation Committee (JTC). Listed below are two tables, table 25 list agencies with transportation interest in the Metropolitan Planning Area (MPA) that were contacted for the purpose of consultation while developing the TIP. Table 31 lists the agencies from table 30 which responded and coordinated meetings were held during TIP development.

Table 31 Agencies Contacted

Agency	Agency Location
Westfield River Wild and Scenic Advisory Committee	Haydenville
MassDOT - Office of Transportation Planning	Boston
FEDERAL HIGHWAY ADMIN	Cambridge
US EPA	Boston
MassDOT	Boston
AIR QUALITY CONTROL (DEP)	Boston
FEDERAL TRANSIT ADMIN	Cambridge
MassDOT Highway Division District 1& 2	Northampton/Lenox
OFFICE OF SOCIAL CONCERN	Springfield
Economic Development Council of Western Mass	Springfield
PETER PAN BUS LINES, INC.	Springfield
Pioneer Valley Transit Authority (PVTA)	Springfield
BARNES AIRPORT	Westfield
Pioneer Valley RR	Westfield
Bike/Ped Community (MassBike)	Williamsburg
UMASS Transit	Amherst
Columbia Greenway Rail Trail Committee	Westfield

These agencies are solicited to comment and provide relevant information during TIP development and are invited to attend all meetings and workshop involving project evaluation. Agendas and information in regards the TIP and its development are distributed by mail prior to meetings as outlined in the Public Participation Plan for the Pioneer Valley.

Table 32 Agencies Providing Consultation

Agency	Agency Location
MassDOT – OTP	Boston
FHWA	Cambridge

APPENDIX D: FAST Act Performance Management Information

The FHWA and FTA are jointly issuing this final rule to update the regulations governing the development of metropolitan transportation plans (MTP) and programs for urbanized areas, long-range statewide transportation plans and programs, and the congestion management process as well as revisions related to the use of and reliance on planning products developed during the planning process for project development and the environmental review process. The changes reflect the passage of the Moving Ahead for Progress in the 21st Century Act (MAP-21) and the Fixing America's Surface Transportation (FAST) Act. The MAP-21 continues many provisions related to transportation planning from prior laws; however, it introduces transformational changes and adds some new provisions. The FAST Act makes minor edits to existing provisions. The changes make the regulations consistent with current statutory requirements and implement the following: A new mandate for State departments of transportation (hereafter referred to simply as "States") and metropolitan planning organizations (MPO) to take a performance-based approach to planning and programming; a new emphasis on the nonmetropolitan transportation planning process, by requiring States to have a higher level of involvement with nonmetropolitan local officials and providing a process for the creation of regional transportation planning organizations (RTPO); a structural change to the membership of the larger MPOs; a new framework for voluntary scenario planning; new authority for the integration of the planning and environmental review processes; and a process for programmatic mitigation plans.²

PVPC accomplished the MTP requirements of FAST Act through the recent update to the Transportation Evaluation Criteria (TEC) for the Pioneer Valley MPO. The table below shows the relationship between FAST act planning factors and our TEC.

Fast Act Planning Factors Relationship to the Transportation Evaluation Criteria (TEC)

Factor	Fast Act 10 Planning Factors Description	TEC Scoring Criteria
1	Support the economic vitality of the metropolitan areas, especially by enabling global competitiveness, productivity, and efficiency.	Smart Growth and Economic Development, System Preservation, Modernization and Efficiency
2	Increase the safety of the transportation system for motorized and non-motorized users.	Safety and Security, Quality of Life
3	Increase the security of the transportation system for motorized and non-motorized users.	Safety and Security, Quality of Life
4	Increase the accessibility and mobility of people and for freight.	Mobility, Smart Growth and Economic Development
5	Protect and enhance the environment, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns.	Environment and Climate Change, Quality of Life, Livability, Smart Growth and Economic Development
6	Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight.	Smart Growth and Economic Development, Mobility
7	Promote efficient system management and operation.	System Preservation, Modernization and Efficiency, Mobility

²<https://www.federalregister.gov/articles/2016/05/27/2016-11964/statewide-and-nonmetropolitan-transportation-planning-metropolitan-transportation-planning#h-9>

8	Emphasize the preservation of the existing transportation system.	System Preservation, Modernization and Efficiency
9	Improve the resiliency and reliability of the transportation system and reduce or mitigate storm water impacts of surface transportation.	Environment and Climate Change
10	Enhancing travel and tourism.	Mobility, Quality of Life

APPENDIX E: Planning Acronyms

3C - Continuing, Comprehensive, and Cooperative Planning Process
AADT - Average Annual Daily Traffic
AASHTO - American Association of State Highway and Transportation Officials
ADA - Americans with Disabilities Act (1990)
ADT - Average Daily Traffic
AFV - Alternative Fuel Vehicles
ATR - Automatic Traffic Recorder
AVR - Average Vehicle Ridership
BAPAC - Barnes Aquifer Protection Advisory Committee
BID - Business Improvement District
BLOS - Bicycle Level of Service
BMP - Best Management Practice
BMS - Bridge Management System
CAAA - Clean Air Act Amendments of 1990
CBD - Central Business District
CDBG - Community Development Block Grant
CDC - Centers for Disease Control
CEDS - Comprehensive Economic Development Strategy
CIP - Capital Improvements Plan (or Program)
CMAQ - Congestion Mitigation and Air Quality Improvement Program
CMP - Congestion Management Process
CNG - Compressed Natural Gas
CO - Carbon Monoxide
COG - Council of Governments
CommPASS - Commonwealth Procurement Access and Solicitation System
CPA - Community Preservation Act
CPTC - Citizen Planner Training Collaborative
CRCOG - Capitol Region Council of Governments
CSO - Combined Sewer Overflow
DCR - Department of Conservation and Recreation
DEP - Department of Environmental Protection
DHCD - Department of Housing and Community Development
DLTA - Direct Local Technical Assistance
DOT - Department of Transportation
DPW - Department of Public Works
E.O. - Executive Order
EDC - Economic Development Council
EIR - Environmental Impact Report
EIS - Environmental Impact Statement
EJ - Environmental Justice
ENF - Environmental Notification Form
EOA - Economic Opportunity Area
EOEEA - Executive Office of Energy and Environmental Affairs
EPA - Environmental Protection Agency
FA - Federal Aid
FAST – Fixing America’s Surface Transportation Act
FC - Functional Classification (of roadways)
FHA - Federal Housing Administration
FHWA - Federal Highway Administration
FRCOG - Franklin Regional Council of Governments
FRTA – Franklin Regional Transit Authority
FTA - Federal Transit Administration
GHG - Greenhouse Gas
GIS - Geographic Information System
GPS - Global Positioning System
HOV - High Occupancy Vehicle

HUD - U.S. Department of Housing and Urban Development
ISTEA - Intermodal Surface Transportation Efficiency Act of 1991
ITS - Intelligent Transportation Systems
JARC - Job Access and Reverse Commute
JLSB - Jacob's Ladder Scenic Byway
JLT - Jacob's Ladder Trail
JTC - Joint Transportation Committee
LEP - Limited English Proficiency
LOS - Level of Service
LPMS - Local Pavement Management System
LRV - Light Rail Vehicle
LTA - Local Technical Assistance
M.G.L. - Massachusetts General Laws
MAP 21 - Moving Ahead for Progress in the 21st Century
MARPA - Massachusetts Association of Regional Planning Agencies
MassDOT - Massachusetts Department of Transportation
MassGIS - Massachusetts Geographic Information System
MEPA - Massachusetts Environmental Policy Act
MMA - Massachusetts Municipal Association
MOA - Memorandum of Agreement
MOU - Memorandum of Understanding
MPO - Metropolitan Planning Organization
MUTCD - Manual of Uniform Traffic Control Devices
NFA - Non-Federal Aid
NHS - National Highway System
NHTSA - National Highway Traffic Safety Administration
NOx - Nitrogen Oxide
NTSB - National Transportation Safety Board
OCI - Overall Condition Index (Pavement)
PCI - Pavement Condition Index
PL - [Metropolitan] Planning Funds
PMS - Pavement Management System
PMUG - Pavement Management Users Group
PPP - Public Participation Process
PVTA - Pioneer Valley Transit Authority
QVCDC - Quabog Valley Community Development Corp.
REB - Regional Employment Board
RIF - Roadway Inventory Files
RPA - Regional Planning Agency
RTA - Regional Transit Authority
RTP - Regional Transportation Plan
SAFETEA-LU - Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users
SBA - Small Business Administration
SIP - State Implementation Plan (for air quality)
SKC - Sustainable Knowledge Corridor
SOV - Single Occupancy Vehicle
SPR - Statewide Planning and Research Funds
STIP - Statewide Transportation Improvement Program
STP - Surface Transportation Program
TCSP - Transportation and Community System Preservation [Pilot Program]
TDM - Transportation Demand Management
TEA-21 - Transportation Equity Act for the 21st Century
TIP - Transportation Improvement Program
TMC - Turning Movement Count
TND - Traditional Neighborhood District
TOD - Transit Oriented Design (or Development)

TRB - Transportation Research Board
TRO - Trip Reduction Ordinance
TSM - Transportation Systems Management
UMass - University of Massachusetts
UPWP - Unified Planning Work Program
VMT - Vehicle Miles Traveled
VOC - Volatile Organic Compound
VOR - Vehicle Occupancy Rate
WBE - Women-owned Business Enterprises
WRWA - Westfield River Watershed Association
WRWSAC - Westfield River Wild & Scenic Advisory Committee
ZBA - Zoning Board of Adjustment (or Appeals)