Metropolitan Planning Organization

Transportation Improvement Program

FY 2019-2023 METROPOLITAN PLANNING ORGANIZATION PIONEER VALLEY REGION, MASSACHUSETTS

Endorsed 22 May 2018





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 or reflect those of the U.S. Department of Transportation.

TRANSPORTATION IMPROVEMENT PROGRAM (TIP)

2019 - 2023

FOR THE METROPOLITAN PLANNING ORGANIZATION PIONEER VALLEY REGION, MASSACHUSETTS

Endorsed: May 22, 2018



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Table of Contents

PREFACE
I.GENERAL SUPPORT INFORMATION
FEDERAL AUTHORIZTION
CONFORMITY WITH THE REGIONAL TRANSPORTATION PLAN
METROPOLITAN PLANNING ORGANIZATION13
DEVELOPMENT OF THE TIP13
PROJECT SELECTION AND PROGRAMMING
AMENDMENT/ADJUSTMENT OF THE TIP
DESCRIPTION OF FUNDING SOURCES
TRANSPORTATION SYSTEM OPERATING AND MAINTENANCE COSTS22
II. PUBLIC PARTICIPATION SUMMARY AND CHANGES
III. FEDERAL COMPONENT47
PIONEER VALLEY MPO ENDORSEMENT
CERTIFICATION OF THE 3-C PLANNING PROCESS53
FUNDING INFORMATION
THE GEOGRAPHIC DISTRIBUTION OF FEDERAL TARGET FUNDS IN THE PIONEER VALLEY METROPOLITAN PLANNING REGION – 2019 TO 202361
IV. FEDERAL AID REGIONAL PROJECT LISTINGS67
ORGANIZATION OF PROJECT LISTINGS
V. TRANSIT PROJECT LISTING FOR FFY 2019 - 202397
VII. PROJECT IMPLEMENTATION107
VIII. AIR QUALITY CONFORMITY INFORMATION111
IX. GREENHOUSE GAS MONITORING AND EVALUATION113
Regional Greenhouse Gas Impact Summary Tables for FFY 2019 – 2022 TIP115
APPENDICES
APPENDIX A: MassDOT Targets

APPENDIX B: Metropolitan Planning Area (MPA) State and Local Consulted Agencies	1
APPENDIX C: FAST Act Performance Management Information14	3
APPENDIX D: Planning Acronyms	5

List of Tables

FIGURE 1 TOTAL FATALITIES	11
FIGURE 2 TOTAL FATILITIES PER 100 MILLION VMT	11
FIGURE 3 TOTAL SERIOUS INJURIES	12
FIGURE 4 NON MOTORIZED FATALITIES	12
TEC SCORING SUMMARY	
TABLE 1 INTEGRATION OF GREENDOT GOALS INTO TIP	18
TABLE 2 TRANSPORTATION OPERATING AND MAINTENANCE EXPENDITURES	23
TABLE 3 TRANSIT OPERATING AND MAINTENANCE EXPENDITURES	23
TABLE 4 COMMENTS RECIEVED DURING PUBLIC REVIEW	
TABLE 5 FEDERAL HIGHWAY FINANCIAL PLAN	
TABLE 6 FEDERAL TRANSIT FINANCIAL PLAN	
TABLE 7 PROJECTS PROPOSED TO BE COMPLETED IN THE 2019-2023 TIP BY SUB-REGION	62
TABLE 8 PROJECTS PROPOSED TO BE COMPLETED IN THE 2019-2023 TIP BY MUNICIPALITY	
FIGURE 5 PROJECT PROGRAMMED IN THE TIP	
TABLE 9 SUMMARY OF PROGRAMMED PROJECTS SECTION 1 A FEDERAL AID TARGET PROJECTS	
TABLE 10 FEDERALLY FUNDED PROJECTS YEAR 2019.	72
TABLE 11: FEDERALLY FUNDED PROJECTS 2020	-
TABLE 12: FEDERALLY FUNDED PROJECTS 2021	
TABLE 13: FEDERALLY FUNDED PROJECTS YEAR 2022.	84
TABLE 14: FEDERALLY FUNDED PROJECTS YEAR 2023	87
TABLE 15: UNIVERSE OF PROJECTS ANS TEC SCORES	
TABLE 16 HIGH PRIORITY PROJECTS (HPP) FUNDING	
TABLE 16: FFY 2019 TRANSIT PROJECT INFORMATION	
TABLE 17: FFY 2020 TRANSIT PROJECT INFORMATION	
TABLE 17: FFY 2020 TRANSIT PROJECT INFORMATION (CONTINUED)	102
TABLE 18: FFY 2021 TRANSIT PROJECT INFORMATION	
TABLE 18: FFY 2022 TRANSIT PROJECT INFORMATION	
TABLE 19: FFY 2023 TRANSIT PROJECT INFORMATION	
TABLE 22 PROJECT IMPLEMENTATION	108
TABLE 23 GREENHOUSE GAS SUMMARY TABLES FFY 2019	
FIGURE 6 COMPLETED HIGHWAY AND TRANSIT PROJECT GHG ANALYSIS	
TABLE 25: AGENCIES CONTACTED	
TABLE 26: AGENCIES PROVIDING CONSULTATION)	142

List of Figures

FIGURE 1 TOTAL FATALITIES	
FIGURE 2 TOTAL FATILITIES PER 100 MILLION VMT	
FIGURE 3 TOTAL SERIOUS INJURIES	
FIGURE 4 NON MOTORIZED FATALITIES	
FIGURE 5 PROJECT PROGRAMMED IN THE TIP	
FIGURE 6 COMPLETED HIGHWAY AND TRANSIT PROJECT GHG ANALYSIS	132
FIGURE 6 COMPLETED HIGHWAY AND TRANSIT PROJECT GHG ANALYSIS	

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.

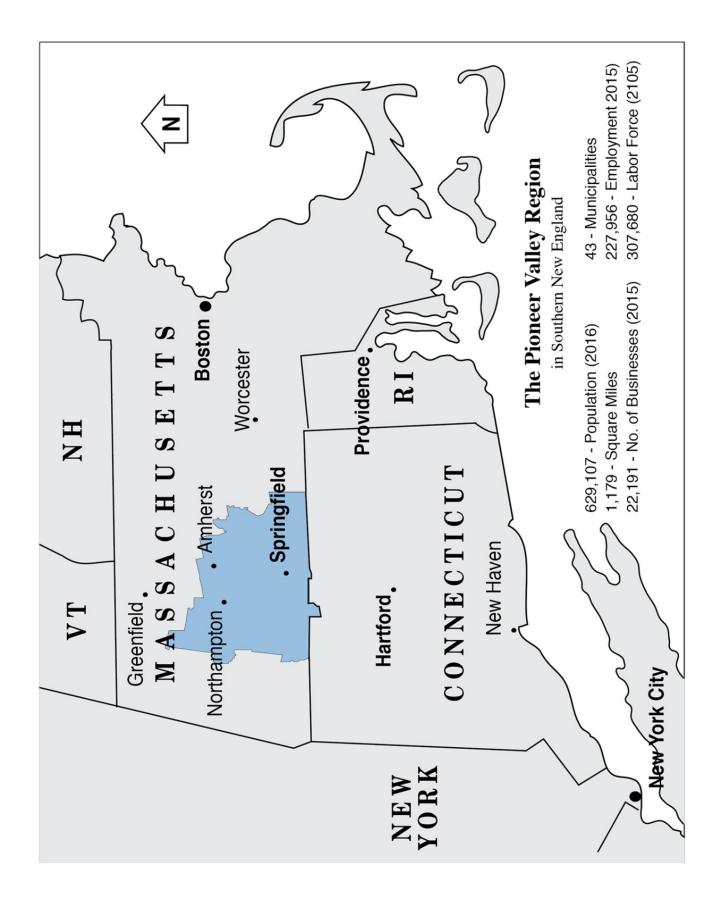
TIP Format and MPO Endorsement

The FFY 2019 - 2023 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 2019 - 2023 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 2019 and beyond. In response to this commitment, Pioneer Valley local officials in cooperation with regional and state officials from the 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 2019. 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 AUTHORIZTION

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. 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 stormwater 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 o n 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 MEASURES

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) refers 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

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

measure. The Pioneer Valley MPO has 180 days from the date of Commonwealth's adoption of the statewide performance targets to either adopt the statewide targets or establish their own regional performance targets. A summary of the Implementation Timeline is shown below. **Implementation Timeline**

Final Rule	Effective	States Set	MPOs Set	TIP Inclusion
	Date	Targets By:	Targets By:	
Safety	April 14,	August 31,	No later than	Updates or
Performance	2016	2017	February 27,	Amendments on or
Measures (PM1)			2018	after May 27, 2018
Pavement/Bridge	May 20, 2017	May 20, 2018	No later than	Updates or
Performance			November 16,	Amendments on or
Measures (PM2)			2018	after May 20, 2019
System	May 20, 2017	May 20, 2018	No later than	Updates or
Performance			November 16,	Amendments on or
Measures (PM3)			2018	after May 20, 2019

Massachusetts adopted five annual safety targets as required under the FAST Act. These targets are summarized below.

Performance Measure	State Target
Total Number of Fatalities	Reduce Total Number of Fatalities to 352 or less statewide at the current rate of -0.8%/year
Rate of Fatalities per 100 Million Vehicle Miles Traveled (VMT)	Reduce the Rate of Fatalities to 0.61/100 million VMT or less statewide at the current rate of -1.56%/year
Total Number of Serious Injuries	Reduce Total Number of Serious Injuries to 2896 or less statewide at the current rate of -3.65%/year
Rate of Serious Injuries per 100 Million VMT	Reduce the Rate of Serious Injuries to 5.01/100 million VMT or less statewide at the current rate of -4.42%/year
Total Number of Combined Serious Injuries and Fatalities for Non- motorized Modes	Do Not Exceed the Current Average of 541 for Combined Serious Injuries and Fatalities for Non- motorized Modes

Commonwealth of Massachusetts Safety Targets

The Pioneer Valley MPO was required to establish Safety targets by February 27, 2018. The Pioneer Valley MPO has chosen to adopt the statewide safety performance measure targets set by MassDOT for Calendar Year (CY) 2018 on January 23, 2018. Additional MPO action will be required by no later than November 16, 2018 to adopt regional targets for the PM2 and PM3 federal rules.

In setting these safety targets, MassDOT has followed FHWA guidelines by using statewide crash data and Highway Performance Monitoring System (HPMS) data for vehicle miles traveled (VMT) in order to calculate 5 year, rolling average trendlines for all FHWA defined safety measures. CY 2018 targets for four of the five safety measures—total number of fatalities, rate of fatalities per 100 million vehicle miles traveled, total number of serious injuries, and rate of serious injuries per

100 million VMT—were established by extending their respective trendlines into the 2014-2018 time period. All four of these measures reflect a decrease in statewide trends. The fifth safety measure, total number of combined serious injuries and fatalities for non-motorized modes, is the only safety measure for which the statewide trendline depicts an increase. MassDOT's effort to increase the non-motorized mode share throughout the Commonwealth has posed a challenge to simultaneously reducing non-motorized injuries and fatalities. Rather than adopt a target that depicts an increase in the trendline, MassDOT has elected to establish a target of non-motorized fatalities and injuries in CY 2018 to remain constant from the rolling average for 2011-2015. In recent years, MassDOT and the Pioneer Valley MPO have invested in "complete streets," bicycle and pedestrian, intersection and safety improvements in both the Capital Investment Plan (CIP) and Statewide Transportation Improvement Program (STIP) that address increasing mode share and incorporate safety mitigation elements into projects. Moving forward, the Pioneer Valley MPO, alongside MassDOT, is actively seeking to improve data collection and methodology for bicycle and pedestrian VMT counts, and to continue analyzing crash clusters and crash counts that include both motorized and non-motorized modes in order to address safety issues at these locations.

In all safety categories, MassDOT has established a long-term target of "Toward Zero Deaths" through <u>MassDOT's Performance Measures Tracker</u> and will be establishing safety targets for the MPO to consider for adoption each calendar year. While the MPO is not required by FHWA to report on annual safety performance targets, FHWA guidelines require MPOs to adopt MassDOT's annual targets or perennially establish their own.

The safety measures MassDOT has established for CY 2018, and that the MPO has adopted, are as follows:

- 1) **Fatalities**: The target number of fatalities for years CY 2018 is 352.3, down from an average of 361 fatalities for the years 2011-2015. [See Figure 1 for Our MPO vs. statewide comparison of the trend for this performance measure]
- Rate of Fatalities per 100 million VMT: The target fatality rate for years CY 2018 is 0.611, down from a 0.641 average for years 2011-2015. [See Figure 2 for Our MPO vs. statewide comparison of the trend for this performance measure]
- 3) **Serious Injuries**: The target number of serious injuries for CY2018 is 2895.9, down from the average of 3251.8 for years 2011-2015. [See Figure 3 for Our MPO vs. statewide comparison of the trend for this performance measure]
- 4) Rate of Serious Injuries per 100 million VMT: The target serious injury rate for CY2018 is 5.01 per year, down from the 5.78 average rate for years 2011-2015. [See Figure 3 for Our MPO vs. statewide comparison of the trend for this performance measure]
- 5) **Total Number of Combined Serious Injuries and Fatalities for Non-Motorized Modes**: The CY2018 target number of fatalities and serious injuries for non-motorists is 540.8 per year, the same as the average for years 2011-2015. [See Figure 4 for Our MPO vs. statewide comparison of the trend for this performance measure]



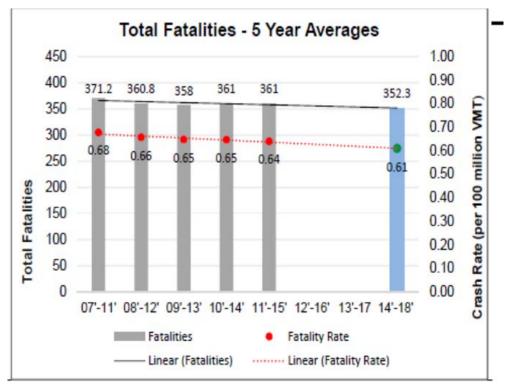
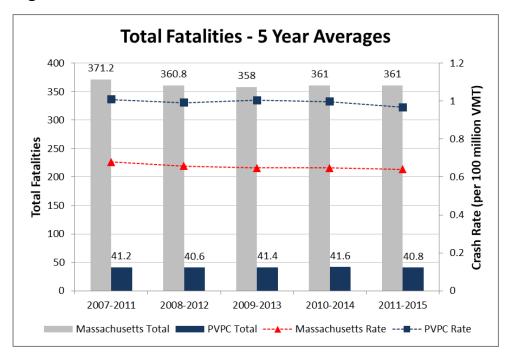
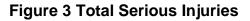


Figure 2 Total Fatilities Per 100 Million VMT





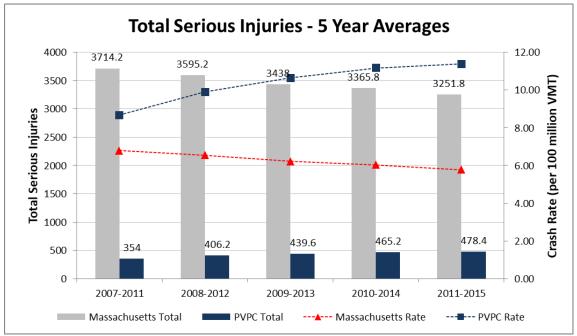
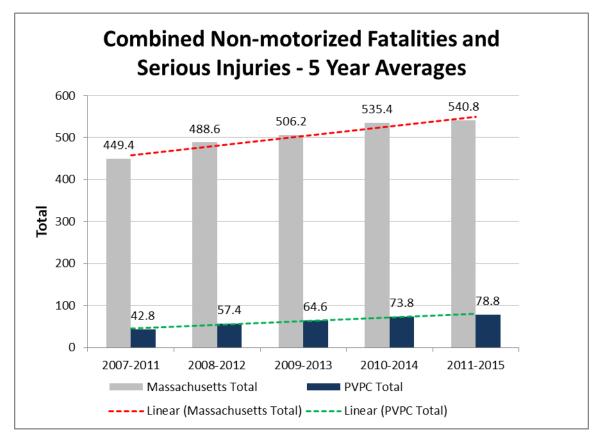


Figure 4 Non Motorized Fatalities



CONFORMITY WITH THE REGIONAL TRANSPORTATION PLAN

All projects in the TIP come from the 2016 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 2019 through 20223 (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 2019 - 2023 TIP is only required for Carbon monoxide. Further details and background information are provided in Chapter 8.

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:

Name	Title
Stephanie Pollack	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	Chairman of the Pioneer Valley Transit Authority Advisory Board
Mayor Richard Kos	Mayor of Chicopee (Center Tier)
Mayor Alexander Morse	City of Holyoke (Central Tier)
Mayor Brian P. Sullivan	City of Westfield (Southern Tier)
Douglas Slaughter	Amherst Board of Selectmen (Northern Tier)
George Archible	Belchertown Board of Selectmen (Eastern Tier)
Charles Kaniecki	Southampton Board of SelectmenWestern Tier
Rick Sullivan	Economic Development Council of Western Massachusetts
Alternates	
Mayor Domenic Sarno	Mayor of Springfield (Center Tier)
Mayor William C. Reichelt	City of West Springfield (Southern Tier)
Vacant	Northern Tier
Carmina Fernandes	Ludlow Board of Selectmen (Eastern Tier)
Roger Fuller	Chesterfield Board of Selectmen (Western Tier)
Ex-Officio (Non-Voting)	
Jeff McEwen	Federal Highway Administration
Mary Beth Mello	Federal Transit Administration
Sandra Sheehan	Pioneer Valley Transit Authority Administrator
James Czach	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 Score (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 endorse 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.

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

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

23 CFR 450.314(H) COOPERATIVLEY 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

MassDOT developed a process and set of criteria to prioritize the region's TIP projects which was modified and endorsed by the MPO. In 2014 PVPC with the assistance of the JTC completed and comprehensive update to the TEC for the PVMPO. The purpose of the update was to bring the TEC up to the current set forth by MAP -21. 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.

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
9	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
ъ	2	7	0.5	4	0.5	2	H
	Project serves a targeted		Supports mixed-use downtowns and village		Protects or enhances	Preserves historical and	Improves transit for Title
	development site		centers		environmental assets	cultural resources	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
	m		4		0.5	0.5	'n
			Reduces congestion on freight routes		Improves air quality	Provides safe and reliable access to education	Creates an Title VI Burden
			2		1	0.5	'n
					Reduces CO2 emissions	Supports designated s cenic byways	
					1	0.5	
					Promotes mode shift	Implements ITS Strategies	
					1	2	
					Improves fish and wildlife	Improves Network	
					passage 1	1 1	
					Supports Green Communities	Health Impact Assessment	
					0.5	1	
						Length of Time Project has	
					Improves storm resilience	been in queue for TIP funding	
					3	1	
Maximum Score							
19	12	17	10	16	12	11	S

TEC SCORING SUMMARY

PROJECT INITATION

In the fall of 2017 MassDOT rolled out there new project intake tool MaPIT, this tool 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 a Project Initiation Form (PIF) used by the Project Review Committee (PRC) and the MPO for project review and evaluation. The PIF 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

MASSDOT GREENDOT POLICY

MassDOT launched its GreenDOT initiative on June 2, 2010. GreenDOT was developed to assure a coordinated approach to sustainability and to integrate sustainability into the responsibilities and decision-making of all MassDOT employees. The following three mutually-reinforcing goals form the foundation of GreenDOT:

- Reduce greenhouse gas (GHG) emissions
- Promote the healthy transportation modes of walking, bicycling, and public transit
- Support smart growth development

The initiative is a comprehensive response to a range of state and MassDOT laws, policies and initiatives including: the Global Warming Solutions Act, the Green Communities Act, the Healthy Transportation Compact, Leading by Example, YouMoveMassachusetts, and Complete Streets. The Global Warming Solutions Act requires Massachusetts to reduce economy wide GHG emissions: 10% -25% below 1990 levels by 2020 and an 80% reduction below 1990 levels by

2050. The transportation sector is the largest GHG emitter, producing 31% of 1990 emissions and projected to produce 38% of 2020 emissions. GreenDOT also incorporates a statewide mode shift goal to triple the percentage of trips made by bicycling, transit and walking.

GreenDOT is also comprised on an additional by seven goals that can be tied to regional planning efforts. In the Pioneer Valley region, these goals and their recommended strategies have been incorporated into the new Transportation Evaluation Criteria (TEC) used to prioritize transportation improvement projects included as part of the TIP. The Tec is described in greater detail in Chapter 10 of the RTP. Table 1 summarizes the seven GreenDOT goals, their associated strategies and how they are addressed in the TEC for the Pioneer Valley.

Table 1 Integration of GreenDOT Goals into TIP

Policy/Planning - Design a Multi-Modal Transportation System, Triple Mode Share of Bicycling, Transit, and Walking, & Promote Healthy Transportation and Livable Communities

Associated Strategy	RTP/TEC Integration
Providing secure and/or covered bicycle parking and shared used paths	Projects are eligible to receive up to 12 points for bicycle and pedestrian improvements in the "Livability" category. Projects receive 1 point for providing bicycle amenities such as bicycle parking.
Improving access to transit and other vital community services	Projects are eligible to receive up to 4 points by improving access to transit.
Designing complete street projects with municipalities	Complete Streets consistency is worth up to 3 points.
Encouraging Safe Routes to Schools projects	Projects that provide safe and reliable access to education receive 0.5 point.
Incorporating public health impacts in the transportation planning process	Projects that complete a Health Impact Assessment will receive 1 point.
Coordinating on regional and statewide bicycle and pedestrian planning efforts.	Many "Livability" subcategories in the TEC support regional and statewide bicycle and pedestrian planning efforts.
Supporting Bike Share programs locally and regionally.	Projects can receive 2 points for being part of a locally adopted Bike Share Program.
Prioritizing critical pedestrian and bicycle network gaps, i.e. Bay State Greenway	Critical Gaps are identified as part of PVPC's Regional Bicycle Linkages Map. Projects that provide connections to regional bikeways/walkways receive 1 point.
Improving bicycle and pedestrian counts	PVPC collects bicycle and pedestrian movements as part of all intersection turning movement counts.
Air - Reduce Greenhouse Gas Emissions & Imp	
Associated Strategy	RTP/TEC Integration
Developing projects to improve air quality	Projects that demonstrate improvements to air quality can receive up to 1 point.
Analyzing GHG reduction strategies in transportation improvement projects and tracking progress	PVPC performs GHG analysis for all proposed RTP and TIP projects.
Setting regional goals for reducing VMT (travel demand)	Projects that demonstrate a significant reduction in single occupant vehicle use will receive 1 point.
Analyzing fleet fuel usage and supporting retrofits and procurement of alternative fuel vehicles	The RTP supports the use of alternatively fueled vehicles. PVTA has hybrid transit vehicles and is in the process of purchasing electric buses.

Supporting alternative fuels vehicle infrastructure	PVTA is in the process of purchasing an electric vehicle charging station.
	The PVPC has an ongoing task in its UPWP to study
Increasing bus and transit route efficiency	transit route efficiency.
Promoting anti-idling policies and educational outreach	Not specifically addressed in the TEC but included as a Need in the RTP
nergy - Consume Less Energy & Increase Re	liance on Renewable Energy
Associated Strategy	RTP/TEC Integration
Evaluating outdoor lighting and traffic signal systems, and retrofitting where feasible	Upgrades to traffic signal equipment can be worth up to 6 points.
Planning for the implementation of energy efficient measures and renewable energy projects	The RTP incorporates strategies from the Pioneer Valley Clean Energy Plan.
and - Minimize Energy and Chemicals Used in	n Maintenance & Enhance Ecological Performance
Associated Strategy	RTP/TEC Integration
Implementing sustainable stormwater management	Up to 2.5 points can be received through the use of greer infrastructure and the reduction of impervious surfaces to manage stormwater.
Protecting and restoring native landscaping, woodland, and urban tree coverage	Projects that protect or enhance environmental assets receive 0.5 point.
Implementing sustainable road salt and sanding practices	Included as a strategy in the RTP.
Designing landscapes for wildlife habitat restoration, safe migration, and accommodation	Improvements to stream crossings and culverts that improve fish and wildlife passage receive 1 point.
Reducing outdoor light pollution	Not specifically addressed.
Advocating for urban trees into Complete Streets designs/studies	Complete Streets consistency is worth up to 3 points.
aterials - Improve Lifecycle Impacts of Invest	ments & Purchase Environmentally Preferred Products
Associated Strategy	RTP/TEC Integration
Planning for climate resiliency in the development of projects	Projects that preserve floodplains receive 0.5 point. Projects that improve storm resilience in areas prone to flooding receive up to 3 points.
Supporting the use and identify appropriate applications for warm mix and recycled content paving materials	Not specifically addressed.
aste - Achieve Zero Solid Waste Disposal	·
Associated Strategy	RTP/TEC Integration
Identifying projects with zero construction waste diversion goals	Not specifically addressed.
Implementing regional litter prevention programs with their respective municipalities	Not specifically addressed.
ater - Use Less Water & Improve Ecological	Function of Water Systems
Associated Strategy	RTP/TEC Integration
Planning projects that minimize impacts on surface water and enhance wetlands flood storage capacity	Projects that preserve wetlands receive 0.5 point.
Considering sea level rise and storm surge	Projects that improve storm resilience in areas prone to flooding receive up to 3 points.

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, 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 redemonstration of fiscal constraint. If an amendment involves "non-exempt" projects in nonattainment and maintenance areas, a conformity determination is required.

Amendments requires 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.

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 (STBGP) - 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 can be funded 90/10 and even 100% federal in certain circumstances.

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 were 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%

In compliance with FHWA guidelines projects with federal earmarks are only programmed in the FY 2014 to FY 2017 TIP if the total funding is adequate for project implementation. The remaining earmarked projects will be included in appendix Z for informational and tracking purposes.

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 2019 - 2023 TIP is consistent with the Regional Transportation Plan (RTP) for the Pioneer Valley Region. Tables 2 and 3 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.

	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	GRAND TOTAL
Total Available for Programming in	Total	Total	Total	Total	Total	Total
the Pioneer Valley RTP	\$ 420,177,748	\$ 426,618,217	\$ 520,221,270	\$ 582,504,200	\$ 623,968,064	\$ 2,573,489,499
Statewide Interstate Maintenance	\$ 29,750,182	\$ 28,157,124	\$ 35,185,257	\$ 39,841,190	\$ 42,920,276	\$ 175,854,029
Statewide NHS	\$ 19,572,131	\$ 18,955,373	\$ 23,686,712	\$ 26,821,085	\$ 28,893,926	\$ 117,929,227
Statewide Bridge	\$ 105,433,448	\$ 102,111,025	\$ 127,598,354	\$ 144,482,963	\$ 155,649,185	\$ 635,274,975
Statewide Infrastructure	\$ 4,219,341	\$ 4,086,381	\$ 5,106,359	\$ 5,782,064	\$ 6,228,925	\$ 25,423,070
Remaining Statewide Programs	\$ 96,040,886	\$ 101,493,887	\$ 126,827,176	\$ 143,609,738	\$ 154,708,473	\$ 622,680,160
NFA Bridge Preservation	\$ 54,049,500	\$ 54,860,243	\$ 55,670,985	\$ 56,481,728	\$ 57,292,470	\$ 278,354,926
Regional Discretionary Funding	\$ 111,112,260	\$ 116,954,184	\$ 146,146,427	\$ 165,485,432	\$ 178,274,809	\$ 717,973,112

Table 2 Transportation Operating and Maintenance Expenditures

Source: Regional Transportation Plan, updated 2016

Table 3 Transit Operating and Maintenance Expenditures

Estimated Transit Operating Revenues 2016 - 2040								
	2016-2020 2021-2025 2026-2030 2031-2035 2036-2040							
State Contract Assistance	\$ 125,723,298	\$ 145,747,760	\$ 168,961,600	\$ 195,872,803	\$ 227,070,262	\$ 863,375,723		
Local Assessments	\$ 43,637,997	\$ 49,372,389	\$ 55,860,326	\$ 63,200,831	\$ 71,505,940	\$ 283,577,483		
5307 Federal Urbanized Area Formula	\$ 53,120,529	\$ 57,917,522	\$ 62,393,619	\$ 67,215,646	\$ 72,410,341	\$ 313,057,657		
5339 Federal **	\$ 3,614,988	\$ 3,937,914	\$ 4,242,253	\$ 4,570,110	\$ 4,923,307	\$ 21,288,572		
5310 Federal Ederly & Disabled	\$ 2,704,105	\$ 2,913,090	\$ 3,138,225	\$ 3,380,759	\$ 3,642,038	\$ 15,778,217		
Farebox	\$ 41,119,964	\$ 45,399,763	\$ 50,125,006	\$ 55,342,057	\$ 61,102,103	\$ 253,088,893		
Advertising, other revenue	\$ 2,948,172	\$ 3,255,020	\$ 3,593,805	\$ 3,967,851	\$ 4,380,829	\$ 18,145,677		
Available for Programming in Pioneer Valley RTP	\$ 272,869,053	\$ 308,543,458	\$ 348,314,834	\$ 393,550,057	\$ 445,034,820	\$ 1,768,312,222		
Estimated Capital Revenues								
2016-2020 2021-2025 2026-2030 2031-2035 2036-2040 Grand Total								
RTACAP	\$ 20,285,825	\$ 22,314,408	\$ 24,545,848	\$ 27,000,433	\$ 29,700,476	\$ 123,846,990		
ITC Cap Program	\$ 1,145,277	\$ 1,259,805	\$ 1,385,785	\$ 1,524,364	\$ 1,676,800	\$ 6,992,031		
Federal Matching grants	\$ 63,410,806	\$ 69,751,887	\$ 76,727,075	\$ 84,399,783	\$ 92,839,761	\$ 387,129,311		
Total Transit Capital Funds for Programming in PV RTP	\$ 84,841,908	\$ 93,326,099	\$ 102,658,709	\$ 112,924,579	\$ 124,217,037	\$ 517,968,332		
Grand Total of Revenue	\$ 357,710,961	\$ 401,869,557	\$ 450,973,543	\$ 506,474,636	\$ 569,251,857	\$ 2,286,280,554		

Source: Regional Transportation Plan, updated 2016

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 2019 - 2023 TIP underwent a public review and comment period consistent with the Pioneer Valley Metropolitan Planning Organizations Public Participation Process. This began April 27, 2018 and continued until May 18, 2018. During this time, comments were received from communities, JTC, PVTA, PVPC, MassDOT, and FHWA. A public hearing was held on May 9, 2018 as part of the JTC meeting. Below is a summary of the comments received during the public review and comment period.

Table 4 Comments Recieved 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	
Elizabeth Johnson	608717	The Draft 2019-2023 TIP fails to include the project with the	5/1/18	Comment	1
31 Mattoon Street		second highest TEC score among all the projects listed in the		Recorded	
Springfield, MA		"Universe of Projects": the reconstruction of Sumner Ave at			
01105		Dickson and Belmont (the "X"). The City of Springfield has			
		notified the PVPC that the project is just about at 25% design, so			
		this project with an estimated cost of about \$8 million should			
		definitely be included in the years 2022 or 2023, or even 2021.			
George Kingston	MPO	Please update the MPO description to reflect that East	4/12/18	Updated	2
PVPC	Composition	Longmeadow has a Town Council		-	
Commissioner –	-				
East Longmeadow					
Andrew Carey	608412	I am writing to provide my support for the inclusion of the State	5/4/18	Comment	3
Cimex Corp.		Street /Maple Street roadway improvement project (NO.		Recorded	
30 Front Street,		608412) in the Federal Fiscal Year (FFY) 2019 Transportation			
Suite 2		Improvement Program (TIP).			
Belchertown, MA		The current condition of the corridor is poor; adequate bicycle			
01007		and pedestrian facilities don't exist; and traffic congestion is			
		severe affecting the vitality of our businesses and our standards			
		of living. The proposed project will provide minor widening,			
		new sidewalks, pavement rehabilitation, drainage improvements,			
		and signal systems at the intersections of State Street at turkey			
		hill Road and State Street at Stadler Street.			
		I believe these measures will greatly benefit the community and			
		the region. The reduced congestion and the improved safety for			
		motorist, bicyclist, and pedestrians will support the existing			
		residential and business development along the corridor as well			
		as the future development of approximately 150 acres of			
		commercial property currently under planning by mass			
		development and the town.			
		I have been a Belchertown resident and or business owner since			
		the late 70's and have witnessed the negative impacts of growth			
		on our town and our roadways, especially State Street and Maple			
		Street. I eagerly anticipate the completion of this project and			
		urge the members of the Metropolitan Planning Commission to			
Public Participation Sum	mary and Changes	work to keep this project funded in the FFY 2019 TIP.		27	

	(00/110		E / 1 / 1 O	0	4
Tasha Majerowski	608412	I am writing to provide my support for the inclusion of the State	5/4/18	Comment	4
24 S Main Street		Street /Maple Street roadway improvement project (NO.		Recorded	
Belchertown, MA		608412) in the Federal Fiscal Year (FFY) 2019 Transportation			
01007		Improvement Program (TIP).			
		The current condition of the corridor is poor; adequate bicycle			
		and pedestrian facilities don't exist; and traffic congestion is			
		severe affecting the vitality of our businesses and our standards			
		of living. The proposed project will provide minor widening,			
		new sidewalks, pavement rehabilitation, drainage improvements,			
		and signal systems at the intersections of State Street at turkey			
		hill Road and State Street at Stadler Street.			
		I believe these measures will greatly benefit the community and			
		the region. The reduced congestion and the improved safety for			
		motorist, bicyclist, and pedestrians will support the existing			
		residential and business development along the corridor as well			
		as the future development of approximately 150 acres of			
		commercial property currently under planning by mass			
		development and the town.			
		I have been a (Belchertown resident for over 30 years and have			
		witnessed the negative impacts of growth on our town and our			
		roadways, especially State Street and Maple Street. I eagerly			
		anticipate the completion of this project and urge the members			
		of the Metropolitan Planning Commission to work to keep this			
Robert L. Bolduc	608412	project funded in the FFY 2019 TIP.	5/4/18	Comment	5
Robert L. Bolduc	008412	I am writing to request that the State Street/Maple Street	5/4/18		3
		Roadway Improvement project (NO. 6084 12) in Belchertown		Recorded	
		be included in the Federal Fiscal Year (FFY) 2019			
		Transportation Improvement Program (TIP). The improvement			
		project will provide essential updates to an essential corridor			
		of travel. Currently, the 1.17 mile passageway is in poor			
		condition. Adequate bicycle and pedestrian facilities do not			
		exist. The lack of these in this area is particularly impoltant as			
		this is the primary travel route to the Eastern Hampshire			
		District Courthouse. Traffic congestion is severely affecting the			
		vitality of current businesses as well as the potential for new			
		development.			
28		Pioneer Valley Transportation	Improveme	nt Program 201	9 -

		The proposed project will provide improvements to both infrastructure (minor widening, pavement rehabilitation, drainage) and overall travel (signal systems, safety improvements). The signal system improvements are at the intersections of State Street at Turkey Hiil Road and State Street at Stadler Street. In my opinion, as a business owner and developer, there is no question these measures will greatly benefit the community and the region. The benefits will extend to existing residences and businesses, but also foster future development in the area, including approximately 150 acres of commercial property currently under planning by Mass Development and the town. This traffic improvement program is designed to reduce congestion and improve safety for all who travel along the road (whether by vehicle, bicycle or foot). Pride has been the owner of over 28 acres of land in Belchertown for over a dozen years and has witnessed the negative impacts of the current roadways, especially State Street and Maple Street. The current situation has limited the potential for development and has impacted current residences and businesses. Pride is ve1y excited for the completion of this project and urge the members of the Metropolitan Planning Commission to work to keep this project funded in the FFY 2019 TIP. There are enormous benefits of this project to the town and region.			
Douglas Albertson Town Planner Town of Belchertown P.O. Box 670 Belchertown, Mass. 01007	608412	The Belchertown planning department adds its support for including the State Street/Maple Street Roadway Improvement project (NO. 608412) in the Federal Fiscal Year (FFY) 2019 Transportation Improvement Program (TIP). The town and its partners, the Belchertown Economic Development and Industrial Commission and MassDevelopment, have been working over the past several years to bring the community into the project so it will reflect community priorities. This is a congested area with inadequate roadways that lack pedestrian, bicycle, and transit amenities. With the former Belchertown State School campus developing, this corridor stands to see much greater demand in the coming	5/4/18	Comment Recorded	6

	1 1			
	The proposed project will address the many deficiencies along this route. Congestion will be mitigated by installing signals and widening. Further, pedestrian crossings will be made safer. On the south side of this corridor are the town's schools and a retail area; while on the north side are municipal buildings, a playground, and the state school redevelopment. We anticipate there being much demand for non motorized access in the area for people to move between sites. This improvement project is crucial to the functioning of this corridor as a community asset as well as an efficient route for through- traffic. The reduced congestion and the improved safety for motorist, bicyclist and pedestrians will support the existing residential and business development along the corridor as well as the future development of approximately 150 acres of commercial property currently under planning by Mass Development and the town. The Belchertown Planning Department has been working with all involved parties in the planning of this corridor. We are sure the town's residents will benefit greatly from its completion. We urge the members of the Metropolitan Planning Commission to work to keep this project funded in the FFY			
608412	I am writing to provide my support for the inclusion of the State Street /Maple Street roadway improvement project (NO. 608412) in the Federal Fiscal Year (FFY) 2019 Transportation Improvement Program (TIP). The current condition of the corridor is poor; adequate bicycle and pedestrian facilities don't exist; and traffic congestion is severe affecting the vitality of our businesses and our standards of living. The proposed project will provide minor widening, new sidewalks, pavement rehabilitation, drainage improvements, and signal systems at the intersections of State Street at Turkey Hill Road and State Street at Stadler Street. I believe these measures will greatly benefit the community and the region. The reduced congestion and the improved safety for	5/7/18	Comment Recorded	7 9 -
	608412	 this route. Congestion will be mitigated by installing signals and widening. Further, pedestrian crossings will be made safer. On the south side of this corridor are the town's schools and a retail area; while on the north side are municipal buildings, a playground, and the state school redevelopment. We anticipate there being much demand for non motorized access in the area for people to move between sites. This improvement project is crucial to the functioning of this corridor as a community asset as well as an efficient route for through-traffic. The reduced congestion and the improved safety for motorist, bicyclist and pedestrians will support the existing residential and business development along the corridor as well as the future development of approximately 150 acres of commercial property currently under planning by Mass Development and the town. The Belchertown Planning Department has been working with all involved parties in the planning of this corridor. We are sure the town's residents will benefit greatly from its completion. We urge the members of the Metropolitan Planning Commission to work to keep this project funded in the FFY 2019 TIP. 608412 I am writing to provide my support for the inclusion of the State Street /Maple Street roadway improvement project (NO. 608412) in the Federal Fiscal Year (FFY) 2019 Transportation Improvement Program (TIP). The current condition of the corridor is poor; adequate bicycle and pedestrian facilities don't exist; and traffic congestion is severe affecting the vitality of our businesses and our standards of living. The proposed project will provide minor widening, new sidewalks, pavement rehabilitation, drainage improvements, and signal systems at the intersections of State Street at Turkey Hill Road and State Street at Stadler Street. I believe these measures will greatly benefit the community and 	The proposed project will address the many deficiencies along this route. Congestion will be mitigated by installing signals and widening. Further, pedestrian crossings will be made safer. On the south side of this corridor are the town's schools and a retail area; while on the north side are municipal buildings, a playground, and the state school redevelopment. We anticipate there being much demand for non motorized access in the area for people to move between sites. This improvement project is crucial to the functioning of this corridor as a community asset as well as an efficient route for through- traffic. The reduced congestion and the improved safety for motorist, bicyclist and pedestrians will support the existing residential and business development along the corridor as well as the future development of approximately 150 acres of commercial property currently under planning by Mass Development and the town. The Belchertown Planning Department has been working with all involved parties in the planning of this corridor. We are sure the town's residents will benefit greatly from its completion. We urge the members of the Metropolitan Planning Commission to work to keep this project funded in the FFY 2019 TIP.5/7/18608412I am writing to provide my support for the inclusion of the State Street /Maple Street roadway improvement project (NO. 608412) in the Federal Fiscal Year (FFY) 2019 Transportation Improvement Program (TIP). The current condition of the corridor is poor; adequate bicycle and pedestrian facilities don't exist; and traffic congestion is severe affecting the vitality of our businesses and our standards of living. The proposed project will provide minor widening, new sidewalks, pavement rehabilitation, drainage improvements, and signal systems at the intersections of State Street at Turkey Hill Road and State Street a	The proposed project will address the many deficiencies along this route. Congestion will be mitigated by installing signals and widening. Further, pedestrian crossings will be made safer. On the south side of this corridor are the town's schools and a retail area; while on the north side are municipal buildings, a playground, and the state school redevelopment. We anticipate there being much demand for non motorized access in the area for people to move between sites. This improvement project is crucial to the functioning of this corridor as a community asset as well as an efficient route for through-

		 motorist, bicyclist, and pedestrians will support the existing residential and business development along the corridor as well as the future development of approximately 150 acres of commercial property currently under planning by mass development and the town. I have been a Belchertown resident for over 18 years and have witnessed the negative impacts of growth on our town and our roadways, especially State Street and Maple Street. I eagerly anticipate the completion of this project and urge the members of the Metropolitan Planning Commission to work to keep this project funded in the FFY 2019 TIP. 			
Jennifer Whitehead Head of Youth Services Clapp Memorial Library Belchertown, MA 01007	608412	I am writing to provide my support for the inclusion of the State Street /Maple Street roadway improvement project (NO. 608412) in the Federal Fiscal Year (FFY) 2019 Transportation Improvement Program (TIP). The current condition of the corridor is poor; adequate bicycle and pedestrian facilities don't exist; and traffic congestion is severe affecting the vitality of our businesses and our standards of living. The proposed project will provide minor widening, new sidewalks, pavement rehabilitation, drainage improvements, and signal systems at the intersections of State Street at turkey hill Road and State Street at Stadler Street. I believe these measures will greatly benefit the community and the region. The reduced congestion and the improved safety for motorist, bicyclist, and pedestrians will support the existing residential and business development along the corridor as well as the future development of approximately 150 acres of commercial property currently under planning by mass development and the town. I have been a Belchertown resident for over 18 years and have witnessed the negative impacts of growth on our town and our roadways, especially State Street and Maple Street. As a runner, I find the sidewalks dangerous but there are few areas in town that are lit for early morning or evening runs. I eagerly anticipate the completion of this project and urge the members of the Metropolitan Planning Commission to work to keep this project	5/8/18	Comment Recorded	8

		funded in the FFY 2019 TIP.			
Audrey Anderson 43 Rural Rd Belchertown, MA 01007	608412	I am writing to provide my support for the inclusion of the State Street /Maple Street roadway improvement project {NO. 608412) in the Federal Fiscal Year {FFY} 2019 Transportation Improvement Program {TIP). The current condition of the corridor is poor; adequate bicycle and pedestrian facilities don't exist; and traffic congestion is severe affecting the vitality of our businesses and our standards of living. The proposed project will provide minor widening, new sidewalks, pavement rehabilitation, drainage improvements, and signal systems at the intersections of State Street at Turkey Hill Road and State Street at Stadler Street. I believe these measures will greatly benefit the community and the region. The reduced congestion and the improved safety for motorist, bicyclist, and pedestrians will support the existing residential and business development along the corridor as well as the future development of approximately 150 acres of commercial property currently under planning by MassDev and the town. I have been a Belchertown resident for over eleven years and have witnessed the negative impacts of growth on our town and our roadways, especially State Street and Maple Street. I eagerly anticipate the completion of this project and urge the members of the Metropolitan Planning Commission to work to keep this project funded in the FFY 2019 TIP.	5/8/18	Comment Recorded	9
Nick O'Connor 13 Maplecrest Drive Belchertown, Ma 01007	608412	I am writing to provide my support for the inclusion of the State Street /Maple Street roadway improvement project (NO. 608412) in the Federal Fiscal Year (FFY) 2019 Transportation Improvement Program (TIP). The current condition of the corridor is poor; adequate bicycle and pedestrian facilities don't exist; and traffic congestion is severe affecting the vitality of our businesses and our standards of living. The proposed project will provide minor widening, new sidewalks, pavement rehabilitation, drainage improvements, and signal systems at the intersections of State Street at turkey hill Road and State Street at Stadler Street. Pioneer Valley Transportation	5/9/18	Comment Recorded	10

		I believe these measures will greatly benefit the community and the region. The reduced congestion and the improved safety for motorist, bicyclist, and pedestrians will support the existing residential and business development along the corridor as well as the future development of approximately 150 acres of commercial property currently under planning by mass development and the town. I have been a Belchertown resident for over 17 years, as well as on the Board of Selectmen for the last three, and have witnessed the negative impacts of growth on our town and our roadways, especially State Street and Maple Street. I eagerly anticipate the completion of this project and urge the members of the Metropolitan Planning Commission to work to keep this project funded in the FFY 2019 TIP.			
Hope Guardenier	608412	I am writing to provide my support for the inclusion of the State Street /Maple Street roadway improvement project (NO. 608412) in the Federal Fiscal Year (FFY) 2019 Transportation Improvement Program (TIP). The current condition of the corridor is poor; adequate bicycle and pedestrian facilities don't exist; and traffic congestion is severe affecting the vitality of our businesses and our standards of living. At our recent town-wide Art Walk it was very noticeable how poor the pedestrian access is in this area. I was nervous walking with my children from the police station side of State Street over to the Stadler street area. The narrow sidewalks and poorly marked crosswalks were inadequate, in my opinion. The proposed project will provide minor widening, new sidewalks, pavement rehabilitation, drainage improvements, and signal systems at the intersections of State Street at turkey hill Road and State Street at Stadler Street. I believe these measures will greatly benefit the community and the region. The improved safety for motorist, bicyclist, and pedestrians will support the existing development of the former state school property where my children's former day care provider anticipates building their new facility. I know those families would appreciate the ability to walk safely along the corridor.	5/9/18	Comment Recorded	11

603783	I have been a Belchertown resident for over 15 years and in that time the town has grown and changed. There are far more families with young children than in the recent past and all of us are eager to access our town by foot or bike something that is currently quite dangerous. I eagerly anticipate the completion of this project and urge the members of the Metropolitan Planning Commission to work to keep this project funded in the FFY 2019 TIP. Review project # 603783 and specifically project description box. Currently shows six bridges and should only show five bridges remaining for the downtown central section. Please remove bridge # W-25-019 (bridge in mention was installed as part of construction from East Silver Street to East	5/9/18	Comment Recorded	12
	Main Street where it now terminates. The current remaining section for this project is referenced as the (Central Downtown Section) and encompasses five streets for new bridge work. Main Street abutments will be raised and a new gateway bridge installed, abutments raised and replacement bridges on the following streets, Thomas St, Chapel St , Orange St and the last one on Elm Street that will be a complete renovation (historical bridge) as well as abutments raised. See copy of spread sheet attached for correction from six bridges to actual five bridges required. See letter from Mayor Sullivan dated 5/9/2017 Appreciate your consideration in this matter. If I can be any further help regarding this input please do not hesitate in			
608412	I am writing to provide my support for the inclusion of the State Street /Maple Street roadway improvement project (NO. 608412) in the Federal Fiscal Year (FFY) 2019 Transportation Improvement Program (TIP). MassDevelopment is the agent for the redevelopment of the former Belchertown State School through a Memorandum of Agreement with the Town of Belchertown and the Belchertown Economic Development Industrial Corporation (BEDIC). The new development, known as Carriage Grove, is	5/10/18	Comment Recorded	13
		 time the town has grown and changed. There are far more families with young children than in the recent past and all of us are eager to access our town by foot or bike something that is currently quite dangerous. I eagerly anticipate the completion of this project and urge the members of the Metropolitan Planning Commission to work to keep this project funded in the FFY 2019 TIP. 603783 Review project # 603783 and specifically project description box. Currently shows six bridges and should only show five bridges remaining for the downtown central section. Please remove bridge # W-25-019 (bridge in mention was installed as part of construction from East Silver Street to East Main Street where it now terminates. The current remaining section for this project is referenced as the (Central Downtown Section) and encompasses five streets for new bridge work. Main Street abutments will be raised and a new gateway bridge installed, abutments raised and replacement bridges on the following streets, Thomas St, Chapel St, Orange St and the last one on Elm Street that will be a complete renovation (historical bridge) as well as abutments raised. See letter from Mayor Sullivan dated 5/9/2017 Appreciate your consideration in this matter. If I can be any further help regarding this input please do not hesitate in contacting me. 608412 I am writing to provide my support for the inclusion of the State Street /Maple Street roadway improvement project (NO. 608412) in the Federal Fiscal Year (FFY) 2019 Transportation Improvement Program (TIP). MassDevelopment is the agent for the redevelopment of the former Belchertown State School through a Memorandum of Agreement with the Town of Belchertown and the Belchertown Economic Development Industrial Corporation 	time the town has grown and changed. There are far more families with young children than in the recent past and all of us are eager to access our town by foot or bike something that is currently quite dangerous. I eagerly anticipate the completion of this project and urge the members of the Metropolitan Planning Commission to work to keep this project funded in the FFY 2019 TIP.5/9/18603783Review project # 603783 and specifically project description box. Currently shows six bridges and should only show five bridges remaining for the downtown central section. Please remove bridge # W-25-019 (bridge in mention was installed as part of construction from East Silver Street to East Main Street where it now terminates. The current remaining section for this project is referenced as the (Central Downtown Section) and encompasses five streets for new bridge work. Main Street abutments will be raised and a new gateway bridge installed, abutments raised and replacement bridges on the following streets, Thomas St, Chapel St, Orange St and the last one on Elm Street that will be a complete renovation (historical bridge) as well as abutments raised. See copy of spread sheet attached for correction from six bridges to actual five bridges required. See letter from Mayor Sullivan dated 5/9/2017 Appreciate your consideration in this matter. If I can be any further help regarding this input please do not hesitate in contacting me.5/10/18608412I am writing to provide my support for the inclusion of the State Street /Maple Street roadway improvement project (NO. 608412) in the Federal Fiscal Year (FFY) 2019 Transportation Improvement Program (TIP). MassDevelopment is the agent for the redevelopment of the former Belchertown State School through a Memorandum of Agreement with the Town of Belchertown as Carriage Grove, is<	time the town has grown and changed. There are far more families with young children than in the recent past and all of us are eager to access our town by foot or bike something that is currently quite dangerous. I eagerly anticipate the completion of this project and urge the members of the Metropolitan Planning Commission to work to keep this project funded in the FFY 2019 TIP.Comment603783Review project # 603783 and specifically project description box. Currently shows six bridges and should only show five bridges remaining for the downtown central section. Please remove bridge # W-25-019 (bridge in mention was installed as part of construction from East Silver Street to East Main Street where it now terminates. The current remaining section for this project is referenced as the (Central Downtown Section) and encompasses five streets

a mixed-use neighborhood that will include senior living and		
services; commercial, retail, and industrial uses; cultural		
amenities; and multifamily residences. The State Street I		
Maple Street Roadway Improvement Project will contribute to		
better connectivity between the Carriage Grove neighborhood		
and the State Street corridor, the Public Schools complex and		
the historic Belchertown Common. The Carriage Grove project		
includes substantial infrastructure improvements, such as the		
Town's \$1.25 million extension of Front Street under		
construction, and the Executive Office of Housing and		
Economic Development's \$3 million MassWorks award to		
develop Carriage Drive, the main road through the site that		
will also connect with State Street. Carriage Drive construction		
starts this month. These infrastructure improvements will		
facilitate development of up to 268 permitted units of		
multifamily housing and an 83-unit assisted living facility,		
which is under construction and scheduled to open later this		
spring. This \$15 million project will result in 40 full-time jobs		
and provide much-needed affordable, community living		
opportunities for seniors in the Belchertown area.		
The current condition of the 1.17 mile State Street <i>I</i> Maple		
Street corridor is poor. Adequate bicycle and pedestrian		
facilities do not exist, and traffic congestion severely limits		
potential for businesses and development. The proposed		
roadway reconstruction project will greatly benefit the		
community and the region. The reduced congestion and		
improved safety for motorists, bicyclists, and pedestrians will		
support the existing residential and business development		
along the corridor as well as the future development. Attached,		
please find CEO Lauren Liss's letter to Ms. Patricia		
Leavenworth of MassDOT Highway Division of January 22,		
2018, expressing support for this Roadway Reconstruction		
Project.		
MassDevelopment would like to thank MassDOT and		
members of the Metropolitan Planning Commission for their		
support for this project and would encourage that this project		
support for this project and would encourage that this project		

		be funded in the FFY 2019 TIP.			
William A. Terry 385 Turkey Hill Road Belchertown, MA 01007	608412	I am writing to provide my support for the inclusion of the State Street/Maple Street roadway improvement project (NO. 608412) in the Federal Fiscal Year (FFY) 2019 Transportation Improvement Program (TIP) The current condition of the corridor is poor; adequate bicycle and pedestrian don't exist; and traffic congestion is severe affecting the vitality of our businesses and our standards of living. The proposed project will provide minor widening, new sidewalks, pavement rehabilitation, drainage improvements, and signal systems at the intersections of State Street at Turkey Hill Road and State at Stadler Street. I believe that these measures will greatly benefit the community and the region. The reduced congestion and the improved safety for motorist, bicyclists, and pedestrians will support the existing residential and business development along the corridor as well as the future development of approximately 150 acres of commercial property currently under planning by mass development and the town. I have been a Belchertown resident for over 75 years and have witnessed the negative impacts of the growth on our town and our roadways, especially State Street and Maple Street. I am pro-growth and I eagerly anticipate the completion of this project and urge the members of the Metropolitan Planning Commission to work to keep this project funded in the FFY 2019 TIP.	5/10/18	Comment Recorded	14
James D. Hodgen Hodgen Landscape Co., Inc. P.O. Box 873 40 Sargent St. Belchertown, MA 01007	608412	I am writing to provide my support for the inclusion of the State Street /Maple Street roadway improvement project (NO. 608412) in the Federal Fiscal Year (FFY) 2019 Transportation Improvement Program (TIP). The current condition of the corridor is poor; adequate bicycle and pedestrian facilities don't exist; and traffic congestion is severe affecting the vitality of our businesses and our standards of living. The proposed project will provide minor widening, new sidewalks, pavement rehabilitation, drainage improvements, and signal systems at the intersections of State Street at Turkey Pioneer Valley Transportation	5/11/18	Comment Recorded	15

Nicole Bennis	608412	 Hill Road and State Street at Stadler Street. I believe these measures will greatly benefit the community and the region. The reduced congestion and the improved safety for motorist, bicyclist, and pedestrians will support the existing residential and business development along the corridor as well as the future development of approximately 150 acres of commercial property currently under planning by mass development and the town. I have been a Belchertown resident my entire life and our family has been a business owner since 1956. We have witnessed the negative impacts of growth on our town and our roadways, especially State Street and Maple Street. While constantly moving on our roadways the urgency of this project is paramount for the success of our town. I eagerly anticipate the completion of this project and urge the members of the Metropolitan Planning Commission to work to keep this project funded in the FFY 2019 TIP. I am writing to provide my support for the inclusion-of the Street Metropolitan Plance and the success of the metropolitan Plance Pla	5/15/18	Comment	16
20 Stad ler Street Belchertown, Ma 01007		State Street /Maple Street roadway Improvement project (NO.608412) in the Federal Fiscal Year (FFY) 2019 Transportation Improvement Program (TIP). The current condition of the corridor is poor; adequate bicycle and pedestrian facilities don't exist; and traffic congestion is severe affecting the vitality of our businesses and our standards of living. The proposed project will provide minor widening, new sidewalks, pavement rehabilitation, drainage improvements, and signal systems at the intersections of State Street at turkey hill Road and State Street at Stadler Street. I believe these measures will greatly benefit the community and the region. The reduced congestion and the improved safety for motorist, bicyclist, and pedestrians will support the existing residential and business development along the corridor as well as the future development of approximately 150 acres of commercial property currently under planning by mass development and the town. I have been a Belchertown resident for 44 years and a		Recorded	

		proud business owner for 16 years and have witnessed the negative impacts of growth on our town and our roadways, especially State Street and Maple Street. I eagerly anticipate the completion of this project and urge the members of the Metropolitan Planning Commission to work to keep this project funded in the FFY 2019 TIP.			
MassDOT -OTP	TIP Document	 The Massachusetts Department of Transportation (MassDOT) Office of Transportation Planning (OTP) has reviewed the draft 2019 - 2023 Transportation Improvement Program (TIP) released by the Pioneer Valley Metropolitan Planning Organization (MPO) on April 24, 2018. The following MassDOT comments include both general guidance and specific comments on the MPO's 3C planning process related to the content of this document as released for public review. Please note the following comments specific to the information contained in the MPO's draft 2019-2023 TIP .Narrative Page ii Two entries in the List of Tables are highlighted and a page number is missing for Table 20. Page 8C The Performance Measures heading is highlighted. Page 9 Please include the safety performance measures narrative provided by OTP, or_ ensure that the same information is provided. Specifically, the narrative should mention the transportation asset management plan targets. Please also provide text and figures comparing statewide trends to the Pioneer Valley region. 	5/9/18	Comment s Recorded and document updated	17

	greenhouse gas (GHG) regulation is included.
	Please ensure that the appropriate TIP signatory sheet is included.
	Please include a table of TIP projects by scoring rank and relative TIP
	programming information.
	Please include a table with the Pioneer Valley TIP evaluation criteria.
	 Please include a geographic equity analysis of the projects in the FFY 2019-2023 TIP.
	Please ensure that the list of completed highway and transit projects includes the
	associated GHG emissions analysis.
	Please ensure that summaries of programmed projects have been provided.
	Highway Project Listing
	Pages 89-111 - Per OTP's guidance,
	please do not include these separate statewide project templates.
	Please consider hiding empty lines in the TIP
	templates to improved readability of the
	document.
	FFY 2019
	600513- Please update the Total Federal Destining Construction Cost (TEDC) to
	Participating Construction Cost (TFPC) to \$2,622,622.
	604962 -Please remove the cost increase
	information from the Additional Information
	column.
	607560 - This project is listed twice. The first
	instance shows the correct funding amounts,
	so please remove the second entry.
	• 608412-Please update the TFPC to \$5,143,503.
40	Pioneer Valley Transportation Improvement Program 2019 -

Г		
	 608429 -The federals funds should be programmed at \$776,645 to match the Statewide list exactly. 608600 - Please correct the programmed funding to show an 80/20 split Between federal and non-federal funds. FFY 2020 	
	 606552 – Please add this Project ID to 	
	NORTHAMPTON- BRIDGE	
	REPLACEMENT, N-19-059, 1-91 OVER US	
	ROUTE 5 AND B&MRR, BRIDGE	
	REPLACEMENT, N-19-060, 1-91 OVER	
	HOCKANUM ROAD AND IMPROVEMENTS	
	TO 1-91/INTERCHANGE 19.	
	FFY 2021	
	 605032 – Please change the Additional Information column to the following with standard advance construction (AC) nomenclature: Construction / (YOE \$25,805,364) AC Year 1 of 2 FFY 2021 \$12,652,410, FFY 2022 \$13,152,954 STP / 50 TEC / 25%. 608782 – Please reconcile the difference 	
	between the Funding Source column and the	
	Additional Information column.	
	FFY 2022	
	605032 - Please change the Additional Information column to the following with	
	standard AC nomenclature: Construction /	
	(YOE \$25,805,364) AC Year 2 of 2 FFY 2021	
	\$12,652,410, FFY 2022 \$13,152,954 STP /	
	50 TEC / 25% STP, CMAQ, TAP.	
	608374 - Please change the Additional	
Dublic Destisionation Oursean and Oberran		

Information column to the following with	
standard AC nomenclature: Construction /	
(YOE \$19,797,253 AC Year 1 of 2 FFY 2022	
\$7,390,199, FFY2023 \$12,407,054 / 66.5 TEC	
25% STP.	
 608847 - Please add this project to the TIP 	
template based on the programming	
information provided in the statewide list.	
608869 – Please add this project to the TIP	
template based on the programming	
information provided in the statewide list.	
FFY 2023	
• 607823 – Please make sure the Project ID is	
"607823" not "607283."	
608374 - Please change the Additional	
Information column to the following with	
standard AC nomenclature: Construction /	
(YOE \$19,797,253 AC Year 2 of 2 FFY 2022	
\$7,390,199, FFY2023 \$12,407,054 / 66.5	
TEC 25% STP, CMAQ, TAP, HSIP.	
 608881 - Please use Project Description 	
from PINFO, including municipality names.	
 609120 - Please add this MassDOT Project ID to this project (LUDLOW-BRIDGE 	
REPLACEMENT, L-16-026, and PIIINEY LANE	
OVER BROAD BROOK). Greenhouse Gas CGHG) Assessment	
Please include the GHG TIP templates in the TIP	
document.	
 In all FFY Highway tabs, Section 2C is not 	
	· · · · · ·

		 pulling the impact number into the summary lines. Please fix this so it is included in the summary he for the entire spreadsheet at the bottom. In all FFY Transit tabs, projects beled as quantified are missing the impact numbers. Please include these. FFY 2019 Highway 606555 - This project should reflect a qualitative no impact." 608790 - This project should reflect a qualitative decrease. FFY 2020 Highway No GHG information is needed inlines that do not have funded projects. FFY 2021 Highway Non-interstate pavement projects should reflect a qualitative decrease. FFY 2022 Highway 608466 – The impact is not pulling into the summary. Please fix this so it is included in the summary line for the entire spreadsheet at the bottom. 			
Bob Rivard 11 Town Beach Rd.	608412	I am writing to provide my support for the inclusion of the State Street /Maple Street roadway improvement project (NO. 608412) in the Federal Fiscal Year (FFY) 2019 Transportation Improvement Program (TIP). The current condition of the corridor is poor; adequate bicycle and pedestrian facilities don't exist; and traffic congestion is severe affecting the vitality of our businesses and our standards of living. The proposed project will provide minor widening, new sidewalks, pavement rehabilitation, drainage improvements, and signal systems at the intersections of State Street at turkey	5/17/18	Comment Recorded	18

William C. Reichelt Mayor West Springfield608Mayor West Springfield608	Springfield an opportunity to comment on the Draft 2019- 2023 Transportation Improvement Program (TIP). I am pleased to see that the Town's Memorial Avenue Project (#608374) is included in the document under Federal Fiscal Years (FFY) 2022 and 2023. Please note this project is also included in the Commonwealth's Draft 2019-2023 Capital Investment Plan Update. The 25% design was submitted and reviewed by the Massachusetts Department of Transportation (MassDOT). The design consultant is currently reviewing and addressing the comments. As you are aware this project is included in the 2016 Regional Transportation Plan Update as a high priority project for the region. This project has and continues to be a high priority for West Springfield. The Town is committed to advancing and funding the entire design of this project so that is can be constructed as part of the TIP.	5/18/18	Comment Recorded	19
44	Pioneer Valley Transportation Ir	mprovemen	t Program 2019	9 -

		This Complete Streets Project will tie together the improvements completed at the Memorial Avern:e / Route 5 Rotary (Project # 605353) and the Route 147 Bridge Replacement over the Westfield River between Agawam and West Springfield (Project # 605384) that is scheduled to begin construction this year.			
David Ruderman 20 Springfield Rd Belchertown	608412	I am writing to provide my support for the inclusion-of the State Street /Maple Street roadway Improvement project (NO.608412) in the Federal Fiscal Year (FFY) 2019 Transportation Improvement Program (TIP). The current condition of the corridor is poor; adequate bicycle and pedestrian facilities don't exist; and traffic congestion is severe affecting the vitality of our businesses and our standards of living. The proposed project will provide minor widening, new sidewalks, pavement rehabilitation, drainage improvements, and signal systems at the intersections of State Street at turkey hill Road and State Street at Stadler Street. Ibelieve these measures will greatly benefit the community and the region. The reduced congestion and the improved safety for motorist, bicyclist, and pedestrians will support the existing residential and business development along the corridor as well as the future deve lopment of approximately 150 acres of commercial property currently under planning by mass development and the town. I have been a Belchertown resident for 2 years and have witnessed the negative impacts of growth on our town and our roadways, especially State Street and Maple Street. I eagerly anticipate the completion of this project and urge the members of the Metropolitan Planning Commission to work to keep this project funded in the FFY 2019 TIP. I'm a resident, a driver, a biker, and a walker	5/14/18	Comment Recorded	20
Holly Osborne 20 Springfield Rd Belchertown	608412	I am writing to provide my support for the inclusion-of the State Street /Maple Street roadway Improvement project (NO.608412) in the Federal Fiscal Year (FFY) 2019 Transportation Improvement Program (TIP). The current condition of the corridor is poor; adequate bicycle	5/14/18	Comment Recorded	21

and pedestrian facilities don't exist; and traffic congestion is		
severe affecting the vitality of our businesses and our standards		
č		
of living. The proposed project will provide minor widening,		
new sidewalks, pavement rehabilitation, drainage		
improvements, and signal systems at the intersections of State		
Street at turkey hill Road and State Street at Stadler Street.		
I believe these measures will greatly benefit the community and		
the region. The reduced congestion and the improved safety for		
motorist, bicyclist, and pedestrians will support the existing		
residential and business development along the corridor as		
well as the future development of approximately 150 acres of		
commercial property currently under planning by mass		
development and the town.		
I have been a Belchertown resident for 22 years and have		
witnessed the negative impacts of growth on our town and our		
roadways, especially State Street and Maple Street. I eagerly		
anticipate the completion of this project and urge the members		
of the Metropolitan Planning Commission to work to keep this		
project funded in the FFY 2019 TIP.		

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 22, 2018 and discussed the following item for endorsement: <u>The Pioneer Valley Region's 2019-2023</u> Transportation Improvement Program (TIP)

Massachusetts Department of Transportation (Mass DOT)I, Secretary of the Massachusetts Department of Transportation, herebyI EndorseI Do Not Endorsethe above referenced item.

Stephanie Pollack $\frac{05/22/18}{\text{Date}}$ cretary &CEO Mass DOT

Massachusetts Department of Transportation Highway Division

I, Acting Administrator of the Highway Division of MassDOT, hereby De Not Endorse the above referenced item.

Internel for Johnstein Gulliver <u>**5/22//8</u> Date</u>**

Highway Administrator, Mass DOT

Pioneer Valley Planning Commission (PVPC)

I, Chair of the Pioneer Valley Planning Commission, hereby□ Endorse□ Do Not Endorsethe above referenced item.

Walter Gunn

Pioneer Valley Transit Authority (PVTA)

I, Chair of the Pioneer Valley Transit Authority Advisory Board, hereby ∠ Endorse □ Do Not Endorse the above referenced item.

David Narkewicz Chair-PVTA

City of Holyoke I, Mayor of the City of Holyoke, hereby Do Not Endorse Endorse the above referenced item. ally more

5-22-18

5/22/18

Alex Morse Mayor-Holyoke

Date

May 22, 2018 endorsement PVMPO 2019 - 2023TIP

City of Chicopee

I, Mayor of the City of Chicopee, hereby ¹Endorse Do Not Endorse the above referenced item. 5-22-18 Date

Richard Kos Mayor-Chicopee

City of West Springfield

I, Mayor of the City of West Springfield, hereby Do Not Endorse the above referenced item. **D**-Endorse r/aa/11-Date

William Reichelt

Mayor-West Springfield

Town of Amherst

I. Board of Selectmen member of the Town of Amherst, hereby

Endorse Do Not Endorse the above referenced item.

VAIININU Douglas &laughter

<u>| ZZ | ZQ18</u>

Selectman-Amherst

Town of Belchertown

I, Board of Selectmen member of the Town of Belchertown, hereby Do Not Kndorse the above referenced item. □ Endorse

5/22

George Archible Selectman-Belchertown

Town of Southampton

I, Board of Selectmen member of the Town of Southampton, hereby Do Not Endorse the above referenced item. ∕∕**∠** Endorse

5/22/15

Charles Kaniecki Selectman-Southampton

Western Mass Economic Development Council

I. Executive Director of the Western-Mass Economic Development Council, hereby A-Endorse Do Not Endorse // the above referenced item. Richard Sullivan Executive Director

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 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 2015. 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 Metropolitan Planning Organization, or their designees, have met on May 23, 2017 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 shall certify that the metropolitan transportation planning process is being carried out in accordance with all applicable requirements including:

1. 23 U.S.C. 134, 49 U.S.C. 5303, and this subpart;

2. In non-attainment and maintenance areas, sections 174 and 176 (c) and (d) of the Clean Air Act, as amended (42 U.S.C. 7504, 7506 (c) and (d)) and 40 CFR part 93;

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 SAFETEA-LU (Pub. L. 109-59) and 49 CFR part 26 regarding the involvement of disadvantaged business enterprises in USDOT funded projects;

6. 23 CFR Part 230, regarding the 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; and

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, a Member of Congress, in connection with the awarding of any Federal contract.

May 23, 2017 endorsement PVMPO 3C Self Certification

Massachusetts Department of Transportation (Mass DOT) I. Secretary of the Massachusetts Department of Transportation, hereby Do Not Endorse the above referenced item. Endorse Stephanie Pollack Secretary & CEO Mass DOT **Massachusetts Department of Transportation Highway Division** I, Acting Administrator of the Highway Division of MassDOT, hereby L Endorse \Box Do Not Endorse \land the above referenced item. 5/23/2017 **Thomas Tinlin** For Highway Administrator, Mass DOT **Pioneer Valley Planning Commission (PVPC)** I, Chair of the Pioneer Valley Planning Commission, hereby Endorse Do Not Endorse the above referenced item. 5/27/17 Walter Gunn Chair - PVPC **Pioneer Valley Transit Authority (PVTA)** I, Chair of the Pioneer Valley Transit Authority Advisory Board, hereby Endorse Do Not Endorse the above referenced item. 5/23/17 Date David Narkewicz Chair- PVTA

City of Holyoke I, Mayor of the City of Holyoke, hereby Endorse Do Not Endorse the above referenced item.

abut more

5/23/17

Date

Alex Morse Mayor-Holyoke May 23, 2017 endorsement **PVMPO 3C Self Certification**

City of Chicopee

I, Mayor of the City of Chicopee, hereby the above referenced item. Endorse Do Not Endorse <u>5 -23 -1</u>7 Date

Richard Kos Mayor-Chicopee

Town of Agawam I, Mayor of the Town of Agawam, hereby

Endorse Do Not Endorse the above referenced item.

23 May 2017 Date

Richard Cohen Mayor-Agawam

th

Town of Amherst

I, Board of Selectmen member of the Town of Amherst, hereby Endorse Do Not Endorse the above referenced item.

Douglas Slaughter Selectman-Amherst

23/2017

Town of Belchertown I, Board of Selectmen member of the Town of Belchertown, hereby Endorse Do Not Endorse the above referenced item. C George Archible Selectman-Belchertown

Town of Southampton

I, Board of Selectmen member of the Town of Southampton, hereby Endorse E Do Not Endorse the above referenced item.

Charles Kaniecki

Selectman-Southampton

<u>MAL 23</u> 2013 Date

310 CMR 60.05: GLOBAL WARMING SOLUTIONS ACT REQUIREMENTS - ENDORSEMENT

The signatures below signify that all members of the Pioneer Valley Region's Metropolitan Planning Organization, or their designees, have met on May 23, 2017 and discussed the following item for endorsement:

This will certify that the 2018 – 2022 TIP 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 Organizations (MPOs) to:

- 1. 310 CMR 60.05, 3(b)(1)(a): Evaluate and track the GHG emissions and impacts of RTPs and TIPs;
- 2. 310 CMR 60.05, 3(b)(1)(b): 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, 3(b)(1)(c): 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, 3(b)(1)(d): 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, 4(a)(2)(a): Develop RTPs and TIPs;
- 6. 310 CMR 60.05, 4(a)(2)(b): Ensure that RPAs are using appropriate planning assumptions;
- 310 CMR 60.05, 4(a)(2)(c): Perform regional GHG emissions analysis of RTPs and TIPs;
- 8. 310 CMR 60.05, 4(a)(2)(d): Calculate GHG emissions for RTPs and TIPs;
- 9. 310 CMR 60.05, 4(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, 4(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, 6(a): 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 23, 2017 endorsement PVMPO 2018 GHG

Massachusetts Department of Transportation (Mass DOT) I, Secretary of the Massachusetts Department of Transportation, hereby Endorse Do Not Endorse the above referenced item. Stephanie Pollack Secretary & CFO Mass DOT **Massachusetts Department of Transportation Highway Division** I, Acting Administrator of the Highway Division of MassDOT, hereby Endorse the above referenced item. Do Not Endorse FOR Thomas Tinlin Highway Administrator, Mass DOT **Pioneer Valley Planning Commission (PVPC)** I, Chair of the Pioneer Valley Planning Commission, hereby Do Not Endorse the above referenced item. Endorse Walter Gunn Chair - PVPC **Pioneer Valley Transit Authority (PVTA)** I, Chair of the Pioneer Valley Transit Authority Advisory Board, hereby I Endorse the above referenced item. Do Not Endorse David Narkewicz Date Chair- PVTA City of Holyoke I, Mayor of the City of Holyoke, hereby

Endorse Do Not Endorse the above referenced item.

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5-23-17

Alex Morse Mayor-Holyoke

Date

May 23, 2017 endorsement PVMPO 2018 GHG

City of Chicopee

I, Mayor of the City of Chicopee, hereby Endorse Do Not Endorse the above referenced item.

5-23-17 Date Richard Kos

Mayor-Chicopee

Town of Agawam

I, Mayor of the Town of Agawam, hereby Do Not Endorse 🖉 Endorse

the above referenced item. 10 10 Richard Cohen

23 MAY 2017 Date

Mayor-Agawam

Town of Amherst

I, Board of Selectmen member of the Town of Amherst, hereby Endorse Do Not Endorse the above referenced item.

Jellushle Douglas Slaughter

Date

Selectman-Amherst

Town of Belchertown

I, Board of Selectmen member of the Town of Belchertown, hereby Do Not Endorse 🖆 Endorse the above referenced item. George Archible

Selectman-Belchertown

Town of Southampton

I, Board of Selectmen member of the Town of Southampton, hereby the above referenced item. Endorse Endorse Do Not Endorse

cel/1Ce

<u>HHY 23, 2017</u> Date

Charles Kaniecki Selectman-Southampton

FUNDING INFORMATION

FEDERAL AID TARGETS

The MassDOT provided the revised PVPC federal aid highway funding targets for the region on February 21, 2018. The targets are provided for FFYs 2019 through 2023 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 FFY2019 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 5 (highway) and Table 6 (transit) shows both these target amounts and the amounts programmed for highway projects during fiscal years 2019 - 2023. Projects that are not charged against the funding targets are not presented in the table. These projects include: Statewide items; and special funding projects. Table 6 shows the projected transit funds for FFY 2019 – 2023.

	2019	2020	2021	2022	2023	GRAND
						TOTAL
Total Target Funds	\$24,855,247	\$25,782,146	\$26,303,990	\$26,839,603	\$27,425,802	\$131,206,788
Total of	\$24,447,538	\$25,756,683	\$26,303,991	\$26,839,602	\$27,055,729	\$130,403,543
Programmed						
Programmed STP	\$20,585,571	\$21,656,807	\$21,859,991	\$23,339,602	\$23,555,729	\$110,997,700
Programmed HSIP	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$5,000,000
Programmed CMAQ	\$2,386,880	\$2,599,876	\$2,944,000	\$2,000,000	\$2,000,000	\$11,930,756
Programmed TAP	\$475,087	\$500,000	\$500,000	\$500,000	\$500,000	\$2,475,087
Difference	\$407,709	\$25,463	-\$1	\$1	\$370,073	\$803,245

Table 5 Federal Highway Financial Plan

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 6 represents both apportioned items as well as discretionary items. The total programmed amount represents both the federal, state and local contributions.

	2019	2020	2021	2022	2023	GRAND
						TOTAL
Transit Capitol	\$32,282,731	\$27,353,435	\$31,285,699	\$29,265,958	\$29,195,129	\$149,382,952
Investment						
5307	\$13,072,249	\$17,625,646	\$21,011,891	\$27,234,025	\$27,181,085	\$106,124,896
5309						\$0
5310						\$0
5311						\$0
5337						\$0
5339	\$1,836,620	\$7,377,789	\$10,038,808			\$19,253,217
5320						\$0
Other Federal						\$0
Other Non	\$17,373,862	\$2,350,000	\$235,000	\$2,031,933	\$2,014,044	\$24,004,839
Federal						

Table 6 Federal Transit Financial Plan

The transit projects programmed focus on maintaining and operating the present system while implementing the recommendations of the Comprehensive Service Analysis (CSA) completed in the spring of 2014. For more information regarding the CSA please go to PVTA website. www.pvta.com.

THE GEOGRAPHIC DISTRIBUTION OF FEDERAL TARGET FUNDS IN THE PIONEER VALLEY METROPOLITAN PLANNING REGION – 2019 TO 2023

PVPC staff reviewed historical project programming for the Transportation Improvement Program (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 past 5 years (2014 through 2018) TIP. Table 7 provides the results of this analysis broken out by MPO sub-region while Table 2 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 7 and 8 the PVMPO has successfully programmed 35 projects in 20 communities over the past 5 years. The total funding commitment for these projects was just over \$90 million. During this time the PVMPO averaged \$18 million per year in funding. The average cost per project was \$2.6 million (increase from \$2.4 million last year) or 6.8 projects per year on average. Over the past five years, the PVMPO has committed federal funds for transportation projects in almost half (44%) of the communities in the region.

	2019	2020	2021	2022	2023	Total	Total Funds	% Funds	% Population	Average Median Income	Average Median Below Poverty
Sub Region 1	6	6	4	7	2	25	\$74,453,775	25%	40%	\$39,186	24.37%
Sub Region 2	3	3	1	1	0	8	\$61,088,451	20%	17%	\$64,795	8.53%
Sub Region 3	1	3	4	5	1	13	\$106,993,625	35%	17%	\$61,037	14.68%
Sub Region 4	4	0	2	4	2	12	\$37,992,507	13%	21%	\$73,499	6.84%
Sub Region 5	2	1	0	0	1	4	\$21,526,807	7%	4%	\$68,342	6.52%
-	16	13	11	17	6	62	\$302,055,166				

Table 7 Projects Proposed to be Completed in the 2019-2023 TIP by Sub-Region

Source: PVPC TIP

As can be seen in Table 7, the distribution of funds across the region is similar to the distribution of population across the region. Sub-region 3 received 18% more funding than population over the past 5 years. This was due to the MPO commitment to fund two large projects, one in Westfield (Bridge Replacement Route 10/202 over the Little River \$13 million) and one in project in West Springfield (Memorial Ave Reconstruction \$20 million). The PVMPO is committed to funding transportation improvement projects across the entire region. The community data provided in Table 8 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 8 Projects Proposed to be Completed in the 2019-2023 TIP by Municipality

	2019	2020	2021	2022	2023	Total	Total Funds	% Funds	% Population	Median Household Income	Below Poverty Level
Agawam	1	0	0	0	0	1	\$ 2,622,622	0.87%	4.58%	\$63,561	9.30%
Amherst	0	0	0	2	0	2	\$ 3,621,863	1.20%	6.21%	\$52,537	33.80%
Belchertown	1			1		2	\$ 7,225,023	2.39%	2.35%	\$74,221	7.80%
Blandford	0	0	0	0	0	0	\$ -	0.00%	0.20%	\$72,361	5.60%
Brimfield	0	0	0	0	0	0	\$-	0.00%	0.59%	\$82,365	3.00%
Chester	0	0	0	0	0	0	\$-	0.00%	0.22%	\$65,648	9.20%
Chesterfield	0	0	0	0	0	0	\$-	0.00%	0.20%	\$63,594	7.30%
Chicopee	3	4	0	4	0	11	\$ 27,507,647	9.11%	8.89%	\$47,276	12.90%
Cummington	0	0	0	0	0	0		0.00%	0.14%	\$50,521	6.40%
East Longmeadow	0	0	0	0	0	0		0.00%	2.56%	\$84,173	5.10%
Easthampton	0	0	1	0	0	1	\$ 2,201,643	0.73%	2.55%	\$56,927	8.30%
Goshen	0	0	0	0	0	0		0.00%	0.17%	\$69,219	2.80%
Granby	1	0	1	1	0	3	\$ 7,824,636	2.59%	1.00%	\$78,261	5.80%
Granville	0	0	0	0	0	0	\$ -	0.00%	0.26%	\$75,208	7.10%
Hadley	0	0	1	1	0	2	\$ 31,453,359	10.41%	0.84%	\$74,737	7.50%
Hampden	0	0	0	0	0	0	\$-	0.00%	0.83%	\$78,722	4.20%
Hatfield	0	0	0	0	0	0	\$-	0.00%	0.52%	\$60,033	11.10%
Holland	1	0	0	0	0	1	\$ 2,919,446	0.97%	0.40%	\$64,868	9.40%
Holyoke	2	2	1	1	0	6	\$ 22,047,524	7.30%	6.42%	\$35,550	30.10%
Huntington	0	0	0	0	0	0	\$-	0.00%	0.35%	\$52,275	9.80%
Longmeadow	0	0	0	0	1	1	\$ 6,064,675	2.01%	2.53%	\$108,835	5.30%
Ludlow	0	0	0	0	1	1	\$ 598,560	0.20%	3.42%	\$61,410	5.90%
Middlefield	1	0	0	0	0	1	\$ 970,807	0.32%	0.08%	\$78,214	5.30%
Monson	0	0	0	1	0	1	\$ 1,742,784	0.58%	1.39%	\$66,389	8.20%
Montgomery	0	0	0	0	0	0	\$ -	0.00%	0.14%	\$78,333	2.00%
Northampton	1	2	2	2	1	8	\$ 67,507,800	22.35%	4.55%	\$58,179	14.60%
Palmer	0	0	0	0	0	0	\$	0.00%	1.94%	\$51,846	10.30%
Pelham	0	0	0	0	0	0	\$-	0.00%	0.21%	\$88,462	5.70%

							\$			• · • •	
Plainfield	0	0	0	0	0	0	-	0.00%	0.10%	\$57,188	9.30%
Russell	0	0	0	0	0	0	\$	0.00%	0.29%	\$68,750	2.10%
South Hadley	0	1	0	0	0	0	\$ 2,208,960	0.73%	2.83%	\$62,803	9.20%
Southampton	0	0	0	0	0	0	\$	0.00%	0.95%	\$68,693	4.90%
Southwick	0	0	0	0	0	0	\$	0.00%	1.54%	\$81,967	2.90%
Springfield	1	0	3	2	2	8	\$ 24,898,605	8.24%	24.52%	\$34,731	30.10%
Tolland	0	0	0	0	0	0	\$	0.00%	0.08%	\$85,750	7.90%
Wales	0	0	0	1	0	1	\$ 540,096	0.18%	0.30%	\$52,500	5.30%
Ware	1	0	0	0	0	1	\$ 2,475,087	0.82%	1.57%	\$49,630	14.90%
West Springfield	1	1	0	1	0	3	\$ 28,924,265	9.58%	4.58%	\$52,806	11.00%
Westfield	1	2	1	0	0	4	\$ 29,541,565	9.78%	6.59%	\$60,845	10.90%
Westhampton	0	1	0	0	0	1	\$ 3,072,000	1.02%	0.26%	\$79,583	5.20%
Wilbraham	0	0	1	0	0	1	\$ 8,602,200	2.85%	2.31%	\$87,303	4.80%
Williamsburg	0	0	0	0	0	0	\$	0.00%	0.39%	\$65,147	10.20%
Worthington	1	0	0	0	1	2	\$ 17,484,000	5.79%	0.19%	\$71,300	4.60%
Hampden County	10	9	6	10	4	39	156,009,988	51.65%	74.54%	\$50,036	17.70%
Hampshire County	6	4	5	7	2	23	146,045,178	48.35%	25.46%	\$61,460	13.90%
Pioneer Valley Region	16	13	11	17	6	62	302,055,166			\$ 52,108	16.60%

Source: PVPC TIP

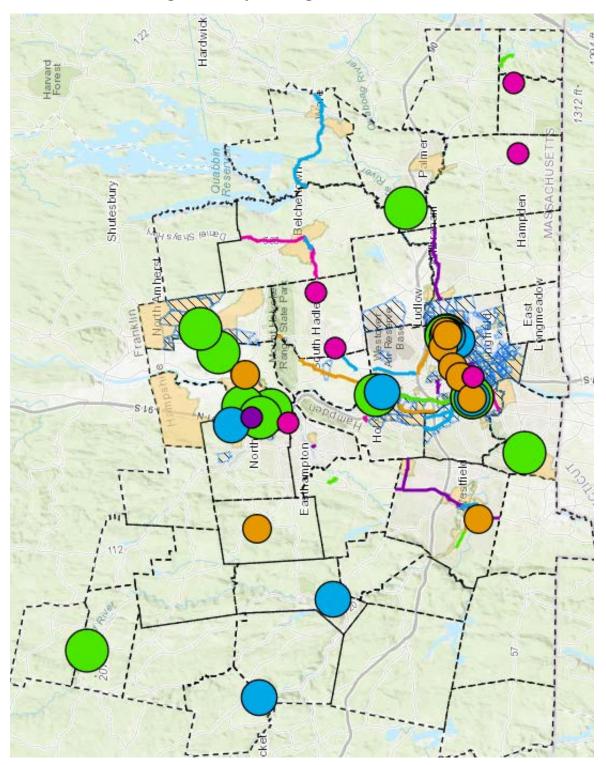


Figure 5 Project Programmed in the TIP

A higher resolution version of this figure can be found here: http://pvpc.maps.arcgis.com/apps/StorytellingTextLegend/index.html?appid=f54bf3b6dfd04033980 dcd9a898b85a3

IV. FEDERAL AID REGIONAL PROJECT LISTINGS

The following is a complete listing of the Pioneer Valley Federally Funded Transportation Improvement Projects for Fiscal Years 2019 - 2023.

ORGANIZATION OF PROJECT LISTINGS

Each project in the TIP contains the following information:

- <u>MassDOT Project ID</u> Project identification numbers given by the Massachusetts Highway Department.
- <u>MassDOT Project Description</u> Includes Town or city in which a project is located, and a description of work to be funded under the project.
- <u>MassDOT District</u> The MassDOT sub-Region were 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.

<u>Total Programmed Funds</u> - 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.

- <u>Additional Information</u> Provides additional project information including design status, Transportation Evaluation Criteria (TEC) Score, and YOE Cost.
- <u>Regional Target</u> The total combined Federal and State dollar amount provided for project funding.
- <u>TEC Score</u> This score is based on criteria developed rank the regional significant of each eligible TIP project

Table 9 Summary of Programmed Projects Section 1 A Federal Aid Target Projects

SID 2019	Municipality	FFY	Project Description	District	Funding Sources	Total	Funds	Federal Funds	Non- Federal Funds	Additional Information
	Springfield		SPRINGFIELD- INTERSECTION IMPROVEMENTS AT BAY STREET AND BERKSHIRE AVENUE	2	HSIP, CMAQ	\$	1,886,880	\$ 682,406		Construction / (YOE \$1,886,880 STP) / 49.5 TEC / 25%
2019	Agawam		AGAWAM- RECONSTRUCTION OF ROUTE 187 FROM 425 FT. SOUTH OF S. WESTFIELD STREET TO ROUTE 57 (0.3 MILES - PHASE I)	2	STP	\$	2,622,622	\$1,567,980	. ,	Construction / (YOE \$2,622,622 STP) / 27 TEC / 25%
2019	Belchertown		BELCHERTOWN- IMPROVEMENTS & RELATED WORK ON ROUTES 202 & 21, FROM TURKEY HILL ROAD TO SOUTH MAIN STREET (1.2 MILES)	2	STP	\$	5,143,503	\$3,827,200		Construciton / (YOE \$5,1434,503 STP) / 59 TEC / 25%
	Ware		WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH STREET	2	STP, CMAQ.TAP	\$	2,475,087	\$ 505,532		Construction / (YOE \$2,475,087) STP) / 55 TEC / 75%
	PVTA		P21 Express - Year 2 Operating		CMAQ	\$	500,000	\$ 400,000	\$ 100,000	Operating year 2
2019	Holland		HOLLAND- RESURFACING & RELATED WORK ON BRIMFIELD ROAD, FROM THE BRIMFIELD/HOLLAND T.L. TO WALES ROAD (1.4 MILES - PHASE I)	2	STP	\$	2,919,446	\$2,335,557		Construction / (YOE \$2,919,446) STP) / 26.5 TEC / 25% - 25% Comment Received, cost increased from \$1,409,592
2019	Worthington		Route 143 Reconstruction and Related Work - Phase I	1	STP	\$	8,900,000	\$7,120,000		Construction / (YOE \$8,900,000) STP / 41.5 TEC / 75% Project Phased Total project cost was \$16,300,000
				· · · · ·	Programmed	\$	24,447,538			
					Target	\$	24,855,247			

	Municipality	FFY	Project Description	District	Funding Sources	Total	Funds	Federal Funds	Non- Federal Funds	Additional Information
2020	Westfield		WESTFIELD- IMPROVEMENTS & RELATED WORK ON ROUTE 20, COURT STEET & WESTERN AVENUE, LLOYDS HILL ROAD TO HIGH STREET/MILL STREET INTERSECTION (PHASE II)	2	HSIP/STP/CMAQ/TAP	\$	7,599,876	\$ 972,893	\$ 108,099	Construction / (YOE \$7,599,876 STP) / 48.5 TEC / 25%
2020	Chicopee		CHICOPEE- RECONSTRUCTION & RELATED WORK ON FULLER ROAD, FROM MEMORIAL DR (RTE 33) TO SHAWINIGAN DR (2.0 MILES)	2	STP	\$	7,907,953	\$6,480,934	\$1,620,233	Construction / (YOE \$7,907,953 STP) / 48.5 TEC / 25%
2020	Northampton		NORTHAMPTON- RECONSTRUCTION OF DAMON ROAD, FROM ROUTE 9 TO ROUTE 5, INCLUDES DRAINAGE SYSTEM REPAIRS & SLOPE STABILIZATION AT THE NORWOTTUCK RAIL TRAIL	2	STP	\$	10,248,854	\$4,359,945	\$1,089,986	Construction / (YOE \$10,248,854 STP) / 66.5 TEC / 75%
2021					Target Difference		25,756,683 25,782,146 25,463			
2021	Springfield		SPRINGFIELD- INTERSECTION IMPROVEMENTS AT BERKSHIRE AVENUE, COTTAGE AND HARVEY STREETS	2	STP	\$	2,229,021	\$1,783,217	\$ 445,804	Construction / (YOE \$2,229,021 STP) / 41.5 TEC Score / Pre 25%
2021	Springfield	608782	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT COTTAGE STREET, INDUSTRY AVENUE AND ROBBINS ROAD	2	STP	\$	1,944,000	\$1,555,200	\$ 388,800	Construction / (YOE \$1,944,000) STP) / 46.5 TEC Score / Pre 25%
2021	Amherst		AMHERST- IMPROVEMENTS & RELATED WORK ON ROUTES 9 & 116, FROM UNIVERSITY DRIVE TO SOUTH PLEASANT STREET (0.8 MILES)	2	STP	\$	3,621,863	\$1,044,709	\$ 261,177	Construction / (YOE \$3,621,863 STP) / 53.5 TEC / 25%
2021	Northampton	607502	NORTHAMPTON- INTERSECTION IMPROVEMENTS AT KING STREET, NORTH STREET & SUMMER STREET AND AT KING STREET & FINN STREET	2	STP	\$	3,655,054	\$ 992,000	\$ 248,000	Construction / (YOE \$3,655,054 STP, CMAQ) / 65 TEC / 25%
2021	Easthampton		EASTHAMPTON- IMPROVEMENTS AND RELATED WORK ON UNION STREET (ROUTE 141) FROM PAYSON AVENUE TO HIGH STREET (0.36 MILES)	2	STP	\$	2,201,643	\$1,169,984	\$ 292,496	Construction / (YOE \$2,201,643 STP) / 62 TEC / Pre 25%
2021	Hadley	605032	HADLEY- RECONSTRUCTION ON ROUTE 9, FROM MIDDLE STREET TO MAPLE/SOUTH MAPLE STREET	2	A/C STP	\$	12,652,410	\$1,761,984	\$ 440,496	Construction / (YOE \$25,805,364) Year 1 FFY 2021 A/C \$12,652,410, Year 2 FFY 2022 A/C \$13,152,954 STP / 50 TEC / 25%
					Target	\$ ¢	26,303,990 26,303,990			
2022					Difference		20,303,990			

SID	Municipality	FFY	Project Description	District	Funding Sources	Total	Funds	Federal Funds	Non- Federal Funds	Additional Information
2022	West Springfield	608374	WEST SPRINGFIELD- RECONSTRUCTION OF MEMORIAL AVENUE (ROUTE 147), FROM COLONY	2	A/C STP	\$	7,390,199	\$ 972,893	\$ 108,099	Construction / (YOE \$19,797,253 Year 1 FFY 2022 A/C \$7,390,199
			ROAD TO THE MEMORIAL AVENUE ROTARY (1.4							Year 2 A/C FFY2023 \$12,407,054
			MILES)							STP / 66.5 TEC 25%
2022	Granby	606895	GRANBY- IMPROVEMENTS @ 2 LOCATIONS ON	2	STP	\$	2,866,866	\$1,287,046	\$ 321,762	Construction / (YOE \$1,959,470)
			ROUTE 202: SCHOOL STREET & FIVE CORNERS							STP) / 42 TEC / 25%
2022	Holyoke	606156	HOLYOKE- RECONSTRUCTION OF I-91 INTERCHANGE	2	STP	\$	3,429,583	\$2,786,880	. ,	Construction / (YOE \$3,349,615
			17 & ROUTE 141							STP) / 47 TEC / Pre 25%
2022	Hadley	605032	HADLEY- RECONSTRUCTION ON ROUTE 9, FROM	2	A/C STP	\$	13,152,954	\$1,761,984		Construction / (YOE \$25,805,364)
			MIDDLE STREET TO MAPLE/SOUTH MAPLE STREET							Year 1 FFY 2021 A/C \$12,652,410,
										Year 2 FFY 2022 A/C \$13,152,954
										STP / 50 TEC / 25%
						\$	26,839,603			
					Target		26,839,603			
2023					Difference	\$	0			
2023	West Springfield	608374	WEST SPRINGFIELD- RECONSTRUCTION OF	2	A/C STP	\$	12,407,054	\$ 972,893	\$ 108,099	Construction / (YOE \$19,797,253
			MEMORIAL AVENUE (ROUTE 147), FROM COLONY							Year 1 FFY 2022 A/C \$7,390,199
			ROAD TO THE MEMORIAL AVENUE ROTARY (1.4							Year 2 A/C FFY2023 \$12,407,054
			MILES)							STP / 66.5 TEC 25%
2023	Worthington	PV0001	Route 143 Reconstruction and Related Work -	1	STP	\$	8,584,000	\$6,867,200	\$1,716,800	Construction / (YOE \$8,584,000)
			Phase II							STP / 41.5 TEC / 75% Project
										Phase I funded in FFY 2019 Total
										project cost was \$16,300,000
2023	Lonmeadow	608881	RESURFACING AND INTERSECTION IMPROVEMENTS	2	STP	\$	6,064,675	\$4,851,740	\$1,212,935	Construction (YOE \$6,064,675 /
			ON LONGMEADOW STREET (ROUTE 5) AND							54.5 TEC / Pre 25%
			CONVERSE STREET (0.84 MILES)			<u> </u>	27.055.720			
						Ş	27,055,729			
					Target		27,425,802			
					Difference	Ş	370,073			

Table 10 Federally Funded Projects Year 2019

Amendment / Adjustment Type ▼	STIP Program ▼	MassDOT Project ID ▼	Metropolitan Planning Organization ▼	Municipality Name ▼	MassDOT Project Description▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼		Non-Federal Funds ▼	Additional information ▼ <u>Present information as follows, if applicable:</u> a) Panning / Design / or Construction; b) total project cost and funding sources used: c) advance construction
Section 1A / Regi	onally Prioritized	Projects									
Regionally Priorit	ized Projects		-5			0					
	Intersection Improvements	608411	Pioneer Valley	Springfield	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT BAY STREET AND BERKSHIRE AVENUE	2	HSIP	\$ 1,000,000	\$ 900,000	\$ 100,000	Construction / (YOE \$1,886,880 STP) / 49.5 TEC 25% HSIP, CMAQ
	Intersection Improvements	608411	Pioneer Valley	Springfield	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT BAY STREET AND BERKSHIRE AVENUE	2	CMAQ	\$ 886,880	\$ 709,504	\$ 177,376	Construction / (YOE \$1,886,880 STP) / 49.5 TEC 25% HSIP, CMAQ
	Roadway Reconstruction	600513	Pioneer Valley	Agawam	AGAWAM- RECONSTRUCTION OF ROUTE 187 FROM 425 FT. SOUTH OF S. WESTFIELD STREET TO ROUTE 57 (0.3 MILES - PHASE I)	2	STP	\$ 2,622,622	\$ 2,098,098	\$ 524,524	Construction / (YOE \$2,622,622 STP) / 27 TEC / 25% STP
	Intersection Improvements	608412	Pioneer Valley	Belchertown	BELCHERTOWN- IMPROVEMENTS & RELATED WORK ON ROUTES 202 & 21, FROM TURKEY HILL ROAD TO SOUTH MAIN STREET (1.2 MILES)	2	STP	\$ 5,143,503	\$ 4,114,802	\$ 1,028,701	Construciton / (YOE \$5,143,503 STP) / 59 TEC / 25% STP - 75% Due May 27, 2018
	Intersection Improvements	607987	Pioneer Valley	Ware	WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH STREET	2	STP	\$ 1,000,000	\$ 800,000	\$ 200,000	Construction / (YOE \$2,475,087) STP) / 55 TEC 75% STP, CMAQ, TAP
	Intersection Improvements	607987	Pioneer Valley	Ware	WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH STREET	2	CMAQ	\$ 1,000,000	\$ 800,000	\$ 200,000	Construction / (YOE \$2,475,087) STP) / 55 TEC 75% STP, CMAQ, TAP
	Intersection Improvements	607987	Pioneer Valley	Ware	WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH STREET	2	ТАР	\$ 475,087	\$ 380,070	\$ 95,017	Construction / (YOE \$2,475,087) STP) / 55 TEC 75% STP, CMAQ, TAP
	Roadway Reconstruction	604962	Pioneer Valley	Holland	HOLLAND- RESURFACING & RELATED WORK ON BRIMFIELD ROAD, FROM THE BRIMFIELD/HOLLAND T.L. TO WALES ROAD (1.4 MILES - PHASE I)	2	STP	\$ 2,919,446	\$ 2,335,557	\$ 583,889	Construction / (YOE \$2,919,446) STP) / 26.5 TEC 25% - 25% Comment Received
	Roadway Reconstruction	606912	Pioneer Valley	Worthington	WORTHINGTON- RECONSTRUCTION & RELATED WORK ON ROUTE 143 (PHASE I)	1	STP	\$ 8,900,000	\$ 7,120,000	\$ 1,780,000	Construction / (YOE \$8,900,000) STP / 41.5 TEC 75% Project Phased Total project cost was
	Planning / Adjustments / Pass-throughs	PV0001	Pioneer Valley	multiple	P21 Express - Year 2 Operating	2	CMAQ	\$ 500,000	\$ 400,000	\$ 100,000	P21 Express - Year 2 Operating CMAQ

Regionally Prioritized Projects subtotal **b** \$ 24,447,538 \$ 19,658,030 \$ 4,789,508 < 80% Federal + 20% Non-Federal

► Section 1A / Fiscal Constraint Analysis

Total Regional Federal Aid Funds Programmed ►\$ 24,447,538\$ 24,855,247<Total</th>\$ 407,709Target Funds Available

<u>Section 1A instructions</u>: MPO Template Name) Choose Regional Name from dropdow n list to populate header and MPO column; Column C) Enter ID from Projecthfo; Column E) Choose Municipality Name from dropdow n list; Column H) Choose the Funding Source being used for the project - if multiple funding sources are being used enter multiple lines; Column I) Enter the total amount of funds being programmed in this fiscal year and for each funding source; Column J) Federal funds autocalculates. Please verify the amount and only chance if needed for flex. Column K) Non-federal funds autocalculates. Please verify the solit/match - if matching an FTA flex.

-			Budget
STP programmed ►	\$ 20,585,571	\$ 16,468,457	
HSIP programmed ►	\$ 1,000,000	\$ 900,000	◄ HSIP
CMAQ programmed ►	\$ 2,386,880	\$ 1,909,504	CMAQ
TAP programmed ►	\$ 475,087	\$ 380,070	◀ TAP

Table 10: Federally Funded Projects Year 2019 (Continued)

► Section 1B / Earma	rk or Discretionary	Grant Fund	ed Projects										
► Other Federal Aid													
			Pioneer Valley		Other Federal Aid		HPP	\$	-	\$	- \$	-	
						Other Federa	I Ald subtotal ►	\$	-	\$. \$	-	✓ Funding Split Varies by Funding Source
								* *		•	1.		
Section 2A / State I	Prioritized Reliabilit	y Projects											
► Bridge Program / I	nspections												
	Bridge Program		Pioneer Valley		Bridge Inspection			\$	-		\$	-	
					Bridge Prog	gram / Inspec	tions subtotal ►	\$	-	\$	- \$	-	 Funding Split Varies by Funding Source
►Bridge Program / C)ff-System												
<u> </u>				1	MIDDLEFIELD- BRIDGE SUPERSTRUCTURE	1	[1					
	Bridge Program	608429	Pioneer Valley		REPLACEMENT, M-19-010, CHESTER ROAD	1	STP-BR-OFF	\$	970,807	\$ 776,64	45 \$	194,162	
					OVER SMART BROOK	grom / Off Sv	l stem subtotal ►	¢	970,807	\$ 776,64	Б¢	104 162	■ 80% Federal + 20% Non-Federal
						giani / Oli-Sy		ļΨ	970,007	φ 770,04	υp	194,102	
► Bridge Program / C													
	Bridge Program		Pioneer Valley		Bridge Program / On-System (NHS)			\$	-		\$	-	
					Bridge Program /	On-System (I	NHS) subtotal 🕨	\$	-	\$	\$	-	 Funding Split Varies by Funding Source
► Bridge Program / C	n-System (Non-NHS	5)											
	Bridge Program		Pioneer Valley		Bridge Program / On-System (Non-NHS)			\$	-		\$	-	
					Bridge Program / On-S	System (Non-I	NHS) subtotal ►	\$	-	\$	\$	-	◀ 80% Federal + 20% Non-Federal
► Bridge Program / S	vstematic Maintena	nce											
	Bridge Program		Pioneer Valley		Bridge Program / Systematic Maintenance			\$	-		\$	-	
					Bridge Program / Systen	natic Mainten	ance subtotal 🕨	\$	-	\$	- \$	-	 Funding Split Varies by Funding Source
►Interstate Pavemer													
P Interstate i avenier	Interstate	007500	D:		CHICOPEE- HOLYOKE- INTERSTATE		NUIDE	•	44 000 075	•		4 400 000	
	Pavement	607560	Pioneer Valley	Multiple	MAINTENANCE AND RELATED WORK ON I-391	2	NHPP	<u> </u>		\$ 10,178,88			
					Ins	terstate Pave	ment subtotal >	\$	11,309,875	\$ 10,178,88	88 \$	1,130,988	◄ 90% Federal + 10% Non-Federal
► Non-Interstate Pave	ement												
***************************************	Non-Interstate	607474	Pioneer Valley	Multiple	GRANBY- SOUTH HADLEY- RESURFACING AND	2	NHPP	\$	5,752,500	\$ 4,602,00	0 5	1,150,500	
	Pavement	- 17100		Indupie	RELATED WORK ON ROTUE 202		<u> </u>	<u> </u>					
					INON-IN	iterstate Pave	ment subtotal >	\$	5,752,500	\$ 4,602,00	0 \$	1,150,500	■ 80% Federal + 20% Non-Federal
Roadway Improve	ments												
	Roadway		Pioneer Valley		Roadway Improvements			\$	-	\$	- \$	-	
	Improvements						l nents subtotal ►	¢	-		\$		■ 80% Federal + 20% Non-Federal
					Noau	way improven		Ψ	-	φ	- φ	-	
Safety Improveme	nts							~~~~~					
					CHICOPEE- SIGNAL & INTERSECTION						ſ		
	Safety Improvements	607736	Pioneer Valley	Chicopee	IMPROVEMENTS AT 13 INTERSECTIONS ALONG ROUTE 33 (MEMORIAL DRIVE), FROM FULLER	2	HSIP	\$	6,001,387	\$ 5,401,24	8 \$	600,139	
	inprovemento				ROAD TO ABBEY STREET								
******	Safety	608600	Pioneer Valley	Multiple	CHICOPEE- WEST SPRINGFIELD- HIGHWAY	2	NHPP	\$	4,300,759	\$ 3,440,60	7 \$	860,152	
	Improvements			1	LIGHTING UPGRADE ON I-91	fetv Improven	nents subtotal ►	Ļ		, ,			◄ Funding Split Varies by Funding Source
					5a	nery improven		Ψ	10,002,140	ψ 0,0+1,00	υļφ	1,400,231	

Table 10: Federally Funded Projects Year 2019 (Continued)

ADA Retrofits													
	ADA Retrofits		Pioneer Valley		ADA Retrofits	1		\$	-		\$	-	
						ADA Ret	rofits subtotal ►	\$	-	\$-	\$	-	80% Federal + 20% Non-Federal
tersection Impro	vements												
	Intersection Improvements		Pioneer Valley		Intersection Improvements			\$		\$-	\$	-	
					Intersec	tion Improvem	ents subtotal ►	\$	-	\$-	\$	-	 Funding Split Varies by Funding Sour
elligent Transpo	ortation Systems												
	Intelligent Transportation Systems		Pioneer Valley		Intelligent Transportation Systems			\$	-	\$ -	\$	-	
					Intelligent Tran	sportation Sys	stem subtotal ►	\$	-	\$-	\$	-	80% Federal + 20% Non-Federal
adway Reconst	ruction												
wwwy records	Roadway Reconstruction	608790	Pioneer Valley	Holyoke	HOLYOKE- IMPROVEMENTS AT KELLY COMMUNITY SCHOOL (SRTS)	2	TAP	\$	1,264,935	\$ 1,011,948	\$	252,987	
	Roadway Reconstruction	606555	Pioneer Valley	Northampton	NORTHAMPTON- ROUNDABOUT CONSTRUCTION AT INTERSECTION ROUTES 5/10 (NORTH KING STREET) & HATFIELD STREET	2	CMAQ	\$	4,109,480	\$ 3,287,584	\$	821,896	
						1					1		
						ay Reconstru	ction subtotal ►	\$	5,374,415	\$ 4,299,532	\$ 1	1,074,883	 Funding Split Varies by Funding Sour
ction 2C / State	Prioritized Expans	ion Proiects				ay Reconstru	ction subtotal ►	\$	5,374,415	\$ 4,299,532	\$ 1	1,074,883	 Funding Split Varies by Funding Sour
	Prioritized Expans	ion Projects				i ay Reconstrue	ction subtotal ►	\$	5,374,415	\$ 4,299,532	\$ 1	1,074,883	 Funding Split Varies by Funding Sour
		ion Projects				ay Reconstruction	ction subtotal ►	\$	5,374,415	\$ 4,299,532	\$ 1	1,074,883	 Funding Split Varies by Funding Sour
			Pioneer Valley	Westfield		ay Reconstruc	ction subtotal ► CMAQ		5,374,415 6,532,895				✓ Funding Split Varies by Funding Sour Construction / PSAC score 39.5
	Bicycles and		Pioneer Valley	Westfield	Roadw WESTFIELD- COLUMBIA GREENWAY RAIL TRAIL CONSTRUCTION (CENTER DOWNTOWN SECTION), FROM EAST SILVER STREET TO COWLES COURT, INCLUDES W-25,014, W-25- 015, W-25-016, W-25-017, W-25-018 & W-25-019	2	СМАQ	\$	6,532,895	\$ 5,226,316	\$	1,306,579	
ycles and Pede	Bicycles and		Pioneer Valley	Westfield	Roadw WESTFIELD- COLUMBIA GREENWAY RAIL TRAIL CONSTRUCTION (CENTER DOWNTOWN SECTION), FROM EAST SILVER STREET TO COWLES COURT, INCLUDES W-25,014, W-25- 015, W-25-016, W-25-017, W-25-018 & W-25-019	2	СМАQ	\$	6,532,895	\$ 5,226,316	\$	1,306,579	Construction / PSAC score 39.5
ycles and Pede	Bicycles and	603783	Pioneer Valley Pioneer Valley	Westfield	Roadw WESTFIELD- COLUMBIA GREENWAY RAIL TRAIL CONSTRUCTION (CENTER DOWNTOWN SECTION), FROM EAST SILVER STREET TO COWLES COURT, INCLUDES W-25,014, W-25- 015, W-25-016, W-25-017, W-25-018 & W-25-019	2	CMAQ ians subtotal ►	\$	6,532,895	\$ 5,226,316 \$ 5,226,316	\$	1,306,579	Construction / PSAC score 39.5
ycles and Pede	Bicycles and Pedestrians	603783		Westfield	Roadw WESTFIELD- COLUMBIA GREENWAY RAIL TRAIL CONSTRUCTION (CENTER DOWNTOWN SECTION), FROM EAST SILVER STREET TO COWLES COURT, INCLUDES W-25,014, W-25- 015, W-25-016, W-25-017, W-25-018 & W-25-019 Bicycle	2 s and Pedest	CMAQ ians subtotal ►	\$ \$	6,532,895 6,532,895	\$ 5,226,316 \$ 5,226,316	\$	1,306,579 1,306,579 -	Construction / PSAC score 39.5
ycles and Pede	Bicycles and Pedestrians	603783	Pioneer Valley	Westfield	Roadw WESTFIELD- COLUMBIA GREENWAY RAIL TRAIL CONSTRUCTION (CENTER DOWNTOWN SECTION), FROM EAST SILVER STREET TO COWLES COURT, INCLUDES W-25,014, W-25- 015, W-25-016, W-25-017, W-25-018 & W-25-019 Bicycle	2 s and Pedest	CMAQ ians subtotal ►	\$ \$	6,532,895 6,532,895	\$ 5,226,316 \$ 5,226,316	\$	1,306,579 1,306,579 -	Construction / PSAC score 39.5
pacity ction 3 / Plannin	Bicycles and Pedestrians	603783 Pass-throughs	Pioneer Valley	Westfield	Roadw WESTFIELD- COLUMBIA GREENWAY RAIL TRAIL CONSTRUCTION (CENTER DOWNTOWN SECTION), FROM EAST SILVER STREET TO COWLES COURT, INCLUDES W-25,014, W-25- 015, W-25-016, W-25-017, W-25-018 & W-25-019 Bicycle	2 s and Pedest	CMAQ ians subtotal ►	\$ \$	6,532,895 6,532,895	\$ 5,226,316 \$ 5,226,316	\$	1,306,579 1,306,579 -	Construction / PSAC score 39.5

Table 10: Federally Funded Projects Year 2019 (Continued)

Non-Federally Aided Projects							
Non Federal Aid	Pioneer Valley	Non-Federal Aid		\$	- 0.00000000	\$	-
Non-Federally Aided Projects	Pioneer Valley	Non-Federal Aid		\$	-	\$	-
			Non-Federal Aid subtotal►	• \$	- 888888888	\$	- <a>100% Non-Federal
2019 Summary				TIP Section	on 1 - TIP Sectio	n 4: Total of A	All Control of the second s
				3: ▼		Projects '	▼
2013 Summary						· · · · , · · · ·	
2013 Summary			Total ►	\$ 64,690	,176 \$		0,176 🚽 Total Spending in Region
zoro Summary			Total ► Federal Funds ►	► \$ 64,690	******	- \$ 64,690	<i>i</i> ,

701 CMR 7.00 Use of Road Flaggers and Police Details on Public Works Projects / 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.

Table 11: Federally Funded Projects 2020

Amendment / Adjustment Type ▼	STIP Program ▼	MassDOT Project ID ▼	Metropolitan Planning Organization ▼	Municipality Name ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional information V Present information as follows, if applicable: a) Planning / Design / or Construction; b) total project cost and funding sources used: c) advance construction
► Section 1A / Regio	onally Prioritized	Projects									
Regionally Priorit	ized Projects		1		WESTFIELD- IMPROVEMENTS & RELATED	1	1	1	1	1	1
	Roadway Reconstruction	607773	Pioneer Valley	Westfield	WORK ON ROUTE 20, COURT STEET & WESTERN AVENUE, LLOYDS HILL ROAD TO HIGH STREET/MILL STREET INTERSECTION (PHASE II)	2	STP	\$ 5,500,000	\$ 4,400,000	\$ 1,100,000	Construction / (YOE \$7,599,876 STP) / 48.5 TEC 25% HSIP, TAP, STP, CMAQ
	Roadway Reconstruction	607773	Pioneer Valley	Westfield	WESTFIELD- IMPROVEMENTS & RELATED WORK ON ROUTE 20, COURT STEET & WESTERN AVENUE, LLOYDS HILL ROAD TO HIGH STREET/MILL STREET INTERSECTION (PHASE II)	2	CMAQ	\$ 599,876	\$ 479,901	\$ 119,975	Construction / (YOE \$7,599,876 STP) / 48.5 TEC 25% HSIP, TAP, STP, CMAQ
	Roadway Reconstruction	607773	Pioneer Valley	Westfield	WESTFIELD- IMPROVEMENTS & RELATED WORK ON ROUTE 20, COURT STEET & WESTERN AVENUE, LLOYDS HILL ROAD TO HIGH STREET/MILL STREET INTERSECTION (PHASE II)	2	HSIP	\$ 1,000,000	\$ 900,000	\$ 100,000	Construction / (YOE \$7,599,876 STP) / 48.5 TEC 25% HSIP, TAP, STP, CMAQ
	Roadway Reconstruction	607773	Pioneer Valley	Westfield	WESTFIELD- IMPROVEMENTS & RELATED WORK ON ROUTE 20, COURT STEET & WESTERN AVENUE, LLOYDS HILL ROAD TO HIGH STREET/MILL STREET INTERSECTION (PHASE II)	2	ТАР	\$ 500,000	\$ 400,000	\$ 100,000	Construction / (YOE \$7,599,876 STP) / 48.5 TEC 25% HSIP, TAP, STP, CMAQ
	Roadway Reconstruction	604434	Pioneer Valley	Chicopee	CHICOPEE- RECONSTRUCTION & RELATED WORK ON FULLER ROAD, FROM MEMORIAL DR (RTE 33) TO SHAWINIGAN DR (2.0 MILES)	2	STP	\$ 5,907,953	\$ 4,726,362	\$ 1,181,591	Construction / (YOE \$7,907,953 STP) / 48.5 TEC 25% STP, CMAQ
	Roadway Reconstruction	604434	Pioneer Valley	Chicopee	CHICOPEE- RECONSTRUCTION & RELATED WORK ON FULLER ROAD, FROM MEMORIAL DR (RTE 33) TO SHAWINIGAN DR (2.0 MILES)	2	CMAQ	\$ 2,000,000	\$ 1,600,000	\$ 400,000	Construction / (YOE \$7,907,953 STP) / 48.5 TEC 25% STP, CMAQ
	Roadway Reconstruction	608236	Pioneer Valley	Northampton	NORTHAMPTON- RECONSTRUCTION OF DAMON ROAD, FROM ROUTE 9 TO ROUTE 5, INCLUDES DRAINAGE SYSTEM REPAIRS & SLOPE STABILIZATION AT THE NORWOTTUCK RAIL TRAIL	2	STP	\$ 10,248,854	\$ 8,199,083	\$ 2,049,771	Construction / (YOE \$10,248,854 STP) / 66.5 TEC 75% STP
			Pioneer Valley					\$-	\$-	\$-	

Section 1A / Fiscal Constraint Analysis

Regionally Prioritized Projects subtotal **\$ 25,756,683 \$** 20,705,346 **\$** 5,051,337 **4** 80% Federal + 20% Non-Federal

Total Regional Federal Aid	Funds Programmed 🕨	\$ 25,756,683	\$ 25,782,146	◄	Total	\$
				Вι	udget	
ate header and MPO column;	STP programmed <	\$ 21,656,807	\$ 17,325,446	◄	STP	
n H) Choose the Funding Source er the total amount of funds	HSIP programmed ►	\$ 1,000,000	\$ 900,000	◀	HSIP	
tes. Please verify the amount	CMAQ programmed	\$ 2,599,876	\$ 2,079,901	◀	CMAQ	
match - if matching an FTA flex,	TAP programmed ►	\$ 500,000	\$ 400,000	◄	ТАР	

Section 1A instructions: MPO Template Name) Choose Regional Name from dropdow n list to populate header and MPO column;

Column C) Enter ID from ProjectInfo; Column E) Choose Municipality Name from dropdown list; Column H) Choose the Funding Source being used for the project - if multiple funding sources are being used enter multiple lines; Column I) Enter the total amount of funds being programmed in this fiscal year and for each funding source; Column J) Federal funds autocalculates. Please verify the amount and only change if needed for flex. Column K) Non-federal funds autocalculates. Please verify the split/match - if matching an FTA flex,

25,463 Target Funds Available

Table 11: Federally Funded Projects Year 2020 (Continued)

	Inspections											
	Bridge Program		Pioneer Vallev		Bridge Inspection			\$-	\$	-	\$ -	
	Dilage i logiani							•			•	
					Bridge Prog	ram / Inspec	tions subtotal ►	\$-	\$	-	\$ -	 Funding Split Varies by Funding Source
Bridge Program /	Off-System											
Bridge Fregram					WESTHAMPTON- BRIDGE REPLACEMENT, W-27-				-			
	Bridge Program	608631	Pioneer Valley		005, KINGS HIGHWAY OVER N BRANCH	2	STP-BR-OFF	\$ 3,072,00	0\$	2,457,600	\$ 614,400	
					MANHAN RIVER			¢ 0.070.000		0 457 000	¢ 014.400	
					Bridge Prog	ram / Oii-Sy	stem subtotal ►	\$ 3,072,000	Ъ	2,457,600	\$ 614,400	80% Federal + 20% Non-Federal
Bridge Program /	On-System (NHS)											
	\			1	WESTFIELD- BRIDGE REPLACEMENT, W-25-		[]		-			
	Bridge Program	400103	Pioneer Valley		006, ROUTE 10/202 (SOUTHWICK ROAD) OVER	2	NHPP-On	\$ 12,732,55	4\$	10,186,043	\$ 2,546,511	
					THE LITTLE RIVER				_			
					NORTHAMPTON- BRIDGE RECONSTRUCTION,							
	Bridge Program	606552	Pioneer Valley		N-19-059, I-91 OVER US 5/BMRR & N-19-060, I-	2	NHPP-On	\$ 11,378,35	3\$	9,102,682	\$ 2,275,671	AC Year 1 of 5, Total Cost \$56,891,767
					91 OVER HOCKANUM ROAD							
					Bridge Program / 0	On-System (I	NHS) subtotal 🕨	\$ 24,110,90	7\$	19,288,726	\$ 4,822,181	 Funding Split Varies by Funding Source
Bridge Program /	On-System (Non-NHS)		<u> </u>				1 1	•			^	
	Bridge Program		Pioneer Valley		Bridge Program / On-System (Non-NHS) Bridge Program / On-S	(stom (Non)			- \$ \$			■ 80% Federal + 20% Non-Federal
					Bhuge Flogram / On-5			φ -	φ	- 1	φ -	
Bridge Program /	Systematic Maintenance											
<u> </u>	Bridge Program	1	Pioneer Valley		Bridge Program / Systematic Maintenance		1	\$	- \$	-	\$ -	
	Dilugeriogram							+				
					Bridge Program / System	atic Mainten	ance subtotal 🕨	\$-	\$	-	\$-	 Funding Split Varies by Funding Source
Interstate Payer	ont											
►Interstate Pavem					_			-			-	
►Interstate Pavemo	ent Interstate Pavement		Pioneer Valley		Interstate Pavement			\$-	\$	-	\$-	
►Interstate Pavemo	Interstate		Pioneer Valley			erstate Pave	ment subtotal ►	*	\$ \$			◄ 90% Federal + 10% Non-Federal
	Interstate Pavement		Pioneer Valley			erstate Pave		*				✓ 90% Federal + 10% Non-Federal
	Interstate Pavement vement		Pioneer Valley	3	Inst	erstate Pave		*				■ 90% Federal + 10% Non-Federal
	Interstate Pavement vement Non-Interstate		Pioneer Valley Pioneer Valley	South Hadley	I Inst	erstate Pave	ment subtotal ►	*	\$	-		■ 90% Federal + 10% Non-Federal
	Interstate Pavement vement Non-Interstate Pavement	608473	Pioneer Valley		SOUTH HADLEY- RESURFACING AND RELATED	2	ment subtotal ►	\$ - \$ 2,208,960	\$) \$	-	\$ - \$ 441,792	■ 90% Federal + 10% Non-Federal
	Interstate Pavement vement Non-Interstate	608473		South Hadley Multiple	I Inst		ment subtotal ►	\$ -	\$) \$	-	\$ - \$ 441,792	■ 90% Federal + 10% Non-Federal
	Interstate Pavement vement Non-Interstate Pavement Non-Interstate	608473	Pioneer Valley		Inst SOUTH HADLEY- RESURFACING AND RELATED WORK ON ROUTE 116 HOLYOKE- WEST SPRINGFIELD- REHABILITATION OF ROUTE 5	2 2	NHPP	\$ - \$ 2,208,966 \$ 13,953,26	\$) \$ 4 \$	- 1,767,168 11,162,611	\$ - \$ 441,792 \$ 2,790,653	 90% Federal + 10% Non-Federal 80% Federal + 20% Non-Federal
► Non-Interstate Pa	Interstate Pavement Non-Interstate Pavement Non-Interstate Pavement	608473	Pioneer Valley		Inst SOUTH HADLEY- RESURFACING AND RELATED WORK ON ROUTE 116 HOLYOKE- WEST SPRINGFIELD- REHABILITATION OF ROUTE 5	2 2	NHPP	\$ - \$ 2,208,966 \$ 13,953,26	\$) \$ 4 \$	- 1,767,168 11,162,611	\$ - \$ 441,792 \$ 2,790,653	
► Non-Interstate Pa	Interstate Pavement Vement Non-Interstate Pavement Non-Interstate Pavement Vements	608473	Pioneer Valley		Inst SOUTH HADLEY- RESURFACING AND RELATED WORK ON ROUTE 116 HOLYOKE- WEST SPRINGFIELD- REHABILITATION OF ROUTE 5	2 2	NHPP	\$ - \$ 2,208,966 \$ 13,953,26	\$) \$ 4 \$	- 1,767,168 11,162,611	\$ - \$ 441,792 \$ 2,790,653	
 ► Interstate Pavement ► Non-Interstate Pa ► Roadway Improv 	Interstate Pavement Non-Interstate Pavement Non-Interstate Pavement	608473 604209	Pioneer Valley		Inst SOUTH HADLEY- RESURFACING AND RELATED WORK ON ROUTE 116 HOLYOKE- WEST SPRINGFIELD- REHABILITATION OF ROUTE 5	2 2	NHPP NHPP ment subtotal ►	\$ - \$ 2,208,966 \$ 13,953,26	\$) \$ 4 \$ 4 \$	- 1,767,168 11,162,611 12,929,779	\$ - \$ 441,792 \$ 2,790,653	

Table 11: Federally Funded Projects Year 2020 (Continued)

Safety Improver	nents											
	Safety Improvements	608575	Pioneer Valley	Multiple	CHICOPEE TO HOLYOKE- GUIDE AND TRAFFIC SIGN REPLACEMENT ON I-391	2	HSIP	\$ 542,872	\$ 488,58	5 \$	54,287	
					Sa	fety Improven	ents subtotal ►	\$ 542,872	\$ 488,585	5 \$	54,287	 Funding Split Varies by Funding Source
Section 2B / Stat	te Prioritized Modern	nization Proje	ects									
ADA Retrofits												
	ADA Retrofits		Pioneer Valley		ADA Retrofits		rofits subtotal ►	r		\$	-	■ 80% Federal + 20% Non-Federal
						ADA Ret	rolits subtotal F	Þ -	ъ -	\$	-	80% Federal + 20% Non-Federal
►Intersection Imp	rovements											
	Intersection Improvements		Pioneer Valley		Intersection Improvements		:	ş -	\$-	\$	-	
					Intersec	tion Improven	ents subtotal ►	\$-	\$-	\$	-	 Funding Split Varies by Funding Source
► Intelligent Trans	portation Systems											
· mongon nuno	Intelligent											
	Transportation Systems		Pioneer Valley		Intelligent Transportation Systems		:	5 -	\$-	\$	-	
	10,000.000		4		Intelligent Trans	sportation Sy	stem subtotal ►	\$-	\$-	\$	-	■ 80% Federal + 20% Non-Federal
► Roadway Recons	struction											
P Roadway Recon	Roadway		1			T	r T					***
	Reconstruction		Pioneer Valley		Roadway Reconstruction			Б -	\$-	Ť	-	
					Roadw	ay Reconstru	ction subtotal ►	\$-	\$ -	\$	-	 Funding Split Varies by Funding Source
► Section 2C / Stat	te Prioritized Expans	sion Projects										
► Bicycles and Peo	destrians											
			1		CHICOPEE- CONNECTICUT RIVERWALK &	T						
	Bicycles and				BIKEWAY CONSTRUCTION, FROM BOAT RAMP							
	Pedestrians	602911	Pioneer Valley	Chicopee	NEAR I-90 TO NASH FIELD (2.5 MILES),	2	CMAQ	\$ 3,247,643	\$ 2,598,114	1\$	649,529	
					INCLUDES NEW BRIDGE C-13-060 OVER OVERFLOW CHANNEL							
***************************************		******				s and Pedest	rians subtotal ►	\$ 3,247,643	\$ 2,598,114	\$	649,529	■ 80% Federal + 20% Non-Federal
► Capacity												
r cupuony	Capacity		Pioneer Valley		Capacity	1	:	5 -	\$ -	\$	-	
	Capacity		Pioneer Valley		Capacity		:	\$ -		\$	-	
						Сар	acity subtotal 🕨	\$-	\$-	\$	-	Funding Split Varies by Funding Source
► Section 3 / Plann	ning / Adjustments / F	Pass-through	s									
►Planning / Adjus	tments / Pass-throug	ns	Pioneer Valley		ABP GANS Repayment	Multiple	I	ş -	۳ _¢	\$	-	1
		******	IFIONEEL VAILEY				tems subtotal ►				-	 Funding Split Varies by Funding Source

Table 11: Federally Funded Projects Year 2020 (Continued)

on-Federally Aided Projects							
Non Federal Aid	Pioneer Valley	Non-Federal Aid		\$	-	\$	-
Non-Federally Aided Projects	Pioneer Valley	Non-Federal Aid		\$	-	\$	-
			Non-Federal Aid subtotal►	\$	- 1999,000,000	\$	- <a>100% Non-Federal
120 Summany				TIP Secti	on 1 - TIP Sectio	n 4: Total of A	AII
020 Summary				TIP Secti 3: ▼	on 1 - TIP Sectio ▼	n 4: Total of A Projects Y	
020 Summary			Total ►			Projects 7	2,329 ◀ Total Spending in Region
2020 Summary			Total ► Federal Funds ►	3: ▼ \$ 72,892	▼ 2,329 \$	Projects 7	

701 CMR 7.00 Use of Road Flaggers and Police Details on Public Works Projects / 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.

Table 12: Federally Funded Projects 2021

Amendment / Adjustment Type ▼	STIP Program ▼	MassDOT Project ID ▼	Metropolitan Planning Organization ▼	Municipality Name ▼	MassDOT Project Description▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional information <u>Present information as follows, if applicable:</u> a Planning / Design / or Construction; b) total project cos and funding sources used: c) advance construction
► Section 1A / Regio	onally Prioritized	Projects									
Regionally Priorit	zed Projects										
	Intersection Improvements	608718	Pioneer Valley	Springfield	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT BERKSHIRE AVENUE, COTTAGE AND HARVEY STREETS	2	STP	\$ 1,229,021	\$ 983,217	\$ 245,804	Construction / (YOE \$2,229,021 STP) / 41.5 TEO Score / Pre 25% HSIP, STP
	Intersection Improvements	608718	Pioneer Valley	Springfield	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT BERKSHIRE AVENUE, COTTAGE AND HARVEY STREETS	2	HSIP	\$ 1,000,000	\$ 900,000	\$ 100,000	Construction / (YOE \$2,229,021 STP) / 41.5 TE Score / Pre 25% HSIP, STP
	Intersection Improvements	608782	Pioneer Valley	Springfield	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT COTTAGE STREET, INDUSTRY AVENUE AND ROBBINS ROAD	2	CMAQ	\$ 1,944,000	\$ 1,555,200	\$ 388,800	Construction / (YOE \$1,944,000) STP) / 46.5 T Score / Pre 25% CMAQ
	Roadway Improvements	608084	Pioneer Valley	Amherst	AMHERST- IMPROVEMENTS & RELATED WORK ON ROUTES 9 & 116, FROM UNIVERSITY DRIVE TO SOUTH PLEASANT STREET (0.8 MILES)	2	STP	\$ 3,121,863	\$ 2,497,490	\$ 624,373	Construction / (YOE \$3,621,863 STP) / 53.5 TE 25% STP, TAP
	Roadway Improvements	608084	Pioneer Valley	Amherst	AMHERST- IMPROVEMENTS & RELATED WORK ON ROUTES 9 & 116, FROM UNIVERSITY DRIVE TO SOUTH PLEASANT STREET (0.8 MILES)	2	ТАР	\$ 500,000	\$ 400,000	\$ 100,000	Construction / (YOE \$3,621,863 STP) / 53.5 TE 25% STP, TAP
	Intersection Improvements	607502	Pioneer Valley	Northampton	NORTHAMPTON- INTERSECTION IMPROVEMENTS AT KING STREET, NORTH STREET & SUMMER STREET AND AT KING STREET & FINN STREET	2	STP	\$ 2,655,054	\$ 2,124,043	\$ 531,011	Construction / (YOE \$3,655,054 STP, CMAQ) / TEC / 25% STP, CMAq
	Intersection Improvements	607502	Pioneer Valley	Northampton	NORTHAMPTON- INTERSECTION IMPROVEMENTS AT KING STREET, NORTH STREET & SUMMER STREET AND AT KING STREET & FINN STREET	2	CMAQ	\$ 1,000,000	\$ 800,000	\$ 200,000	Construction / (YOE \$3,655,054 STP, CMAQ) / TEC / 25% STP, CMAq
	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	STP	\$ 2,201,643	\$ 1,761,314	\$ 440,329	Construction / (YOE \$2,201,643 STP) / 62 TEC Pre 25% STP
	Roadway Reconstruction	605032	Pioneer Valley	Hadley	HADLEY- RECONSTRUCTION ON ROUTE 9, FROM MIDDLE STREET TO MAPLE/SOUTH MAPLE STREET	2	STP	\$ 12,652,410	\$ 10,121,928	\$ 2,530,482	Construction / (YOE \$25,805,364) A/C Year 1 c FFY 2021 \$12,652,410, FFY 2022 \$13,152,954 STP / 50 TEC / 25%

Section 1A / Fiscal Constraint Analysis

Total Regional Federal Aid Funds Programmed ► \$ 26,303,991 \$ 26,303,990 <Total

\$ 26,303,991	\$	26,303,990	■Total	\$
			Budget	
\$ 21,859,991	\$	17,487,993		
\$ 1,000,000	\$	900,000	◄ HSIP	
\$ 2,944,000	\$	2,355,200	CMAQ	
\$ 500,000	\$	400,000	◀ TAP	
\$ \$ \$ \$ \$	\$ 21,859,991 \$ 1,000,000 \$ 2,944,000	\$ 21,859,991 \$ \$ 1,000,000 \$ \$ 2,944,000 \$	\$ 21,859,991 \$ 17,487,993 \$ 1,000,000 \$ 900,000 \$ 2,944,000 \$ 2,355,200	\$ 21,859,991 \$ 17,487,993 ≤ STP \$ 1,000,000 \$ 900,000 < HSIP

Section 1A instructions: MPO Template Name) Choose Regional Name from dropdow n list to populate header and MPO column; Column C) Enter ID from ProjectInfo; Column E) Choose Municipality Name from dropdown list; Column H) Choose the Funding Source being used for the project - if multiple funding sources are being used enter multiple lines; Column I) Enter the total amount of funds being programmed in this fiscal year and for each funding source; Column J) Federal funds autocalculates. Please verify the amount and only change if needed for flex. Column K) Non-federal funds autocalculates. Please verify the split/match - if matching an FTA flex,

(1) Funds Over Programmed

Table 12: Federally Funded Projects Year 2021 (Continued)

Other Federal Aid												
	I T		1			1	1	T	•			1
			Pioneer Valley		Other Federal Aid		HPP	\$	-	\$-	\$ -	
			Pioneer Valley		Other Federal Aid		HPP	\$	-	\$-	\$-	
						Other Federa	al Aid subtotal 🕨	\$	-	\$-	\$-	 Funding Split Varies by Funding Source
Section 2A / State	Prioritized Reliabi	lity Projects										
Dridas Dreament												
Bridge Program /	Bridge Program		Pioneer Valley		Bridge Inspection		1	\$	-	\$-	\$ -	1
						ogram / Inspec	ctions subtotal ►		-			 Funding Split Varies by Funding Source
►Bridge Program /	Off-System											
	Bridge Program		Pioneer Valley		Bridge Program / Off-System			\$	-			
					Bridge Pro	ogram / Off-Sy	vstem subtotal ►	\$	-	\$-	\$ -	80% Federal + 20% Non-Federal
►Bridge Program /	On-System (NHS)											
	Bridge Program	608460	Pioneer Valley		HADLEY- BRIDGE REPLACEMENT, H-01-005, BAY ROAD (ROUTE 47) OVER THE FORT RIVER	2	NHPP-On	\$	5,647,995	\$ 4,518,396	\$ 1,129,599	
	Bridge Program	606552	Pioneer Valley		NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD	2	NHPP-On	\$	11,378,353	\$ 9,102,682	\$ 2,275,671	AC Year 2 of 5, Total Cost \$56,891,767
	<u>I</u>		ł		Bridge Program /	' On-System (NHS) subtotal ►	\$	17,026,348	\$ 13,621,078	\$ 3,405,270	 Funding Split Varies by Funding Sourc
Bridge Program /	On-System (Non-NH	IS)										
►Bridge Program /	On-System (Non-NH Bridge Program		Pioneer Valley		Bridge Program / On-System (Non-NHS)	1	1	\$	-	\$ -	\$-	
►Bridge Program /			Pioneer Valley		Bridge Program / On-System (Non-NHS) Bridge Program / On-	System (Non-	I NHS) subtotal ►			\$- \$-		■ 80% Federal + 20% Non-Federal
			Pioneer Valley			System (Non-	I NHS) subtotal ►					◄ 80% Federal + 20% Non-Federal
	Bridge Program	nance	Pioneer Valley Pioneer Valley			System (Non-	NHS) subtotal ►			\$ - \$ -	\$ - \$ -	◄ 80% Federal + 20% Non-Federal
	Bridge Program	nance	·		Bridge Program / On-			\$ \$	-	\$ - \$ -	\$ - \$ -	
► Bridge Program /	Bridge Program Systematic Mainter Bridge Program	nance	·		Bridge Program / On-			\$ \$	-	\$ - \$ -	\$ - \$ -	
	Bridge Program Systematic Mainter Bridge Program	nance	·		Bridge Program / On-			\$ \$	-	\$ - \$ -	\$ - \$ -	 80% Federal + 20% Non-Federal Funding Split Varies by Funding Source
► Bridge Program /	Bridge Program Systematic Mainter Bridge Program ent Interstate	nance	Pioneer Valley		Bridge Program / On- Bridge Program / Systematic Maintenance Bridge Program / Syste	matic Mainter		\$ \$ \$	-	\$ - <u>\$ -</u> \$ -	\$ - \$ - \$ -	
► Bridge Program /	Bridge Program Systematic Mainter Bridge Program Interstate Pavement	nance	Pioneer Valley		Bridge Program / On- Bridge Program / Systematic Maintenance Bridge Program / Syste	matic Mainter	ance subtotal ►	\$ \$ \$		\$ - <u>\$ -</u> \$ -	\$ - \$ - \$ -	 Funding Split Varies by Funding Sourc
► Bridge Program /	Bridge Program Systematic Mainter Bridge Program Interstate Pavement	nance	Pioneer Valley	Westfield	Bridge Program / On- Bridge Program / Systematic Maintenance Bridge Program / Syste	matic Mainter	ance subtotal ►	\$ \$ \$ \$	-	\$ - <u>\$ -</u> \$ -	\$ - \$ - \$ -	 Funding Split Varies by Funding Sourc

Table 12: Federally Funded Projects Year 2021 (Continued)

Roadway Improve	ements												
	Roadway Improvements	Pi	ioneer Valley		RoadwayImprovements			\$	-	\$	-	\$ -	
				***************************************	Roadv	vay Improvem	ents subtotal ►	\$	-	\$	-	\$ -	◀ 80% Federal + 20% Non-Federal
Safety Improvem	ents												
	Safety Improvements	Pi	ioneer Valley		Safety Improvements			\$	-	\$	-	\$ -	
					Saf	fety Improvem	ents subtotal 🕨	\$	-	\$	-	\$ -	 Funding Split Varies by Funding Source
		_											
Section 2B / State	Prioritized Modernizatio	on Project	ts										
ADA Retrofits													
P ADA Retroits	ADA Retrofits	Pi	ioneer Vallev	1	ADA Retrofits			\$	-	\$	-	\$ -	
						ADA Ret	rofits subtotal ►		-		-	-	◀ 80% Federal + 20% Non-Federal
► Intersection Impro	vements												
<u> </u>					HOLYOKE- TRAFFIC SIGNAL UPGRADES AT 15	I		1					
	Intersection Improvements	606450 Pi	ioneer Valley	Holyoke	INTERSECTIONS ALONG HIGH & MAPLE STREETS	2	CMAQ	\$	4,450,000	\$ 3	3,560,000	\$ 890,000	
					Intersect	tion Improvem	ents subtotal 🕨	\$	4,450,000	\$3	,560,000	\$ 890,000	 Funding Split Varies by Funding Source
<u> </u>													
► Intelligent Transpo	Intelligent			1	1	1		1		r			
	Transportation Systems	Pi	ioneer Valley		Intelligent Transportation Systems			\$	-	\$	-	\$ -	
	4 4			}	Intelligent Trans	sportation Sys	stem subtotal 🕨	\$	-	\$	-	\$ -	◀ 80% Federal + 20% Non-Federal
► Roadway Reconst	ruction												
P Roadway Reconst	Roadway			1		1		Τ.					
	Reconstruction	Pi	ioneer Valley		RoadwayReconstruction			\$	-	\$	-	\$ -	
					Roadwa	ay Reconstru	ction subtotal ►	\$	-	\$	-	\$ -	 Funding Split Varies by Funding Source
Section 2C / State	Prioritized Expansion P	roiects											
► Bicycles and Pede	estrians												
	Bicycles and				SPRINGFIELD- MCKNIGHT COMMUNITY TRAIL								
	Pedestrians	608157 Pi	ioneer Valley	Springfield	CONSTRUCTION, FROM ARMORY STREET TO HAYDEN AVENUE (1.5 MILES)	2	CMAQ	\$	3,694,624		2,955,699	738,925	
					Bicycles	s and Pedest	rians subtotal ►	\$	3,694,624	\$ 2	,955,699	\$ 738,925	80% Federal + 20% Non-Federal
► Capacity													
	Capacity	Pi	ioneer Valley		Capacity			\$	-		-	\$ -	
						Cap	acity subtotal 🕨	\$	-	\$	-	\$ -	 Funding Split Varies by Funding Source

Table 12: Federally Funded Projects Year 2021 (Continued)

Planning / Adjustments / Pass-throughs							
	Pioneer Valley	ABP GANS Repayment	Multiple	\$	- \$	- \$	-
			Other Statewide Items subtotal ►	\$	- \$	- \$	- Funding Split Varies by Funding Source
ection 4 / Non-Federally Aided Projects							
on-Federally Aided Projects Non Federal Aid	Pioneer Valley	Non-Federal Aid		\$	-	\$	-
	Pioneer Valley	Non-Federal Aid	Non-Federal Aid subtotal►	\$ \$	-	\$ \$	- -
Non Federal Aid	Pioneer Valley	Non-Federal Aid	Non-Federal Aid subtotal►	1.	-	tion 4: Total of A	- <a>100% Non-Federal
Non Federal Aid	Pioneer Valley	Non-Federal Aid	Non-Federal Aid subtotal►	1.	-	motroofmotecodesedese	- <a>100% Non-Federal
Non Federal Aid	Pioneer Valley	Non-Federal Aid		TIP Section	- IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	tion 4: Total of A Projects V	- <a>100% Non-Federal
Non-Federally Aided Projects Non Federal Aid	Pioneer Valley	Non-Federal Aid		TIP Section 3: ▼ \$ 62,753	- III Sec • TIP Sec • 8,403 \$	tion 4: Total of A Projects - \$ 62,753	- <a>100% Non-Federal

701 CMR 7.00 Use of Road Flaggers and Police Details on Public Works Projects / 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.

Table 13: Federally Funded Projects Year 2022

Interse	rojects	Projects									and funding sources used: c) advance construction
Roadv Recon	-										
Roadv Recon	-										
	onstruction	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	STP	\$ 7,390,199	\$ 5,912,159	\$ 1,478,040	Construction / (YOE \$19,797,253) AC Year 1 of 2 FFY 2022 \$7,390,199 FFY2023 \$12,407,054 / 66.5 TEC / 25% / STP
	rsection rovements	606895	Pioneer Valley	Granby	GRANBY- IMPROVEMENTS @ 2 LOCATIONS ON ROUTE 202: SCHOOL STREET & FIVE CORNERS	2	STP	\$ 1,866,866	\$ 1,493,493	\$ 373,373	Construction / (YOE \$2,866,866) STP) / 42 TEC / 25% STP, HSIP
	rsection rovements	606895	Pioneer Valley	Granby	GRANBY- IMPROVEMENTS @ 2 LOCATIONS ON ROUTE 202: SCHOOL STREET & FIVE CORNERS	2	HSIP	\$ 1,000,000	\$ 900,000	\$ 100,000	Construction / (YOE \$2,866,866) STP) / 42 TEC / 25% STP, HSIP
	rsection rovements	606156	Pioneer Valley	Holyoke	HOLYOKE- RECONSTRUCTION OF I-91	2	STP	\$ 3,429,583	\$ 2,743,666	\$ 685,917	Construction / (YOE \$3,429,583 STP) / 47 TEC / Pre 25%
Roadv Recon	dway onstruction	605032	Pioneer Valley	Hadley	HADLEY- RECONSTRUCTION ON ROUTE 9, FROM MIDDLE STREET TO MAPLE/SOUTH MAPLE STREET	2	STP	\$ 10,652,954	\$ 8,522,363	\$ 2,130,591	Construction / (YOE \$25,805,364) A/C Year 2 of 2 FFY2021 \$12,652,410, FFY 2022 \$13,152,954 / 5 TEC / 25% STP, CMAQ, TAP
Roadv Recon	dway onstruction	605032	Pioneer Valley	Hadley	HADLEY- RECONSTRUCTION ON ROUTE 9, FROM MIDDLE STREET TO MAPLE/SOUTH MAPLE STREET	2	ТАР	\$ 500,000	\$ 400,000	\$ 100,000	Construction / (YOE \$25,805,364) A/C Year 2 of 2 FFY2021 \$12,652,410, FFY 2022 \$13,152,954 / 5 TEC / 25% STP, CMAQ, TAP
Roadv Recon	dway onstruction	605032	Pioneer Valley	Hadley	HADLEY- RECONSTRUCTION ON ROUTE 9, FROM MIDDLE STREET TO MAPLE/SOUTH MAPLE STREET	2	CMAQ	\$ 2,000,000	\$ 1,600,000	\$ 400,000	Construction / (YOE \$25,805,364) A/C Year 2 of 2 FFY2021 \$12,652,410, FFY 2022 \$13,152,954 / TEC / 25% STP, CMAQ, TAP
			Pioneer Vallev	5	5	8		\$-			

Regionally Prioritized Projects subtotal ► \$ 26,839,602 \$ 21,571,682 \$ 5,267,920 < 80% Federal + 20% Non-Federal

► Section 1A / Fiscal C	Constraint Analysis											
	Column C) Enter ID from ProjectInfo being used for the project - if multiple being programmed in this fiscal year	b; Column E) Choose Mu e funding sources are bei and for each funding sou	nicipality Name from ng used enter multip urce; Column J) Fe	Total Regional Federal a dropdow n list to populate header and MPO column; a dropdow n list; Column H) Choose the Funding Source ble lines; Column I) Enter the total amount of funds ideral funds autocalculates. Pease verify the amount 5. Pease verify the solit/match - if matching an FTA flex.	STP HSIP CMAQ	programmed ► programmed ► programmed ► programmed ►	\$ 23,33 \$ 1,00 \$ 2,00		18,671,682 900,000 1,600,000	Budget STP HSIP CMAQ	\$	1 Target Funds Available
 Section 1B / Earmar Other Federal Aid 	k or Discretionary Grant Fund	ded Projects										
		Pioneer Valley		Other Federal Aid		HPP	\$	- \$	-	\$	-	
					Other Federa	l Aid subtotal 🕨	\$	- \$	-	\$	- < Fun	ding Split Varies by Funding Source

Table 13: Federally Funded Projects Year 2022 (Continued)

Section 2A / State Prioritized Reliability Projects ► Bridge Program / Inspections Bridge Program Pioneer Vallev Bridge Inspection \$ - \$ -\$ Bridge Program / Inspections subtotal ► \$ - \$ - \$ - Funding Split Varies by Funding Source ► Bridge Program / Off-System MONSON- BRIDGE REPLACEMENT, M-27-015, 608846 Pioneer Valley 2 STP-BR-OFF \$ 1,742,784 \$ 1,394,227 \$ 348,557 Bridge Program OLD WALES ROAD OVER CONANT BROOK NORTHAMPTON- BRIDGE REPLACEMENT, N-19-Bridge Program 608869 Pioneer Valley 068, OLD SPRINGFIELD ROAD OVER THE MILL 2 STP-BR-OFF 3.981.000 \$ 3.184.800 \$ 796,200 \$ RIVER WALES- BRIDGE REPLACEMENT, W-02-002, 608847 Pioneer Valley 2 432,077 \$ 108,019 Bridge Program STP-BR-OFF \$ 540,096 \$ HOLLAND ROAD OVER WALES BROOK Bridge Program / Off-System subtotal ► \$ 108,019 < 80% Federal + 20% Non-Federal 540,096 \$ 432,077 \$ ► Bridge Program / On-System (NHS) NORTHAMPTON- BRIDGE RECONSTRUCTION, \$ 11,378,353 \$ 9,102,682 \$ 2,275,671 AC Year 3 of 5, Total Cost \$56,891,767 Bridge Program 606552 Pioneer Valley N-19-059, I-91 OVER US 5/BMRR & N-19-060, I-1 NHPP-On 91 OVER HOCKANUM ROAD Bridge Program / On-System (NHS) subtotal **\$ 11,378,353 \$** 9,102,682 **\$** 2,275,671 **4** Funding Split Varies by Funding Source Bridge Program / On-System (Non-NHS) Bridge Program Bridge Program / On-System (Non-NHS) - \$ - \$ Pioneer Vallev \$. Bridge Program / On-System (Non-NHS) subtotal > \$ - \$ - \$ - 80% Federal + 20% Non-Federal ▶ Bridge Program / Systematic Maintenance Bridge Program **Pioneer Valley** - \$ Bridge Program / Systematic Maintenance \$ - \$ Bridge Program / Systematic Maintenance subtotal **>** \$ \$ - \$ - Funding Split Varies by Funding Source -►Interstate Pavement Interstate \$ \$ \$ Pioneer Vallev Interstate Pavement --Pavement Insterstate Pavement subtotal ► \$ - \$ - \$ - < 90% Federal + 10% Non-Federal ► Non-Interstate Pavement BELCHERTOWN- GRANBY- RESURFACING AND Non-Interstate Multiple 608466 Pioneer Valley 2 NHPP \$ 4,163,040 \$ 3,330,432 \$ 832,608 **RELATED WORK ON ROUTE 202** Pavement Non-Interstate Pavement subtotal ► \$ 4,163,040 \$ 3,330,432 \$ 832,608 < 80% Federal + 20% Non-Federal Roadway Improvements Roadway Pioneer Valley Roadway Improvements \$ \$ - \$ -Improvements Roadway Improvements subtotal ► \$ - \$ - \$ 4 80% Federal + 20% Non-Federal Safety Improvements Safety \$ \$ \$ Pioneer Valley Safety Improvements --Improvements Safety Improvements subtotal ► \$ - \$ - \$ - Funding Split Varies by Funding Source

Table 13: Federally Funded Projects Year 2022 (Continued)

Section 2B / State P	rioritized Moderniz	ation Proje	ects										
ADA Retrofits													
	ADA Retrofits		Pioneer Valley	1	ADA Retrofits		1	\$	-	\$	- [9		
						ADA Ret	rofits subtotal Þ	• \$	-	\$	- :	\$ -	◀ 80% Federal + 20% Non-Federal
► Intersection Improv	ements												
	Intersection Improvements	608560	Pioneer Valley	Springfield	SPRINGFIELD- IMPROVEMENTS ON ST JAMES AVENUE AT TAPLEY STREET	2	HSIP	\$	2,688,000	\$2	2,419,200	\$ 268,800	
	Intersection Improvements	608565	Pioneer Valley	Springfield	SPRINGFIELD- IMPROVEMENTS ON ST .JAMES AVENUE AT ST JAMES BOULEVARD AND CAREW STREET AT TAPLEY STREET	2	HSIP	\$	2,784,000	\$2	2,505,600	\$ 278,400	
			¢			tion Improven	nents subtotal Þ	\$	5,472,000	\$4	,924,800	\$ 547,200	 Funding Split Varies by Funding Source
► Intelligent Transpor	tation Systems												
	Intelligent Transportation Systems		Pioneer Valley		Intelligent Transportation Systems			\$	-	\$	- 5	ç -	
					Intelligent Trans	sportation Sy	stem subtotal ►	\$	-	\$	- :	\$ -	✓ 80% Federal + 20% Non-Federal
► Roadway Reconstru	ction						0						
	Roadway Reconstruction		Pioneer Valley		Roadway Reconstruction			\$	-	\$	- 5	6 -	
·····			1		Roadw	ay Reconstru	tion subtotal ►	\$	-	\$	- :	\$ -	 Funding Split Varies by Funding Source
► Section 2C / State P	rioritized Expansio	n Proiects											
		.,											
Bicycles and Pedes	trians		1	1	CHICOPEE- CHICOPEE RIVER RIVERWALK	1	1	-					
	Bicycles and Pedestrians	602912	Pioneer Valley	Chicopee	MULTI-USE PATH CONSTRUCTION, FROM GRAPE STREET TO FRONT STREET (NEAR ELLERTON STREET) (1 MILE)	2	CMAQ	\$	2,273,911	\$ 1	1,819,129	\$ 454,782	
					Bicycle	s and Pedest	rians subtotal ►	• \$	2,273,911	\$1	,819,129	\$ 454,782	■ 80% Federal + 20% Non-Federal
► Capacity													
·····	Capacity		Pioneer Valley		Capacity			\$	-		- 19		
						Cap	acity subtotal ►	\$	-	\$	- :	Þ -	Funding Split Varies by Funding Source
Section 3 / Planning	g / Adjustments / Pa	ss-through	S										
► Planning / Adjustme	ents / Pass-throughs												
			Pioneer Valley	1	ABP GANS Repayment	Multiple		\$	-		- [5		
					Othe	er Statewide I	tems subtotal ►	\$	-	\$	- :	\$ -	 Funding Split Varies by Funding Source
Section 4 / Non-Fed	erally Aided Project	ts											
► Non-Federally Aide	d Projects												
	Non Federal Aid		Pioneer Valley		Non-Federal Aid			\$	-				
						Non-Feder	al Aid subtotal►	\$	-			Þ -	■100% Non-Federal
2022 Summ	arv								Section 1 -				
								3: `		▼	×	rojects ▼	· · · · · · · · · · · · · · · · · · ·
							Total ► Federal Funds ►		50,667,002	\$			 Total Spending in Region Total Federal Spending in Region
							Federal Funds			\$			 Total Federal Spending in Region Total Non-Federal Spending in Region

701 CWR 7.00 Use of Road Flaggers and Police Details on Public Works Projects / 701 CMR 7.00 (the Regulation) was promulgated and became law on October 3, 2008. Under this Regulation, the CWR is applicable to any Public works Project that is performed within the limits of, or that impact traffic on, any Public Road.

Table 14: Federally Funded Projects Year 2023

vmendment / vdjustment Type ▼	STIP Program ▼	MassDOT Project ID ▼	Metropolitan Planning Organization ▼	Name ▼	MassDOT Project Description▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional information V <u>Present information as follows, if applicable:</u> a Planning / Design / or Construction; b) total project cos and funding sources used: c) advance construction
►Section 1A / Regi	opolly Drioritized	Droionto		`	· ·	•				, 	
Section TA / Regi	onally Phonuzed	Projects									
Regionally Priorit	ized Projects										
	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	STP	\$ 8,907,054	\$ 7,125,643	\$ 1,781,411	Construction / (YOE \$19,797,253) AC Year 2 of FFY 2022 \$7,390,199 FFY2023 \$12,407,054 / 66.5 TEC / 25% / STP
	Roadway Reconstruction	608374	Pioneer Valley		WEST SPRINGFIELD- RECONSTRUCTION OF MEMORIAL AVENUE (ROUTE 147), FROM COLONY ROAD TO THE MEMORIAL AVENUE ROTARY (1.4 MILES)	2	CMAQ	\$ 2,000,000	\$ 1,600,000	\$ 400,000	Construction / (YOE \$19,797,253) AC Year 2 of FFY 2022 \$7,390,199 FFY2023 \$12,407,054 / 66.5 TEC / 25% / STP
	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	ТАР	\$ 500,000	\$ 400,000	\$ 100,000	Construction / (YOE \$19,797,253) AC Year 2 of FFY 2022 \$7,390,199 FFY2023 \$12,407,054 / 66.5 TEC / 25% / STP
	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	HSIP	\$ 1,000,000	\$ 900,000	\$ 100,000	Construction / (YOE \$19,797,253) AC Year 2 c FFY 2022 \$7,390,199 FFY2023 \$12,407,054 / 66.5 TEC / 25% / STP
	Roadway Reconstruction	PV0002	2 Pioneer Valley	Worthington	WORTHINGTON- RECONSTRUCTION & RELATED WORK ON ROUTE 143 (PHASE II)	1	STP	\$ 8,584,000	\$ 6,867,200	\$ 1,716,800	Construction / (YOE \$8,584,000) STP / 41.5 TE 75% Project Phase I funded in FFY 2019 Total
	Roadway Reconstruction	608881	Pioneer Valley	Longmeadow	LONGMEADOW- SPRINGFIELD- RESURFACING AND INTERSECTION IMPROVEMENTS ON LONGMEADOW STREET (ROUTE 5) AND CONVERSE STREET (0.84 MILES)	2	STP	\$ 6,064,675	\$ 4,851,740	\$ 1,212,935	Construction (YOE \$6,064,675 / 54.5 TEC / Pre 25%
		1	Pioneer Valley			1		\$-	\$ -	\$-	
					Regionally F	Prioritized Pr	ojects subtotal	▶ \$ 27,055,729	\$ 21,744,583	\$ 5,311,146	◄ 80% Federal + 20% Non-Federal

		<u>Total Regional Federal A</u>	Aid Funds Programmed 🕨	\$ 27,055,729	\$ 27,425,802	■Total	\$ 370,073	Target Funds Available
Column C being used being progr	C) Enter ID from ProjectInfo; Column E) Choose Municipa d for the project - if multiple funding sources are being us grammed in this fiscal year and for each funding source;	nal Name from dropdow n list to populate header and MPO column; lity Name from dropdow n list; Column H) Choose the Funding Source ed enter multiple lines; Column I) Enter the total amount of funds Column J) Federal funds autocalculates. Please verify the amount autocalculates. Please verify the solit/match - if matching an FTA flex.	STP programmed ► HSIP programmed ► CMAQ programmed ► TAP programmed ►	\$ 1,000,000 \$ 2,000,000	\$ 900,000 \$ 1,600,000	 ✓ HSIP ✓ CMAQ 		
	retionary Grant Funded Projects							
Other Federal Aid								
	Pioneer Valley	Other Federal Aid	HPP	\$-	\$-	\$	-	

Table 14: Federally Funded Projects Year 2023 (Continued)

Bridge Program / Inspections											
Bridge Program		Pioneer Valley	1	Bridge Inspection	1	l	\$	- [\$ - I	\$ -	
			\$		gram / Inspec	tions subtotal ►		-			 Funding Split Varies by Funding Source
ridge Program / Off-System											
Bridge Program	609120	Pioneer Valley	Ludlow	LUDLOW- BRIDGE REPLACEMENT, L-16-026, PINEY LANE OVER BROAD BROOK	2	STP-BR-OFF	\$	598,560	\$ 478,848	\$ 119,712	
					gram / Off-Sy	stem subtotal ►	\$	598,560	\$ 478,848	\$ 119,712	◀ 80% Federal + 20% Non-Federal
idge Program / On-System (NHS)											
Bridge Program	608848	Pioneer Valley	Springfield	SPRINGFIELD- BRIDGE REPLACEMENT, S-24- 016, ARMORY STREET OVER CSX MAINLINE	2	NHPP-On	\$	5,723,440	\$ 4,578,752	\$ 1,144,688	
Bridge Program	608853	Pioneer Valley	Springfield	SPRINGFIELD- BRIDGE REPLACEMENT, S-24- 026, ARMORY STREET OVER CSX	2	NHPP-On	\$	3,948,640	\$ 3,158,912	\$ 789,728	
			*****	NORTHAMPTON- BRIDGE RECONSTRUCTION,							
Bridge Program	606552	Pioneer Valley	Northampton	N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD	2	NHPP-On	\$	11,378,353	\$ 9,102,682	\$ 2,275,671	AC Year 4 of 5, Total Cost \$56,891,767
				Bridge Program /	On-System(NHS) subtotal 🕨	\$	21,050,433	\$ 16,840,346	\$ 4,210,087	 Funding Split Varies by Funding Source
idge Program / On-System (Non-NH	S)										
Bridge Program		Pioneer Valley		Bridge Program / On-System (Non-NHS)	1		\$	- [ş -	\$-	
					y	NHS) subtotal ►		R	\$-	\$ -	80% Federal + 20% Non-Federal
		Pioneer Valley		Bridge Program / Systematic Maintenance		1	1\$		•		
ridge Program / Systematic Mainter Bridge Program		Pioneer Valley		Bridge Program / Systematic Maintenance Bridge Program / Syster		, I	\$ \$	- -	δ <u>-</u>	\$ -	■ Funding Split Varies by Funding Source
Bridge Program		Pioneer Valley				, I	÷	- [δ <u>-</u>	\$ -	
Bridge Program		Pioneer Valley Pioneer Valley				, I	÷	- [δ <u>-</u>] δ -	\$ -	
Bridge Program terstate Pavement Interstate				Bridge Program / Syster	natic Mainter	, I	\$ \$	- -	<u>β </u>	\$ <u>-</u> \$- \$-	
Bridge Program terstate Pavement Interstate Pavement				Bridge Program / Syster	natic Mainter	, ance subtotal ►	\$ \$		<u>β </u>	\$ <u>-</u> \$- \$-	 Funding Split Varies by Funding Source
Bridge Program terstate Pavement Interstate Pavement				Bridge Program / Syster	natic Mainter	, ance subtotal ►	\$ \$		β <u> </u>	\$ <u>-</u> \$- \$-	 Funding Split Varies by Funding Source
Bridge Program terstate Pavement Interstate Pavement on-Interstate Pavement Non-Interstate		Pioneer Valley		Bridge Program / Syster Interstate Pavement Ins Non-Interstate Pavement	natic Mainter	, ance subtotal ►	\$ \$ \$		Б <u>-</u> Б <u>-</u> Б <u>-</u> Б <u>-</u> Б <u>-</u>	\$ - \$ - \$ - \$ -	 Funding Split Varies by Funding Source
Bridge Program terstate Pavement Interstate Pavement on-Interstate Pavement Non-Interstate Pavement Coadway Improvements		Pioneer Valley		Bridge Program / Syster Interstate Pavement Ins Non-Interstate Pavement	natic Mainter	ment subtotal ►	\$ \$ \$	- - -	Б <u>-</u> Б <u>-</u> Б <u>-</u> Б <u>-</u> Б <u>-</u>	\$ - \$ - \$ - \$ -	 Funding Split Varies by Funding Source 90% Federal + 10% Non-Federal
Bridge Program Iterstate Pavement Interstate Pavement On-Interstate Pavement Non-Interstate Pavement		Pioneer Valley		Bridge Program / Syster Interstate Pavement Ins Non-Interstate Pavement Non-In Roadway Improvements	terstate Pave	ment subtotal ►	\$ \$ \$ \$ \$	- - - -	β - β - β - β - β - β - β - β -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	 Funding Split Varies by Funding Source 90% Federal + 10% Non-Federal 80% Federal + 20% Non-Federal
Bridge Program Interstate Pavement Interstate Pavement on-Interstate Pavement Non-Interstate Pavement Roadway Improvements Roadway		Pioneer Valley Pioneer Valley		Bridge Program / Syster Interstate Pavement Ins Non-Interstate Pavement Non-In Roadway Improvements	terstate Pave	ment subtotal ►	\$ \$ \$ \$ \$		β - β - β - β - β - β - β - β -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	 Funding Split Varies by Funding Source 90% Federal + 10% Non-Federal
Bridge Program Interstate Pavement Interstate Pavement on-Interstate Pavement Non-Interstate Pavement Roadway Improvements Roadway Improvements		Pioneer Valley Pioneer Valley		Bridge Program / Syster Interstate Pavement Ins Non-Interstate Pavement Non-In Roadway Improvements	terstate Pave	ment subtotal ►	\$ \$ \$ \$ \$	- - - -	β - β - β - β - β - β - β - β -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	 Funding Split Varies by Funding Source 90% Federal + 10% Non-Federal 80% Federal + 20% Non-Federal
Interstate Pavement Interstate Pavement Interstate Pavement Interstate Pavement Roadway Improvements Roadway		Pioneer Valley Pioneer Valley		Bridge Program / Syster Interstate Pavement Ins Non-Interstate Pavement Non-In Roadway Improvements	terstate Pave	ment subtotal ►	\$ \$ \$ \$ \$	- - - -	<u>β -</u> <u>β -</u> <u>β -</u> <u>β -</u> <u>β -</u> <u>β -</u> <u>β -</u> <u>β -</u>	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	 Funding Split Varies by Funding Source 90% Federal + 10% Non-Federal 80% Federal + 20% Non-Federal

Table 14: Federally Funded Projects Year 2023 (Continued)

Section 2B / State	Prioritized Mode	rnization Proje	ects									
ADA Retrofits	ADA Retrofits	1	Pioneer Valley		ADA Retrofits	1		\$-	\$	- 19	\$-	
***************************************	ADA Retroins	1	IF IONEEL VAILEY			ADA Ret	rofits subtotal ►		\$	-		■ 80% Federal + 20% Non-Federal
								1.	8 .	B	•	1
Intersection Impro					3							
	Intersection Improvements		Pioneer Valley		Intersection Improvements			\$-	\$	- 5	\$-	
	Improvemente	.I	4		Intersec	tion Improvem	ients subtotal 🕨	\$-	\$	- 3	\$-	Funding Split Varies by Funding Source
						•			A .	R		
► Intelligent Transpo		r		7				1	-			1
	Intelligent Transportation		Pioneer Valley		Intelligent Transportation Systems			\$ -	\$	- 5	\$ -	
	Systems							l [•]	Ļ		*	
					Intelligent Tran	sportation Sys	stem subtotal 🕨	\$-	\$	- :	\$-	80% Federal + 20% Non-Federal
► Roadway Reconst	ruction											
P Roadway Reconst	Roadway	1		1		1		•		ľ	•••	
000000000000000000000000000000000000000	Reconstruction		Pioneer Valley		Roadway Reconstruction			\$-	<u> </u>	- 5		
					Roadw	ay Reconstru	ction subtotal ►	\$-	\$	- !	\$-	 Funding Split Varies by Funding Source
► Section 2C / State	Prioritized Expan	nsion Proiects										
		,										
Bicycles and Pede	strians											
	Bicycles and	607823	B Pioneer Valley	Southampton	SOUTHAMPTON- GREENWAY RAIL TRAIL CONSTRUCTION, FROM COLEMAN ROAD TO	2	CMAQ	\$ 7,053,638	¢	5,642,910	\$ 1,410,728	
	Pedestrians	007020		Countampion	ROUTE 10 (3.5 MILES)	-	Chirlig	φ 1,000,000	Ŷ	0,042,010	φ 1,410,720	
					Bicycle	s and Pedest	rians subtotal 🕨	\$ 7,053,638	\$	5,642,910	\$ 1,410,728	80% Federal + 20% Non-Federal
► Capacity												
P Capacity	Capacity	T	Pioneer Valley	1	Capacity	1		\$-	\$	- [3	\$-	
		***************************************		****		Cap	acity subtotal 🕨	\$-	\$	- 3	\$-	 Funding Split Varies by Funding Source
b Continu 2 / Diamai												
Section 3 / Plannin	ig / Adjustments /	Pass-through	15									
► Planning / Adjustn	nents / Pass-throu	ighs					_					
			Pioneer Valley		ABP GANS Repayment	Multiple		\$ -	\$	- "	\$-	
					Othe	er Statewide li	tems subtotal ►	\$ -	\$	- 3	\$-	◄ Funding Split Varies by Funding Source
Section 4 / Non-Fe	derally Aided Pro	ojects										
► Non-Federally Aid	Non Federal Aid	T	Pioneer Valley	1	Non-Federal Aid	1	I	\$-	12222		\$-	1
		4	I loneer valley			Non-Feder	al Aid subtotal►			imiterimiterianterimiteri		◄100% Non-Federal
								,	bissississi	in an		х
2023 Summ	narv							TIP Section 1				
								3: ▼			Projects ▼	
						-		\$ 55,758,360				 Total Spending in Region Total Enderel Spending in Region
							ederal Funds ► ederal Funds ►			in contractor in contractor in contractor in the second second second second second second second second second		 Total Federal Spending in Region Total Non-Federal Spending in Region
									1 *	1	,501,672	

701 CMR 7.00 Use of Road Flaggers and Police Details on Public Works Projects / 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.

Table 14: Federally Funded Projects Year 2023 (Continued)

Section 2B / State Prioritized Modernization Projects

ADA Retrofits											
	ADA Retrofits	Pioneer Valley	ADA Retrofits		\$	-	\$	- \$	i	-	
	ADA Retrofits	Pioneer Valley	ADA Retrofits		\$	-		- \$		-	
				ADA Retrofits sub	total ► \$	-	\$	- 9	6	-	80% Federal + 20% Non-Federal
Intersection Impro	ovements										
	Intersection Improvements	Pioneer Valley	Intersection Improvements		\$	-	\$	- \$;	-	
	Intersection Improvements	Pioneer Valley	Intersection Improvements		\$	-	\$	- [\$;	-	
	Intersection Improvements	Pioneer Valley	Intersection Improvements		\$	-	\$	- \$;	-	
	Intersection Improvements	Pioneer Valley	Intersection Improvements		\$	-	\$	- \$;	-	
	Intersection Improvements	Pioneer Valley	Intersection Improvements		\$	-	\$	- \$		-	
	Intersection Improvements	Pioneer Valley	Intersection Improvements	ersection Improvements sub	\$	-	\$	- \$		-	 Funding Split Varies by Funding Source
ntelligent Transp	oortation Systems										
ntelligent Transp	Intelligent Transportation Systems	Pioneer Valley	Intelligent Transportation Systems		\$	-	\$	- \$;	-	
ntelligent Transp	Intelligent Transportation Systems Intelligent Transportation	Pioneer Valley Pioneer Valley	Intelligent Transportation Systems		\$	-	\$ \$	- \$		-	
ntelligent Transp	Intelligent Transportation Systems Intelligent Transportation Systems										
ntelligent Transp	Intelligent Transportation Systems Intelligent Transportation Systems Intelligent Transportation								;		
ntelligent Transp	Intelligent Transportation Systems Intelligent Transportation Systems Intelligent	Pioneer Valley	Intelligent Transportation Systems	t Transportation System sub	\$	-	\$ \$	- \$		-	✓ 80% Federal + 20% Non-Federal
	Intelligent Transportation Systems Intelligent Transportation Systems Intelligent Transportation Systems	Pioneer Valley	Intelligent Transportation Systems	t Transportation System sub	\$	-	\$ \$	- \$		-	■ 80% Federal + 20% Non-Federal
	Intelligent Transportation Systems Intelligent Transportation Systems Intelligent Transportation Systems	Pioneer Valley	Intelligent Transportation Systems	t Transportation System sub	\$	-	\$ \$	- \$; ; }	-	✓ 80% Federal + 20% Non-Federal
ntelligent Transp Roadway Recons	Intelligent Transportation Systems Intelligent Transportation Systems Intelligent Transportation Systems struction Roadway	Pioneer Valley Pioneer Valley	Intelligent Transportation Systems Intelligent Transportation Systems Intelligent	t Transportation System sub	\$ \$ total ► \$	-	\$ \$ \$	- \$ - \$; ; ;	-	 ▲ 80% Federal + 20% Non-Federal
	Intelligent Transportation Systems Intelligent Transportation Systems Intelligent Transportation Systems struction Roadway Reconstruction Roadway	Pioneer Valley Pioneer Valley Pioneer Valley	Intelligent Transportation Systems Intelligent Transportation Systems Intelligent Roadway Reconstruction	t Transportation System sub	\$ \$ total ► \$		\$ \$ \$	- 9 - 9 - 9 - 9	; ; ; ;	- - -	▲ 80% Federal + 20% Non-Federal

Community	SID	Project Name and Description	Design	TEC Score	Estimated Cost
Agawam	600513	RECONSTRUCTION OF ROUTE 187 FROM 425 FT. SOUTH OF S.	25	27.0	\$2,239,065
Agawam	603372	WESTFIELD STREET TO ROUTE 57 (0.3 MILES - PHASE I) RECONSTRUCTION ON ROUTE 5 CONNECTOR TO ROUTE 57, INCLUDES A-05-013 & A-05-014	0	53.0	\$11,670,939
Agawam	607316	RECONSTRUCTION OF ROUTE 187, FROM SOUTHWICK/SPRINGFIELD STREET TO ALLISON LANE (1.29 MILES - PHASE II)	0	33.8	\$5,562,610
Agawam	607317	AGAWAM- RECONSTRUCTION OF ROUTE 187, FROM ALLISON LANE TO THE WESTFIELD CITY LINE (1.69 MILES - PHASE III)	0	33.8	\$7,589,668
Amherst	608084	AMHERST - IMPROVEMENTS & RELATED WORK ON ROUTES 9 & 116, FROM UNIVERSITY DRIVE TO SOUTH PLEASANT STREET (0.8 MILES)	25	53.5	\$3,353,577
Amherst / Belchertown	608719	AMHERST- BELCHERTOWN- NORWOTTUCK RAIL TRAIL RESURFACING, FROM STATION ROAD IN AMHERST TO WARREN WRIGHT ROAD IN BELCHERTOWN (1.5 MILES)	0	12.0	\$1,083,220.00
Belchertown	608412	BELCHERTOWN- IMPROVEMENTS & RELATED WORK ON ROUTES 202 & 21, FROM TURKEY HILL ROAD TO SOUTH MAIN STREET (1.2 MILES)	25	59.0	\$4,738,044
Belchertwon / Granby	608466	BELCHERTOWN- GRANBY- RESURFACING AND RELATED WORK ON ROUTE 202	0	17	\$4,491,288.00
Chesterfield	608886	RECONSTRUCTION OF NORTH ROAD AND DAMON POND ROAD	0	10	\$4,441,000.00
Chicopee	602911	CONNECTICUT RIVERWALK & BIKEWAY CONSTRUCTION, FROM BOAT RAMP NEAR I-90 TO NASH FIELD (2.5 MILES) INCL NEW BRIDGE OVER OVERFLOW CHANNEL	75	27 (4.85)	\$3,122,734
Chicopee	602912	CHICOPEE RIVER RIVERWALK MULTI-USE PATH CONSTRUCTION, FROM GRAPE STREET TO FRONT STREET (NEAR ELLERTON STREET) (1 MILE)	25	21.5	\$4,000,000
Chicopee	604434	RECONSTRUCTION & RELATED WORK ON FULLER ROAD, FROM MEMORIAL DR (RTE 33) TO SHAWINIGAN DR (2.0 MILES)	25	48.5	\$7,603,801
Chicopee	606892	SLOPE PROTECTION IMPROVEMENTS AT I-391 BRIDGE OVER THE CONNECTICUT RIVER	0	7.0	\$282,622.00
Chicopee	607736	CHICOPEE- SIGNAL & INTERSECTION IMPROVEMENTS AT 13 INTERSECTIONS ALONG ROUTE 33 (MEMORIAL DRIVE), FROM FULLER ROAD TO ABBEY STREET	25	41.5	\$5,800,000
Chicopee		CHICOPEE - INTERSECTION RECONSTRUCTION, MONTGOVERY ROAD AT GRANBY ROAD AND MCKINSTRY A VENUE, AND MONTGOMERY ROAD AT TURNPIKE ACCESS ROAD	NA		\$6,000,000
Cummington	606797	Route 9 Retaining Wall	0	8.0	\$1,660,000
Easthampton	608577	EASTHAMPTON- IMPROVEMENTS AND RELATED WORK ON UNION STREET (ROUTE 141) FROM PAYSON A VENUE TO HIGH STREET (0.36 MILES)	0	62.0	\$2,037,200.00
Easthampton/ Southampton	608423	IMPROVEMENTS AND RELATED WORK ON TWO SECTIONS OF ROUTE 10 IN EASTHAMPTON AND SOUTHAMPTON	0	28.5	\$2,799,540
Goshen	602888	Route 9 reconstruction	0	25.0	\$7,500,000
Granby	-	Route 202 Intersection Improvements 2 Locations @ 5 Corners and @ School Street	25	42.0	\$1,749,527
Granby / South Hadley	607474	GRANBY- SOUTH HADLEY- RESURFACING & RELATED WORK ON ROUTE 202, FROM LYMAN STREET SOUTH HADLEY TO PLEASANT STREET GRANBY (2 MILES)	25	22.0	\$5,751,651
		GRANVILLE- RECONSTRUCTION OF ROUTE 57	0	29.0	\$7,000,000

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Table 15: Universe of Projects

Hadley	605032	HADLEY- RECONSTRUCTION ON ROUTE 9, FROM MIDDLE STREET TO MAPLE/SOUTH MAPLE STREET	25	50.0	\$20,006,920
Hadley	606547	PEDESTRIAN SIGNAL INSTALLATION AT 2 LOCATIONS ALONG ROUTE 9 NEAR WEST ST	0	14.5	\$134,600
Hadley	607886	RESURFACING AND RELATED WORK ON ROUTE 47 FROM COMINS DRIVE TO OLD RIVER DRIVE, INCLUDES CULVERT REPLACEMENT AT RUSSELVILLE BROOK	0	16 (2.88)	\$2,100,000
Hadley	608089	INTERSECTION, BICYCLE AND PEDESTRIAN IMPROVEMENTS @ ROUTES 9, 116 & WESTGATE CENTER DRIVE	0	25.5	\$1,544,720
Hatfield	608553	HATFIELD- RESURFACING AND RELATED WORK ON ROUTES 5 &10, FROM 350 FEET NORTH OF CHURCH AVE TO THE WHATELY TOWN LINE (3.2 MILES)	0	6.5	\$3,124,760.40
Holland	608727	HOLLAND- RESURFACING & RELATED WORK ON BRIMFIELD ROAD, FROM WALES ROAD TO STURBRIDGE STREET (0.9 MILES - PHASE II)	0	27.5	\$1,051,476
Holyoke	606156	RECONSTRUCTION OF I-91 INTERCHANGE 17 & ROUTE 141	0	47.0	\$2,990,728
Holyoke	606450	TRAFFIC SIGNAL UPGRADES AT 15 INTERSECTIONS ALONG HIGH & MAPLE STREETS	25	45.5	\$4,234,543
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)	25	49.0	\$9,619,997
Longmeadow	607430	RESURFACING & RELATED WORK ON LONGMEADOW STREET (ROUTE 5), FROM THE CT S.L. TO CONVERSE STREET (2.88 MILES)	25	44.5	\$2,394,860
Longmeadow / Springfield	606469	RETAINING WALL REPLACEMENT/REHABILITATION ON I-91 (SB)	0		\$6,143,750
Longmeadow / Springfield	608881	RESURFACING AND INTERSECTION IMPROVEMENTS ON LONGMEADOW STREET (ROUTE 5) AND CONVERSE STREET (0.84 MILES)	0	54.5	\$5,228,167.90
Northampton	605048	IMPROVEMENTS ON ROUTE 5 (MOUNT TOM ROAD) - FROM BRIDGE E-5-4 OVER THE MANHAN RIVER TO 850' SOUTH OF I-91 NB EXIT 18 RAMP (0.85 MILES)	0	40.0	\$1,200,112
Northampton	606555	NORTHAMPTON- ROUNDABOUT CONSTRUCTION AT INTERSECTION ROUTES 5/10 (NORTH KING STREET) & HATFIELD STREET	25	55.0	\$4,612,652
Northampton	607502	INTERSECTION IMPROVEMENTS AT KING STREET, NORTH STREET & SUMMER STREET AND AT KING STREET & FINN STREET	25	65.0	\$3,305,959
Northampton	607893	NORTHAMPTON- INTERSECTION IMPROVEMENTS @ ELM STREET, MAIN STREET, WEST STREET, STATE STREET & NEW SOUTH STREET	0	68.0	\$2,000,000
Northampton	608236	NORTHAMPTON- RECONSTRUCTION OF DAMON ROAD, FROM ROUTE 9 TO ROUTE 5, IONSTRUNCLUDES DRAINAGE SYSTEM REPAIRS & SLOPE STABILIZATION AT THE NORWOTTUCK RAIL TRAIL (old#180525)	75	66.5	\$9,854,667
Northampton	608413	NORTHAMPTON- ROCKY HILL GREENWAY MULTI-USE TRAIL, FROM THE MANHAN RAIL TRAIL TO ROCKY HILL ROAD (0.4 MILES)	25	32.0	\$621,050
Northampton	608729	NORTHAMPTON- IMPROVEMENTS AND RELATED WORK ON MAIN STREET (ROUTE 9) FROM MASONIC STREET TO MARKET/HAWLET STREET (0.33 MILES)	0	74.0	\$5,354,523.20

Table 15: Universe of Projects

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Palmer	601504	RECONSTRUCTION OF ROUTE 32, FROM 765 FT. SOUTH OF	0	18.0	\$3,570,304
		STIMSON STREET TO 1/2 MILES SOUTH OF RIVER STREET (PHASE			
		I) (1.63 MILES) (TFPC \$6,134,080) HPP Eamark \$2,500,000			
Palmer	607372		0	14.0	\$8,476,770
		OF RIVER STREET TO THE WARE T.L. (PHASE II) (2.1 MILES)			
Russell	608945	RUSSELL- RESURFACING & RELATED WORK ON ROUTE 20	0	14.0	\$6,500,000
South Hadley	608473	SOUTH HADLEY- RESURFACING AND RELATED WORK ON ROUTE	0	26.0	\$2,338,560.00
•		116			
South Hadley	608785	MAIN STREET ROAD IMPROVEMENT PROJECT	0	38.5	\$3,089,720
Southampton	604653	REHABILITATION OF EAST STREET - FROM COLLEGE HIGHWAY	25	31.5	\$5,022,200
		EASTERLY TO COUNTY ROAD (2.6 MILES)			
Southampton	607823	GREENWAY RAIL TRAIL CONSTRUCTION, FROM COLEMAN RD TO	0	19.5	\$6,080,722
		ROUTE 10 (3.5 MILES)			
Southwick	604155	RESURFACING & RELATED WORK ON ROUTE 10/202, COLLEGE	0	18.5	\$3,600,000
		HIGHWAY (NORTHERLY SECTION) FROM THE			
		WESTFIELD/SOUTHWICK T.L. TO TANNERY ROAD (1.4 MILES)			
Southwick	606141	RECONSTRUCTION OF FEEDING HILLS ROAD (ROUTE 57), FROM	0	42.5	\$4,080,000
~ . ~	10.5 1 7	COLLEGE HIGHWAY TO THE AGAWAM T.L			*
Springfield	608157	SPRINGFIELD- MCKNIGHT COMMUNITY TRAIL CONSTRUCTION,	0	36.5	\$4,300,000
a . a	600.444	FROM ARMORY STREET TO HAYDEN AVENUE (1.5 MILES)	~~	40.5	¢1.00 < 000
Springfield	608411	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT BAY STREET AND BERKSHIRE A VENUE	25	49.5	\$1,886,880
Springfield	608717	SPRINGFIELD- RECONSTRUCTION OF SUMNER A VENUE A T	0	70.5	\$8,055,000.00
		DICKINSON STREET AND BELMONT A VENUE (THE "X")			, ,
Springfield	608718	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT BERKSHIRE	0	41.5	\$2,063,908.40
1 0		A VENUE, COTTAGE AND HARVEY STREETS			
Springfield	608782	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT COTTAGE	0	46.5	\$1,800,000
		STREET, ROBBINS ROAD AND INDUSTRY AVE			
Wales	605669	PEDESTRIAN ACCESS IMPROVEMENTS & RELATED WORK ON	0	9.0	\$312,500
		ROUTE 19			
Wales	608163	WALES- RECONSTRUCTION & IMPROVEMENTS ON MONSON	25	39.5	\$4,118,974
		ROAD, FROM THE MONSON T.L. TO REED HILL ROAD (1.5 MILES)			
Ware	607987	WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST	75	55.0	\$2,475,087
		STREET, NORTH STREET, SOUTH STREET & CHURCH STREET			
West Springfield	604746	BRIDGE REPLACEMENT, W-21-006, CSX RAILROAD OVER UNION STREET	0	21.0	\$12,403,054
West Springfield	608374	RECONSTRUCTION OF MEMORIAL A VENUE (ROUTE 147), FROM	25	69.5	\$19,573,000
B.1010		COLONY ROAD TO THE MEMORIAL A VENUE ROTARY (1.4 MILES)			+->,2 /0,000
Westfield	603783	WESTFIELD- COLUMBIA GREENWAY RAIL TRAIL	75	36.5 (6.58)	\$6,250,000
		CONSTRUCTION (CENTER DOWNTOWN SECTION)			
Westfield	604445	RECONSTRUCTION ON ROUTE 187, INCLUDES REPLACEMENT OF			\$6,250,000
		W-25-002, SHERMAN'S MILL BRIDGE OVER GREAT BROOK AT			
		PONTOOSIC ROAD			
Westfield	607773	WESTFIELD- IMPROVEMENTS & RELATED WORK ON ROUTE 20,	25	48.5	\$6,047,573
		COURT STEET & WESTERN A VENUE, LLOYDS HILL ROAD TO HIGH			

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		Total Estimated project Cost (69 Projects)			\$355,597,454
Worthington	606912	Route 143 Reconstruction and Related Work	75	41.5	\$16,300,000
Williams burg	608787	CONSTRUCTION OF THE "MILL RIVER GREENWAY" SHARED USE PATH	0	29.0	\$14,400,000
Williamsburg	607231	Reconstruction of High Street and Mountain Street	0	18.0	\$3,600,000
Wilbraham	608489	WILBRAHAM- RESURFACING AND RELATED WORK ON ROUTE 20	0	36.0	\$9,441,500
Westfield	608487	WESTFIELD- RESURFACING AND RELATED WORK ON ROUTE 10 AND 202	0	29	\$2,760,000
Westfield	608073	WESTFIELD RIVER LEVEE MULTI-USE PATH CONSTRUCTION, FROM CONGRESS ST TO WILLIAMS RIDING WAY (NEAR MEADOW ST) (2MILES)	0	36	\$4,801,730

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

Project Description	City/Town	Project ID	Funding	Fed. Funds State Funds	State Funds	Total	Notes
Route 20 Access Improvements on Court Street & Western Avenue This reconstruction project on city-owned streets begins at Court Street at the intersection of Mill and High Street, and runs 0.2 miles westerly to Western Avenue, then westerly 2.25 miles to the intersection of Bates Road. The project will include traffic signal installation at Lloyd's Hill and an upgrade at Mill and High Streets	W estfield	603449	HPP-4287	\$2,002,950	\$500,738	\$2,503,688 \$2,503,688	
Route 32 Ware Road Reconstruction (\$22,854,850)	Palmer	601504	HPP-4287	\$2,303,744	\$575,936	\$2,879,680	
Design and construction of Southwick and Westfield Rail Trail	Southwick/Westfield	602844; 604443; 603783	HPP-1656	\$1,857,506	\$464,377	\$46,779	#602844 was advertised on 9/30/06; #604443 was \$46,779 advertised on 8/8/09
*Construct Access roads to Hospital Hill (\$1,652,818)	Northampton	604451	HPP-158	\$302,865	\$75,716	\$378,581	#604451 was advertised \$378,581 on 9/1/2007
*State St. Corridor Redevelopment Project (\$18,052,897)	Springfield	604447	HPP-217	\$899,056	\$224,764	\$1,123,820	#604447 was advertised \$1,123,820 on 9/22/07
*Design and construct 1.5 mile Red Stone Rail Trail(\$1,112,074) East Longmeadow	East Longmeadow	602338	HPP-578	\$224,764	\$56, 191	\$280,955	#602338 was advertised \$280,955 on 12/6/2008
*Intersection improvements Memorial Park II - Roosevelt Ave. (\$2,310,853)	Springfield	604822	HPP-836	\$149,843	\$37,461	\$187,304	#604822 was advertised \$187,304 on 9/8/2007
Design north and southbound ramps on I-91 at Exit 19 (\$15,000,000)	Northampton	604597	HPP-847	\$224,764	\$56, 191	\$280,955	
Upgrade Route 9 - Calvin Coolidge bridge (1998) (\$31,840,515)	Hadley	124913	HPP - 862	\$83,828	\$20,957	\$104,785	#124913 was advertised \$104,785 on 9/30/2000
Total Project Cost				\$8,049,320	\$2,012,330	\$10,061,650	
Earmarks located in Appendix Z w ill remain un-oprogrammed until full project funding is available							

Table 16: High Priority Project (HPP) Funding

V. Transit Project Listing for FFY 2019 - 2023

The following is a complete listing of programmed transit projects for FFY 2019 - 2023

Table 16: FFY 2019 Transit Project Information

5307 RTD0006919 Pioneer Valley Transit Authority 119308 Purchase & Replace signage and lighting \$12,000 \$3,000 \$0 \$0 \$10,000 5307 RTD0006920 Pioneer Valley Transit Authority 114220 ACQUIRE - MISC SUPPORT EQUIPMENT \$8,000 \$47,000 \$0 \$0 \$325,000 5307 RTD0006922 Pioneer Valley Transit Authority 11700 ADA Service subjdy \$1,250,104 \$312,504 \$0 \$0 \$5,57,482 5307 RTD0006933 Pioneer Valley Transit Authority 11700 ADA Service subjdy \$1,250,104 \$312,504 \$0 \$0 \$5,57,482 5307 RTD0006933 Pioneer Valley Transit Authority 116220 Information Technology Systems \$1,417,799 \$354,450 \$0 \$0 \$2,000,000 \$0 \$2,000,000 \$0 \$2,000,000 \$0 \$2,000,000 \$0 \$2,000,000 \$0 \$2,000,000 \$0 \$2,000,000 \$0 \$2,000,000 \$0 \$2,000,000 \$0 \$2,000,000 \$0 \$2,000,000 \$0 \$2,000,000 \$0 \$2,000,000 \$0 \$2,000,000 \$0 \$2,000,000 \$0 \$2,000,000 \$0 \$0 \$0 \$0	FTA Prog	ram Project Number	Transit Agency	FTA Activit Line Item	y Project Description	Carryover (unobliga Feo	deral Funds	State Funds	TDC	Local Funds	Total Cost
5307 RTD0006918 Pioneer Valley Transit Authority 119302 receptades,etc. \$80,000 \$20,000 \$0 \$0 \$0 \$10,000 5307 RTD0006919 Pioneer Valley Transit Authority 119308 Purchase & Replace signage and lighting \$12,000 \$3,000 \$2,000 \$0 \$0 \$15,000 5307 RTD0006920 Pioneer Valley Transit Authority 114202 ACQUIRE - MISC SUPPORT EQUIPMENT \$3,000 \$2,000 \$0 \$0 \$13,000 5307 RTD0006921 Pioneer Valley Transit Authority 11700 APA Service subsidy \$1,32,004 \$312,546 \$0 \$0 \$1,772,249 5307 RTD0006933 Pioneer Valley Transit Authority 11700 Preventive Maintenance \$5,261,986 \$1,315,496 \$0 \$1,772,249 5307 RTD0006933 Pioneer Valley Transit Authority 11402 Administration, Year 3 \$2,000,000 \$0 \$0 \$0 \$0 \$1,772,249 5307 RTD0006952 Pioneer Valley Transit Authority 11402 Compliance \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	5307				Purchase Bus Shelters, benches, trash						
\$307 RTD0006920 Pioneer Valley Transit Authority 114220 ACQUIRE - MISC SUPPORT EQUIPMENT \$8,000 \$2,000 \$0 \$0 \$50 \$235,000 \$307 RTD0006921 Pioneer Valley Transit Authority 11420 ACQUIRE - MISC SUPPORT EQUIPMENT \$8,000 \$21,000 \$0 \$0 \$125,014 \$0 \$51,562,518 \$307 RTD0006923 Pioneer Valley Transit Authority 11700 ADA Service subsidy \$112,50,014 \$0 \$50 \$1,772,249 \$307 RTD0006933 Pioneer Valley Transit Authority 114202 Adquinistration, Year 3 \$2,000,000 \$0 \$50 \$2,000,000 \$307 RTD0006956 Pioneer Valley Transit Authority 114302 Administration, Year 3 \$2,000,000 \$0 \$50,000 \$0 \$2,000,000 \$0 \$2,000,000 \$0 \$2,000,000 \$0 \$2,000,000 \$0 \$2,000,000 \$0 \$2,000,000 \$0 \$2,000,000 \$0 \$2,000,000 \$0 \$2,000,000 \$0 \$2,000,000 \$0 \$0 \$2,000,000 \$0 \$0 \$2,000,000 \$0 \$0 \$2,000,000 \$0 \$0 \$2,000,000 \$0 \$0 \$2,000,000 \$0 \$		5307 RTD0006918	Pioneer Valley Transit Authority	1193			\$80,000	\$20,000	\$0	\$0	\$100,000
\$307 RTD0006921 Pioneer Valley Transit Authority 442400 Transportation Planning \$188,000 \$47,000 \$0 \$235,000 \$307 RTD0006922 Pioneer Valley Transit Authority 117C00 ADA Service subsidy \$1,250,014 \$312,504 \$0 \$0 \$1,562,518 \$307 RTD0006933 Pioneer Valley Transit Authority 117C00 Preventive Maintenance \$5,261,986 \$1,315,450 \$0 \$5,77,482 \$307 RTD0006933 Pioneer Valley Transit Authority 116220 Information Technology Systems \$1,417,79 \$354,450 \$0 \$2,000,000 \$307 RTD0006937 Pioneer Valley Transit Authority 114302 Administration, Year 3 \$2,000,000 \$0 \$500,800 \$50,8000 \$2,000,000 \$307 RTD0006917 Pioneer Valley Transit Authority 114402 Compliance \$60,000 \$90,000 \$0 \$50,8000 \$50,8000 \$50,8000 \$50,8000 \$50,8000 \$50,8000 \$50,8000 \$50,8000 \$50,8000 \$50,8000 \$50,8000 \$50,8000 \$50,80000 \$50,8000 \$50,80000 \$50,80000 \$50,80000 \$50,80000 \$50,80000 \$50,80000 \$50,80000 \$50,80000 \$50,80000 \$50,80000		5307 RTD0006919	Pioneer Valley Transit Authority	1193	308 Purchase & Replace signage and lighting		\$12,000	\$3,000	\$0	\$0	\$15,000
\$307 RTD0006922 Pioneer Valley Transit Authority 11700 ADA Service subsidy \$1,250,014 \$312,504 \$0 \$0 \$1,562,518 \$307 RTD0006923 Pioneer Valley Transit Authority 11700 Preventive Maintenance \$5,261,98 \$1,315,495 \$0 \$0 \$0,577,482 \$307 RTD0006933 Pioneer Valley Transit Authority 117400 Administration, Year 3 \$1,417,799 \$353,450 \$0 \$0 \$1,50,000 \$307 RTD0006937 Pioneer Valley Transit Authority 114202 Administration, Year 3 \$2,000,000 \$0 \$0 \$0 \$1,50,000 \$307 RTD0006937 Pioneer Valley Transit Authority 114402 Compliance \$60,000 \$90,000 \$0 \$0 \$1,502,249 \$307 RTD0006937 Pioneer Valley Transit Authority 114402 Compliance \$0 \$0 \$0 \$0 \$1,902,249 \$307 RTD0006937 Pioneer Valley Transit Authority 114202 Retrofit SATCO facility to paratransit \$25,9712 \$38,088 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$		5307 RTD0006920	Pioneer Valley Transit Authority	1142	220 ACQUIRE - MISC SUPPORT EQUIPMENT		\$8,000	\$2,000	\$0	\$0	\$10,000
\$307 RTD0006923 Pioneer Valley Transit Authority 117A00 Preventive Maintenance \$5,261,986 \$1,315,496 \$0 \$0 \$6,577,422 \$307 RTD0006933 Pioneer Valley Transit Authority 116220 Information Technology Systems \$1,417,799 \$358,450 \$0 \$0 \$1,772,249 \$307 RTD0006956 Pioneer Valley Transit Authority 114302 Administration Technology Systems \$2,000,000 \$00 \$500,000 \$0 \$1,072,249 \$307 RTD0006956 Pioneer Valley Transit Authority 114302 Administration, Year 3 REHAB/RENOVATE - Environmental \$2,000,000 \$00 \$00 \$0 \$10,000 \$50,0000 \$0 \$10,000 \$50,0000 \$0 \$10,002,249 \$307 RTD0006957 Pioneer Valley Transit Authority 114302 Retrofit SATCO facility to paratransit \$10,529,711 \$2,54,538 \$500,000 \$0 \$50 \$0 \$0 \$50 \$50 \$0 \$50 \$50 \$0 \$50		5307 RTD0006921	Pioneer Valley Transit Authority	4424	100 Transportation Planning		\$188,000	\$47,000	\$0	\$0	\$235,000
\$307 RTD0006933 Pioneer Valley Transit Authority 116220 Information Technology Systems Cottage Street Design and Construction \$1,417,799 \$354,450 \$0 \$0 \$2,000,000 \$307 RTD0006956 Pioneer Valley Transit Authority 114302 Administration, Year 3 REHAB/RENOVATE - Environmental \$2,000,000 \$0 \$500 \$0 \$0 \$1,072,249 \$307 RTD0006917 Pioneer Valley Transit Authority 114302 Compliance \$60,000 \$90,000 \$0 \$0 \$50 \$0 \$50 \$50,000 \$307 RTD0006952 Pioneer Valley Transit Authority 114302 Compliance \$60,000 \$90,000 \$0 \$0 \$50 \$0 \$50 \$50,000 \$50,000 \$50,000 \$50,000 \$50 \$50 \$50 \$50,000 \$50		5307 RTD0006922	Pioneer Valley Transit Authority	117C00	ADA Service subsidy		\$1,250,014	\$312,504	\$0	\$0	\$1,562,518
Cottage Street Design and Construction 5307 RTD0006956 Pioneer Valley Transit Authority 114302 Administration, Year 3 REHAB/RENOVATE - Environmental \$2,000,000 \$0 \$0 \$20 \$2,000,000 5307 RTD0006957 Pioneer Valley Transit Authority 114402 Compliance \$60,000 \$0 \$0 \$150,000 5307 RTD0006952 Pioneer Valley Transit Authority 114402 Compliance \$60,000 \$0 \$0 \$150,000 5307 RTD0006952 Pioneer Valley Transit Authority 114402 Compliance \$0 \$0 \$0 \$150,000 5307 RTD0006952 Pioneer Valley Transit Authority 114302 Retrofit SATCO facility to paratransit \$251,912 \$398,088 \$0 \$0 \$13,072,249 5309 Subtotal \$0 \$0 \$0 \$0 \$0 \$13,072,249 5309 Subtotal \$0		5307 RTD0006923	Pioneer Valley Transit Authority	117A00	Preventive Maintenance		\$5,261,986	\$1,315,496	\$0	\$0	\$6,577,482
REHAB/RENOVATE - Environmental 5307 RTD0006917 Pioneer Valley Transit Authority 114402 Compliance \$60,000 \$90,000 \$0 \$0 \$150,000 5307 RTD0006952 Pioneer Valley Transit Authority 11402 Compliance \$251,912 \$338,088 \$0 \$0 \$660,000 5307 Subtotal \$10,529,711 \$2,542,538 \$500,000 \$0 \$130,072,249 5309 Subtotal \$0 \$0 \$0 \$10 \$0 \$10 \$0 \$10 \$0 \$130,8000 \$130,8000 \$130,8000 \$130,8000 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$130,8000 \$130,80000 \$130,80000 \$10		5307 RTD0006933	Pioneer Valley Transit Authority	1162			\$1,417,799	\$354,450	\$0	\$0	\$1,772,249
5307 RTD0006952 Pioneer Valley Transit Authority 114302 Retrofit SATCO facility to paratransit \$251,912 \$398,088 \$0 \$0 \$650,000 5309 Subtotal \$10,529,711 \$2,542,538 \$500,000 \$0 \$13,072,249 5309 Subtotal \$0 \$0 \$0 \$10,529,711 \$2,542,538 \$500,000 \$0 \$13,072,249 5309 Subtotal \$0		5307 RTD0006956	Pioneer Valley Transit Authority	1143			\$2,000,000	\$0	\$500,000	\$0	\$2,000,000
Subtoal \$10,529,711 \$2,542,538 \$500,000 \$0 \$13,072,249 5309 Subtoal \$0		5307 RTD0006917	Pioneer Valley Transit Authority	1144	102 Compliance		\$60,000	\$90,000	\$0	\$0	\$150,000
Sabe Subtotal \$0 \$1,836,620 \$0 \$0 \$1,836,620 \$0 \$0 \$1,836,620 \$0 \$0 \$1,836,620 \$0 \$0 \$1,836,620 \$0 \$0 \$1,836,620 \$0 \$0 \$1,836,620 \$0 \$0 \$1,836,620 \$0 \$0 <th< td=""><td></td><td>5307 RTD0006952</td><td>Pioneer Valley Transit Authority</td><td>1143</td><td>302 Retrofit SATCO facility to paratransit</td><td></td><td>\$251,912</td><td>\$398,088</td><td></td><td>\$0</td><td>\$650,000</td></th<>		5307 RTD0006952	Pioneer Valley Transit Authority	1143	302 Retrofit SATCO facility to paratransit		\$251,912	\$398,088		\$0	\$650,000
Subtoal \$0						Subtotal	\$10,529,711	\$2,542,538	\$500,000	\$0	\$13,072,249
Subtoal \$0 \$1,836,620	5309					Subtotal	\$0	\$0	\$0	\$0	\$0
Subtotal \$0 \$0 \$0 \$0 \$0 \$0 5337 Subtotal \$0 \$1,836,620	5310					Subtotal	\$0	\$0	\$0	\$0	\$0
5337 Subtotal \$0 \$1,836,620 \$0 \$1,836,620 \$0 \$1,836,620 \$0 \$1,836,620 \$0 \$0 \$1,836,620 \$0 \$1,836,620 \$0 \$0 \$1,836,620 \$0 \$0 \$1,836,620 \$0 \$0 \$1,836,620 \$0 \$0 \$1,836,620 \$0 \$0 \$1,836,620 \$0 \$0 \$1,836,620 \$0 \$0 \$1,836,620 \$0 \$0 \$1,836,620 \$0 \$0 \$1,836,620 \$0 \$0 \$1,836,620 \$0 \$0 \$1,836,620 \$0 \$0 \$1,836,620 \$0 \$0 \$1,836,620 \$0 \$0 \$0 \$1,836,620 \$0 \$0 \$1,836,620 \$0 \$0 \$0 \$1,836,620 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	5311					Subtotal	\$0	\$0	\$0	\$0	\$0
5339 5339 RTD0006949 Pioneer Valley Transit Authority 111215 Purchase Replacement Vans (27) \$326,510 \$1,510,110 \$0 \$0 \$1,836,620 Subtotal \$0 </td <td>5337</td> <td></td> <td></td> <td></td> <td></td> <td>Subtotal</td> <td></td> <td></td> <td></td> <td></td> <td></td>	5337					Subtotal					
5339 RTD0006949 Pioneer Valley Transit Authority 111215 Purchase Replacement Vans (27) \$326,510 \$1,510,110 \$0 \$0 \$1,836,620 Subtotal \$326,510 \$1,510,110 \$0 \$0 \$1,836,620 5320 Subtotal \$0 \$0 \$0 \$1,836,620 Other Federal \$0 \$0 \$0 \$0 \$1,836,620	5339							+•	+•	+•	+•
Subtotal \$326,510 \$1,510,110 \$0 \$0 \$1,836,620 5320 Subtotal \$0		5339 RTD0006949	Pioneer Valley Transit Authority	1112	215 Purchase Replacement Vans (27)		\$326,510	\$1,510,110	\$0	\$0	\$1,836,620
Subtotal \$0 <						Subtotal	\$326,510	\$1,510,110	\$0	\$0	\$1,836,620
Other Federal	5320					Subtotal	\$0	\$0	\$0	\$0	\$0
Subtotal \$0 \$0 \$0 \$0 \$0	Other Fed	eral									
						Subtotal	\$0	\$0	\$0	\$0	\$0

Other Non-Fea	deral								
Other Non-	RTD0006916	Pioneer Valley Transit Authority	114406 Purchase & Replace Shop Equipment		\$0	\$300,000	\$0	\$0	\$300,000
Other Non-									
Federal	RTD0006931	Pioneer Valley Transit Authority	114211 Purchase & Replace support vehicles (2)		\$0	\$75,000	\$0	\$0	\$75,000
Other Non-	RTD0006932	Pioneer Valley Transit Authority	114211 ACQUIRE - SUPPORT VEHICLES (4)		\$0	\$120,000	\$0	\$0	\$120,000
Other Non-	RTD0006955	Pioneer Valley Transit Authority	114302 Cottage Street Construction, Year 3		\$0	\$9,824,862	\$0	\$0	\$9,824,862
Other Non-			UMTS rehab - Reinstall exhaust fans ove	er					
Federal	RTD0007287	Pioneer Valley Transit Authority	114306 maintenance bays		\$0	\$15,000	\$0	\$0	\$15,000
Other Non-									
Federal	RTD0007407	Pioneer Valley Transit Authority	114220 ACQUIRE - MISC SUPPORT EQUIPMENT		\$0	\$0	\$0	\$0	\$1,247,000
Other Non-									
Federal	RTD0007282	Pioneer Valley Transit Authority	111202 Buy Replacement 35" Electric Bus (4)		\$0	\$0	\$0	\$0	\$2,956,000
Other Non-									
Federal	RTD0007283	Pioneer Valley Transit Authority	111201 Buy Replacement 40' Electric Bus (4)		\$0	\$0	\$0	\$0	\$2,836,000
				Subtotal	\$0	\$10,334,862	\$0	\$0	\$17,373,862
				Total	\$10,856,221	\$14,387,510	\$500,000	\$0	\$32,282,731

Table 17: FFY 2020 Transit Project Information

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Project Number	Agency	Line Item	Project Description	Carry Over	Federal Funds	State Funds	TDC	Local Funds	Total
RTD0006924	PVTA	119202	Purchase Bus Shelters, benches, trash receptacles,etc.	2019 - \$77,424	\$77,424	\$19,356	\$0	\$0	\$96,780
RTD0006925	PVTA	119208	Purchases signage and lighting	2019 - \$20,000	\$20,000	\$5,000	\$0	\$0	\$25,000
RTD0006926	PVTA	119206	Purchase bicycle Equipment for shelters and buses	2019 - \$5,600	\$5,600	\$1,400	\$0	\$0	\$7,000
RTD0006927	PVTA	114402	Environmental Compliance	2019 - \$60,000	\$60,000	\$15,000	\$0	\$0	\$75,000
RTD0006928	PVTA	442301	Planning Services - Long Term System	2019 - \$192,000	\$192,000	\$48,000	\$0	\$0	\$240,000
RTD0006929	PVTA	117C00	ADA Service subsidy	2019 - \$1,287,796	\$1,287,796	\$321,949	\$0	\$0	\$1,609,745
RTD0006930	PVTA	117A00	Preventive Maintenance	2019 - \$5,224,204	\$5,224,204	\$1,306,051	\$0	\$0	\$6,530,255
RTD0006934	PVTA	111201	Buy Replacement 40' Diesel Bus (12)	2019 - \$1,918,610	\$1,918,610	\$2,063,947	\$0	\$0	\$6,879,823
RTD0006953	PVTA	114220	Information Technology Systems	2019 - \$1,729,634	\$1,729,634	\$432,409	\$0	\$0	\$2,162,043
				-	\$10,515,268	\$4,213,112	\$0	\$0	\$17,625,646
5339									
Project Number	Agency	Line Item	Project Description	Carry Over	Federal Funds	State Funds	TDC	Local Funds	Total
RTD0006101	PVTA	111202	Buy Replacement 35" Bus (13)	2019 - \$2,615,863; 2019 - \$885,729	\$885,729	\$1,327,608	\$0	\$0	\$7,377,789
				-	\$885,729	\$1,327,608	\$0	\$0	\$7,377,789
Other NonFe	ederal								
Project Number	Agency	Line Item	Project Description	Carry Over	Federal Funds	State Funds	TDC	Local Funds	Total
RTD0006935	PVTA	114411	Replace support vehicle (2)		\$0	\$150,000	\$0	\$0	\$150,000
RTD0006936	PVTA	114406	Purchase & Replace Shop Equipment		\$0	\$110,000	\$0	\$0	\$110,000
RTD0006954	PVTA	114402	Convert SATCO Maintenenance Facility to Paratransit Operations, Year 2		\$0	\$1,900,000	\$0	\$0	\$1,900,000
RTD0007289	PVTA	114211	2 Replacement supervisory vehicles (2)		\$0	\$50,000	\$0	\$0	\$50,000

Table 17: FFY 2020 Transit Project Information (Continued)

RTD0005869	PVTA	114403	Rehab Northampton Maint Facility,	\$0	\$50,000	\$0	\$0	\$50,000
RTD0006097	PVTA	114402	Year 1 Bus Wash System Replacement -Northampton Maintenance Facility	\$0	\$90,000	\$0	\$0	\$90,000
				\$0	\$2,350,000	\$0	\$0	\$2,350,000
				11,400,997	7,890,720	0	0	27,353,435

Table 18: FFY 2021 Transit Project Information

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Project Number	Agency	Line Item	Project Description	Carry Over	Federal Funds	State Funds	TDC	Local Funds	Tota
RTD0006942	PVTA	119402	Bus Shelters, Benches, Trash	2020 - \$82,969	\$82,969	\$20,742	\$0	\$0	\$103,711
			Recepticles						
RTD0006943	PVTA	119408	Bus Stop Signage and Lighting	2020 - \$16,000	\$16,000	\$4,000	\$0	\$0	\$20,000
RTD0006944	PVTA	119406	Bicyle access equipment for buses and shelters	2020 - \$5,600	\$5,600	\$1,400	\$0	\$0	\$7,000
RTD0006945	PVTA	116202	Information Technology Systems	2020 - \$2,338,688	\$2,338,688	\$584,672	\$0	\$0	\$2,923,360
RTD0006946	PVTA	440000	PLANNING	2020 - \$196,000	\$196,000	\$49,000	\$0	\$0	\$245,000
RTD0006947	PVTA	300900	ADA OPERATING ASSISTANCE	2020 - \$1,307,113	\$1,307,113	\$326,778	\$0	\$0	\$1,633,891
RTD0006948	PVTA	117A00	PREVENTIVE MAINTENANCE	2020 - \$5,380,930	\$5,380,930	\$1,345,233	\$0	\$0	\$6,726,163
RTD0007291	PVTA	111201	Buy Replacement 35-FT Buses (16)	2020 - \$2,285,222	\$2,285,222	\$4,676,383	\$0	\$0	\$9,352,766
				-	\$11,612,522	\$7,008,208	\$0	\$0	\$21,011,891
5339									
Project	Agency	Line	Project Description	Carry Over	Federal	State	TDC	Local	Total
-		Item		,	Funds	Funds		Funds	
Number	PVTA		Buy Replacement 40-FT Buses (17)	2020 - \$1,458,609; 2020 - \$885,729			\$0		\$10,038,808
Number RTD0006080		ltem		2020 - \$1,458,609;	Funds	Funds		Funds	
Number	PVTA	ltem		2020 - \$1,458,609;	Funds \$885,729	Funds \$5,019,404	\$0	Funds \$0	\$10,038,808
Number RTD0006080	PVTA	ltem		2020 - \$1,458,609;	Funds \$885,729	Funds \$5,019,404	\$0	Funds \$0	\$10,038,808
Aumber RTD0006080 Dther NonFe Project	PVTA deral	Item 111202 Line	Buy Replacement 40-FT Buses (17)	2020 - \$1,458,609; 2020 - \$885,729	Funds \$885,729 \$885,729 Federal	Funds \$5,019,404 \$5,019,404 State	\$0 \$0	Funds \$0 \$0 Local	\$10,038,808 \$10,038,808
Iumber TD0006080 Dther NonFe Project Iumber TD0006939	PVTA deral Agency	Item 111202 Line Item	Buy Replacement 40-FT Buses (17) Project Description	2020 - \$1,458,609; 2020 - \$885,729	Funds \$885,729 \$885,729 Federal Funds	Funds \$5,019,404 \$5,019,404 State Funds	\$0 \$0 TDC	Funds \$0 \$0 Local Funds	\$10,038,808 \$10,038,808 Tota \$50,000
Dither NonFe Toject TD0006939 TD0006940	PVTA deral Agency PVTA	Item 111202 Line Item 114411	Buy Replacement 40-FT Buses (17) Project Description Replace Supervisory Vehicles (2)	2020 - \$1,458,609; 2020 - \$885,729	Funds \$885,729 \$885,729 Federal Funds \$0	Funds \$5,019,404 \$5,019,404 \$5,019,404 State Funds \$50,000	\$0 \$0 TDC \$0	Funds \$0 \$0 Local Funds \$0	\$10,038,808 \$10,038,808 Tota \$50,000 \$110,000
Number RTD0006080 Other NonFe Project Number	PVTA deral Agency PVTA PVTA	Item 111202 Line Item 114411 114406	Buy Replacement 40-FT Buses (17) Project Description Replace Supervisory Vehicles (2) Purchase/Replace Shop Equipment	2020 - \$1,458,609; 2020 - \$885,729	Funds \$885,729 \$885,729 Federal Funds \$0 \$0	Funds \$5,019,404 \$5,019,404 \$50,004 \$50,000 \$110,000	\$0 \$0 TDC \$0 \$0	Funds \$0 \$0 Local Funds \$0 \$0	\$10,038,808 \$10,038,808 Total

Table 18: FFY 2022 Transit Project Information

Project Number	Agency	Line Item	Project Description	Carry Over	Federal Funds	State Funds	TDC	Local Funds	Total
RTD0006958	PVTA	111202	Replace 35' Buses (10)	2021 - \$989,313	\$989,313	\$1,204,169	\$0	\$0	\$6,020,843
RTD0006964	PVTA	119402	Purchase Shelters and shelter accessories	2021 - \$82,969	\$82,969	\$20,742	\$0	\$0	\$103,711
RTD0006965	PVTA	119408	Signage & Lighting	2021 - \$16,000	\$16,000	\$4,000	\$0	\$0	\$20,000
RTD0006966	PVTA	119406	Bike Access for shelters and Buses	2021 - \$5,600	\$5,600	\$1,400	\$0	\$0	\$7,000
RTD0006967	PVTA	116202	Information Technology Systems	2021 - \$2,521,702	\$2,521,702	\$630,425	\$0	\$0	\$3,152,127
RTD0006968	PVTA	117A00	Preventive Maintenance	2021 - \$5,542,358	\$5,542,358	\$1,385,590	\$0	\$0	\$6,927,948
RTD0006969	PVTA	117C00	NON FIXED ROUTE ADA PARA SERV	2021 - \$1,307,113	\$1,307,113	\$326,778	\$ 0	\$0	\$1,633,891
RTD0006970	PVTA	442301	LONGTERM TRANS PLAN - SYSTEM LEVEL	2021 - \$196,000	\$196,000	\$49,000	\$0	\$0	\$245,000
RTD0006957	PVTA	111201	Purchase 40' Replacement Buses (15)	2021 - \$2,410,075; 2021 - \$888,729	\$2,410,075	\$1,824,701	\$0	\$0	\$9,123,505
					\$13,071,130	\$5,446,805	\$0	\$0	\$27,234,025
Other NonFe	ederal								
Project Number	Agency	Line Item	Project Description	Carry Over	Federal Funds	State Funds	TDC	Local Funds	Total
RTD0006960	PVTA	114211	Purchase replacement support vehicles (3)		\$0	\$148,000	\$0	\$0	\$148,000
RTD0006961	PVTA	114411	Replace Supervisory Vehicles (4)		\$0	\$25,000	\$0	\$0	\$25,000
RTD0006963	PVTA	114402	Environmental Compliance		\$0	\$75,000	\$0	\$0	\$75,000
RTD0006971	PVTA	111215	Purchase Replacement Vans (24)		\$0	\$1,783,933	\$0	\$0	\$1,783,933
				-	\$0	\$2,031,933	\$0	\$0	\$2,031,933
					13,071,130	7,478,738	0	0	29,265,958

Table 19: FFY 2023 Transit Project Information

Project Number	Agency	Line Item	Project Description	Carry Over	Federal Funds	State Funds	TDC	Local Funds	Total
RTD0007293	PVTA	111201	Purchase 40' Replacement Buses (17)	2022 - \$1,530,820; 2022 - \$902,060	\$1,530,820	\$5,325,086	\$0	\$0	\$10,650,172
RTD0007297	PVTA	119302	Purchase Bus Shelters, benches, trash receptacles,etc.	2022 - \$84,538	\$84,538	\$21,134	\$0	\$0	\$105,672
RTD0007299	PVTA	119306	Purchase and replace bicycle equipment for shelters and buses	2022 - \$5,600	\$5,600	\$1,400	\$0	\$0	\$7,000
RTD0007298	PVTA	119308	Purchase & Replace signage and lighting	2022 - \$16,000	\$16,000	\$4,000	\$0	\$0	\$20,000
RTD0007300	PVTA	116220	Information Technology Systems	2022 - \$1,914,305	\$1,914,305	\$478,576	\$0	\$0	\$2,392,881
RTD0007305	PVTA	442400	Transporation planning	2022 - \$200,000	\$200,000	\$50,000	\$0	\$0	\$250,000
RTD0007306	PVTA	117C00	ADA service subsidy	2022 - \$1,326,720	\$1,326,720	\$331,680	\$0	\$0	\$1,658,400
RTD0007307	PVTA	117A00	Preventive Maintenance	2022 - \$5,708,629	\$5,708,629	\$1,427,157	\$0	\$0	\$7,135,786
RTD0007295	PVTA	111202	Purchase 35' Replacement Buses (8)	2022 - \$2,480,587	\$2,480,587	\$2,480,587	\$0	\$0	\$4,961,174
					\$13,267,199	\$10,119,620	\$0	\$0	\$27,181,085
Other NonFe	ederal								
Project Number	Agency	Line Item	Project Description	Carry Over	Federal Funds	State Funds	TDC	Local Funds	Total
RTD0007296	PVTA	111402	REHAB/RENOVATE - Environmental Compliance		\$0	\$75,000	\$0	\$0	\$75,000
RTD0007301	PVTA	114402	Northampton Hydraulic Lift Project		\$0	\$750,000	\$0	\$0	\$750,000
RTD0007302	PVTA	114400	Renovate Holyoke ITC Canopy & Pavement		\$0	\$500,000	\$0	\$0	\$500,000
RTD0007342	PVTA	111215	Purchase Replacement Vans (9)		\$0	\$689,044	\$0	\$0	\$689,044
					\$0	\$2,014,044	\$ 0	\$0	\$2,014,044
					13,267,199	12,133,664	0	0	29,195,129

VII. 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 2017-2018 TIP projects are identified in table 22.

Table 22 Project Implementation

Year	Highway Project Description	SID	Funding	Programmed	Status
2017	PIONEER VALLEY REGIONAL BICYCLE SHARE (PHASE 1)	PV001	CMAQ	\$ 1,343,971	Construction
2017	HOLYOKE- IMPROVEMENTS TO LOWER WESTFIELD ROAD ON I-91 (INTERCHANGE 15)	606903	STP	\$ 1,700,004	Construction
2017	AMHERST- HADLEY- SIDEWALK & WHEELCHAIR RAMP CONSTRUCTION ON ROUTE 9	608023	STP, TAP	\$ 1,204,050	Construction
2017	SOUTHWICK- RECONSTRUCTION CONGAMOND ROAD (ROUTE 168), FROM COLLEGE HIGHWAY & ENDS 250 FEET SHORT OF STATE LINE (1.2 MILES)	604033	STP, CMAQ	\$ 7,172,979	Advertised
2017	LUDLOW- RECONSTRUCTION OF CENTER STREET (ROUTE 21), FROM 35' WEST OF BEACHSIDE DRIVE WESTERLY TO GAS LINE BESIDE MTA OVERPASS (3,500 FEET)	605011	STP, HSIP, TAP	\$ 5,845,350	Advertised
2017	GOSHEN- RESURFACING & RELATED WORK ON WEST STREET	605150	STP	\$ 3,800,000	Advertised
2017	AGAWAM- WEST SPRINGFIELD- BRIDGE REPLACEMENT, A-05- 002=W-21-014, ROUTE 147 OVER THE WESTFIELD RIVER & INTERSECTION & SIGNAL IMPROVEMENTS @ 3 LOCATIONS	605384	NHPP	\$ 23,173,893	Advertised
2017	AMHERST- BRIDGE REPLACEMENT, A-08-008, MILL STREET OVER MILL RIVER	607528	NHPP	\$ 2,075,400	Construction
2017	CHESTERFIELD- BRIDGE REPLACEMENT, C-12-009, IRELAND STREET OVER WEST BRANCH BRONSON BROOK	607549	NHPP	\$ 3,341,040	Construction
2017	CHICOPEE- SPRINGFIELD- INTERSTATE MAINTENANCE & RELATED WORK ON I-291	608211	IM	\$ 4,118,400	Construction
2017	AGAWAM- CHICOPEE- HOLYOKE- WEST SPRINGFIELD- STORMWATER IMPROVEMENTS ALONG I-91, I-391, ROUTE 57 AND ROUTE 5	608192	IM	\$ 1,276,062	Construction

Year	Highway Project Description	SID	Status	Programmed	Status
2018	AGAWAM- INTERSECTION IMPROVEMENTS AT ROUTE 187 & ROUTE 57	604203	STP	\$ 3,288,000	Not Advertised
2018	NORTHAMPTON- IMPROVEMENTS ON I-91 INTERCHANGE 19 AT ROUTE 9 AND DAMON ROAD	604597	NFP	\$ 7,438,490	Not Advertised
2018	WESTFIELD- ROUTE 20 ACCESS IMPROVEMENTS ON COURT STREET & WESTERN AVENUE, FROM LLEWELLYN DRIVE EASTERLY TO LLOYDS HILL ROAD (PHASE I)	603449	STP	\$ 3,630,245	Not Advertised
2018	SOUTHAMPTON- RECONSTRUCTION OF GLENDALE ROAD (PHASE II) FROM COLLEGE HIGHWAY (RT 10) NORTHWESTERLY TO POMEROY MEADOW RD (3,801 FEET)	604738	STP	\$ 2,710,700	Not Advertised
2018	HOLYOKE- RESURFACING & RELATED WORK ON HERITAGE STREET, FRONT STREET & DWIGHT STREET FROM MAPLE ST TO THE 1ST LEVEL CANAL (.54 MILES)	607256	STP	\$ 2,283,489	Not Advertised
2018	HOLLAND- RESURFACING & RELATED WORK ON BRIMFIELD ROAD, FROM THE BRIMFIELD/HOLLAND T.L. TO WALES ROAD (1.4 MILES - PHASE I)	604962	STP	\$ 1,409,592	Not Advertised
2018	AMHERST- HADLEY- NORTHAMPTON- TRANSIT SIGNAL PRIORITY UPGRADES AT VARIOUS LOCATIONS	608786	ТАР	\$ 792,630	Not Advertised
2018	AMHERST- HADLEY- NORTHAMPTON- TRANSIT SIGNAL PRIORITY UPGRADES AT VARIOUS LOCATIONS	608786	STP	\$ 407,369	Not Advertised
2018	PVTA P21 Express Service Between Union Station in Springfield and the Holyoke Transportation Center	PV0005	CMAQ	\$ 500,000	Not Advertised
2018	WESTFIELD- ROUTE 20 ACCESS IMPROVEMENTS ON COURT STREET & WESTERN AVENUE, FROM LLEWELLYN DRIVE EASTERLY TO LLOYDS HILL ROAD (PHASE I)	603449	HPP	\$ 2,503,688	Not Advertised
2018	NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I-91 OVER HOCKANUM ROAD	606552	NHPP-On	\$ 10,000,000	Not Advertised
2018	HOLYOKE- BRIDGE REPLACEMENT, H-21-018, LYMAN STREET OVER FIRST LEVEL CANAL	600936	NHPP-On	\$ 11,762,603	Not Advertised

2018	PALMER - BRIDGE REHABIILITATION, P-01-005, MAIN STREET OVER QUABOAG RIVER	608870	NHPP-Off	\$ 3,000,000	Not Advertised
2018	CUMMINGTON- BRIDGE MAINTENANCE, C-21-025, ROUTE 9 OVER THE WESTFIELD RIVER	607939	NHPP-On	\$ 312,000	Not Advertised
2018	HOLYOKE- STRUCTURAL STEEL BEAM CLEANING AND PAINTING, H- 21-048, I-91 NB & SB OVER WESTFIELD ROAD	607959	NHPP-On	\$ 1,564,622	Not Advertised
2018	SPRINGFIELD- NORTH END PEDESTRIAN PATH CONSTRUCTION (UNDER THE CONNECTICUT RIVER RAILROAD), BETWEEN PLAINFIELD STREET AND BIRNIE AVENUE, INCLUDES CONSTRUCTION OF NEW UNDERPASS S-24-044	607589	TAP	\$ 6,640,845	Not Advertised
2018	SPRINGFIELD- NORTH END PEDESTRIAN PATH CONSTRUCTION (UNDER THE CONNECTICUT RIVER RAILROAD), BETWEEN PLAINFIELD STREET AND BIRNIE AVENUE, INCLUDES CONSTRUCTION OF NEW UNDERPASS S-24-044	607589	CMAQ	\$ 421,266	Not Advertised

VIII. Air Quality Conformity Information

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 2019 - 2023 TIP is not required for ozone. Conformity determination is however required for carbon monoxide. Further details and background information are provided below:

Carbon Monoxide

A new transportation conformity determinations for carbon monoxide is required for the 2019 - 2023 TIP in Central Massachusetts MPO (Worcester); Pioneer Valley MPO (Springfield); Boston MPO (Waltham and Boston Area); Northern Middlesex MPO (Lowell).

The Boston Carbon Monoxide Area (nine communities - Boston, Cambridge, Chelsea, Everett, Malden, Medford, Quincy, Revere, and Somerville) has a maintenance plan in place with a SIP-Approved 2010 motor vehicle carbon monoxide emission budget in place requiring a regional emission analysis for any carbon monoxide conformity determination of the Boston CO Area.

Limited Maintenance Plans are in place for Worcester; Springfield; Waltham and Lowell, hence regional emissions analyses are assumed to satisfy the budget test in these areas.

<u>Ozone</u>

As of July 20, 2013, Dukes County, Massachusetts [Dukes County Wampanoag Tribe of Gay Head (Aquinnah) of Massachusetts] is nonattainment, classification marginal, for the 2008 8-Hour Ozone National Ambient Air Quality Standard (NAAQS), also known as the 2008 ozone standard. However, Interagency Transportation Conformity Consultation has determined Dukes County, Massachusetts to be an isolated rural nonattainment area for the 2008 8-hour ozone standard. An ozone conformity determination is required when the isolated rural area (Dukes County) includes non-exempt projects in its STIP/TIP and TP. See 40 CFR Section 109(g) for conformity in isolated rural nonattainment and maintenance areas.

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. 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.

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.

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.

Legislative and Regulatory Background

The 1970 Clean Air Act defined a one-hour national ambient air quality standard (NAAQS) for groundlevel 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 classified as unclassifiable/attainment. Therefore, conformity for ozone in the Pioneer Valley MPO does not require conformity under the current 2008 standard and the MPO does not need to perform a conformity determination for ozone on the program.

IX. 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 2019 – 2022 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.

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GreenDOT Policy and Metropolitan Planning Organizations

The Commonwealth's thirteen metropolitan planning organizations (MPOs) are integrally involved in helping to achieve the GreenDOT goals and supporting the GHG reductions mandated under the GWSA. The MPOs are most directly involved in helping to achieve the GHG emissions reductions under the second goal – to promote healthy transportation modes through prioritizing and programming an appropriate balance of roadway, transit, bicycle and pedestrian investments – and assist in the third goal by supporting smart growth development patterns through the creation of a balanced multi-modal transportation system. This will be realized through the transportation goals and policies espoused in the 2017 Regional Transportation Plans (RTPs), the major projects planned in the RTPs, and the mix of new transportation projects that are programmed and implemented through the TIPs. The GHG tracking and evaluation projects, and also to use GHG impacts as a criterion in prioritizing transportation projects.

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 2035 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.
- Quantifed 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 2019 – 2022 TIP

The following table (table 23) summarize the calculated quantitative and assumed qualitative impacts of the projects included in the regional FFY 2019 - 2022 TIP.

Table 23 Greenhouse Gas Summary Tables FFY 2019

► Section 1A / Regionally Prioritized Projects

Regionally Pri	oritized Projects					
608411	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT BAY STREET AND BERKSHIRE AVENUE	\$ 1,000,000	Quantified	222,751	Quantified Decrease in Emissions from Traffic Operational Improvement	
608411	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT BAY STREET AND BERKSHIRE AVENUE	\$ 886,880				
600513	AGAWAM- RECONSTRUCTION OF ROUTE 187 FROM 425 FT. SOUTH OF S. WESTFIELD STREET TO ROUTE 57 (0.3 MILES - PHASE I)	\$ 2,622,622	Quantified	414	Quantified Decrease in Emissions from Complete Streets Project	
608412	BELCHERTOWN- IMPROVEMENTS & RELATED WORK ON ROUTES 202 & 21, FROM TURKEY HILL ROAD TO SOUTH MAIN STREET (1.2 MILES)	\$ 5,143,503	Quantified	1,107	Quantified Decrease in Emissions from Complete Streets Project	
607987	WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH STREET	\$ 1,000,000	Quantified	995	Quantified Decrease in Emissions from Complete Streets Project	To be quantified for traffic operation improvements
607987	WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH STREET	\$ 1,000,000				
607987	WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH STREET	\$ 475,087				
604962	HOLLAND- RESURFACING & RELATED WORK ON BRIMFIELD ROAD, FROM THE BRIMFIELD/HOLLAND T.L. TO WALES ROAD (1.4 MILES - PHASE I)	\$ 2,919,446	Quantified	317	Quantified Decrease in Emissions from Complete Streets Project	
606912	WORTHINGTON- RECONSTRUCTION & RELATED WORK ON ROUTE 143 (PHASE I)	\$ 8,900,000	Quantified	345	Quantified Decrease in Emissions from Complete Streets Project	
PV0001	P21 Express - Year 2 Operating	\$ 500,000	Quantified	24,671	Quantified Decrease in Emissions from New/Additional Transit Service	
		Qua	ntified Impact >	250,600		

Table 23 Transit Greenhouse Gas Summary Tables FFY 2019(Continued)

► Section 2A	/ State Prioritized Reliability Projects					
► Bridge Brogr	am / Inspections					
P Bridge Progra	Bridge Inspection	\$-	Qualitative	1	No assumed impact/negligible impact on emissions	
	Didge inspection		antified Impact ►	0	no assumed impactingligible impact on onitistions	
			•	1	3	
► Bridge Progra	am / Off-System					
608429	MIDDLEFIELD- BRIDGE SUPERSTRUCTURE	\$ 970,80	7 Qualitative		No assumed impact/negligible impact on emissions	
	REPLACEMENT, M-19-010, CHESTER ROAD					
	OVER SMART BROOK		uantified Impact ►	0		
				0		
► Bridge Progra	am / On-System (NHS)					
0	Bridge Program / On-System (NHS)	\$-	l			
		Qı	uantified Impact 🕨	0		
	am / On-System (Non-NHS)			1		
0	Bridge Program / On-System (Non-NHS)	\$ -	uantified Impact ►	0		
				0		
► Bridge Progra	am / Systematic Maintenance					
0	Bridge Program / Systematic Maintenance	\$-	Qualitative			
		Qı	uantified Impact 🕨	0		
► Interstate Pa		1.0		1		
607560	CHICOPEE- HOLYOKE- INTERSTATE MAINTENANCE AND RELATED WORK ON I-391	\$ 11,309,87	5 Qualitative		No assumed impact/negligible impact on emissions	
	MAINTENANCE AND RELATED WORK ON 1-391	.i 	uantified Impact ►	0		
		~			3	
► Non-Interstat	e Pavement					
607474	GRANBY- SOUTH HADLEY- RESURFACING AND	\$ 5,752,500	0 Qualitative		Qualitative Decrease in Emissions	
	RELATED WORK ON ROTUE 202					
		Qu	uantified Impact ►	0		
Roadway Im	provomonte					
0	Roadway Improvements	- \$	1	1	1	1
-	······································	Ť				
		Qı	uantified Impact 🕨	0		***
				,	•	
Safety Impro			-			
607736	CHICOPEE- SIGNAL & INTERSECTION	\$ 6,001,38	7 Qualitative		Qualitative Decrease in Emissions	To be quantified
	IMPROVEMENTS AT 13 INTERSECTIONS ALONG ROUTE 33 (MEMORIAL DRIVE), FROM FULLER					
	ROAD TO ABBEY STREET					
608600	CHICOPEE- WEST SPRINGFIELD- HIGHWAY	\$ 4,300,759	9 Qualitative		No assumed impact/negligible impact on emissions	
	LIGHTING UPGRADE ON I-91					
		Qı	uantified Impact 🕨	0		

Table 23 Transit Greenhouse Gas Summary Tables FFY 2019 (Continued)

► Section 2B	/ State Prioritized Modernization Projects						
ADA Retrofit	S						
0	ADA Retrofits	\$	-				
				antified Impact 🕨	0		
					1	1	
► Intersection	Improvements						
0	Intersection Improvements	\$	-	1	1	4	
v		Ŷ					
******			Qua	antified Impact ►	0		
			Que	intened inspector		1	
▶ Intelligent Tr	ansportation Systems						
0	Intelligent Transportation Systems	\$	-	Qualitative	1	Y	
v	intelligent nunoponation oystellis	Ŷ		Quantative			
		i	Qua	antified Impact ►	0		
			Que			1	
► Roadway Ree	construction						
608790	HOLYOKE- IMPROVEMENTS AT KELLY	\$	1,264,935	Qualitative	1	Qualitative Decrease in Emissions	
	COMMUNITY SCHOOL (SRTS)	Ť	1,201,000	Quantanto			
606555	NORTHAMPTON- ROUNDABOUT	\$	4,109,480	Qualitative		No assumed impact/negligible impact on emissions	
	CONSTRUCTION AT INTERSECTION ROUTES	Ť	.,,				
	5/10 (NORTH KING STREET) & HATFIELD						
	STREET						
			Qua	antified Impact >	0	•	
					1	1	
► Section 2C	/ State Prioritized Expansion Projects						
Bicycles and	Pedestrians						
603783	WESTFIELD- COLUMBIA GREENWAY RAIL TRAIL	\$	6,532,895	Quantified	4,458	Quantified Decrease in Emissions from Bicycle and	
	CONSTRUCTION (CENTER DOWNTOWN					Pedestrian Infrastructure	
	SECTION), FROM EAST SILVER STREET TO						
	COWLES COURT, INCLUDES W-25,014, W-25-						
	015, W-25-016, W-25-017, W-25-018 & W-25-019						
			Qua	antified Impact 🕨	4,458		
► Capacity		~~~~~					
0	Capacity	\$	-				
			Qua	antified Impact 🕨	0		
► Section 3 /	Planning / Adjustments / Pass-throughs						
	justments / Pass-throughs						
0	ABP GANS Repayment	\$	-	1	-		
			Qua	antified Impact ►	0		
► Section 2A	/ Non-Federal Projects						
***************************************	y Aided Projects				·		
0	Non-Federal Aid	\$	-				
0	Non-Federal Aid	\$	-				
		Í		1			
			Qua	antified Impact >	0		
2019 X	Region MPO GHG Trackin	a S	Summa	rv	Total Quantified		
		9		· · ·	Impact V		
			Qua	antified Impact 🕨	255,058	3	

Project ID ▼	MassDOT Project Description ▼	Total Programmed Funds ▼	GHG Analysis Type ▼	GHG CO₂ Impact (kg/yr)▼	GHG Impact Description ▼	Additional Description ▼
► Section 1A / I ► Regionally Prio	Regionally Prioritized Projects					
607773	WESTFIELD- IMPROVEMENTS & RELATED WORK ON ROUTE 20, COURT STEET & WESTERN AVENUE, LLOYDS HILL ROAD TO HIGH STREET/MILL STREET INTERSECTION (PHASE II)		Quantified	1,290	Quantified Decrease in Emissions from Complete Streets Project	
607773	WESTFIELD- IMPROVEMENTS & RELATED WORK ON ROUTE 20, COURT STEET & WESTERN AVENUE, LLOYDS HILL ROAD TO HIGH STREET/MILL STREET INTERSECTION (PHASE II)					
607773	WESTFIELD- IMPROVEMENTS & RELATED WORK ON ROUTE 20, COURT STEET & WESTERN AVENUE, LLOYDS HILL ROAD TO HIGH STREET/MILL STREET INTERSECTION (PHASE II)					
607773	WESTFIELD- IMPROVEMENTS & RELATED WORK ON ROUTE 20, COURT STEET & WESTERN AVENUE, LLOYDS HILL ROAD TO HIGH STREET/MILL STREET INTERSECTION (PHASE II)					
604434	CHICOPEE- RECONSTRUCTION & RELATED WORK ON FULLER ROAD, FROM MEMORIAL DR (RTE 33) TO SHAWINIGAN DR (2.0 MILES)	\$ 5,907,953	Quantified	205,229	Quantified Decrease in Emissions from Traffic Operational Improvement	
604434	CHICOPEE- RECONSTRUCTION & RELATED WORK ON FULLER ROAD, FROM MEMORIAL DR (RTE 33) TO SHAWINIGAN DR (2.0 MILES)	\$ 2,000,000				
608236	NORTHAMPTON- RECONSTRUCTION OF DAMON ROAD, FROM ROUTE 9 TO ROUTE 5, INCLUDES DRAINAGE SYSTEM REPAIRS & SLOPE STABILIZATION AT THE NORWOTTUCK RAIL TRAIL		Quantified	1,983	Quantified Decrease in Emissions from Complete Streets Project	
0	0	\$-	antified Impact ►	208,502		

Table 23 Transit Greenhouse Gas Summary Tables FFY 2020

Table 23 Transit Greenhouse Gas Summary Tables FFY 2020 (Continued)

► Section 1B /	Earmark or Discretionary Grant Funded Projec	ts				
► Other Federal	Aid					
0	Other Federal Aid	\$-				
		Qua	antified Impact ►	0		<u>8</u>
► Section 2A /	State Prioritized Reliability Projects					
b Brides Brown						
► Bridge Progra 0	m / Inspections Bridge Inspection	\$ -	Qualitative		No assumed impact/negligible impact on	
•			antified Impact ►	0	emissions	
		qui				
Bridge Progra						
608631	WESTHAMPTON- BRIDGE REPLACEMENT, W-27- 005, KINGS HIGHWAY OVER N BRANCH MANHAN RIVER	\$ 3,072,000	Qualitative		No assumed impact/negligible impact on emissions	
		Qua	antified Impact ►	0		
	am / On-System (NHS)					
400103	WESTFIELD- BRIDGE REPLACEMENT, W-25-006, ROUTE 10/202 (SOUTHWICK ROAD) OVER THE LITTLE RIVER	\$ 12,732,554	Qualitative		Qualitative Decrease in Emissions	
606552	NORTHAMPTON- BRIDGE RECONSTRUCTION, N- 19-059, I-91 OVER US 5/BMRR & N-19-060, I-91 OVER HOCKANUM ROAD	- \$ 11,378,353	Qualitative		Qualitative Decrease in Emissions	
*******		Qua	antified Impact >	0	•	8
					·	
Bridge Progra 0	m / On-System (Non-NHS) Bridge Program / On-System (Non-NHS)	\$-	1		•	
			antified Impact ►	0		8
				u	и 	
Bridge Progra 0	m / Systematic Maintenance Bridge Program / Systematic Maintenance	\$ -	Qualitative		No assumed impact/negligible impact on	
U	Bridge Program / Systematic Maintenance	р -	Qualitative		emissions	
		Qua	antified Impact ►	0		2
► Interstate Pav	vement					
0	Interstate Pavement	\$-	Qualitative		No assumed impact/negligible impact on emissions	
		Qua	antified Impact ►	0		
► Non-Interstate	e Pavement					
608473	SOUTH HADLEY- RESURFACING AND RELATED WORK ON ROUTE 116	\$ 2,208,960	Qualitative		Qualitative Decrease in Emissions	
604209	HOLYOKE- WEST SPRINGFIELD- REHABILITATION OF ROUTE 5	\$ 13,953,264	Qualitative		Qualitative Decrease in Emissions	
		Qua	antified Impact ►	0		
Roadway Imp						
0	Roadway Improvements	\$-				
		Qua	antified Impact ►	0	1	
► Safety Improv	vements					
608575	CHICOPEE TO HOLYOKE- GUIDE AND TRAFFIC SIGN REPLACEMENT ON I-391	\$ 542,872	Qualitative		No assumed impact/negligible impact on emissions	
******		Qua	antified Impact 🕨	0		•••••••••••••••••••••••••••••••••••••••

Table 23 Transit Greenhouse Gas Summary Tables FFY 2020 (Continued)

► Section 2B	/ State Prioritized Modernization Projects						
ADA Retrofi							
0	ADA Retrofits	\$	-				
			Qua	ntified Impact ►	0		
► Intersection	Improvements						
0	Intersection Improvements	\$	-				
			Qua	ntified Impact ►	0		
► Intelligent Tr	ansportation Systems						
0	Intelligent Transportation Systems	\$	-		•••••••••••••••••••••••••••••••••••••••		
			Qua	ntified Impact ►	0		
► Roadway Re	construction						
0	Roadway Reconstruction	\$	-				
			Qua	ntified Impact ►	0		
Section 20	/ State Prioritized Expansion Projects						
P 0000001120							
Bicycles and	d Pedestrians						
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	\$	3,247,643	Quantified	73,253	Quantified Decrease in Emissions from Bicycle and Pedestrian Infrastructure	
			Qua	ntified Impact ►	73,253		J
► Capacity	10						
0	Capacity	\$ \$	-				
<u> </u>	Capacity	ĮΦ		ntified Impact ►	0		1
► Section 3 /	Planning / Adjustments / Pass-throughs						
	djustments / Pass-throughs						*
0	ABP GANS Repayment	\$	-				
			Qua	ntified Impact ►	0	The second se	
Section 24	/ Non-Federal Projects						
► Section 2A							
▶ Non-Federal	ly Aided Projects						
0	Non-Federal Aid	\$	-				
0	Non-Federal Aid	\$	-				
		l	Qua	ntified Impact ►	0		
2020 X	Region MPO GHG Trackin	na S	umma	r\/	Total Quantified		
2020 ~		ig S	unna	· y	Impact ▼		
			Qua	ntified Impact 🕨	281,755		

Table 23 Transit Greenhouse Gas Summary Ta	ables FFY 2021
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 ▶ Regionally Prioritized Pri	IGFIELD- INTERSECTION IMPROVEMENTS RKSHIRE AVENUE, COTTAGE AND HARVEY ETS IGFIELD- INTERSECTION IMPROVEMENTS RKSHIRE AVENUE, COTTAGE AND HARVEY	\$ 1,000,000) Qualitative		Qualitative Decrease in Emissions Qualitative Decrease in Emissions	To be quantified
608718 SPRINC AT BER STREE 608718 SPRINC AT BER STREE 608782 SPRINC AT COT ROBBIN 608084 AMHER ON ROU TO SOL 608084 AMHER ON ROU TO SOL 607502 NORTH IMPROV STREE 607502 NORTH	IGFIELD- INTERSECTION IMPROVEMENTS RKSHIRE AVENUE, COTTAGE AND HARVEY ETS IGFIELD- INTERSECTION IMPROVEMENTS RKSHIRE AVENUE, COTTAGE AND HARVEY ETS IGFIELD- INTERSECTION IMPROVEMENTS ITTAGE STREET, INDUSTRY AVENUE AND INS ROAD RST- IMPROVEMENTS & RELATED WORK	\$ 1,000,000 \$ 1,944,000) Qualitative			
AT BER STREE 608782 SPRINC AT COT ROBBIN 608084 AMHER ON ROU TO SOL 608084 AMHER ON ROU TO SOL 607502 NORTH IMPROV STREE 607502 NORTH	RKSHIRE AVENUE, COTTAGE AND HARVEY ETS IGFIELD- INTERSECTION IMPROVEMENTS ITTAGE STREET, INDUSTRY AVENUE AND INS ROAD RST- IMPROVEMENTS & RELATED WORK	\$ 1,944,000) Qualitative		Qualitative Decrease in Emissions	To be quantified
608084 AMHER ON ROL TO SOL 608084 AMHER ON ROL TO SOL 607502 NORTH MPROV STREE 607502 NORTH MPROV STREE 507502 NORTH	NTTAGE STREET, INDUSTRY AVENUE AND INS ROAD RST- IMPROVEMENTS & RELATED WORK	• • • • • •			Qualitative Decrease in Emissions	To be quantified
608084 AMHER ON ROU TO SOL 607502 NORTH IMPROV STREE 607502 NORTH IMPROV STREE		\$ 3,121,863				
607502 NORTH MPROV STREE 607502 NORTH MPROV STREE 607502 NORTH MPROV STREE	OUTH PLEASANT STREET (0.8 MILES)		3 Quantified	3,109	Quantified Decrease in Emissions from Complete Streets Project	
IMPROV STREE STREE 607502 NORTH IMPROV STREE	RST- IMPROVEMENTS & RELATED WORK DUTES 9 & 116, FROM UNIVERSITY DRIVE DUTH PLEASANT STREET (0.8 MILES)	\$ 500,00	0			
IMPRO\ STREE	HAMPTON- INTERSECTION DVEMENTS AT KING STREET, NORTH ET & SUMMER STREET AND AT KING ET & FINN STREET	\$ 2,655,054	4 Qualitative		Qualitative Decrease in Emissions	
	HAMPTON- INTERSECTION DVEMENTS AT KING STREET, NORTH ET & SUMMER STREET AND AT KING ET & FINN STREET	\$ 1,000,000)			To be quantified
WORK	HAMPTON- IMPROVEMENTS AND RELATED (ON UNION STREET (ROUTE 141) FROM	\$ 2,201,643	3 Quantified	3,170	Quantified Decrease in Emissions from Complete Streets Project	
605032 HADLE FROMM STREE	ON AVENUE TO HIGH STREET (0.36 MILES)	\$ 12,652,410	0 Quantified	354	Quantified Decrease in Emissions from Complete Streets Project	

Table 23 Transit Greenhouse Gas Summary Tables FFY 2021 (Continued)

Section 2A	/ State Prioritized Reliability Projects			`	,	
► Bridge Progra	am / Inspections					
0	Bridge Inspection	\$-				
		Qu	antified Impact 🕨	0		****
► Bridge Progra	am / Off-System					
0	Bridge Program / Off-System	\$-	1	T	•	1
*****			antified Impact ►	0		
▶ Bridge Progra	am / On-System (NHS)					
608460	HADLEY- BRIDGE REPLACEMENT, H-01-005, BAY	\$ 5,647,995	Qualitative		No assumed impact/negligible impact on	
	ROAD (ROUTE 47) OVER THE FORT RIVER	• •,• • •,• •	quantative		emissions	
606552	NORTHAMPTON- BRIDGE RECONSTRUCTION, N- 19-059, I-91 OVER US 5/BMRR & N-19-060, I-91 OVER HOCKANUM ROAD	\$ 11,378,353	3 Qualitative		No assumed impact/negligible impact on emissions	
		Qu	antified Impact ►	0		
► Bridge Progra	am / On-System (Non-NHS)					
0	Bridge Program / On-System (Non-NHS)	\$-				
		Qu	antified Impact ►	0		
Bridge Brogr	am / Systematic Maintenance					
0	Bridge Program / Systematic Maintenance	\$-	Qualitative		•	
	Didge Hogian / Oysichate Mainchance		antified Impact ►	0		
► Interstate Par		0		*		
0	Interstate Pavement	\$-	Qualitative			
*****		ı Qu	antified Impact ►	0		
► Non-Interstat	e Pavement					
608487	WESTFIELD- RESURFACING AND RELATED WORK ON RTE 10 AND 202	\$ 2,676,240	Qualitative		Qualitative Decrease in Emissions	
608489	WILBRAHAM- RESURFACING AND RELATED WORK ON ROUTE 20	\$ 8,602,200	Qualitative		Qualitative Decrease in Emissions	
	WORK ON ROUTE 20	l Qu	antified Impact ►	0		
				•	×	
Roadway Imp		8 -			•	1
0	Roadway Improvements	\$-	Qualitative			
		Qu	antified Impact ►	0		
Safety Impro	vements					
0	Safety Improvements	\$-				
		Qu	antified Impact ►	0	1	**

Table 23 Transit Greenhouse Gas Summary Tables FFY 2021 (Continued)

N 0	D. / Ode to Deleviting of Mandematica Alexa Decisionte	-		•	,	
Section 2	B / State Prioritized Modernization Projects					
► ADA Retro	fits					
0	ADA Retrofits	\$	-			
		·····?	Quantified Impact ►	0		4
► Intersectio	n Improvements					
606450	HOLYOKE- TRAFFIC SIGNAL UPGRADES AT 15 INTERSECTIONS ALONG HIGH & MAPLE STREETS	\$ 4,450,0	00 Qualitative		Qualitative Decrease in Emissions	To be quantified
		(Quantified Impact ►	0		
► Intelligent 1	Fransportation Systems					
0	Intelligent Transportation Systems	\$	-			
		(Quantified Impact ►	0		
► Roadway R	Reconstruction					
0	Roadway Reconstruction	\$	-			
000000000000000000000000000000000000000		(Quantified Impact ►	0		
► Section 2	C / State Prioritized Expansion Projects					
	nd Pedestrians			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		•
608157	SPRINGFIELD- MCKNIGHT COMMUNITY TRAIL CONSTRUCTION, FROM ARMORY STREET TO HAYDEN AVENUE (1.5 MILES)	\$ 3,694,6	24 Quantified	45,830	Quantified Decrease in Emissions from Bicycle and Pedestrian Infrastructure	
000000000000000000000000000000000000000		(Quantified Impact ►	45,830		*
► Capacity						
0	Capacity	\$	-			
***************************************		(Quantified Impact ►	0		
► Section 3	/ Planning / Adjustments / Pass-throughs					
► Planning / /	Adjustments / Pass-throughs					
0	ABP GANS Repayment	\$	-			1
	p. El O. No Ropajinon		Quantified Impact ►	0		
Section 2	A / Non-Federal Projects					
► Non-Federa	ally Aided Projects					
0	Non-Federal Aid	\$	-			
			Quantified Impact ►	0		
2024 V	Basian MDO CHC Treaking			Total Quantified		
2021 X	Region MPO GHG Trackir	ig Summ	lary	Impact ▼		
		(Quantified Impact 🕨	52,463		

Table 23 Transit Greenhouse Gas Summary Tables FFY 2022

MassDOT Project ID ▼	MassDOT Project Description ▼	Total Programmed Funds ▼	GHG Analysis Type ▼	GHG CO₂ Impact (kg/yr)▼	GHG Impact Description ▼	Additional Description ▼
► Section 1A /	Regionally Prioritized Projects					
► Regionally Price	pritized Projects					
608374	WEST SPRINGFIELD- RECONSTRUCTION OF MEMORIAL AVENUE (ROUTE 147), FROM COLONY ROAD TO THE MEMORIAL AVENUE ROTARY (1.4 MILES)	\$ 7,390,199	Qualitative		Qualitative Decrease in Emissions	To be quantified
606895	GRANBY- IMPROVEMENTS @ 2 LOCATIONS ON ROUTE 202: SCHOOL STREET & FIVE CORNERS	\$ 1,866,866	Quantified	273	Quantified Decrease in Emissions from Complete Streets Project	
606895	GRANBY- IMPROVEMENTS @ 2 LOCATIONS ON ROUTE 202: SCHOOL STREET & FIVE CORNERS	\$ 1,000,000				
606156	HOLYOKE- RECONSTRUCTION OF I-91 INTERCHANGE 17 & ROUTE 141	\$ 3,429,583	Qualitative		Qualitative Decrease in Emissions	To be quantified
605032	HADLEY- RECONSTRUCTION ON ROUTE 9, FROM MIDDLE STREET TO MAPLE/SOUTH MAPLE STREET	\$ 10,652,954				
605032	HADLEY- RECONSTRUCTION ON ROUTE 9, FROM MIDDLE STREET TO MAPLE/SOUTH MAPLE STREET	\$ 500,000				
605032	HADLEY- RECONSTRUCTION ON ROUTE 9, FROM MIDDLE STREET TO MAPLE/SOUTH MAPLE STREET	\$ 2,000,000				
0	0	\$-				
		Qua	antified Impact 🕨	273	1	

Table 23 Transit Greenhouse Gas Summary Tables FFY 2022 (Continued)

					- (· ···,	
Section 2A	/ State Prioritized Reliability Projects						
► Bridge Progr	am / Inspections						
0	Bridge Inspection	\$	-			1	
			Qua	ntified Impact ►	0	•	
			Qua	interest in participation of	Ŭ	001	
► Bridge Progra	am / Off-System						
608846	MONSON- BRIDGE REPLACEMENT, M-27-015,	\$	1,742,784	Qualitative		No assumed impact/negligible impact on	
	OLD WALES ROAD OVER CONANT BROOK					emissions	
608869		\$	3,981,000	Qualitative		No assumed impact/negligible impact on	
	068, OLD SPRINGFIELD ROAD OVER THE MILL					emissions	
	RIVER						-
608847	WALES- BRIDGE REPLACEMENT, W-02-002,	\$	540,096	Qualitative		No assumed impact/negligible impact on	
	HOLLAND ROAD OVER WALES BROOK		0	ntified Impact ►	0	emissions	
			Qua	nulled impact	U		
► Pridgo Progr	am / On-System (NHS)						
606552	NORTHAMPTON- BRIDGE RECONSTRUCTION, N	2	11,378,353	Qualitative		No assumed impact/negligible impact on	1
000332	19-059, I-91 OVER US 5/BMRR & N-19-060, I-91	η-φ	11,570,555	Quantative		emissions	
	OVER HOCKANUM ROAD					cinissions	
			Qua	ntified Impact 🕨	0		4
						8	
► Bridge Progra	am / On-System (Non-NHS)						
0	Bridge Program / On-System (Non-NHS)	\$	-			1	
			Qua	ntified Impact 🕨	0		
	am / Systematic Maintenance						
0	Bridge Program / Systematic Maintenance	\$	-				
			Qua	ntified Impact 🕨	0		
► Interstate Pa				1			
0	Interstate Pavement	\$	-				
*****			Oua	I ntified Impact ►	0		
			Qua		0	- Contract of the second se	
► Non-Interstat	te Pavement						
608466		\$	4,163,040	Quantified	3,812	Quantified Decrease in Emissions from	
000400	RELATED WORK ON ROUTE 202	Ŷ	-1,100,010	Quantinou	0,012	Complete Streets Project	
			Qua	ntified Impact >	3,812	· · · · · · · · · · · · · · · · · · ·	
				• •		8	
Roadway Im	provements						
0	Roadway Improvements	\$	-			1	I
			Qua	ntified Impact 🕨	0		
 Safety Impro 							
0	Safety Improvements	\$	-			1	
						•	
			Qua	ntified Impact 🕨	0		

Table 23 Transit Greenhouse Gas Summary Tables FFY 2022 (Continued)

			,		•	,		
► Section 2B	/ State Prioritized Modernization Projects							
	4-							
ADA Retrofit 0	ADA Retrofits	\$	-		1	•		
U	ADA Relionis	Þ		ntified Impact ►	0	•		
			Qua		0			
► Intersection								
608560	SPRINGFIELD- IMPROVEMENTS ON ST JAMES AVENUE AT TAPLEY STREET		2,688,000	Qualitative		Qualitative Decrease in Emissions	To be quantified	
608565	SPRINGFIELD- IMPROVEMENTS ON ST JAMES AVENUE AT ST JAMES BOULEVARD AND CAREW STREET AT TAPLEY STREET	\$	2,784,000	Qualitative		Qualitative Decrease in Emissions	To be quantified	
			Qua	ntified Impact ►	0			
► Intelligent Tra	ansportation Systems							
0	Intelligent Transportation Systems	\$	-					
			Qua	ntified Impact ►	0			
► Roadway Re	construction							
0	Roadway Reconstruction	\$	-					
			Qua	ntified Impact ►	0		••••••	
► Section 2C	/ State Prioritized Expansion Projects							
Bicycles and	l Pedestrians							
602912	CHICOPEE- CHICOPEE RIVER RIVERWALK MULTI-USE PATH CONSTRUCTION, FROM GRAPE STREET TO FRONT STREET (NEAR ELLERTON STREET) (1 MILE)	\$	2,273,911	Quantified	3,248	Quantified Decrease in Emissions from Bicycle and Pedestrian Infrastructure		
			Qua	ntified Impact ►	3,248			
► Capacity								
0	Capacity	\$	-					
			Qua	ntified Impact ►	0			
► Section 3 /	Planning / Adjustments / Pass-throughs							
► Blanning / Ad	ljustments / Pass-throughs							
Pranning / Ad	ABP GANS Repayment	\$	-		1	•	1	
<u> </u>		Φ		ntified Impact ►	0			
Section 24	/Non Endaral Brainsta							
Section 2A	/ Non-Federal Projects							
► Non-Federall	ly Aided Projects							
0	Non-Federal Aid	\$			1			
			Qua	ntified Impact ►	0	•		
2022 X	Region MPO GHG Trackin	g Su	umm <u>a</u>	ry	Total Quantified Impact ▼			
				- ntified Impact ►				
			Qua	naneu impaci 🕨	1,33,			

Table 23 Transit Greenhouse Gas Summary Tables FFY 2023

/lassDOT Project ID ▼	MassDOT Project Description ▼	Total Programmed Funds ▼	GHG Analysis Type ▼	GHG CO₂ Impact (kg/yr)▼	GHG Impact Description ▼	Additional Description ▼
	Regionally Prioritized Projects					
608374	VIEST SPRINGFIELD- RECONSTRUCTION OF MEMORIAL AVENUE (ROUTE 147), FROM COLONY ROAD TO THE MEMORIAL AVENUE ROTARY (1.4 MILES)	\$ 8,907,054	Qualitative		Qualitative Decrease in Emissions	To be quantified
608374	WEST SPRINGFIELD- RECONSTRUCTION OF MEMORIAL AVENUE (ROUTE 147), FROM COLONY ROAD TO THE MEMORIAL AVENUE ROTARY (1.4 MILES)	\$ 2,000,000				
608374	WEST SPRINGFIELD- RECONSTRUCTION OF MEMORIAL AVENUE (ROUTE 147), FROM COLONY ROAD TO THE MEMORIAL AVENUE ROTARY (1.4 MILES)	\$ 500,000)			
608374	WEST SPRINGFIELD- RECONSTRUCTION OF MEMORIAL AVENUE (ROUTE 147), FROM COLONY ROAD TO THE MEMORIAL AVENUE ROTARY (1.4 MILES)	\$ 1,000,000				
PV0002	WORTHINGTON- RECONSTRUCTION & RELATED WORK ON ROUTE 143 (PHASE II)	\$ 8,584,000	Qualitative		Qualitative Decrease in Emissions	To be quantified
608881	LONGMEADOW- SPRINGFIELD- RESURFACING AND INTERSECTION IMPROVEMENTS ON LONGMEADOW STREET (ROUTE 5) AND CONVERSE STREET (0.84 MILES)	\$ 6,064,675	Qualitative		Qualitative Decrease in Emissions	To be quantified
0		0\$-				
		Qu	antified Impact 🕨	• 0		

Table 23 Transit Greenhouse Gas Summary Tables FFY 2023 (Continued)

				•	/	
Section 2A	A / State Prioritized Reliability Projects					
► Bridge Prog	ram / Inspections					
0	Bridge Inspection	\$-	[[1	
	{		ntified Impact >	0		-
				8	8	
Bridge Prog	jram / Off-System					
609120	LUDLOW- BRIDGE REPLACEMENT, L-16-026,	\$ 598,560	Qualitative		No assumed impact/negligible impact on	
	PINEY LANE OVER BROAD BROOK				emissions	
		Qua	ntified Impact ►	0		
b Bridge Dreg	gram / On-System (NHS)					
► Bridge Prog 608848	SPRINGFIELD- BRIDGE REPLACEMENT, S-24-	\$ 5,723,440	Qualitative	1	No assumed impact/negligible impact on	1
000040	016, ARMORY STREET OVER CSX MAINLINE	\$ 5,725,440	Quantative		emissions	
608853	SPRINGFIELD- BRIDGE REPLACEMENT, S-24-	\$ 3,948,640	Qualitative		No assumed impact/negligible impact on	
	026, ARMORY STREET OVER CSX	• • • • • • • •			emissions	
606552	NORTHAMPTON- BRIDGE RECONSTRUCTION, N-	\$ 11,378,353	Qualitative	İ	No assumed impact/negligible impact on	
	19-059, I-91 OVER US 5/BMRR & N-19-060, I-91				emissions	
	OVER HOCKANUM ROAD					
					•	
		Qua	ntified Impact Þ	0	20000	
> Bridge Dreg	gram / On-System (Non-NHS)					
P Bridge Prog	Bridge Program / On-System (Non-NHS)	\$-		1	•	1
U	Blidge Program / On-System (Non-NHS)		I ntified Impact ►	0		
		Qua		0	899	
▶ Bridge Prog	ram / Systematic Maintenance					
0	Bridge Program / Systematic Maintenance	\$-	1	1	۲	1
******			ntified Impact 🕨	0	•	***************************************
				ß	8	
► Interstate P	avement					
0	Interstate Pavement	\$-				
					-	
		Qua	ntified Impact ►	0		
► Non-Intersta		<u>ا</u> ر ۲	1	1		1
0	Non-Interstate Pavement	\$-				
	1	<u> </u>	I ntified Impact ►	0		
		Qua			8	
► Roadway In	nprovements					
0	Roadway Improvements	\$-		1		
		*				
		Qua	ntified Impact 🕨	0		***************************************
				v	y	
 Safety Impr 						
0	Safety Improvements	\$-				
		Qua	ntified Impact 🕨	0		

Table 23 Transit Greenhouse Gas Summary Tables FFY 2023 (Continued)

►Sect	ion 2B /	State Prioritized Modernization Projects					
► ADA	Retrofits	6					
	0	ADA Retrofits	\$	-			
			(Quantified Impact ►	0		
► Inters	section Ir	nprovements					
	0	Intersection Improvements	\$	-			
			(Quantified Impact ►	0		
► Intelli	gent Tra	nsportation Systems					
	0	Intelligent Transportation Systems	\$	-			
			(Quantified Impact ►	0		
► Road	way Rec	onstruction					
	0	Roadway Reconstruction	\$	-			
			(Quantified Impact ►	0		
►Secti	ion 2C /	State Prioritized Expansion Projects					
		Pedestrians					
60	7823	SOUTHAMPTON- GREENWAY RAIL TRAIL CONSTRUCTION, FROM COLEMAN ROAD TO ROUTE 10 (3.5 MILES)	\$ 7,053,6	38 Qualitative		Qualitative Decrease in Emissions	To be Quantified
			(Quantified Impact ►	0		-
► Capa	citv						
	0	Capacity	\$	-	[
				Quantified Impact ►	0		28 81101101101101101101101101101101101010101
►Sect	ion 3 / F	Planning / Adjustments / Pass-throughs					
▶ Plann	ning / Adj	ustments / Pass-throughs					
	0	ABP GANS Repayment	\$	-	[
			(Quantified Impact ►	0		
►Sect	ion 2A /	Non-Federal Projects					
► Non-F	ederally	Aided Projects					
	0	Non-Federal Aid	\$	-			
			(Quantified Impact ►	0)	
202	3 X I	Region MPO GHG Tracki	ng Summ	nary	Total Quantified Impact ▼		
				Quantified Impact ►	()	

Figure 6 Completed Highway and Transit Project GHG Analysis

MassDOT	MassDOT Brainst Description	Total Programmed Funds ▼	GHG Analysis Type	GHG CO₂ Impact	
Project ID ▼ 604203	MassDOT Project Description ▼ AGAWAM- INTERSECTION IMPROVEMENTS AT ROUTE 187 & ROUTE 57	\$ 3,288,000	Quantified	(kg/yr)▼ 3,406	Impact Description ▼ Quantified Decrease in Emissions from Traffic Operational Improvement
604597	NORTHAMPTON- IMPROVEMENTS ON I-91 INTERCHANGE 19 AT ROUTE 9 AND DAMON ROAD	\$ 7,438,490	Quantified	17,566	Quantified Decrease in Emissions from Traffic Operational Improvement
603449	WESTFIELD- ROUTE 20 ACCESS IMPROVEMENTS ON COURT STREET & WESTERN AVENUE, FROM LLEWELLYN DRIVE EASTERLY TO LLOYDS HILL ROAD (PHASE I)	\$ 6,133,933	Quantified	3224.4	Quantified Decrease in Emissions from Complete Streets Project
604738	SOUTHAMPTON- RECONSTRUCTION OF GLENDALE ROAD (PHASE II) FROM COLLEGE HIGHWAY (RT 10) NORTHWESTERLY TO POMEROY MEADOW RD (3,801 FEET)	\$ 2,710,700	Quantified	1462.1	Quantified Decrease in Emissions from Complete Streets Project
607256	HOLYOKE- RESURFACING & RELATED WORK ON HERITAGE STREET, FRONT STREET & DWIGHT STREET FROM MAPLE ST TO THE 1ST LEVEL CANAL (.54 MILES)	\$ 3,758,081	Quantified	3226.5	Quantified Decrease in Emissions from Complete Streets Project
607589	SPRINGFIELD- NORTH END PEDESTRIAN PATH CONSTRUCTION (UNDER THE CONNECTICUT RIVER RAILROAD), BETWEEN PLAINFIELD STREET AND BIRNIE AVENUE, INCLUDES CONSTRUCTION OF NEW UNDERPASS S-24-044	\$ 7,062,111	Quanified	405	Quantified Decrease in Emissions from Bicycle and Pedestrian Infrastructure
602911	PVTA P21 Express Service Between Union Station in Springfield and the Holyoke Transportation Center	\$ 500,000	Quantified	7,049	Quantified Decrease in Emissions from New/Additional Transit Service

Project Description ▼	Total Cost ▼	GHG Analysis Type ▼	GHG CO₂ Impact (kg/yr)▼	GHG Impact Description ▼	Additional Description ▼	Fiscal Year Programmed (2015 and forward) ▼
Replacement Vans (4)	\$283,795	Quantified	244982.231	Quantified Decrease in Emis	sions from Bus Replacement	61245.55775675 p
Replace Mini Buses for Shuttles (3)	\$270,000	Quantified	201096.704	Quantified Decrease in Emis	sions from Bus Replacement	67032.234517 per
Replacement 40' Buses (4)	\$2,161,631					12858.2213575
		Quantified	51432.885	Quantified Decrease in Emis	sions from Bus Replacement	Per Bus

APPENDICES

APPENDIX A: MassDOT Targets

FFY 2019-2023 STIP 2019 BUDGET

			Obligation	Matching		019 (Proposed)
			authority	funds	(feder	ral aid + match)
			(federal aid only)			
	Ba	se obligation authority	\$ 611,680,644			
	Planned	I redistribution request	\$ 50,000,000			
	Total Estimate	ed Funding Available	\$ 661,680,644			
	А	BP GANS Repayment	\$ (66,015,000			
Total non-earmarked funding a∨ailable			\$ 595,665,644	\$ 138,437,4	29 \$	734,103,074
Planning / Adjustments / Pass-throughs						
Award adjustments, change orders, etc.			\$ 21,645,935	\$ 5,411,4	34 \$	27.057.419
Metropolitan planning			\$ 8,670,263			10,837,829
State planning and research			\$ 14.026.697			17.533.371
Freight Plan flex to Rail and Transit			\$ 2,021,285	\$ 505,3	21 \$	2,526,606
Recreational trails			\$ 2,519,509	\$ 629,8		3,149,386
Railroad grade crossings			\$ 3,800,000	\$ 422,2	22 \$	4,222,222
MassRides program			\$ 2,660,000	\$ 665,0	00 \$	3,325,000
s	ubtotal of planning / adju	stments / pass-throughs	\$ 55,343,689	\$ 13,308,1	45 \$	68,651,834
Funding for regional priorities	regional share %	MPO	Total federal aid	Matching funds	Total f	funding (proposed)
	3.5596%	Berkshire	\$ 6,583,267	\$ 1,601,4	23 \$	8,184,689
	42.9671%	Boston	\$ 79,465,073	\$ 19,329,1	38 \$	98,794,261
	4.5851%	Cape Cod	\$ 8,479,867	\$ 2,062,7	49 \$	10,542,616
	8.6901%	Central Mass	\$ 16,071,819	\$ 3,909,4	00 \$	19,981,218
	2.5397%	Franklin	\$ 4,697,023	\$ 1,142,6	15 \$	5,839,638
	0.3100%	Martha's Vineyard	\$ 573,326	\$ 139,3	35 \$	712,712
	4.4296%	Merrimack Valley	\$ 8,192,279	\$ 1,992,6	D1 \$	10,184,880
	4.4596%	Montachusett	\$ 8,247,763	\$ 2,006,0	90 \$	10,253,853
	0.2200%	Nantucket	\$ 406,877	\$ 98,9	19 \$	505,795
	3.9096%	Northern Middlesex	\$ 7,230,571	\$ 1,758,7	93 \$	8,989,364
		Old Colony	\$ 8,432,522			10,483,760
		Pioneer Valley	\$ 19,992,261			24,855,247
		Southeastern Mass				20,601,967
	Total fund	ding of regional priorities				229,930,000
Highway Di∨ision programs			\$ 355,377,955	\$ 80,143,1	00 \$	435,521,055
Reliability programs			\$ 277,657,955	\$ 62,379,7	67 \$	340,037,722
Bridge program			\$ 147,807,955			184,759,944
		Inspections	\$-	\$ -	\$	-
		stematic maintenance	\$ 8,000,000			10,000,000
		stem NHS (minimum)	\$ 96,000,000	•		120,000,000
		On-System Non-NHS	\$ 15,307,955			19,134,944
		Off-system	\$ 28,500,000			35,625,000
Interstate pa∨ement program			\$ 27,650,000			30,722,222
Non-interstate DOT pa∨ement program			\$ 69,200,000			86,500,000
Roadway impro∨ements program			\$ 2,000,000			2,500,000
Safety impro∨ements program			\$ 31,000,000			35,555,556
Modernization programs			\$ 41,400,000	• -,,-		50,083,333
ADA retrofits program			\$ 2,400,000			3,000,000
Intersection improvements program			\$ 19,000,000	+ -)) -	· · ·	22,083,333
Intelligent Transportation Systems program			\$ 11,000,000			13,750,000
Roadway reconstruction program			\$ 9,000,000			11,250,000
Expansion programs			\$ 36,320,000			45,400,000
Bicycles and pedestrians program			\$ 36,320,000			45,400,000
Capacity program			\$ -	\$-	\$	-

FFY 2019-2023 STIP 2020 BUDGET

				gation	Match			2020 (Proposed)
				ority	funds		(tedera	al aid + match)
	ſ			eral aid only)			*****	
		Base obligation authority		626,330,019				
		ed redistribution request		50,000,000				
	i otal Estima	ted Funding Available	\$	676,330,019				
		ABP GANS Repayment	\$	(81,570,000)				
Total non-earmarked funding a∨ailable			\$	594,760,019	\$	139,025,281	\$	733,785,300
Planning / Adjustments / Pass-throughs								
Award adjustments, change orders, etc.			\$	38,175,176	\$	9,543,794	\$	47,718,969
Metropolitan planning			\$	8,670,263	\$	2,167,566	\$	10,837,829
State planning and research			\$	14,026,697	\$	3,506,674	\$	17,533,371
Freight Plan flex to Rail and Transit			\$	2,245,872	\$	561,468	\$	2,807,340
Recreational trails			\$	1,186,729	\$	296,682	\$	1,483,411
Railroad grade crossings			\$	2,000,000		222,222	\$	2,222,222
MassRides program			\$	2,660,000	\$	665,000	\$	3,325,000
	subtotal of planning / ad	iustments / pass-throughs	\$	68,964,737	\$	16,963,406	\$	85,928,143
Funding for regional priorities	regional share %	MPO		l federal aid	Match	ing funds		unding (proposed)
		Berkshire	\$	6,791,857	\$	1,697,964		8,489,822
	42.9671%		\$	81,982,925		20,495,731	\$	102,478,656
		Cape Cod	\$	8,748,552		2,187,138	\$	10,935,690
		Central Mass	\$	16,581,054		4,145,264	\$	20,726,318
	2.5397%		\$	4,845,848	\$	1,211,462	\$	6,057,310
		Martha's Vineyard	\$	591,492	· ·	147,873	\$	739,365
		Merrimack Valley	\$	8,451,852		2,112,963	\$	10,564,815
		Montachusett	\$	8,509,093	· ·	2,127,273	\$	10,636,366
		Nantucket	\$	419,769	\$	104,942	\$	524,711
		Northern Middlesex	\$	7,459,671	\$	1,864,918	\$	9,324,589
		Old Colony	\$	8,699,706	\$	2,174,927	\$	10,874,633
	10.8099%	Pioneer Valley	\$	20,625,716		5,156,429	\$	25,782,146
		Southeastern Mass	\$	17,096,225		4,274,056	\$	21,370,281
	Total fu	nding of regional priorities		190,803,952		47,700,940	\$	238,504,702
Highway Division programs			\$	334,991,330		74,360,935		409,352,265
Reliability programs			\$	280,591,330	\$	62,844,268	\$	343,435,598
Bridge program			\$	154,820,000		38,705,000	•	193,525,000
		Inspections		14,320,000		3,580,000	\$	17,900,000
		ystematic maintenance		8,000,000		2,000,000	\$	10,000,000
	On-s			94,900,000		23, 725, 000	\$	118,625,000
		On-System Non-NHS		9,100,000		2,275,000	\$	11,375,000
		Off-system	\$	28,500,000		7,125,000	\$	35,625,000
Interstate pavement program			\$	37,585,665		4,176,185	\$	41,761,850
Non-interstate DOT pa∨ement program			\$	65,185,665		16,296,416	\$	81,482,081
Roadway improvements program			\$	3,000,000	*	750,000	\$	3,750,000
Safety improvements program			\$	20,000,000		2,916,667	\$	22,916,667
Modernization programs			\$	34,400,000	\$	6,516,667	\$	40,916,667
ADA retrofits program			\$	-	\$	-	\$	-
Intersection improvements program			\$	17,000,000		2,166,667	\$	19,166,667
Intelligent Transportation Systems program			\$	10,000,000		2,500,000		12,500,000
Roadway reconstruction program			\$	7,400,000		1,850,000		9,250,000
Expansion programs			\$) 6	20,000,000		5,000,000		25,000,000
Bicycles and pedestrians program			\$ \$	20,000,000		5,000,000	\$	25,000,000
Capacity program			Þ	-	\$	-	\$	-

FFY 2019-2023 STIP 2021 BUDGET

		Obliga author		Matching funds]		2021 (Proposed) eral aid + match)
	Base obligation authority		641,988,270				
	Planned redistribution request		50,000,000				
	Total Estimated Funding Available		691.988.270				
	ABP GANS Repayment		(85,190,000)				
Total non-earmarked funding a∨ailable		\$	606,798,270	\$ 1	44,651,660	\$	751,449,930
Planning / Adjustments / Pass-throughs							
Award adjustments, change orders, etc.		\$	33,342,205		8,335,551	· ·	41,677,756
Metropolitan planning		\$	8,670,263		2,167,566	\$	10,837,829
State planning and research		\$	14,026,697		3,506,674		17,533,371
Freight Plan flex to Rail and Transit		\$	2,245,872		561,468	\$	2,807,340
Recreational trails		\$	1,186,729		296,682	· ·	1,483,411
Railroad grade crossings		\$	2,000,000		222,222	\$	2,222,222
MassRides program		\$	2,660,000		665,000		3,325,000
	ubtotal of planning / adjustments / pass-throughs		64,131,766	\$	15,755,164	\$	79,886,929
Funding for regional priorities	regional share % MPO		ederal aid	Matching			funding (proposed)
	3.5596% Berkshire	\$	6,929,328		1,732,332		8,661,660
	42.9671% Boston	\$	83,642,302	\$	20,910,575	\$	104,552,877
	4.5851% Cape Cod	\$	8,925,627		2,231,407	\$	11,157,034
	8.6901% Central Mass	\$	16,916,663	\$	4,229,166	\$	21,145,829
	2.5397% Franklin	\$	4,943,930		1,235,983	\$	6,179,913
	0.3100% Martha's Vineyard	\$	603,464		150,866	\$	754,330
	4.4296% Merrimack Valley	\$	8,622,922		2,155,730		10,778,652
	4.4596% Montachusett 0.2200% Nantucket	\$ \$	8,681,322 428,265	\$ \$	2,170,330 107.066	\$ \$	<u>10,851,652</u> 535,331
	3.9096% Northern Middlesex	· ·	7,610,659		1,902,665	э \$	9,513,324
	4.5595% Old Colony	\$	8,875,793		2,218,948	э \$	9,513,324
	10.8099% Pioneer Valley	\$	21,043,192		5,260,798	.₽ \$	26,303,990
	8.9601% Southeastern Mass	\$	17,442,261	\$	4,360,565	.⊅ \$	21,802,827
	Total funding of regional priorities		194,665,923	\$	48.666.432	-	243,332,161
Highway Division programs	rota funding of regional priorities	\$	348,000,581		80,230,065	\$	428,230,646
Reliability programs		\$	239,280,581		54,577,842	\$	293,858,423
Bridge program		\$	140,500,000		35,125,000	\$	175,625,000
Bridge program	Inspections		-	\$	-	\$	175,025,000
	Systematic maintenance		8,000,000	\$	2,000,000	\$	10,000,000
	On-system NHS (minimum)		94,900,000		23,725,000	\$	118,625,000
	On-System Non-NHS		9,100,000	\$	2.275.000	\$	11,375,000
	Off-system	-	28,500,000	\$	7,125,000	\$	35,625,000
Interstate pavement program		\$	24.744.581	\$	2.749.398	\$	27,493,979
Non-interstate DOT pavement program		\$	54,036,000		13,509,000		67,545,000
Roadway improvements program		\$	3,000,000		750,000		3,750,000
Safety improvements program		\$	17,000,000		2,444,444		19,444,444
Modernization programs		\$	80,720,000	\$	18,652,222	\$	99,372,222
ADA retrofits program		\$	1,400,000	\$	350,000	\$	1,750,000
Intersection improvements program		\$	16,000,000		2,472,222	\$	18,472,222
Intelligent Transportation Systems program		\$	8,000,000	\$	2,000,000	\$	10,000,000
Roadway reconstruction program		\$	55,320,000		13,830,000	\$	69,150,000
Expansion programs		\$	28,000,000	\$	7,000,000	\$	35,000,000
Bicycles and pedestrians program		\$	28,000,000	\$	7,000,000	\$	35,000,000
Capacity program		\$	-	\$	-	\$	-

FFY 2019-2023 STIP 2022 BUDGET

		Oblig		Matching funds	FFY 2022 (Proposed) (federal aid + match)
		autho	al aid only)	Tunas	(lederaraid + match)
	Base obligation authority		658,744,163		
	Planned redistribution request		50,000,000		
	Total Estimated Funding Available		708.744.163		
	-		,,		
	ABP GANS Repayment		(89,590,000)		
Total non-earmarked funding a∨ailable		\$	619,154,163	\$ 147,301,057	\$ 766,455,220
Planning / Adjustments / Pass-throughs					
Award adjustments, change orders, etc.		\$	36,361,281		\$ 45,451,601
Metropolitan planning		\$	8,670,263	\$ 2,167,566	
State planning and research		\$	14,026,697	\$ 3,506,674	
Freight Plan flex to Rail and Transit		\$	2,245,872		
Recreational trails		\$	1,186,729	\$ 296,682	, , ,
Railroad grade crossings		\$	2,000,000		
MassRides program		\$	2,660,000		, , ,
	subtotal of planning / adjustments / pass-throughs		67,150,842		
Funding for regional priorities	regional share % MPO		federal aid	Matching funds	Total funding (proposed)
	3.5596% Berkshire	\$	7,070,426	\$ 1,767,607	. , ,
	42.9671% Boston	\$	85,345,463		
	4.5851% Cape Cod	\$	9,107,375		
	8.6901% Central Mass	\$	17,261,128		, , ,
	2.5397% Franklin	\$	5,044,601		
	0.3100% Martha's Vineyard	\$	615,752	\$ 153,938	,
	4.4296% Merrimack Valley	\$ \$	8,798,505		· / /
	4.4596% Montachusett 0.2200% Nantucket	⇒ \$	8,858,094 436,986	\$ 2,214,524 \$ 109,246	
	3.9096% Northern Middlesex	э \$	7,765,631		
	4.5595% Old Colony	\$	9,056,526		, , ,
	10.8099% Pioneer Valley	\$	21,471,682	+ _,	
	8.9601% Southeastern Mass	\$	17,797,428	\$ 4,449,357	
	Total funding of regional priorities		198,629,796	\$ 49,657,399	
Highway Division programs	rotar tartaing of rogional provides	\$	353,373,525		
Reliability programs		\$	246,873,525	\$ 56,592,058	
Bridge program		\$	154,820,000		
bildge program	Inspections		14.320.000	\$ 3,580,000	
	Systematic maintenance	-	8,000,000	\$ 2,000,000	
	On-system NHS (minimum)	\$	94,900,000	\$ 23,725,000	
	On-System Non-NHS	\$	9,100,000	\$ 2,275,000	
	Off-system	\$	28,500,000	\$ 7,125,000	
Interstate pavement program		\$	22,909,525	\$ 2,545,503	
Non-interstate DOT pavement program		\$	51,144,000	\$ 12,786,000	
Roadway improvements program		\$	1,000,000	\$ 250,000	
Safety improvements program		\$	17,000,000	\$ 2,305,556	
Modernization programs		\$	78,500,000	\$ 17,541,667	\$ 96,041,667
ADA retrofits program		\$	-	\$-	\$ -
Intersection improvements program		\$	15,000,000	\$ 1,666,667	\$ 16,666,667
Intelligent Transportation Systems program		\$	8,000,000	. , ,	
Roadway reconstruction program		\$	55,500,000		
Expansion programs		\$	28,000,000	. , ,	
Bicycles and pedestrians program		\$	28,000,000	\$ 7,000,000	\$ 35,000,000
Capacity program		\$	-	\$-	

FFY 2019-2023 STIP 2023 BUDGET

			gation authority ral aid only)	Mato fund			2023 (Proposed) ral aid + match)
	Base obligation authority Planned redistribution request Total Estimated Funding Available	\$	676,662,005 50,000,000 726,662,005	•			
	ABP GANS Repayment	\$	(93,985,000)				
Total non-earmarked funding a∨ailable		\$	632,677,005	\$	150,023,500	\$	782,700,504
Planning / Adjustments / Pass-throughs							
Award adjustments, change orders, etc.		\$	20.000.000	\$	5,000,000	\$	25,000,000
Metropolitan planning		\$	8,670,263	\$	2,167,566	\$	10,837,829
State planning and research		\$	14,026,697	\$	3,506,674	\$	17,533,371
Recreational trails		\$	1,186,729	\$	296,682	Ŝ	1,483,411
Railroad grade crossings		\$	2,000,000	\$	222,222	\$	2,222,222
MassRides program		\$	2,660,000		665,000	\$	3,325,000
	subtotal of planning / adjustments / pass-throughs	\$	48,543,689	\$	11,858,144	\$	60,401,833
Funding for regional priorities	regional share % MPO	Total	federal aid	Mato	hing funds	Total	funding (proposed)
	3.5596% Berkshire	\$	7,224,850	\$	1,806,213	\$	9,031,063
	42.9671% Boston	\$	87,209,479	\$	21,802,370	\$	109,011,849
	4.5851% Cape Cod	\$	9,306,287	\$	2,326,572	\$	11.632.859
	8.6901% Central Mass	\$	17,638,125	\$	4,409,531	\$	22.047.657
	2.5397% Franklin	\$	5,154,779	\$	1,288,695	\$	6,443,474
	0.3100% Martha's Vineyard	\$	629,201	\$	157,300	\$	786,501
	4.4296% Merrimack Valley	\$	8,990,672	\$	2,247,668	\$	11,238,340
	4.4596% Montachusett	\$	9,051,563	\$	2,262,891	\$	11,314,453
	0.2200% Nantucket	\$	446,530	\$	111,632	\$	558,162
	3.9096% Northern Middlesex	\$	7,935,238	\$	1,983,810	\$	9,919,048
	4.5595% Old Colony	\$	9,254,328	\$	2,313,582	\$	11,567,910
	10.8099% Pioneer Valley	\$	21,940,642	\$	5,485,160	\$	27,425,802
	8.9601% Southeastern Mass	\$	18,186,139	\$	4,546,535	\$	22,732,674
	Total funding of regional priorities	\$	202,968,036	\$	50,741,958	\$	253,709,792
Highway Division programs		\$	381,165,279	\$	87,423,397	\$	468,588,676
Reliability programs		\$	267,601,252	\$	61,384,440	\$	326,834,487
Bridge program		\$	166,996,123	\$	41,749,031	\$	207,515,202
	Inspections			\$	-	\$	-
	Systematic maintenance	\$	8,629,176	\$	2,157,294	\$	10,722,914
	On-system NHS	\$	94,900,000	\$	23,725,000	\$	118,625,000
	On-System Non-NHS	\$	9,815,687	\$	2,453,922	\$	12,197,315
	Off-system	\$	28,500,000	\$	7,125,000	\$	35,625,000
Interstate pavement program		\$	24,711,290	\$	2,745,699	\$	27,456,989
Non-interstate DOT pa∨ement program		\$	56,414,722	\$	14,103,681	\$	70,518,403
Roadway impro∨ements program		\$	1,142,119	\$	285,530	\$	1,427,648
Safety improvements program		\$	18,336,998	\$	2,500,500	\$	20,837,498
Modernization programs		\$	84,673,787	\$	18,816,397	\$	102,880,407
ADA retrofits program		\$	1,400,000		350,000	\$	1,750,000
Intersection improvements program		\$	16,934,757	\$	1,881,640	\$	18,705,529
Intelligent Transportation Systems program		\$	8,000,000	\$	2,000,000	\$	10,000,000
Roadway reconstruction program		\$	58,339,029	\$	14,584,757	\$	72,424,878
Expansion programs		\$	28,890,241	\$	7,222,560	\$	36,112,801
Bicycles and pedestrians program		\$	28,890,241	\$	7,222,560	\$	36,112,801
Capacity program		\$	-	\$	-	\$	-

APPENDIX B: 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 26 lists the agencies from table 26 which responded and coordinated meetings were held during TIP development.

Agency Location
Haydenville
Boston
Cambridge
Boston
Boston
Granby
Boston
Cambridge
Northampton/Lenox
Springfield
Springfield
Springfield
Springfield
Westfield
Westfield
Williamsburg
Amherst
Westfield

Table 25: Agencies Contacted

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 26: Agencies Providing Consultation)

Agency	Agency Location
MassDOT - Office of Transportation Planning	Boston
Colubmia Greenway Rail Trail Committee	Westfield

APPENDIX C: 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, longrange 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.

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.	Smarch 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

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

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

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 stormwater impacts of surface transportation.	Environment and Climate Change
10	Enhancing travel and tourism.	Mobility, Quality of Life

APPENDIX D: 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 **Comm-PASS** - 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 Centurv MARPA - Massachusetts Association of Regional **Planning Agencies** MassDOT - Massachusetts Department of Transportation MassGIS - Massachusetts Geographic Information Svstem 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** - Quaboag 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 Centurv **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)