TRANSPORTATION IMPROVEMENT PROGRAM (TIP)

2017 - 2021

FOR THE METROPOLITAN PLANNING ORGANIZATION PIONEER VALLEY REGION, MASSACHUSETTS

Endorsed July 25, 2016



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Table of Contents

PREFACE	5
I.GENERAL SUPPORT INFORMATION	7
FEDERAL AUTHORIZTION	7
CONFORMITY WITH THE REGIONAL TRANSPORTATION PLAN	8
METROPOLITAN PLANNING ORGANIZATION	9
DEVELOPMENT OF THE TIP	9
TEC SCORING SUMMARY	12
PROJECT SELECTION AND PROGRAMMING	15
AMENDMENT/ADJUSTMENT OF THE TIP	16
DESCRIPTION OF FUNDING SOURCES	16
TRANSPORTATION SYSTEM OPERATING AND MAINTENANCE COSTS	18
III. FEDERAL COMPONENT	33
PIONEER VALLEY MPO ENDORSEMENT	35
CERTIFICATION OF THE 3-C PLANNING PROCESS	37
FUNDING INFORMATION	44
THE GEOGRAPHIC DISTRIBUTION OF FEDERAL TARGET FUNDS IN THE METROPOLITAN PLANNING REGION – 2012 TO 2016	
IV. FEDERAL AID REGIONAL PROJECT LISTINGS	51
ORGANIZATION OF PROJECT LISTINGS	
PROJECT CURRENLTY UNDER DESIGN AWAITING FUNDING	77
V. TRANSIT PROJECT LISTING FOR FFY 2017-2021	83
VI. STATEWIDE FEDERAL AID PROJECT LISTING	93
VII. PROJECT IMPLEMENTATION	97
VIII. AIR QUALITY CONFORMITY INFORMATION	101
IX. GREENHOUSE GAS MONITORING AND EVALUATION	103
Ragional Craenhouse Cas Impact Summary Tables for FFV 2017 2010 TIP	105

APPENDICES	113
APPENDIX A: MassDOT Targets	115
APPENDIX B: Summary of Operation and Maintenance Expenditures	121
APPENDIX C: Metropolitan Planning Area (MPA) State and Local Consulted Agencies	125
APPENDIX D: FAST Act Performance Management Information	127
List of Tables	
TABLE 1 INTEGRATION OF GREENDOT GOALS INTO TIP	14
TABLE 2 TRANSPORTATION OPERATING AND MAINTENANCE EXPENDITURES	19
TABLE 3 TRANSIT OPERATING AND MAINTENANCE EXPENDITURES	19
TABLE 4 COMMNETS RECIEVED DURING PUBLIC REVIEW	
TABLE 5 FEDERAL HIGHWAY FINANCIAL PLAN	44
Table 6 Federal Transit Financial Plan	
TABLE 7 PROJECTS COMPLETED WITH FEDERAL TARGET FUNDS BY MPO SUB-REGION (2012-2016)	46
TABLE 8 PROJECTS COMPLETED WITH FEDERAL TARGET FUNDS BY MUNICIPALITY (2012-2016)	47
TABLE 9 SUMMARY OF ALL PROJECT FUNDED IN SECTION 1 A FEDERAL AID TARGET PROJECTS	
TABLE 10 FEDERALLY FUNDED PROJECTS YEAR 2017	
TABLE 11: FEDERALLY FUNDED PROJECTS 2018	59
TABLE 12: FEDERALLY FUNDED PROJECTS 2019	
TABLE 13: FEDERALLY FUNDED PROJECTS YEAR 2020	
TABLE 14: FEDERALLY FUNDED PROJECTS YEAR 2021	72
TABLE 15: PROJECTS AWAITING DESIGN AND FUNDS	
TABLE 16: FFY 2017 TRANSIT PROJECT INFORMATION	
TABLE 17: FFY 2018 TRANSIT PROJECT INFORMATION	
TABLE 18: FFY 2019 TRANSIT PROJECT INFORMATION	88
TABLE 19: FFY 2020 TRANSIT PROJECT INFORMATION	
TABLE 20: FFY 2021 TRANSIT PROJECT INFORMATION	
TABLE 21 STATEWIDE FEDERAL AID PROJECT LISTING	94
TABLE 22 PROJECT IMPLEMENTATION	
TABLE 23 GREENHOUSE GAS SUMMARY TABLES FFY 2017-2019	107
Table 24: Agencies Contacted	
TABLE 25: AGENCIES PROVIDING CONSULTATION)	126

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

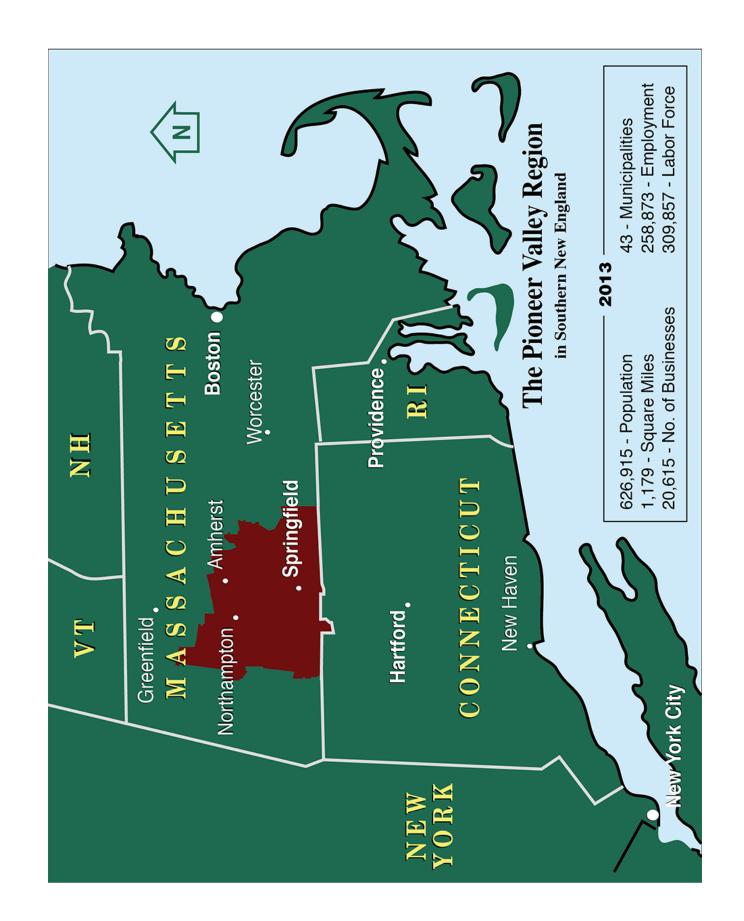
The FFY 2017-2021 TIP has been prepared with completely separate components of the document that are subject to federal review and approval and components that are not. This distinction of a "federal component" was the firm position of the Massachusetts Department of Transportation (MassDOT) as a means 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 2017-2021 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 2017 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 2017. Funding targets for the Pioneer Valley Region have been issued by MassDOT identifying potential resources for each year of the TIP.

Preface ______5



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 on the NHS.

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

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

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

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

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 2017 through 2021 (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 2017-2021 TIP is only required for Carbon monoxide. Further details and background information are provided on page 83.

1

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

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

Thomas J. Tinlin Administrator of the Massachusetts Department of Transportation

Highway Division

Walter Gunn Chairman of the Pioneer Valley Executive Committee
Mary MacInnes Administrator of the Pioneer Valley Transit Authority

Mayor Domenic Sarno Mayor of Springfield
Mayor Richard Kos Mayor of Chicopee
Mayor Richard Cohen Mayor of Agawam
Mayor David Narkewicz Mayor of Northampton

George Archible Belchertown Board of Selectmen
Marcus Boyle Hatfield Board of Selectmen

Alternates

Mayor Alexander Morse City of Holyoke Mayor Brian P. Sullivan City of Westfield

Douglas Slaughter Amherst Board of Selectmen
Carmina Fernandes Ludlow Board of Selectmen

Ex-Officio (Non-Voting)

Jeff McEwen Federal Highway Administration
Mary Beth Mello Federal Transit Administration

Rick Sullivan Economic Development Council of Western Massachusetts
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 to carry out the cooperative process during TIP development. The Joint Transportation Committee (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.

General Information ______9

- 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)

The Pioneer Valley Congestion Management Process (CMP) formerly the Congestion Management System (CMS) is an on-going, systematic process designed to improve transportation in the region by providing information on the location, severity and extent of congested corridors and intersections. Findings of the CMP report are used to assist in the selection of projects to be prioritized for TIP consideration, as well as assist in the prioritization of projects to be included in this document.

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

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.

General Information _______11

TEC SCORING SUMMARY

System Preservation, Modernization and Efficiency	Livability	Mobility	Smart Growth and Economic Development	Safety and Security	Environment and Climate Change	Quality of Life	Environmental Justice
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	1
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	Improves transit for EJ populations
9	2	9	1	5	2	1	2
In a Congestion Management Process Area 5	Reduces auto-dependency	Reduces traffic congestion 7	Provides services to a TOD, TND or cluster development 0.5	Improves emergency response 4	Reduced impervious surfaces 0.5	Improves access to jobs 2	Creates an EJ Burden
	development site 2 Completes off-road bike and ped network 3		downtowns and village centers 0.5 Improves Intermodal Connections 4 Reduces congestion on freight routes 2		Protects of enhances environmental assets 0.5 Supports Brownfield redevelopment 0.5 Improves air quality 1 Reduces CO2 emissions 1 Promotes mode shift 1 Improves fish and wildlife passage 1 Supports Green Communities 0.5	Preserves insortical and cultural resources 0.5 Preserves prime agricultural land 0.5 Supports designated scenic byways 0.5 Implements ITS Strategies 2 Improves Network Wayfinding 1	
					Improves storm resilience 3	Length of Time on TIP 1	
Maximum Score 19	12	71	10	16	12	11	3

PROJECT INITATION

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 Needs and Project Information Form can be found at http://www.massdot.state.ma.us/highway/Departments/ProjectManagement/ProjectReviewCommittee.aspx

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

nd Walking, & Promote Healthy Transportation 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 regiona 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.
r - 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.
Increasing bus and transit route efficiency	The PVPC has an ongoing task in its UPWP to study

Promoting anti-idling policies and educational	Not specifically addressed in the TEC but included as a
outreach	Need in the RTP
Energy - Consume Less Energy & Increase Re	
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.
Land - 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 green 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.
Materials - 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.
Waste - 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.
Water - 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 projections in project planning	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 four-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

For the purposes of project selection and programming, amendment or adjustment to the TIP can be conducted at any time. Amendment of the TIP consists of addition of a project not previously programmed, the advancement of a Year 3 project through Year 4 or a significant adjustment to project costs. Amendment 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%.

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 2017-2021 TIP is consistent with the Regional Transportation Plan (RTP) for the Pioneer Valley Region. Tables 1 and 2 presents the estimates outlined in the RTP of annual expenditures associated with operating and maintaining the transportation system. These estimates represent past expenditures and do not reflect costs associated with maintaining a constant level of system performance.

Table 2 Transportation Operating and Maintenance Expenditures

	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

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	Grand Total			
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			
	Estim	ated Capital Re	venues		-				
	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

The DRAFT FFY 2017-2021 TIP underwent a public review and comment period consistent with the Pioneer Valley Metropolitan Planning Organizations Public Participation Process. This began June 24, 2016 and continued until July 24, 2016. During this time, comments were received from communities, JTC, PVTA, PVPC, MassDOT, and FHWA. A public hearing was held on June 10, 2015 as part of the JTC meeting. Below is a summary of the comments received during the public review and comment period.

Table 4 Commnets Recieved During Public Review

Comment By	Project	Comment	Date	Action Taken
University of Massachuset ts Amherst	Bike Share – Valley Bike	On behalf of the University of Massachusetts Amherst and the 'ValleyBike' Share Steering Committee, I would like to provide a comment to the Draft 2017-2021 TIP. It is my understanding that MassDOT has determined that many of the FY2017 projects are underfunded and that in order to fund these projects the Bike Share Program be removed from the FY17 funding. My comment is that I very strongly recommend to the Metropolitan Planning Commission (MPO) to keep the Bike Share Program in the FY17 funding. The communities within the MOU agreement which was signed by my Chancellor are under the anticipation that this program will be funded and implemented by next year which would require the project stay within the FY17 funding cycle. The students, faculty, and staff are all ready for this program as is the town of Amherst who I have been working very closely in collaboration with throughout this process. Both communities see the value in this program to help bridge the two communities, create more sustainable modes of transportation for our community members and support the commerce of the downtown area, and enhance the overall town/gown relations. My concern about pushing the funding back for this program will result in our bike share committee losing momentum and possibly membership. Even more worrisome if the project timeline was to be significantly pushed back, is the funding that PVPC has to support our committee work would be in jeopardy of running out, resulting in the project collapsing before we had the opportunity to move into the procurement stage and select a vendor for the program. Thanks for the opportunity to comment on the TIP.	6/27/16	Comments Noted
Mayor of Northampto n	PV Bike Share	Dear MPO Chair, I would urge the MPO to include the Pioneer Valley Regional Bike Share as a project for the FY2017 TIP. This project, which will initially serve Amherst, Holyoke, Northampton, and Springfield and almost certainly the lowest cost transportation project per person mile traveled. Unfortunately, I will miss the July MPO meeting, so I want to provide my comments here. I understand that there are some cost changes and the TIP will need to be adjusted to keep it constrained. To do that the MPO should select a project which scored lower in the point system than the Regional Bike Share. We worked hard on creating that point system and it should be used for this difficult decision. Thank you for your consideration. Sincerely, David J. Narkewicz	6/28/16	Comments Noted
MassDOT	TIP GHG Analysis	I noticed that the GHG analysis hadn't been completed for the Section 1A target projects, and after I checked the TIP online, I did not see it included there either (although it references it). Just noting that we need to have this completed and included as part of the TIP in order to sign the self-certification document at the next MPO meeting. As the GHG analysis should have been	7/6/16	GHG included for final endorsement

Columbia Greenway		find their way through downtown to get to the wonderful park/esplanade at the Westfield River Bridges. The downtown		
Greenway Rail Trail		merchants would benefit immensely from completion of the trail also.		
Sandy Sorel	603783	Please continue with the completion of the trail. The trail is a vital part of our community. It contributions to the economy ,the health of our citizens, and the growth of our youth. Users of the trail are growing in number and it's importance immeasurable. Thank you,	7/21/16	Comment noted
Demetrios Kanavaros 12 S Maple Street Westfield, Ma 01085	603783	Please reconsider pushing back the date of completion for the Columbia Greenway Rail Trail in Westfield, Massachusetts. This project has already proven to be a beloved asset to the city, and completing the project will only improve access to downtown area businesses thus bolstering the state and local economy. The momentum of the Columbia Greenway Rail Trail project to date has also made great strides in revitalizing public perception and participation in the Westfield community. Further delay of this project would effectively dismiss the opportunity for local economic growth and would likely encourage people to ride (or walk) just over the Connecticut border to spend their money. Thank you for your reconsideration on this important matter. Regards,	7/21/16	Comment noted
Janet Garcia Executive Director of Marketing and Communicat ions	603783	I am in support of returning the extension of the Columbia Greenway Rail Trial central section to the TIP for 2017 and not deferring it to 2019. As a resident of the north end of Westfield, I have been anxiously awaiting the extension of the rail trail closer to our end of town. Thank you for your consideration.	7/21/16	Comment noted
Bob Burch Bright	603783	The rail trail is a great asset to Westfield. It's used by the community and brings in a lot of people from surrounding areas	7/21/16	Comment noted

Cloud Studio 102 Elm Street, Suite 4 Westfield MA 01085		including Connecticut. Do not push back the construction of the central section 2019. The sooner the project is finished the sooner we can take full advantage of the benefits it brings to the city of Westfield.		
Joe Camilleri	603783	I am writing to support bringing the TIP for the Columbia Greenway Central (#603783) back to 2017. As a Westfield resident and avid user of the trail, I cannot express how important this greenway is to the vitality of our city. My family and I use it recreationally, and I use it to commute to work some days. But we have been fortunate because our neighborhood connects to the trail. Completing the central portion is integral to the project because it opens up the trail to more Westfield residents, particularly the area with our highest population density, provides a safe alternative to traversing the downtown, and will attract more visitors to our downtown businesses. Considering the economic, health, and transportation benefits of this trail, I strongly encourage it's completion not be delayed and that the TIP be included in 2017. Sincerely, Joe Camilleri	7/21/16	Comment noted
Stephen Donnelly 6 Pinebrook Drive Easthampto n, MA 01027	603783	Dear Sirs; Please return the Westfield rail trail project to it's originally programmed year (2017). Thank you,	7/21/16	Comment noted
Roy Frye Westfield, MA	603783	I am requesting the funding for the Columbia Greenway Rail Trail funding be restored back to its originally programmed year (2017).	7/21/16	Comment noted
Pete Salomone	603783	The Weekday Cyclists are disappointed with the possibility that the Columbia Greenway will not be completed to the Westfield River in 2017. We regularly ride from CT into MAss often stopping now at Main St where the trail ends. We want to be able to ride to Northampton on trail. We are also concerned that the abandoned RR ROW in Southampton has not yet been converted into RailTrail.	7/21/16	Comment noted
Nick Horton	603783	I am very concerned that the Westfield downtown project is being considered for a delay from 2017 to 2019. Building out this trail network has important consequences in terms of commuting and recreation. It will help biuld eco-tourism in the area and help to support the reinvigoration of downtown Westfield. I urge you to find funding within the 2017 budget. Thanks in advance,	7/21/16	Comment noted
Matt Matthew Fenichel	603783	As an avid cyclist, health & wellness professional, and individual I can not support any further delays in funding or implementation of projects completing the Bike/Walk trails including the Columbia Greenway, the Northampton Bike Path, and so many others that contribute to the overall East Coast Greenway or support it. These projects as you should be well aware bring economic vitality to the region, and local businesses. At the same time they positively effect the health and wellness of a large number	7/21/16	Comment noted

Tom Riddell.	603783	of the general population including those who otherwise would be very sedentary. They also create commutable lanes for those who otherwise might not be able to get to work, or maintain their health and work. Lastly but far from least the ECG and related Bike/Walk trails support tourism in a huge and increasing way. Please save any funding already awarded and insure that more funding is available and the Bike/Walk trail is completed quickly. Thank you, Please do not delay the trail in Westfield! Thanks,	7/21/16	Comment noted
Ralph Figy Ward 2 City Council	603783	My name is Ralph Figy and I am the Ward 2 City Councilor in Westfield. I am dismayed to learn the the PVPC is considering altering the agreed upon dates for completion of the Columbia Greenway Rail Trail. I have worked diligently to having the Rail Trail become an accepted part of the neighborhood. To delay completion make no sense and will not continue the betterment of our neighborhoods in Ward 2. I am asking that the original timeline be maintained in the best interests of the residents in Ward 2. Thank you:	7/21/16	Comment noted
Joanne LeBlanc	603783	As a frequent user of the Columbia Greenway Rail Trail I would like to see funding for the completion of the trail be moved back to 2017 which has been pushed back to 2019. Thank you.	7/22/16	Comment noted
Ron DeGray 120 Cricket Lane Glastonbury, CT 06033- 1851	603783	Please do not postpone completing the Westfield River Trail. We are all experiencing the increase in automobiltiy and huge traffic jams and crashes. We are desperate for multimodal transportation. Bicycling and walking are fundamental. These modes of transportation are viable and should not be viewed solely as recreational. Sincerely, Ron	7/22/16	Comment noted
Bob Pac	603783	Please restore funding for the Central portion of the Columbia Greenway Rail Trail in Westfield to the 2017 TIP. Some trail user count numbers: 629 users on a cloudy Saturday with rain threatening 985 users on a Sunday 161550 users @ the MA/CT line. Assuming completion of the Central portion would attract 25% of these users to down town Westfield and this 25% spent \$5 would mean approx \$200,000 to small businesses in Westfield. An independent assessment of the realty in Westfield repeatedly mentioned the Columbia Greenway as an ASSET to the Community. Please restore Funding for the Central portion of the Columbia Greenway in Westfield to the 2017 TIP Respectfully	7/22/16	Comment noted
Jason Smith	603783	I am emailing to voice my opposition to the delay in completion of the trail to the Westfield river. As a frequent user of the trail the completion will allow much safer access to the river and the stores on elm st. As a frequent cyclist while I may dislike competing with cars to cross Main Street to get onto Mechanic street I am able to do so. However, until the path is completed you have effectively removed access to some of best parts of Westfield for less experiencing cyclists. Thank you,	7/22/16	Comment noted

KC Nappi	603783	Please do not delay the development of the Westfield Trailthe	7/22/16	Comment noted
		benefit to current and future members of the community is under-served by the lack of safe alternative transportation of		
		which this is a significant element. Thank you,		
Greg	603783	My name is Greg Fitzpatrick and I am a reporter for the	7/22/16	Comment noted
Fitzpatrick		Westfield News. Just this afternoon, it was brought to my		
		attention about the Columbia Greenway Trail in Westfield.		
		I was interested in speaking to you about the trail and your		
		involvement with the project. Please let me know if you are		
		available to speak at all this afternoon. This is late notice, so I		
		do understand if you can't. My number is 413-427-9223, feel		
		free to give me a call if you are available. Have a great		
		weekend. Best regards,		
Jennifer	603783	I am writing to you about the Columbia Greenway Railtrail	7/22/16	Comment noted
Giffune		project. I am requesting that you push to have the project fully		
		funded. Additionally I urge you to return the funding to 2017.		
		Delay in completion of the project is a mistake. This is a vital		
		project that will benefit the residents, our city as well as the		
		entire region. The trail offers physical and mental health		
		benefits to those that use it. It offers economic boon to the		
		entire region, being the terminus of an wide network of trails.		
		Thank you,		
	603783	On behalf of the Board of Directors of the Friends of the	7/22/16	Comment noted
Joseph D.		Columbia Greenway Rail Trail, Inc. (FOCGRT) and on behalf		
Giffune		of our members and supporters, I am contacting you to ask that		
		you recommend keeping the Columbia Greenway Central		
Chair, Board		project in the current TIP. Additionally, we request that the		
of Directors		project be returned to it's original programmed year of 2017.		
		The Columbia Greenway is the northern terminus of an		
		extensive network of trails and will be one of only a handful of		
		trails in the country that is fully elevated through an urban core.		
		These two characteristics alone will make this trail a destination		
		for enthusiasts world wide. I would encourage all to take the		
		time to look at other similar projects to understand the economic		
		impact this can have on a community.		
		Conversely, if we allow the project to remain incomplete, we		
		will not only experience a lost opportunity, but we will be		
		complicit in creating a zone of urban blight. One need only look		
		at the end of the current trail to observe instances of the		
		vandalism and miss-use that naturally occur in an urban area		
		due to a lack of use by the broader public. None of these issues		
		exist on the rest of the trail in Westfield. Based on our counts,		
		we experience a usage rate of roughly 50 people per hour from 7		
		am to 7 pm. This level of use does not allow for the opportunity		
		for abuse. We fully expect that once the trail is completed		
		through the urban core, the rates of use will only increase.		
		As you know, the City of Westfield has done a masterful job of		
		delivering on their obligations when programmed funds have		
		become available - completing projects in a timely manner in an		
		efficient and properly managed way. The City has been a strong		
		partner with all parties in creating a truly unique facility. The		
		project experiences broad public support. It would be remiss on		
		anyone's part to allow the project to linger in any way.		
		In closing, I would like to personally thank you for all of your		
		past support for the City of Westfield. In my twenty five years		
		as a resident, I have had the privilege of watching a community		

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		renew itself. I believe the city is well on its way to returning its		
		urban core to its historical vibrancy. This project will		
		undoubtedly be the capstone to those efforts.		
		Thank you again. Sincerely,		
Judy Dowd	603783	I am writing to you about the Columbia Greenway Railtrail	7/22/16	Comment noted
		project. I am requesting that you push to have the project fully		
		funded. Additionally I urge you to return the funding to 2017.		
		Delay in completion of the project is a mistake. This is a vital		
		project that will benefit the residents, our city as well as the		
		entire region. The trail offers physical and mental health		
		benefits to those that use it. It offers economic boon to the		
		entire region, being the terminus of an wide network of trails.		
D : 1 G !!	602702	Thank you,	7/22/16	G
Daniel Call	603783	I am very upset to hear that the current FY TIP funding for the	7/22/16	Comment noted
		central portion of the Westfield R/T has now been pushed out to		
		2019. The vision and energy that has been driving this project		
		since the mid 90's and as then and continues now to have a		
		substantial outpouring of support to see this project completed.		
		To that end, the Westfield Friends Group and others would		
		greatly appreciate having the necessary FY TIP funding availability re-instated to the original 2017 time frame.		
		Whatever the PVPC can do in regards to this issue will be		
		greatly appreciated. Thank you,		
Edward	603783	Please keep the funding for the rail trail in Westfield, Ma in	7/22/16	Comment noted
St.Onge	003783	2017 not 2019.	1/22/10	Comment noted
Michael	603783	I write on behalf of the Southampton (Mass.) Greenway	7/22/16	Comment noted
Buehler	003703	Committee and the Southampton Greenway Negotiation	7/22/10	Comment noted
Chair,		Committee.		
Southampto		As we continue working to acquire the Pioneer Valley Rail		
n Greenway		corridor in Southampton and make the Southampton Greenway		
Committee		a reality, we have learned just how challenging it is to move a		
Chair,		rail trail project forward. We are thus extraordinarily impressed		
Southampto		when we look to the south and see what Westfield has		
n Greenway		accomplished with the Columbia Greenway.		
Negotiation		It has however come to our attention that the Central Section of		
Committee		the Columbia Greenway, originally slated for construction in		
		2017, has been pushed back on the Pioneer Valley TIP to 2019.		
		We wish to express our concern about the delay: The		
		completion of the Central section is absolutely critical, as it will		
		connect downtown Westfield with the rest of the trail network		
		into Southwick and beyond into Connecticut. This will both		
		increase the value of the trail and open it up to a larger, more		
		diverse pool of users.		
		Given the growing scarcity of funds available for such projects,		
		we strongly advocate returning it to its original 2017 start date,		
		in order to ensure that the great momentum achieved by the		
		project will be sustained.		
		Many thanks for your consideration.		
Grace	603783	Sincerely, I am writing to you about the Columbia Greenway Railtrail	7/22/16	Comment noted
Grace Giffune	003/83		1/22/10	Comment noted
GITTUILE		project. I am requesting that you push to have the project fully funded. Additionally I urge you to return the funding to 2017.		
		Delay in completion of the project is a mistake. This is a vital		
		project that will benefit the residents and our city as well as the		
		entire region. The trail offers physical and mental health		
		benefits to those that use it. It offers economic boon to the		
		ochemic to those that use it. It offers economic boom to the	1	1

		antire region being the terminus of an wide network of twells. It		
		entire region, being the terminus of an wide network of trails. It		
		is widely used and loved by all who have access to it, and those		
		who live near the incomplete sections are continually asking		
		when they will have the same access as the rest of us. Please		
		fund this project, it will bring only positive results to		
		Westfield. Best,		
Chris Steger	603783	I am writing a bit late, however, I want to put my support behind	7/22/16	Comment noted
Cinis Steger	000700	completing the Westfield rail trail per the original agreed upon	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		time line (completion by 2018). As a frequent user of the trail I		
		know first hand about the great benefit a large number of people		
		are getting from the currently completed phases. I have even		
		talked to people who have ridden their bikes on the trail from		
		homes outside Westfield to shop or have a meal in the town		
		center. Having all portions completed will further encourage		
		people to leave their cars home and use the trail to get shopping		
		and eating done in the town center.		
		I hope the Pioneer Valley Planning Commission can see the		
		benefit of fully funding the Westfield rail trail and will so for		
		completion by 2018. The train can be a great asset to the		
		Westfield community, but only if the all phases are completed in		
		short order. Respectfully,		
Susan		I am emailing you to request that the funding for the	7/25/16	Comment noted
Caldes		completion of our trail be moved to 2017 (instead of 2019 as	7723710	Comment noted
70 Country		listed in their latest TIP plan)		
Club Drive		I live a quarter mile from the trail and it has been such a boon to		
Westfield,		our area. Kids in our neighborhood can now ride downtown to		
MA		the schools, the Athenaeum and playgrounds, and adults can		
		ride downtown for shopping.		
		Disconnected neighborhoods have been connected and long		
		neglected areas have been spruced up and have raised property		
		values for near and far neighbors of the trail.		
		We have lived in our house for over forty years and longed for		
		the trail to be even started for most of those years and now that		
		so much has been done, it is a shame to think that there will be a		
		four year gap in construction.		
		Our city in particular will benefit from the completion of the		
		trail since it will increase foot and bike traffic to the many small		
		stores downtown.		
		Thank you for considering this matter-how can one fail to		
		understand the importance the PVRT has to our community of		
		Westfield?		
Angie		I would like to take this time and ask that the Bike Trail here in	7/25/16	Comment noted
-			7/23/10	Comment noted
Lamothe,		Westfield get the funding it needs to be completed by original		
LMT, LNT		year date 2017! I frequently first is trail with my two boys 6		
		and 1 and would love to connect to the Manual Trail in		
		Easthampton as I have friends who frequent that trail as well.		
		On a personal side, my grandmother worked for Columbia bikes		
		for years and it's such an honor to have this in Westfield and I		
		wish they would have done this year's ago when I was a child		
		riding from the West side of Westfield to the East or North side		
		because of my parents divorce and where my friends were		
		located. I also at some point would like to rent space near the		
		trail as I have a catchy business name of A better path		
		Therapeutic Massage and would like an opportunity to reach out		
		to those who want to continue to better their lives with the help		
		of this wonderful investment completed sooner rather than later!		
L	<u> </u>	or and wonderful investment completed soonel father thall later:		L

		I hope you will consider. In good health,		
, Mike		Please change the funding back to the original date of 2017 from	7/25/16	Comment noted
Sheldon		2019 the funding for the completion of our trail on the latest TIP plan. Thank you		
MassDOT- OTP	TIP	The Massachusetts Department of Transportation (MassDOT) Office of Transportation Planning (OTP) has reviewed the draft 2017 Transportation Improvement Program (TIP) released by the Pioneer Valley Metropolitan Planning Organization (MPO) on June 22, 2016. The following MassDOT comments include both general guidance and specific comments on the MPO's 3C planning process with regard to the content of this document as released for public review.	7/20/16	TIP Updated
		Please note the following comments specific to the information contained in the MPO's draft 2017-2021 TIP. General: Insert the Self Certification, Air Quality, and MPO member signatory pages upon endorsement. General: The document does not contain a geographic equity distribution analysis of TIP projects as requested by MassDOT and directed by FHWA. Provide a map within the document, along with an associated narrative. Page 5 (Preface): Correct the spelling error on "Pioneer Valley Region". Page 11 (Project Priority Criteria/Selection Narrative): Verify if the latest TEC was updated in 2014. Page 16 (Description of Funding Sources): Change "Surface Transportation Program (STP)" to Surface Transportation Block Grant Program (STBGP) and reference STP. Page 19 (Tables 2 and 3 - Operating and Maintenance Ex penditures): Correct the spelling errors on "Available" and "Formula". Page 32(Table 5 – Federal Highway Financial Plan): Update based on commentary and final endorsed TIP. Change the reference from "Table 4" to "Table 6".		
		Page 33 (Federal Aid Regional Project Listings): Page 33 (Organization of Project Listings): These descriptions are helpful for understanding the TIP Template columns. Also consider including a summary table for the Section 1A projects due to the large number of projects programmed in Pioneer Valley from FFY 2017-2021. General: MassDOT has previously provided guidance that GHG Analysis for Section 1A projects, as well as completed Highway and Transit projects, should be included with the draft TIPs. While MPO staff has made efforts to provide the analysis to date, it was not prepared for the release of the draft TIP, and as a result is not included in the draft Statewide Transportation Improvement Program. Please ensure that all relevant GHG analysis is included in the final endorsed TIP, including the Statewide GHG analysis provided by MassDOT. General: Include the project proponents in the additional information column for entities which are using TAP funds and for the Pioneer Valley Bike Share program. General: Upon incorporation of comments from MassDOT and		

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funded with STP.			· ·		
	1				
1 1605302: Revise cost estimate to \$5.396.160 (VOF)					
	MassDOT	EEV2021	605302: Revise cost estimate to \$5,396,160 (YOE).	7/20/16	ITC '11
MassDOT- FFY 2021 FFY 2021 7/20/16 JTC will OTP TIP Tables Program 608374 West Springfield – Reconstruction of Memorial continue to wor				//20/16	continue to work
	OIF	TIF Tables			with PVPC staff,
Memorial Avenue Rotary (0.55 miles – Phase I) in FFY 2021 at MassDOT,					· · · · · · · · · · · · · · · · · · ·
cost of \$6,960,000 (YOE), as per correspondence with PVTA and			· ·		
					Municipalities to
Note: Phase II of Memorial Avenue reconstruction is anticipated develop out					develop out
to be programmed in the future year FFY 2022, as a separate years of TIP					years of TIP
project: 608661 West Springfield – Reconstruction of Memorial			project: 608661 West Springfield – Reconstruction of Memorial		
Avenue (Route 147), from 200 feet East of Colony Road to 250'			Avenue (Route 147), from 200 feet East of Colony Road to 250'		
West of Bridge Street (0.85 Miles – Phase II See previous					

Pioneer Valley Transportation

		comments regarding moving 604434, 607430, and 607502 from		
		FFY 2021 to FFY 2020.		
		608411: Recommend programming \$2,088,000 (YOE) for		
		Springfield - Intersection Improvements at Bay Street and		
		Berkshire Street.		
		605048: Recommend programming \$1,392,130 (YOE) for		
		Northampton – Improvements on Route 5 (Mount Tom Road) –		
		From Bridge E-5-4 over the Manhan River to 850 feet South of		
		1-91 NB Exit 18 Ramp (.85 Miles).		
		608423: Recommend programming \$3,247,466 (YOE) for		
		Easthampton – Southampton – Improvements & Related Work		
		on 2 Sections of Route 10, from West Street to Highland Avenue		
		& from South Street to Bridge S-19-012 over the Manhan River		
		(2.0 miles).		
		608549: Recommend programming \$2,046,674 (YOE) for		
		Agawam-Resurfacing and Related Work on River Road, from		
		575 feet South of Chestnut Laneto School Street (1.8 miles).		
MassDOT-	TIP	Page 81 (Calculation of GHG Impacts for TIP Projects): This	7/20/16	TIP Updated
OTP		information is out of date. Update with the latest guidance		
		provided by MassDOT Sustainable Transportation Group.		
		Please update greenhouse gas emission results on statewide		
		funded projects with the information that will be provided by the		
		Office of Transportation Planning before endorsement.		
		Page 101 (Appendices):		
		Include the geographic equity analysis of TIP projects, as requested by MassDOT.		
		Include Statewide Funding Programs, as requested by		
		MassDOT. Include Glossary of Terms, Acronyms and Funding		
		Sources, as		
		requested by MassDOT.		

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.

III. FEDERAL COMPONENT

Federal Component ______33

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 July 25, 2016 and discussed the following item for endorsement: The Pioneer Valley Region's 2017-2021 Transportation Improvement Program (TIP)

	Massachusetts Department of Transportation (Mass DOT) I, Secretary of the Massachusetts Department of Transportation, hereby Endorse Do Not Endorse Stephanie Pollack Secretary & CEO Mass DOT
	Massachusetts Department of Transportation Highway Division I, Acting Administrator of the Highway Division of MassDOT, hereby Endorse Do Not Endorse the above referenced item. 7/25/2016. Date 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. Walter Gunn Chair - PVPC
	Pioneer Valley Transit Authority (PVTA) I, Administrator of the Pioneer Valley Transit Authority, hereby Endorse Do Not Endorse Mary MacInnes Administrator - PVTA Pioneer Valley Transit Authority, hereby Tal as fills Date
	City of Springfield I, Mayor of the City of Springfield, hereby □ Endorse □ Do Not Endorse the above referenced item.
Fe	Domenic Sarno Date Mayor-Springfield deral Component

	City of Holyoke, hereby		
☐ Endorse	☐ Do Not Endorse	the above referenced	item.
	Alex Mo Mayor-F		Date
City of Chicopo I, Mayor of the C Indorse	ee City of Chicopee, hereby Do Not Endorse	the above referenced	item.
	Richard Mayor-C		Date
Town of Agawa		-	
I, Mayor of the The Endorse	Town of Agawam, hereby Do Not Endorse Richard C Mayor-A	the above referenced	item. 25 July 201 Date
Town of Amher			
I, Board of Select	_	the above referenced Slaughter n-Amherst	
Town of Belche		\cap \cap	
I, Board of Select ☐ Endorse	Do Not Endorse George A Selectma	the above referenced	
Town of Hatfie			
	etmen member of the Tov		*4
Endorse	Do Not Endorse Marcus		J5M/6 Date
	Selectm	an-Hatfield	

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 July 25, 2016 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.

July 25, 2016 endorsement PVMPO 3C Self Certification

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 & CEO Mass DOT	
Massachusetts Department of Transportation Highway Division I, Acting Administrator of the Highway Division of MassDOT, hereby Endorse Do Not Endorse Thomas Tinlin 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.	
Walter Gunn 7/25/16 Date	
Chair - PVPC	
Pioneer Valley Transit Authority (PVTA) I, Administrator of the Pioneer Valley Transit Authority, hereby Endorse Do Not Endorse Mary MacInnes Administrator - PVTA	
City of Springfield	
I, Mayor of the City of Springfield, hereby □ Endorse □ Do Not Endorse the above referenced item.	
Domenic Sarno Date Mayor-Springfield	
City of Holyoke I, Mayor of the City of Holyoke, hereby □ Endorse □ Do Not Endorse the above referenced item.	
Lindoise Lindoise the above referenced from.	

	Alex Mo Mayor-F		Date
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City of Chicopee	Chianna handan		
I, Mayor of the City of			1.4
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	Richard	Kos	Date
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City Town of Agawam I, Mayor of the Town of	·	·	
•	o Not Endorse	the above referenc	ad item
Endorse Do	Not Endorse	the above reference	eu nelli.
	16 hol	a le her	25 July 20
3	Richard		25 July 20 Date
	Mayor-A		Date
	Iviayof-A	gawaiii	
Town of Amherst			
I, Board of Selectmen	member of the Tox	wn of Amherst, here	by
	Not Endorse	the above reference	•
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S	Douglas	Slaughter	Date
	Control of the Contro	n-Amherst	
Town of Belchertown			
I, Board of Selectmen		wn of Belchertown.	hereby
	Not Endorse	the above reference	
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8	George A	Archible	Date
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Town of Hotfield			
	member of the Tox	wn of Hatfield herel	by
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	Marcus	Boyle	Date
Town of Hatfield Board of Selectmen Endorse □ De	member of the Tovo	wn of Hatfield, herel the above reference	

310 CMR 60.05: GLOBAL WARMING SOLUTIONS ACT REQUIREMENTS 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 July 25, 2016 and discussed the following item for endorsement:

This will certify that the 2017 – 2021 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;
- 7. 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.

	Department of Transportation (Mass DOT) the Massachusetts Department of Transport the above referenced Stephanie Pollack Secretary & CEO Mass DOT	tation, hereby
	Department of Transportation Highway Div histrator of the Highway Division of MassDOT	
Endorse	Do Not Endorse the above referenced For Thomas Tinlin Highway Administrator, Mass I	7 / 25 / 2016. Date
	Planning Commission (PVPC) ioneer Valley Planning Commission, hereby Do Not Endorse the above referenced Walter Gunn Chair - PVPC	d item. 725/16 Date
	Transit Authority (PVTA)	
I, Administrator Endorse	of the Pioneer Valley Transit Authority, hereb Do Not Endorse the above referenced Mary MacInnes Administrator - PVTA	
City of Springf I, Mayor of the	ield City of Springfield, hereby □ Do Not Endorse the above referenced	d item.
	Domenic Sarno Mayor-Springfield	Date

July 25, 2016 endorsement PVMPO 2017 GHG

City of Holyoke	
I, Mayor of the City of Holyoke, hereby	
☐ Endorse ☐ Do Not Endorse the above referenced item.	
Alex Morse Date	
Mayor-Holyoke	
wiayor-rioryoke	
City of Chicopee	
I, Mayor of the City of Chicopee, hereby	
☐ Endorse ☐ Do Not Endorse the above referenced item.	
Richard Kos Date	
Mayor-Chicopee	
CITY	
Town of Agawam	
I, Mayor of the Town of Agawam, hereby	
Endorse Do Not Endorse the above referenced item.	
Parhord a loken 25 July	
	2016
Richard Cohen 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.	
Chambers Mandite	16
Lought Danguer 7/25/2	. 2
Douglas Slaughter Date	
Selectman-Amherst	
Town of Belchertown	
I, Board of Selectmen member of the Town of Belchertown, hereby	
Endorse Do Not Endorse the above referenced item.	
11 12 2001	
1/24/11	
George Archible Date	
Selectman-Belchertown	
Town of Hatfield	
I, Board of Selectmen member of the Town of Hatfield, hereby	
Endorse Do Not Endorse the above referenced item.	
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11/10 1/2 25 TVL	16
Marcus Boyle Date	_
Maicus Davie / 17aic	

FUNDING INFORMATION

FEDERAL AID TARGETS

The MassDOT provided the revised PVPC federal aid highway funding targets for the region 8n May 2016. The targets are provided for FFYs 2017 through 2021 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, any project expected to receive Target funds was inflated 4% per year starting in FFY2018 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 2017-2021. 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 4 shows the projected transit funds for FFY 2017 – 2021.

Table 5 Federal Highway Financial Plan

FFY	2017	2018	2019	2020	2021	GRAND TOTAL
Total Target Funds	\$22,438,689	\$22,303,483	\$23,303,193	\$23,855,357	\$23,855,357	\$115,756,079
Total STP	\$16,729,597	\$17,980,011	\$18,946,511	\$19,442,035	\$19,318,103	\$92,416,257
Total CMAQ	\$3,378,100	\$2,702,480	\$2,702,480	\$2,702,480	\$2,702,480	\$14,188,020
Total HSIP	\$1,080,992	\$1,080,992	\$1,080,992	\$1,080,992	\$1,080,992	\$5,404,960
Total TAP	\$1,250,000	\$540,000	\$573,500	\$629,850	\$753,782	\$3,747,132
Total of Programmed	\$20,702,063	\$18,306,054	\$22,634,193	\$7,955,525	\$16,747,848	\$86,345,683
Programmed STP	\$15,499,096	\$13,982,582	\$18,277,221	\$6,584,228	\$14,427,848	\$68,770,975
Programmed CMAQ	\$2,871,975	\$2,702,480	\$2,702,480	\$1,371,297	\$2,320,000	\$11,968,232
Programmed HSIP	\$1,080,992	\$1,080,992	\$1,080,992	\$0	\$0	\$3,242,976
Programmed TAP	\$1,250,000	\$540,000	\$573,500	\$0	\$0	\$2,363,500
Difference	\$1,736,626	\$3,997,429	\$669,000	\$15,899,832	\$7,107,509	\$29,410,396

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.

Table 6 Federal Transit Financial Plan

FFY	2017	2018	2019	2020	2021	GRAND TOTAL
Transit Capitol Investment	\$33,951,762	\$55,197,093	\$30,630,987	\$23,820,756	\$23,196,839	\$166,797,437
5307	\$31,543,435	\$14,630,409	\$15,628,165	\$17,520,685	\$17,143,534	\$96,466,228
5309	\$0	\$0	\$0	\$0	\$0	\$0
5310	\$0	\$0	\$0	\$0	\$0	\$0
5311	\$0	\$0	\$0	\$0	\$0	\$0
5337	\$0	\$0	\$0	\$0	\$0	\$0
5339	\$2,408,327	\$1,046,684	\$1,062,384	\$1,094,495	\$1,110,913	\$6,722,803
5320	\$0		\$0	\$0	\$0	\$0
Other Federal	\$0		\$0	\$0	\$0	\$0
Other Non Federal	\$0	\$39,520,000	\$13,940,438	\$5,205,576	\$4,942,392	\$63,608,406

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 – 2012 TO 2016

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 (2012 through 2016) 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 34 projects in 18 communities over the past 5 years. The total funding commitment for these projects was just over \$82 million. During this time the PVMPO averaged \$16.4 million per year in funding. The average cost per project was \$2.4 million 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 (42%) of the communities in the region.

Table 7 Projects Completed with Federal Target Funds by MPO Sub-Region (2012-2016)

MPO Region	2012	2013	2014	2015	2016	Total Projects	Total Funds	% Funds	Popul	ation
Sub-Region 1	2	2	3	2	2	11	\$20,308,324	24.73%	248,238	39.94%
Sub-Region 2	1	2	0	0	2	5	\$16,184,835	19.71%	107,425	17.28%
Sub-Region 3	2	2	3	1	0	8	\$16,012,915	19.50%	105,185	16.92%
Sub-Region 4	1	1	2	1	3	8	\$26,138,311	31.83%	132,675	21.35%
Sub-Region 5	0	1	0	1	0	2	\$3,462,000	4.22%	28,047	4.51%
Totals	6	8	8	5	7	34	\$82,106,385		621,570	

Source: PVPC TIP archives

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 10% more funding than population over the past 5 years. This was due to the MPO commitment to fund two large projects, one in Belchertown (Route 181 reconstruction for \$9 million) and one in project in Pelham (Amherst Road reconstruction for \$7.2 million). At the request of the MPO, the Pelham project was split in half and funded over two years (2013 and 2015).

The PVMPO is committed to funding transportation improvement projects across the entire region. The community data provided in Table 2 shows the extent to which this has been achieved over the past 5 years. The PVMPO has accomplished this while supporting communities and projects of all shape and size. 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.

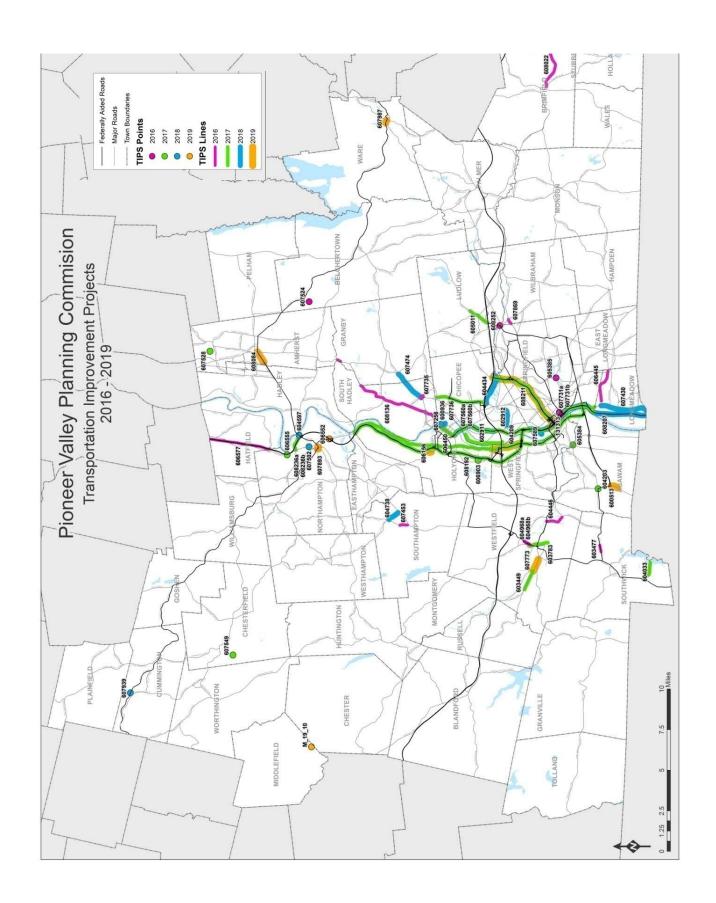
Table 8 Projects Completed with Federal Target Funds by Municipality (2012-2016)

Town	2012	2013	2014	2015	2016	Total Projects	Total Funds	% Funds
Agawam	1					1	\$4,239,802	5.16%
Amherst	1					1	\$4,006,890	4.88%
Belchertown	1		1			2	\$10,556,497	12.86%
Blandford								
Brimfield					1	1	\$3,500,000	4.26%
Chester								
Chesterfield								
Chicopee	1	1	1			3	\$3,358,632	4.09%
Cummington				1		1	\$1,500,000	1.83%
East Longmeadow								
Easthampton		1	1			2	\$5,317,965	6.48%
Goshen								
Granby								
Granville								
Hadley				1		1	\$4,038,060	4.92%
Hampden								
Hatfield								
Holland								
Holyoke		1				1	\$1,352,827	1.65%
Huntington								
Longmeadow			1		1	2	\$3,512,048	4.28%
Ludlow								
Middlefield								
Monson								
Montgomery								
Northampton		1	2			3	\$1,650,000	2.01%
Palmer								
Pelham		1		1		2	\$7,277,338	8.86%
Plainfield		1				1	\$1,962,000	2.39%
Russell								
South Hadley	1					1	\$1,000,000	1.22%
Southampton								
Southwick								
Springfield	1		2	2	2	7	\$15,596,865	19.00%
Tolland								
Wales								
Ware								
West Springfield		1				1	\$1,247,950	1.52%
Westfield		1			2	3	\$10,697,083	13.03%
Westhampton								

Table 8 Projects Completed with Federal Target Funds by Municipality (continued)

Town	2012	2013	2014	2015	2016	Total Projects	Total Funds	% Funds
Wilbraham					1	1	\$1,292,428	1.57%
Williamsburg								
Worthington								
Totals	6	8	8	5	7	34	\$82,106,385	

Source: PVPC TIP Archive



IV. FEDERAL AID REGIONAL PROJECT LISTINGS

The following is a complete listing of the Pioneer Valley Federally Funded Transportation Improvement Projects for Fiscal Years 2017-2021.

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.

Regional Target - 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 All Project Funded in Section 1 A Federal Aid Target Projects

FFY	Project Description	SID	Project Information
2017	PIONEER VALLEY REGIONAL BICYCLE SHARE (PHASE 1)	PV001	46.5 TEC Score Regional Project CMAQ
2017	HOLYOKE- IMPROVEMENTS TO LOWER WESTFIELD ROAD ON I-91 (INTERCHANGE 15)	606903	38.5 TEC Pre 25% (YOE \$1,700,004) STP
2017	AMHERST- HADLEY- SIDEWALK & WHEELCHAIR RAMP CONSTRUCTION ON ROUTE 9	608023	13.5 TEC PSE (YOE \$1,204,050) STP, TAP
2017	SOUTHWICK- RECONSTRUCTION CONGAMOND ROAD (ROUTE 168), FROM COLLEGE HIGHWAY & ENDS 250 FEET SHORT OF STATE LINE (1.2 MILES)	604033	49.5 TEC Score 25% (YOE \$6,549,979) STP
2017	GOSHEN- RESURFACING AND RELATED WORK ON ROUTE 9, FROM CUMMINGTON T.L. TO ROUTE 112 (CAPE STREET)	608126	13 TEC 25% (YOE \$ 4,190,709) STP
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	40 TEC, 25% (YOE \$5,485,350) STP, HSIP, TAP
2017	AMHERST- HADLEY- SIDEWALK & WHEELCHAIR RAMP CONSTRUCTION ON ROUTE 9	608023	13.5 TEC PSE (YOE \$1,204,050) STP, TAP, Amherst and Hadley
2018	WESTFIELD- ROUTE 20 ACCESS IMPROVEMENTS ON COURT STREET & WESTERN AVENUE, FROM LLEWELLYN DRIVE EASTERLY TO LLOYDS HILL ROAD (PHASE I)	603449	57.5 TEC, 25% Design, (HPP-4287 \$2,503,688 Total with Match) (YOE \$4,992,000) HPP, STP
2018	SOUTHAMPTON- RECONSTRUCTION OF GLENDALE ROAD (PHASE II) FROM COLLEGE HIGHWAY (RT 10) NORTHWESTERLY TO POMEROY MEADOW RD (3,801 FEET)	604738	18.8 TEC Score 75% (YOE \$2,386,800) STP
2018	NORTHAMPTON- IMPROVEMENTS ON I-91 INTERCHANGE 19 AT ROUTE 9 AND DAMON ROAD	604597	63 TEC 25% (YOE \$5,742,322) STP, TAP, CMAQ
2018	NORTHAMPTON- RECONSTRUCTION OF DAMON ROAD, FROM ROUTE 9 TO ROUTE 5, INCLUDES DRAINAGE SYSTEM REPAIRS & SLOPE STABILIZATION AT THE NORWOTTUCK RAIL TRAIL	608236	64.5 TEC 25% (YOE \$5,400,620) CMAQ
2018	AGAWAM- INTERSECTION IMPROVEMENTS AT ROUTE 187 & ROUTE 57	604203	58 TEC, Pre 25% (YOE \$2,288,000) HSIP, STP
2018	PALMER- RESURFACING AND RELATED WORK ON ROUTE 67, FROM 0.3 MILES EAST OF ROUTE 20 TO THE WARREN T.L. (5 MILES)	608253	15.5 TEC 0% (YOE \$3,138,441) STP
2019	AGAWAM- RECONSTRUCTION OF ROUTE 187 FROM 425 FT. SOUTH OF S. WESTFIELD STREET TO ROUTE 57 (0.3 MILES - PHASE I)	600513	27 TEC Score PRE 25% (YOE \$1,933,200) STP
2019	WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH STREET	607987	54.5 TEC Score 25% (YOE \$2,138,400) STP, TAP, CMAQ
2019	WESTFIELD- IMPROVEMENTS & RELATED WORK ON ROUTE 20, COURT STEET & WESTERN AVENUE, LLOYDS HILL ROAD TO HIGH STREET/MILL STREET INTERSECTION (PHASE II)	607773	48.5 TEC Score 25% (YOE 6,480,000) STP, (HPP will be used for Phase I)
2019	HOLYOKE- WEST SPRINGFIELD- REHABILITATION OF ROUTE 5 (RIVERDALE ROAD), FROM I-91 (INTERCHANGE 13) TO MAIN STREET IN HOLYOKE & FROM ELM STREET TO NORTH ELM STREET IN WEST SPRINGFIELD (3.2 MILES)	604209	50 TEC Score Pre 25% (YOE \$4,814,456) STP
2019	HOLYOKE- RESURFACING & RELATED WORK ON HERITAGE STREET, FRONT STREET & DWIGHT STREET FROM MAPLE ST TO THE 1ST LEVEL CANAL (.54 MILES)	607256	46 TEC Score 25% (YOE \$3,104,024) STP
2019	AMHERST- IMPROVEMENTS & RELATED WORK ON ROUTES 9 & 116, FROM UNIVERSITY DRIVE TO SOUTH PLEASANT STREET (0.8 MILES)	608084	48.5 TEC Score Pre 25% (YOE \$1,356,113) STP

Federal Aid Regional Project Listings _______53

2019	HOLYOKE- RECONSTRUCTION OF I-91 INTERCHANGE 17 & ROUTE 141	606156	46.5 TEC Score Pre 25% (YOE \$3,229,986) HSIP, CMAQ, STP
2020	GRANBY- IMPROVEMENTS @ 2 LOCATIONS ON ROUTE 202: SCHOOL STREET & FIVE CORNERS	606895	42 TEC 25% (YOE \$1,371,297) CMAQ
2020	HADLEY- RECONSTRUCTION ON ROUTE 9, FROM EAST STREET TO MAPLE/SOUTH MAPLE ST	605032	46 TEC 25% (YOE \$5,396,160) STP
2020	AGAWAM- RESURFACING & RELATED WORK ON ROUTE 159, FROM MEADOW STREET TO 150 FT. SOUTH OF SUFFIELD STREET (1.1 MILES)	607626	31.5 TEC 75% (YOE \$ 1,624,731) STP, TAP
2021	NORTHAMPTON- INTERSECTION IMPROVEMENTS @ ELM STREET, MAIN STREET, WEST STREET, STATE STREET & NEW SOUTH STREET	607893	68 TEC Pre 25% CMAQ (YOE \$2,320,000)
2021	NORTHAMPTON- INTERSECTION IMPROVEMENTS AT KING STREET, NORTH STREET & SUMMER STREET AND AT KING STREET & FINN STREET	607502	64.5 TEC, Pre 25% STP (YOE \$2,818,938)
2021	CHICOPEE- RECONSTRUCTION & RELATED WORK ON FULLER ROAD, FROM MEMORIAL DR (RTE 33) TO SHAWINIGAN DR (2.0 MILES)	604434	47.6 Pre 25% STP, (YOE \$7,203,600)
2021	LONGMEADOW- RESURFACING & RELATED WORK ON LONGMEADOW STREET (ROUTE 5), FROM THE CT S.L. TO CONVERSE STREET (2.88 MILES)	607430	34.4 TEC 25/75% STP (YOE \$3,175,848)

Table 10 Federally Funded Projects Year 2017

djustment Type ▼	MassDOT Project ID ▼	мро ▼	Municipality Name ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼
Section 1A / Feder	ral Aid Target Pro	jects								
HSIP - Highway Sa	afety Improveme	nt Program								
	605011	Pioneer Valley	Ludlow	LUDLOW- RECONSTRUCTION OF CENTER STREET (ROUTE 21), FROM 35' WEST OF BEACHSIDE DRIVE WESTERLY TO GAS LINE BESIDE MTA OVERPASS (3,500 FEET)	2	HSIP	\$ 1,080,992	\$ 972,893	\$ 108,099	40 TEC, 25% (YOE \$5,485,350) STP, HS
							\$ -	\$ -	\$ -	
		-				HSIP Subtotal ▶	\$ 1,080,992	\$ 972,893	\$ 108,099	■ 90% Federal + 10% Non-Federal
CMAO - Congestio	on Mitigation and	Air Quality Improve	ment Program							
JIIIAQ GONGGONG	PV001	Pioneer Valley	Multiple	PIONEER VALLEY REGIONAL BICYCLE SHARE (PHASE 1)	2	CMAQ	\$ 1,171,971	\$ 937,577	\$ 234,394	46.5 TEC Score Regional Project CMAC
	606903	Pioneer Valley	Holyoke	HOLYOKE- IMPROVEMENTS TO LOWER WESTFIELD ROAD ON I-91 (INTERCHANGE 15)	2	CMAQ	\$ 1,700,004	\$ 1,360,003	\$ 340,001	38.5 TEC Pre 25% (YOE \$1,700,004) ST
						CMAQ Subtotal ▶	\$ 2,871,975	\$ 2,297,580	\$ 574,395	■ 80% Federal + 20% Non-Federal
AP - Transportati	608023	Program Pioneer Valley	Multiple	AMHERST- HADLEY- SIDEWALK & WHEELCHAIR RAMP CONSTRUCTION ON ROUTE 9	2	TAP	\$ 850,000	\$ 680,000	\$ 170,000	13.5 TEC PSE (YOE \$1,204,050) STP, T Amherst and Hadley
	605011	Pioneer Valley	Ludlow	LUDLOW- RECONSTRUCTION OF CENTER STREET (ROUTE 21), FROM 35' WEST OF BEACHSIDE DRIVE WESTERLY TO GAS LINE BESIDE MTA OVERPASS	2	TAP	\$ 400,000	\$ 320,000	\$ 80,000	40 TEC, 25% (YOE \$5,485,350) STP, HS TAP, Ludlow
				WESTERLI TO GAS LINE BESIDE WITA OVERFASS		TAP Subtotal ▶	\$ 1,250,000	\$ 1,000,000	\$ 250,000	■ 80% Federal + 20% Non-Federal
								1	l	_
Non-CMAQ/HSIP/T	608023	Pioneer Valley	Amherst	AMHERST- HADLEY- SIDEWALK & WHEELCHAIR RAMP CONSTRUCTION ON ROUTE 9	2	STP	\$ 354,050	\$ 283,240	\$ 70,810	13.5 TEC PSE (YOE \$1,204,050) STP, T
	604033	Pioneer Valley	Southwick	SOUTHWICK- RECONSTRUCTION CONGAMOND ROAD (ROUTE 168), FROM COLLEGE HIGHWAY & ENDS 250 FEET SHORT OF STATE LINE (1.2 MILES)	2	STP	\$ 6,549,979	\$ 5,239,983	\$ 1,309,996	49.5 TEC Score 25% (YOE \$6,549,979) S
	608126	Pioneer Valley	Goshen	GOSHEN- RESURFACING AND RELATED WORK ON ROUTE 9, FROM CUMMINGTON T.L. TO ROUTE 112 (CAPE STREET)	1	STP	\$ 4,190,709	\$ 3,352,567	\$ 838,142	13 TEC 25% (YOE \$ 4,190,709) STP
	605011	Pioneer Valley	Ludlow	LUDLOW- RECONSTRUCTION OF CENTER STREET (ROUTE 21), FROM 35' WEST OF BEACHSIDE DRIVE WESTERLY TO GAS LINE BESIDE MTA OVERPASS	2	STP	\$ 4,004,358	\$ 3,203,486	\$ 800,872	40 TEC, 25% (YOE \$5,485,350) STP, HSIP

► Section 1A / Fiscal Constraint Analysis

Total Federal Aid Target Funds Programmed ▶	\$ 20,302,063	\$ 22,438,689	■Total Target	\$ 2,136,626	Target Funds Available
Total Non-CMAQ/HSIP/TAP (Other) Programmed ▶	\$ 15,099,096	\$ 16,729,598	■ Max. Non-	\$ 1,630,502	Non-CMAQ/HSIP/TAP (Other)
			CMAQ/HSIP/TAP		Available
Total HSIP Programmed ▶	\$ 1,080,992	\$ 1,080,992	■ Min. HSIP	\$ -	HSIP Recommended Met
Total CMAQ Programmed ▶	\$ 2,871,975	\$ 3,378,100	■ Min. CMAQ	\$ 506,125	CMAQ Recommended Not Met
Total TAP Programmed ▶	\$ 1.250.000	\$ 1.250.000	■ Min. TAP	\$ -	TAP Recommended Met

Section 1B / Fed	leral Aid Bridge	Projects											
Statewide Syste	matic Maintenar	nce Program											
				No Projects Programmed			\$	- 9	6	-	\$	-	
				No Projects Programmed			\$	- 3	5	-	\$	-	
	_		l	Statewide Bridge Mair	ntenance P	rogram Subtotal •	\$	- \$	5	-	\$	-	■ 80% Federal + 20% Non-Federal
							-						1
n System													
	605384	Pioneer Valley	Agawam	AGAWAM- WEST SPRINGFIELD- BRIDGE REPLACEMENT, A-05-002=W-21-014, ROUTE 147 OVER THE WESTFIELD RIVER & INTERSECTION & SIGNAL IMPROVEMENTS @ 3 LOCATIONS	2	NHPP	\$	23,173,893	18	,539,114	\$	4,634,779	\$23,173,893 5M Bridge, 16M STP - STATEWIDE Infrastructure. OK.
							\$	- 9	B	-	\$	-	
					On	 System Subtotal ▶	\$					4,634,779	◀ 80% Federal + 20% Non-Federal
													1
ff-System													
	607528	Pioneer Valley	Amherst	AMHERST- BRIDGE REPLACEMENT, A-08-008, MILL STREET OVER MILL RIVER	2	STP-BR-OFF	\$	2,075,400	1	,660,320	\$	415,080	
	607549	Pioneer Valley	Chesterfield	CHESTERFIELD- BRIDGE REPLACEMENT, C-12-009, IRELAND STREET OVER WEST BRANCH BRONSON BROOK	1	STP-BR-OFF	\$	3,341,040	\$ 2	,672,832	\$	668,208	
		<u> </u>			Off-	System Subtotal •	\$	5,416,440	4	,333,152	\$	1,083,288	■ 80% Federal + 20% Non-Federal
Madamida Buldua								'		'			
tatewide Bridge	Inspection Progra	m		No Projects Programmed			\$	- 9		-	\$	-	
				No Projects Programmed			\$	- 9	5	-	\$	_	
				Statewide Bridge Ir	spection P	rogram Subtotal ▶	▶ \$	- \$	5	-	\$	-	◀ 80% Federal + 20% Non-Federal
							<u> </u>						I
action 1C / Fac	leral Aid Non-Ta	rant Projects											
ection to / Fet	ierai Alu Noli-Ta	iget Frojects											
ther Federal A	id			No Draigate Draggement			1 6	1 a		1	•		l
				No Projects Programmed			\$	- 9			\$	-	
				No Projects Programmed			\$	- \$			\$	-	
					Other Fede	eral Aid Subtotal I	▶	- (5	-	\$	-	◀ Funding Split Varies by Funding Source
	leral Aid Major 8	State Category Project	s										
Section 1D / Fed													
	Infrastructure			ODDINGELE D. VIADUOT DEGIS DEDI AGENENT OF G		NHPP	\$	9,000,000	5 7	,200,000	\$	1,800,000	AC Yr 4 of 4. Total Cost = \$183M.
	Infrastructure 607731	Pioneer Valley	Springfield	SPRINGFIELD- VIADUCT DECK REPLACEMENT OF S-	2	1311111	ΙΨ	-,,		,,	Ψ	.,000,000	710 11 101 11 101a1 0001
Section 1D / Fec Regional Major		Pioneer Valley	Springfield	24-061 ON I-91 (EARLY ACTION)	2		\$	- 9			\$	-	, to 11 to 11 total cost \$100

atomas Americans with Disabilit	y Act Implementation	n Plan						
			No Projects Programmed		\$ - \$		-	
			No Projects Programmed		\$ - \$	- \$	-	
·			Statewide ADA Imp	lementation Plan Subtotal ▶	\$ - \$	- \$	-	◀ 80% Federal + 20% Non-Federal
Statewide Congestion Mitigation a	and Air Quality							
			No Projects Programmed		\$ - \$	- \$	-	
			No Projects Programmed		\$ - \$	- \$	-	
ļ.				Statewide CMAQ Subtotal ►	\$ - \$	- \$	-	■ 80% Federal + 20% Non-Federal
Statewide HSIP Program								
Statewide Hoir Flogram			No Projects Programmed		\$ - \$	- \$	-	
			No Projects Programmed		\$ - 9	- \$	-	
				de HSIP Program Subtotal ▶	\$ - \$	- \$		■ 90% Federal + 10% Non-Federal
				J [1 -		
Statewide Infrastructure Program				<u>, </u>	·			
			No Projects Programmed		\$ - \$		-	
			No Projects Programmed		\$ - \$	- \$	-	
			Statewide Infras	tructure Program Subtotal ▶	\$ - \$	- \$	-	◀ 80% Federal + 20% Non-Federal
Statewide Interstate Maintenance F	Program							
608211	Pioneer Valley	Multiple	CHICOPEE- SPRINGFIELD- INTERSTATE MAINTENANCE & RELATED WORK ON I-291	NHPP 2	\$ 4,118,400 \$	3,706,560 \$	411,840	
			MAINTENANCE & RELATED WORK ON 1-291		\$ - 9	- \$	-	
			Statewide Interstate Main	tenance Program Subtotal ▶			411 840	■ 90% Federal + 10% Non-Federal
				[,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-,:, -	,	
Statewide Intelligent Transportatio	n Systems		No Projects Programmed		\$ - 9	- \$		
			No Projects Programmed		\$ - \$			
			No Frojects Frogrammed		.			4 900/ Fodovol - 200/ Non Fodovol
				Statewide ITS Subtotal ▶	\$ - \$	- \$	-	■ 80% Federal + 20% Non-Federal
Statewide National Freight Program	n		No Decise to Description		ф л	· •		
			No Projects Programmed		\$ - \$		-	
			No Projects Programmed		\$ - \$		-	
								■ 80% Federal + 20% Non-Federal
			Statewide Nationa	Freight Program Subtotal ▶	\$ - \$	- \$		
► Statewide National Highway Syster	m Preservation Prog	ram					-	
►Statewide National Highway Syster	m Preservation Progr	ram	Statewide Nationa No Projects Programmed		\$ - \$	- \$	-	
≻Statewide National Highway System	m Preservation Progr	ram				- \$		
►Statewide National Highway System	m Preservation Prog	ram	No Projects Programmed No Projects Programmed		\$ - \ \$ \$ - \ \$; - \$; - \$	-	■ 80% Federal + 20% Non-Federal
	m Preservation Progr	ram	No Projects Programmed No Projects Programmed		\$ - \ \$ \$ - \ \$; - \$; - \$	-	
	m Preservation Progr	ram	No Projects Programmed No Projects Programmed	ervation Program Subtotal ▶ [\$ - \ \$ \$ - \ \$	- \$ - \$ - \$	-	
➤ Statewide National Highway System Statewide Planning Program	m Preservation Progr	ram	No Projects Programmed No Projects Programmed Statewide NHS Pres	ervation Program Subtotal ▶ [\$ - \$ \$ - \$ \$ - \$	- \$ 5 - \$ 5 - \$	-	

			No Projects Programmed			\$	- \$	-	\$	-	
			No Projects Programmed			\$	- \$	-	\$	-	
			Statewide F	RR Grade Cross	sings Subtotal ▶	\$	- \$	-	\$	-	◀ 80% Federal + 20% Non-Federal
Statewide Safe Routes to	Schools Program										
			No Projects Programmed			\$	- \$	-	\$	-	
			No Projects Programmed			\$	- \$	-	\$	-	
			Statewide Safe Routes	to Schools Prog	gram Subtotal ▶	\$	- \$	-	\$	-	■ Funding Split Varies by Funding Source
Statewide Stormwater Re	trofits										
60819		Multiple	AGAWAM- CHICOPEE- HOLYOKE- WEST SPRINGFIELD- STORMWATER IMPROVEMENTS ALONG I-91, I-391, ROUTE 57 AND ROUTE 5	2 5	STP-TE	\$ 1,276,0	062 \$	1,020,850	\$	255,212	
						\$	- \$	-	\$	-	
			Statewide S	Stormwater Retr	rofits Subtotal ►	\$ 1,276,0	62 \$	1,020,850	\$	255,212	■ 80% Federal + 20% Non-Federal
Statewide Transportation	Enhancements										
			No Projects Programmed			\$	- \$	-	\$	-	
			No Projects Programmed			\$	- \$	-	\$	-	
	L		Statewide Transporta	ation Enhancem	nents Subtotal ►	\$	- \$	-	\$	-	■ 80% Federal + 20% Non-Federal
Other Statewide Items											
			ABP GANS Repayment			\$	- \$		\$	-	
			Award Adjustments, Change Orders, Project Value Changes, Etc.			\$	- \$	-	\$	-	
			DBEs, FAPO, Pavement Lab Retrofits, and Misc.			\$	- \$	-	\$	-	
			Programs								
			Diagning				•				
			Planning Statewide Design and Right of Way			\$	- \$ - \$		\$	-	
			Statewide Design and Right of Way Statewide Recreational Trails	ther Statewide It	tems Subtotal ▶	\$		-		-	▼ Funding Split Varies by Funding Source
Section 2A / Non-Federal	Projects		Statewide Design and Right of Way Statewide Recreational Trails	ther Statewide It	tems Subtotal ▶	\$	- \$ - \$	-	\$	-	■ Funding Split Varies by Funding Source
	Projects		Statewide Design and Right of Way Statewide Recreational Trails Of			\$ \$ \$ \$ \$	- \$ - \$	-	\$ \$ \$	-	■ Funding Split Varies by Funding Source
	Projects		Statewide Design and Right of Way Statewide Recreational Trails Of No Projects Programmed	N	NFA	\$ \$ \$ \$ \$	- \$ - \$	-	\$ \$	-	■ Funding Split Varies by Funding Source 1. **The Property of the Proper
	Projects		Statewide Design and Right of Way Statewide Recreational Trails Of	N		\$ \$ \$ \$ \$	- \$ - \$ - \$	-	\$ \$ \$:	◀ Funding Split Varies by Funding Source
	Projects		Statewide Design and Right of Way Statewide Recreational Trails Of No Projects Programmed	N	NFA	\$ \$ \$ \$	- \$ - \$ - \$	-	\$ \$		▼ Funding Split Varies by Funding Source ■ Funding Split Varies by Funding Source ■ 100% Non-Federal
Section 2A / Non-Federal Non Federal Aid Section 2B / Non-Federal	,		Statewide Design and Right of Way Statewide Recreational Trails Of No Projects Programmed	N	NFA NFA	\$ \$ \$ \$	- \$ - \$ - \$	-	\$ \$ \$		
Non Federal Aid	Bridge Projects		Statewide Design and Right of Way Statewide Recreational Trails Of No Projects Programmed	N	NFA NFA	\$ \$ \$ \$	- \$ - \$ - \$	-	\$ \$ \$		
Non Federal Aid	Bridge Projects		Statewide Design and Right of Way Statewide Recreational Trails Of No Projects Programmed	Non-Federa	NFA NFA	\$ \$ \$ \$	- \$ - \$ - \$	-	\$ \$ \$		
Non Federal Aid	Bridge Projects		Statewide Design and Right of Way Statewide Recreational Trails Of No Projects Programmed No Projects Programmed No Projects Programmed	Non-Federa	NFA NFA al Aid Subtotal▶	\$ \$ \$ \$ \$	- \$ - \$ - \$	-	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	-	
Non Federal Aid Section 2B / Non-Federal	Bridge Projects		Statewide Design and Right of Way Statewide Recreational Trails Of No Projects Programmed No Projects Programmed No Projects Programmed No Projects Programmed No Projects Programmed	Non-Federa	NFA NFA al Aid Subtotal ▶ NFA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ - \$	-	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	-	■100% Non-Federal
Non Federal Aid	Bridge Projects		Statewide Design and Right of Way Statewide Recreational Trails Of No Projects Programmed No Projects Programmed No Projects Programmed	Non-Federa	NFA NFA Ald Subtotal▶ NFA NFA NFA Ojects Subtotal▶	\$ \$ \$ \$ \$ \$ \$	- \$ - \$ - \$		\$ \$ \$ \$ \$ \$ \$	-	
Non Federal Aid Section 2B / Non-Federal Section 2B / Non-Federal	Bridge Projects Bridge Projects	Region MF	Statewide Design and Right of Way Statewide Recreational Trails Of No Projects Programmed No Projects Programmed No Projects Programmed No Projects Programmed No Projects Programmed	Non-Federa	NFA NFA Ald Subtotal▶ NFA NFA NFA Ojects Subtotal▶	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ - \$		\$ \$ \$ \$ \$ \$ \$		■100% Non-Federal
Non Federal Aid Section 2B / Non-Federal Section 2B / Non-Federal	Bridge Projects Bridge Projects	Region MF	Statewide Design and Right of Way Statewide Recreational Trails Of No Projects Programmed No Projects Programmed No Projects Programmed No Projects Programmed Section 2B / Non-Fe	Non-Federa	NFA NFA al Aid Subtotal▶ NFA NFA NFA ojects Subtotal▶	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$	Gection 2:	\$ \$ \$ \$ \$ \$ Total of Projects		■100% Non-Federal

Table 11: Federally Funded Projects 2018

amendment/ adjustment Type ▼	MassDOT Project ID ▼	мро ▼	Municipality Name ▼	MassDOT Project Description ▼		Funding Source ▼			Federal ▼	Funds	Non-Federal Funds ▼	Additional Information ▼
Section 1A / Feder	ral Aid Target Pro	ojects										
HSIP - Highway Sa	afety Improveme	nt Program										
non ingnway oc	604203	Pioneer Valley	Agawam	AGAWAM- INTERSECTION IMPROVEMENTS AT ROUTE 187 & ROUTE 57	2	HSIP	\$	1,080,992		72,893		099 58 TEC, Pre 25% (YOE \$2,288,000) HSIP, S
							\$	-	\$	-	\$	-
	-		·			HSIP Subtotal ▶	\$	1,080,992	\$ 9	72,893	\$ 108	099 ◀ 90% Federal + 10% Non-Federal
· CMAQ - Congestic	on Mitigation and	l Air Quality Improve	ment Program									
	604597	Pioneer Valley	Northampton	NORTHAMPTON- IMPROVEMENTS ON I-91 INTERCHANGE 19 AT ROUTE 9 AND DAMON ROAD	2	CMAQ	\$	2,702,480	\$ 2,	61,984	\$ 540	496 63 TEC 25% (YOE \$5,742,322) STP, TAP CMAQ
							\$	-	\$	-	\$	-
						CMAQ Subtotal ►	\$	2,702,480	\$ 2,	61,984	\$ 540	496 ◀ 80% Federal + 20% Non-Federal
TAP - Transportati	ion Alternatives I	Program										
	604597	Pioneer Valley	Northampton	NORTHAMPTON- IMPROVEMENTS ON I-91 INTERCHANGE 19 AT ROUTE 9 AND DAMON ROAD	2	TAP	\$	540,000	\$ 4	32,000	\$ 108	000 63 TEC 25% (YOE \$5,742,322) STP, TAP Northampton
							\$	-	\$	-	\$	-
						TAP Subtotal ▶	\$	540,000	\$ 4	32,000	\$ 108	000 ◀ 80% Federal + 20% Non-Federal
Non-CMAQ/HSIP/T	TAD (04h)											
NOII-CMAQ/H3IF/I	603449	Pioneer Valley	Westfield	WESTFIELD- ROUTE 20 ACCESS IMPROVEMENTS ON COURT STREET & WESTERN AVENUE, FROM LLEWELLYN DRIVE EASTERLY TO LLOYDS HILL ROAD (PHASE I)	2	STP	\$	2,488,312	\$ 1,9	90,650	\$ 497	662 57.5 TEC, 25% Design, (HPP-4287 \$2,503,6 Total with Match) (YOE \$4,992,000) HPP, S
	604738	Pioneer Valley	Southampton	SOUTHAMPTON- RECONSTRUCTION OF GLENDALE ROAD (PHASE II) FROM COLLEGE HIGHWAY (RT 10) NORTHWESTERLY TO POMEROY MEADOW RD (3,801 FEET)	2	STP	\$	2,386,800	\$ 1,9	009,440	\$ 477	360 18.8 TEC Score 75% (YOE \$2,386,800) S
	604597	Pioneer Valley	Northampton	NORTHAMPTON- IMPROVEMENTS ON I-91 INTERCHANGE 19 AT ROUTE 9 AND DAMON ROAD	2	STP	\$	2,499,842	\$ 1,9	99,874	\$ 499	968 63 TEC 25% (YOE \$5,742,322) STP, TAP CMAQ
	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	\$	5,400,620	\$ 4,3	20,496	\$ 1,080	124 64.5 TEC 25% (YOE \$5,400,620) CMAQ
	604203	Pioneer Valley	Agawam	AGAWAM- INTERSECTION IMPROVEMENTS AT ROUTE 187 & ROUTE 57	2	STP	\$	1,207,008	\$ 9	65,606	\$ 241	402 58 TEC, Pre 25% (YOE \$2,288,000) HSIP, S
	608253	Pioneer Valley	Palmer	PALMER- RESURFACING AND RELATED WORK ON ROUTE 67, FROM 0.3 MILES EAST OF ROUTE 20 TO THE WARREN T.L. (5 MILES)	2	STP	\$	3,138,441	\$ 2,5	10,753	\$ 627	688 15.5 TEC 0% (YOE \$3,138,441) STP
	_			, ,	LICID/TAD	(Other) Subtotal ▶	-	47.404.000		00 040	0 0 10	205 ◀ 80% Federal + 20% Non-Federal

► Section 1A / Fiscal Constraint Analysis

Total Federal Aid Target Funds Programmed ▶	\$ 21,444,495	\$ 22,303,483	■Total Target	\$ 858,988	Target Funds Available
Total Non-CMAQ/HSIP/TAP (Other) Programmed ▶	\$ 17,121,023	\$ 17,980,011	■ Max. Non-	\$ 858,988	Non-CMAQ/HSIP/TAP (Other)
			CMAQ/HSIP/TAP		Available
Total HSIP Programmed ▶	\$ 1,080,992	\$ 1,080,992	■ Min. HSIP	\$ -	HSIP Recommended Met
Total CMAQ Programmed ▶	\$ 2,702,480	\$ 2,702,480	■ Min. CMAQ	\$ -	CMAQ Recommended Met
Total TAP Programmed ▶	\$ 540.000	\$ 540.000	■ Min. TAP	\$ -	TAP Recommended Met

		Projects											
Statewide Sys	stematic Maintenan	ce Program											
	607939	Pioneer Valley	Cummington	CUMMINGTON- BRIDGE MAINTENANCE, C-21-025, ROUTE 9 OVER THE WESTFIELD RIVER	1	NHPP	\$	312,000	\$	249,600	\$	62,400	
							\$		\$		\$	-	
	`			Statewide Bridge Ma	intenance F	Program Subto	otal ► \$	312,000	\$	249,600	\$	62,400	◀ 80% Federal + 20% Non-Federal
n System													
	600936	Pioneer Valley	Holyoke	HOLYOKE- BRIDGE REPLACEMENT, H-21-018, LYMAN STREET OVER FIRST LEVEL CANAL	2	NHPP	\$	12,233,107	\$ 9	,786,486	\$	2,446,621	
							\$		\$		\$	-	
					On	System Subto	otal ► \$	12,233,107	\$ 9	,786,486	\$	2,446,621	■ 80% Federal + 20% Non-Federal
Off-System													
0,0.0111				No Projects Programmed			\$	-	\$	-	\$	-	
				No Projects Programmed			\$	-	\$	-	\$	-	
		<u> </u>	-	·	Off-	-System Subto	otal ► \$	-	\$	-	\$	-	■ 80% Federal + 20% Non-Federal
Statewide Bridg	ge Inspection Progran	n											
	,,,			No Projects Programmed			\$	-	\$	-	\$	-	
				No Projects Programmed			\$	-	\$	-	\$	-	
				No Projects Programmed Statewide Bridge I	Inspection F	Program Subto	Ψ.		\$		\$		■ 80% Federal + 20% Non-Federal
	ederal Aid Non-Tar	get Projects			Inspection F	Program Subto	Ψ.						■ 80% Federal + 20% Non-Federal
		get Projects Pioneer Valley	Westfield	Statewide Bridge I WESTFIELD- ROUTE 20 ACCESS IMPROVEMENTS	nspection F	Program Subto	Ψ.		\$		\$		57.5 TEC, 25% Design, (HPP-4287 \$2,503,
	Aid		Westfield	Statewide Bridge I	Inspection F		otal ► \$	-	\$	-	\$	-	57.5 TEC, 25% Design, (HPP-4287 \$2,503,
	Aid		Westfield	Statewide Bridge I WESTFIELD- ROUTE 20 ACCESS IMPROVEMENTS ON COURT STREET & WESTERN AVENUE, FROM LLEWELLYN DRIVE EASTERLY TO LLOYDS HILL			otal ► \$	2,503,688	\$,002,950	\$	-	57.5 TEC, 25% Design, (HPP-4287 \$2,503,
	Aid		Westfield	Statewide Bridge I WESTFIELD- ROUTE 20 ACCESS IMPROVEMENTS ON COURT STREET & WESTERN AVENUE, FROM LLEWELLYN DRIVE EASTERLY TO LLOYDS HILL	2		stal > \$	2,503,688	\$ 2	,002,950	\$ \$	500,738	■ 80% Federal + 20% Non-Federal 57.5 TEC, 25% Design, (HPP-4287 \$2,503, Total with Match) (YOE \$4,992,000) HPP, S
Other Federal	Aid 603449	Pioneer Valley		Statewide Bridge I WESTFIELD- ROUTE 20 ACCESS IMPROVEMENTS ON COURT STREET & WESTERN AVENUE, FROM LLEWELLYN DRIVE EASTERLY TO LLOYDS HILL	2	НРР	stal > \$	2,503,688	\$ 2	,002,950	\$ \$	500,738	57.5 TEC, 25% Design, (HPP-4287 \$2,503, Total with Match) (YOE \$4,992,000) HPP, \$
Other Federal	Aid 603449			Statewide Bridge I WESTFIELD- ROUTE 20 ACCESS IMPROVEMENTS ON COURT STREET & WESTERN AVENUE, FROM LLEWELLYN DRIVE EASTERLY TO LLOYDS HILL	2	НРР	stal > \$	2,503,688	\$ 2	,002,950	\$ \$	500,738	57.5 TEC, 25% Design, (HPP-4287 \$2,503, Total with Match) (YOE \$4,992,000) HPP, \$
Other Federal	Aid 603449	Pioneer Valley		WESTFIELD- ROUTE 20 ACCESS IMPROVEMENTS ON COURT STREET & WESTERN AVENUE, FROM LLEWELLYN DRIVE EASTERLY TO LLOYDS HILL ROAD (PHASE I)	2	НРР	stal > \$	2,503,688	\$ 2	,002,950	\$ \$ \$	500,738	57.5 TEC, 25% Design, (HPP-4287 \$2,503, Total with Match) (YOE \$4,992,000) HPP, S
Other Federal	Aid 603449	Pioneer Valley		WESTFIELD- ROUTE 20 ACCESS IMPROVEMENTS ON COURT STREET & WESTERN AVENUE, FROM LLEWELLYN DRIVE EASTERLY TO LLOYDS HILL ROAD (PHASE I) No Projects Programmed	2	НРР	sotal > \$	2,503,688 - 2,503,688	\$ 2 \$ \$ 2	,002,950 - ,002,950	\$ \$ \$ \$ \$	500,738	57.5 TEC, 25% Design, (HPP-4287 \$2,503, Total with Match) (YOE \$4,992,000) HPP, S
Other Federal	Aid 603449	Pioneer Valley		WESTFIELD- ROUTE 20 ACCESS IMPROVEMENTS ON COURT STREET & WESTERN AVENUE, FROM LLEWELLYN DRIVE EASTERLY TO LLOYDS HILL ROAD (PHASE I) No Projects Programmed No Projects Programmed	2 Other Fed	HPP deral Aid Subto	stal > \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,503,688 - 2,503,688	\$ 2 \$ 2 \$ 2	,002,950	\$ \$ \$ \$ \$ \$	500,738	57.5 TEC, 25% Design, (HPP-4287 \$2,503, Total with Match) (YOE \$4,992,000) HPP, \$ ■ Funding Split Varies by Funding Source
Other Federal Section 1D / F Regional Majo	603449 Gederal Aid Major & Or Infrastructure	Pioneer Valley State Category Projec	ts	WESTFIELD- ROUTE 20 ACCESS IMPROVEMENTS ON COURT STREET & WESTERN AVENUE, FROM LLEWELLYN DRIVE EASTERLY TO LLOYDS HILL ROAD (PHASE I) No Projects Programmed No Projects Programmed	2 Other Fed	НРР	stal > \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,503,688 - 2,503,688	\$ 2 \$ \$ 2 \$ \$ 2	,002,950 - ,002,950	\$ \$ \$ \$ \$ \$	500,738	57.5 TEC, 25% Design, (HPP-4287 \$2,503, Total with Match) (YOE \$4,992,000) HPP, \$
Other Federal Section 1D / F Regional Majo	603449 Gederal Aid Major & Or Infrastructure	Pioneer Valley	ts	WESTFIELD- ROUTE 20 ACCESS IMPROVEMENTS ON COURT STREET & WESTERN AVENUE, FROM LLEWELLYN DRIVE EASTERLY TO LLOYDS HILL ROAD (PHASE I) No Projects Programmed No Projects Programmed	2 Other Fed	HPP deral Aid Subto	stal > \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,503,688 - 2,503,688	\$ 2 \$ \$ 2 \$ \$ 2	,002,950	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	500,738	57.5 TEC, 25% Design, (HPP-4287 \$2,503, Total with Match) (YOE \$4,992,000) HPP, \$ ■ Funding Split Varies by Funding Source
Other Federal Section 1D / F Regional Majo	603449 Gederal Aid Major & Or Infrastructure	Pioneer Valley State Category Projec	ts	WESTFIELD- ROUTE 20 ACCESS IMPROVEMENTS ON COURT STREET & WESTERN AVENUE, FROM LLEWELLYN DRIVE EASTERLY TO LLOYDS HILL ROAD (PHASE I) No Projects Programmed No Projects Programmed Regional N	2 Other Fed	HPP deral Aid Subto	stal > \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 2,503,688 - 2,503,688 - - - -	\$ 2 \$ \$ 2 \$ \$ \$ \$ \$,002,950 - ,002,950	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	500,738	57.5 TEC, 25% Design, (HPP-4287 \$2,503, Total with Match) (YOE \$4,992,000) HPP, \$ ■ Funding Split Varies by Funding Source

6	07589	Pioneer Valley	Springfield	SPRINGFIELD- NORTH END PEDESTRIAN PATH	2	CMAQ	\$	4,492,800 \$	3,594,240) \$	898,560	
			Sp. 11 g. 12 1	CONSTRUCTION (UNDER THE CONNECTICUT RIVER RAILROAD), BETWEEN PLAINFIELD STREET AND BIRNIE AVENUE, INCLUDES CONSTRUCTION OF NEW BRIDGE S-24-044				, , , , , , , ,	, , ,		,	TEC 24
							\$	- \$		\$		
					Ctatavida	│ CMAQ Subtotal I		4,492,800 \$				■ 80% Federal + 20% Non-Federal
					Statewide	CIVIAQ Subtotal I	Ψ	4,492,000 \$	3,394,240	<i>)</i> Φ	090,300	00% redelal + 20% Non-redelal
Statewide HSIP Prog										1.		
6	607736	Pioneer Valley	Chicopee	CHICOPEE- SIGNAL & INTERSECTION IMPROVEMENTS AT 11 INTERSECTIONS ALONG ROUTE 33 (MEMORIAL DRIVE), FROM FULLER ROAD TO BRITTON STREET	2	HSIP	\$	3,968,619 \$			396,862	TEC 40.5
							\$	- \$	-	\$	-	
		-	<u>'</u>	Statew	vide HSIP Pr	ogram Subtotal I	▶ \$	3,968,619 \$	3,571,757	7 \$	396,862	◀ 90% Federal + 10% Non-Federal
Otatavalda lafaratura	D											
Statewide Infrastruc	ture Program			No Projects Programmed			\$	- \$		\$	-	
				No Projects Programmed			\$	- \$		\$		
							,	Ť				1 2004 5 1 1 2004 11 5 1
				Statewide Infra	astructure Pr	ogram Subtotal I	\$	- \$	-	\$	-	■ 80% Federal + 20% Non-Federal
Statewide Interstate I	Maintenance F	rogram								1 .		
				No Projects Programmed			\$	- \$		\$	-	
				No Projects Programmed			\$	- \$	-	\$	-	
<u>-</u>			·	Statewide Interstate Mai	intenance Pr	ogram Subtotal I	▶ \$	- \$	-	\$	-	◀ 90% Federal + 10% Non-Federal
Statewide Intelligent	Transportation	n Systems										
				No Projects Programmed			\$	- \$	-	\$	-	
				No Projects Programmed			\$	- \$	-	\$	-	
		1			Statewi	de ITS Subtotal I	▶ \$	- \$	-	\$	-	◀ 80% Federal + 20% Non-Federal
Statewide National F	roight Program	,										
Statewide National I	reignt Frogram			No Projects Programmed			\$	- \$	-	\$	-	
				No Projects Programmed			\$	- \$	-	\$	-	
				Statewide Nation	al Freight Pr	rogram Subtotal I	S	- \$		\$		■ 80% Federal + 20% Non-Federal
					a	og.a oaztotai .		1 🗸		1 *		_ 1 00%
Statewide National H	ighway Syster 607474	n Preservation Progr Pioneer Valley	Multiple	GRANBY- SOUTH HADLEY- RESURFACING &	2	NHPP	\$	1,946,880 \$	1,557,504	1 ¢	389,376	TEC 20 E
	107474	Plotteet Valley	ividitiple	RELATED WORK ON ROUTE 202, FROM LYMAN STREET SOUTH HADLEY TO PLEASANT STREET GRANBY (2 MILES)	2			1,540,000 ψ	1,307,00-		303,370	110 20.3
							\$	- \$	-	\$	-	
		+	· ·	Statewide NHS Pre	servation Pr	ogram Subtotal I	▶ \$	1,946,880 \$	1,557,504	\$	389,376	■ 80% Federal + 20% Non-Federal
Statewide Planning P	Program											
				No Projects Programmed			\$	- \$	-	\$	-	
		+	-		+	+	-			1.		
				No Projects Programmed			\$	- \$	-	\$	-	

Section 2B / Non-Federal Bridg	e Projects	No Projects Programmed No Projects Programmed	Non-Federal Aid Subtotal▶ NFA	\$ - \$ - TIP Section 1:	TIP Section 2: ▼	\$ - \$ - Total of All Projects ▼	■ 100% Non-Federal ■ 100% Non-Federal ■ 100% Non-Federal
Section 2A / Non-Federal Projection 2B / Non-Federal Bridg Section 2B / Non-Federal Bridg Section 2B / Non-Federal Bridg	e Projects	No Projects Programmed No Projects Programmed Section 2B / Non-Federa	Non-Federal Aid Subtotal► NFA	\$ - \$ - \$ -	TIP Section 2:	\$ - \$ - \$ -	
Non Federal Aid Section 2B / Non-Federal Bridg		No Projects Programmed No Projects Programmed	Non-Federal Aid Subtotal▶ NFA NFA	\$ - \$ - \$ -		\$ -	
Non Federal Aid Section 2B / Non-Federal Bridg		No Projects Programmed No Projects Programmed	Non-Federal Aid Subtotal▶ NFA NFA	\$ - \$ - \$ -		\$ -	
Non Federal Aid Section 2B / Non-Federal Bridg		No Projects Programmed	Non-Federal Aid Subtotal►	\$ -		\$ -	_
on Federal Aid Section 2B / Non-Federal Bridg			Non-Federal Aid Subtotal▶	\$ -			_
ection 2B / Non-Federal Bridg		·	1			\$ -	■100% Non-Federal
on Federal Aid	e Projects	·	1			\$ -	■100% Non-Federal
Ion Federal Aid	- Davis at	·	1			\$ -	◀100% Non-Federal
· ·		·	1			\$ -	◀100% Non-Federal
· ·		No Projects Programmed	NFA	5 -			
				\$ -		\$ -	
		No Projects Programmed		\$ -		\$ -	
		No Projecto Programmed	NE A	¢		¢	
Section 2A / Non-Federal Project							
	ets						
		Other	Statewide Items Subtotal ▶	\$ -	\$ -	\$ -	■ Funding Split Varies by Funding Source
		Statewide Recreational Trails		\$ -	\$ -	\$ -	
		Statewide Design and Right of Way			\$ -	_	
		Programs Planning		\$ -	\$ -	\$ -	
		DBEs, FAPO, Pavement Lab Retrofits, and Misc.		\$ -	\$ -	\$ -	
		Changes, Etc.					
		Award Adjustments, Change Orders, Project Value		\$ -	\$ -	\$ -	
Juier Statewide Items		ABP GANS Repayment		\$ -	\$ -	-	
Other Statewide Items							
		Statewide Transportation	n Enhancements Subtotal ▶	\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal
		, ,		,			
		No Projects Programmed			*	*	
		No Projects Programmed		\$ -	-	-	
Statewide Transportation Enha	ncements						
		Statewide Storr	mwater Retrofits Subtotal ▶	\$ -	\$ -	\$ -	■ 80% Federal + 20% Non-Federal
		No Projects Programmed		•	\$ -	-	
					·	1	
otatewide otoriiiwater Retfolits		No Projects Programmed		\$ -	\$ -	-	
Statewide Stormwater Retrofits							
		Statewide Safe Routes to S	Schools Program Subtotal ▶	\$ -	\$ -	\$ -	■ Funding Split Varies by Funding Source
		No Projects Programmed	SRTS	\$ -	\$ -	\$ -	
		No Projects Programmed	SRTS	\$ -	\$ -	\$ -	
Clatewide Gale Neutro to Conc	ools Program						
Statewide Safe Routes to Scho		Statewide RR G	Grade Crossings Subtotal ▶	\$ -	- \$	\$ -	■ 80% Federal + 20% Non-Federal
Statewide Safe Routes to Scho		No Projects Programmed		\$ -	\$ -	-	
Statewide Safe Routes to Scho					ļ ·		
► Statewide Safe Routes to Scho		No Projects Programmed		\$ -	\$ -	\$ -	

Table 12: Federally Funded Projects 2019

Adjustment Type ▼	MassDOT Project ID ▼	мро ▼	Municipality Name ▼	MassDOT Project Description ▼		Funding Source ▼	Total Prog Fund	rammed	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼
Section 1A / Fede	eral Aid Target Pr	ojects									
► HSIP - Highway S	Safety Improveme	ent Program									
	606156	Pioneer Valley	Holyoke	HOLYOKE- RECONSTRUCTION OF I-91 INTERCHANGE 17 & ROUTE 141	2	HSIP	\$	1,080,992	\$ 972,893	\$ 108,099	46.5 TEC Score Pre 25% (YOE \$3,229,986) HSIP, CMAQ, STP
							\$	-	\$ -	\$ -	
		'			•	HSIP Subtotal	\$	1,080,992	\$ 972,893	\$ 108,099	■ 90% Federal + 10% Non-Federal
►CMAQ - Congesti	ion Mitigation an	d Air Quality Improve	ment Program								
	606156	Pioneer Valley	Holyoke	HOLYOKE- RECONSTRUCTION OF I-91 INTERCHANGE 17 & ROUTE 141	2	CMAQ	\$	1,727,008	\$ 1,381,606	\$ 345,402	46.5 TEC Score Pre 25% (YOE \$3,229,986) HSIP, CMAQ, STP
	607987	Pioneer Valley	Ware	WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH STREET	2	CMAQ	\$	975,472	\$ 780,378	\$ 195,094	54.5 TEC Score 25% (YOE \$2,138,400) STI TAP, CMAQ
						CMAQ Subtotal	\$	2,702,480	\$ 2,161,984	\$ 540,496	■ 80% Federal + 20% Non-Federal
►TAP - Transporta			lve.			I=	1.0			1.0	
	607987	Pioneer Valley	Ware	WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH STREET	2	TAP	\$	573,500	\$ 458,800	\$ 114,700	54.5 TEC Score 25% (YOE \$2,138,400) STI TAP, Ware
							\$	-	\$ -	\$ -	68 TEC Score Pre 25% (YOE \$1,568,000)
									Ψ	Ψ	
						TAP Subtotal	\$	573,500	*	*	CMAO TAP ■ 80% Federal + 20% Non-Federal
Non CMAO/USID	(TAR (Other)					TAP Subtotal	\$		*	*	CMAO TAB
► Non-CMAQ/HSIP/	/TAP (Other)	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	TAP Subtotal	\$		\$ 458,800	\$ 114,700	▼ 80% Federal + 20% Non-Federal
► Non-CMAQ/HSIP/		Pioneer Valley Pioneer Valley	Agawam Ware		2			573,500	\$ 458,800 \$ 1,546,560	\$ 114,700	CMAO TAB
► Non-CMAQ/HSIP/	600513			FROM 425 FT. SOUTH OF S. WESTFIELD STREET TO ROUTE 57 (0.3 MILES - PHASE I) WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH		STP	\$	573,500	\$ 458,800 \$ 1,546,560 \$ 471,542	\$ 114,700 \$ 386,640 \$ 117,886	CMAG TAB ■ 80% Federal + 20% Non-Federal 27 TEC Score PRE 25% (YOE \$1,933,200) ST 54.5 TEC Score 25% (YOE \$2,138,400) STF
► Non-CMAQ/HSIP/	600513	Pioneer Valley	Ware	FROM 425 FT. SOUTH OF S. WESTFIELD STREET TO ROUTE 57 (0.3 MILES - PHASE I) WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH STREET WESTFIELD- IMPROVEMENTS & RELATED WORK ON ROUTE 20, COURT STEET & WESTERN AVENUE LLOYDS HILL ROAD TO HIGH STREET/MILL STREET	2	STP	\$ \$	573,500 1,933,200 589,428	\$ 458,800 \$ 1,546,560 \$ 471,542 \$ 5,184,000	\$ 114,700 \$ 386,640 \$ 117,886 \$ 1,296,000	CMAC TAB ■ 80% Federal + 20% Non-Federal 27 TEC Score PRE 25% (YOE \$1,933,200) ST 54.5 TEC Score 25% (YOE \$2,138,400) STF TAP, CMAQ 48.5 TEC Score 25% (YOE 6,480,000) STF (HPP will be used for Phase I)
► Non-CMAQ/HSIP/	600513	Pioneer Valley Pioneer Valley	Ware Westfield	FROM 425 FT. SOUTH OF S. WESTFIELD STREET TO ROUTE 57 (0.3 MILES - PHASE I) WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH STREET WESTFIELD- IMPROVEMENTS & RELATED WORK ON ROUTE 20, COURT STEET & WESTERN AVENUE LLOYDS HILL ROAD TO HIGH STREET/MILL STREET INTERSECTION (PHASE II) HOLYOKE- WEST SPRINGFIELD- REHABILITATION OF ROUTE 5 (RIVERDALE ROAD), FROM I-91 (INTERCHANGE 13) TO MAIN STREET IN HOLYOKE & FROM ELM STREET TO NORTH ELM STREET IN	2	STP STP	\$ \$	573,500 1,933,200 589,428 6,480,000	\$ 458,800 \$ 1,546,560 \$ 471,542 \$ 5,184,000 \$ 3,851,565	\$ 114,700 \$ 386,640 \$ 117,886 \$ 1,296,000 \$ 962,891	CMAC TAB ■ 80% Federal + 20% Non-Federal 27 TEC Score PRE 25% (YOE \$1,933,200) ST 54.5 TEC Score 25% (YOE \$2,138,400) STF TAP, CMAQ 48.5 TEC Score 25% (YOE 6,480,000) STF (HPP will be used for Phase I) 50 TEC Score Pre 25% (YOE \$4,814,456) ST
► Non-CMAQ/HSIP/	600513 607987 607773	Pioneer Valley Pioneer Valley Pioneer Valley	Ware Westfield Multiple	FROM 425 FT. SOUTH OF S. WESTFIELD STREET TO ROUTE 57 (0.3 MILES - PHASE I) WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH STREET WESTFIELD- IMPROVEMENTS & RELATED WORK ON ROUTE 20, COURT STEET & WESTERN AVENUE LLOYDS HILL ROAD TO HIGH STREET/MILL STREET INTERSECTION (PHASE II) HOLYOKE- WEST SPRINGFIELD- REHABILITATION OF ROUTE 5 (RIVERDALE ROAD), FROM I-91 (INTERCHANGE 13) TO MAIN STREET IN HOLYOKE & FROM ELM STREET TO NORTH ELM STREET IN WEST SPRINGFIELD (3.2 MILES) HOLYOKE- RESURFACING & RELATED WORK ON HERITAGE STREET, FROMT STREET & DWIGHT STREET FROM MAPLE ST TO THE 1ST LEVEL	2 2	STP STP STP	\$ \$	573,500 1,933,200 589,428 6,480,000	\$ 458,800 \$ 1,546,560 \$ 471,542 \$ 5,184,000 \$ 3,851,565 \$ 2,483,219	\$ 114,700 \$ 386,640 \$ 117,886 \$ 1,296,000 \$ 962,891 \$ 620,805	CMAC TAB ■ 80% Federal + 20% Non-Federal 27 TEC Score PRE 25% (YOE \$1,933,200) ST 54.5 TEC Score 25% (YOE \$2,138,400) STF TAP, CMAQ 48.5 TEC Score 25% (YOE 6,480,000) STF

► Section 1A / Fisc	cal Constraint A	nalysis							
					Target Funds Programmed ▶		\$ 23,303,483	■Total Target	\$ 247,304 Target Funds Available
				Total Non-CMAQ/HS	SIP/TAP (Other) Programmed ▶	\$ 18,699,207	\$ 18,946,511	■ Max. Non- CMAQ/HSIP/TAP	\$ 247,304 Non-CMAQ/HSIP/TAP (Other) Available
					Total HSIP Programmed ▶	\$ 1,080,992		■ Min. HSIP	\$ - HSIP Recommended Met
					Total CMAQ Programmed ▶			■ Min. CMAQ	\$ - CMAQ Recommended Met
					Total TAP Programmed ▶	\$ 573,500	\$ 573,500	■ Min. TAP	\$ - TAP Recommended Met
				Rema	aining HSIP, CMAQ, and TAP Funds	\$ -			
► Section 1B / Fed	leral Aid Bridge	Projects							
► Statewide Syste	matic Maintenar	nce Program							
	608258	Pioneer Valley	Huntington	HUNTINGTON, BRIDGE PRESERVATION, BRIDGE NO. H-27-007	1 NHPP	\$ 453,000	\$ 362,400	\$ 90,600	
						\$ -	\$ -	\$ -	
				Statewide Bridge M	aintenance Program Subtotal ▶	\$ 453,000	\$ 362,400	\$ 90,600	■ 80% Federal + 20% Non-Federal
								l	_
►On System									
	606552	Pioneer Valley	Northampton	NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19 059, I-91 OVER US 5/BMRR & N-19-060, I-91 OVER HOCKANUM ROAD	9- 2 NHPP	\$ 57,206,767	\$ 45,765,414	\$ 11,441,353	
						\$ -	\$ -	\$ -	
					On System Subtotal ▶	\$ 57,206,767	\$ 45,765,414	\$ 11,441,353	■ 80% Federal + 20% Non-Federal
► Off-System									-
	608249	Pioneer Valley	Middlefield	MIDDLEFIELD- BRIDGE REPLACEMENT, M-19-010, CHESTER ROAD OVER SMART BROOK	1 STP-BR-OFF	\$ 1,411,344	\$ 1,129,075	\$ 282,269	
						*	\$ -	\$ -	
					Off-System Subtotal ▶	\$ 1,411,344	\$ 1,129,075	\$ 282,269	■ 80% Federal + 20% Non-Federal
► Statewide Bridge I	Inenaction Progra	m							
Ctatewide Bridge	inspection i rogia			No Projects Programmed		\$ -	\$ -	\$ -	
				No Projects Programmed		\$ -	\$ -	\$ -	
					Inspection Program Subtotal ▶	*	\$ -	\$ -	■ 80% Federal + 20% Non-Federal
				otatomas Enage	moposion rogram subtotal r	Ψ	<u> </u>	•	1 00/01 000/01 1 20/01 10/11 000/01
► Section 1C / Fed	leral Aid Non-Ta	rget Projects							
► Other Federal Ai	id								
7 - 0 - 1 - 1 - 0 - 1 - 1 - 1 - 1 - 1 - 1				No Projects Programmed		-	\$ -	-	
				No Projects Programmed		\$ -	\$ -	\$ -	
				,	Other Federal Aid Subtotal ▶	·			■ Funding Split Varies by Funding Source
					Other rederal Aid Oubtotal	Ψ	Ψ -	ΙΨ -	_ T unding opin varies by I unding course
► Section 1D / Fed	leral Aid Major &	State Category Projec	ts						
► Regional Major I	Infrastructure								
				No Projects Programmed		\$ -	\$ -	-	
				No Projects Programmed		\$ -	\$ -	\$ -	
				,		·		*	■ 80% Federal + 20% Non-Federal
				Regional	i wajor iriirastructure Subtotal 🕨	φ -	Φ -	Φ -	■ 00 % Federal + 20% Non-Federal

				No Projects Programmed			\$	-	\$ -	\$	-	
				No Projects Programmed			\$	-	\$ -	\$	-	
				Statewide ADA Im	nlementati	on Plan Subtotal	\$	-	\$ -	\$		■ 80% Federal + 20% Non-Federal
				Statewide ADA IIII	picincinali	on i ian oublotai •	Ψ		Ψ -	ĮΨ		4 00 % Federal F 20 % Non-F ederal
ewide Conges		n and Air Quality										
	602911	Pioneer Valley	Chicopee	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	2	CMAQ	\$	4,052,959	\$ 3,242,36	7 \$	810,592	TEC 27 - 25% Design
	603783	Pioneer Valley	Westfield	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	\$	6,784,161	\$ 5,427,329	\$	1,356,832	TEC 36.6 - 75% Desing
	606555	Pioneer Valley	Northampton	NORTHAMPTON- ROUNDABOUT CONSTRUCTION AT INTERSECTION ROUTES 5/10 (NORTH KING STREET) & HATFIELD STREET	2	CMAQ	\$	2,985,469	\$ 2,388,37	5 \$	597,094	TEC 52 - 25% Design
		1			Statewide	CMAQ Subtotal	\$	13,822,589	\$ 11,058,07	\$	2,764,518	◀ 80% Federal + 20% Non-Federal
atewide HSIP Pi	rogram											
atewide HOIP PI	i ograni			No Projects Programmed			\$	-	\$ -	\$	-	
				No Projects Programmed			\$		\$ -		-	
				rio i rejecto i regianimo			Ψ.		Ψ	1 *		
tewide Infrastr	ructure Prograi		Multiple	Statew Chicopee - West Springfield- Highway Lighting Upgrade	ide HSIP P	Program Subtotal	\$	2,991,497		\$ \$	598,299	◀ 90% Federal + 10% Non-Federal
atewide Infrastr		m Pioneer Valley	Multiple				\$	2,991,497	\$ 2,393,198	3 \$		■ 90% Federal + 10% Non-Federal
atewide Infrastr			Multiple	Chicopee - West Springfield- Highway Lighting Upgrade on I-91	2	STP	\$	2,991,497	\$ 2,393,198	\$ \$	598,299	
atewide Infrastr			Multiple	Chicopee - West Springfield- Highway Lighting Upgrade on I-91	2		\$	2,991,497	\$ 2,393,198	\$ \$	598,299	■ 90% Federal + 10% Non-Federal ■ 80% Federal + 20% Non-Federal
	608600	Pioneer Valley e Program		Chicopee - West Springfield- Highway Lighting Upgrade on I-91 Statewide Infra	2 structure P	STP Program Subtotal	\$ \$ • \$	2,991,497 - 2,991,497	\$ 2,393,198 \$ - \$ 2,393,198	\$ \$	598,299 - - 598,299	
	608600	Pioneer Valley	Multiple Multiple	Chicopee - West Springfield- Highway Lighting Upgrade on I-91	2	STP	\$	2,991,497	\$ 2,393,198 \$ - \$ 2,393,198	\$ \$	598,299	
	608600	Pioneer Valley e Program		Chicopee - West Springfield- Highway Lighting Upgrade on I-91 Statewide Infra	2 structure P	STP Program Subtotal	\$ \$ • \$	2,991,497 - 2,991,497 9,927,072	\$ 2,393,198 \$ - \$ 2,393,198	3	598,299 - - 598,299	
	608600	Pioneer Valley e Program		Chicopee - West Springfield- Highway Lighting Upgrade on I-91 Statewide Infra	2 structure P	STP Program Subtotal	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,991,497 - 2,991,497 9,927,072	\$ 2,393,196 \$ - \$ 2,393,196 \$ 8,934,366 \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	598,299 - 598,299 992,707	
atewide Intersta	608600 te Maintenance 607560	e Program Pioneer Valley		Chicopee - West Springfield- Highway Lighting Upgrade on I-91 Statewide Infra CHICOPEE- HOLYOKE- INTERSTATE MAINTENANCE & RELATED WORK ON I-391	2 structure P	STP Program Subtotal	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,991,497 - 2,991,497 9,927,072	\$ 2,393,196 \$ - \$ 2,393,196 \$ 8,934,366 \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	598,299 - 598,299 992,707	■ 80% Federal + 20% Non-Federal
atewide Intersta	608600 te Maintenance 607560	e Program Pioneer Valley		Chicopee - West Springfield- Highway Lighting Upgrade on I-91 Statewide Infra CHICOPEE- HOLYOKE- INTERSTATE MAINTENANCE & RELATED WORK ON I-391	2 structure P	STP Program Subtotal	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,991,497 - 2,991,497 9,927,072	\$ 2,393,198 \$ - \$ 2,393,198 \$ 8,934,368 \$ - \$ 8,934,368	3	598,299 - 598,299 992,707	■ 80% Federal + 20% Non-Federal
atewide Intersta	608600 te Maintenance 607560	e Program Pioneer Valley		Chicopee - West Springfield- Highway Lighting Upgrade on I-91 Statewide Infra CHICOPEE- HOLYOKE- INTERSTATE MAINTENANCE & RELATED WORK ON I-391 Statewide Interstate Main	2 structure P	STP Program Subtotal	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,991,497 - 2,991,497 9,927,072 - 9,927,072	\$ 2,393,198 \$ - \$ 2,393,198 \$ 8,934,368 \$ - \$ 8,934,368	3 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	598,299 - 598,299 992,707 - 992,707	■ 80% Federal + 20% Non-Federal
atewide Intersta	608600 te Maintenance 607560	e Program Pioneer Valley		Chicopee - West Springfield- Highway Lighting Upgrade on I-91 Statewide Infra CHICOPEE- HOLYOKE- INTERSTATE MAINTENANCE & RELATED WORK ON I-391 Statewide Interstate Main	2 structure P	STP Program Subtotal	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,991,497 - 2,991,497 9,927,072 - 9,927,072	\$ 2,393,198 \$ - \$ 2,393,198 \$ 8,934,368 \$ - \$ 8,934,368 \$ - \$ -	3 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	598,299 - 598,299 992,707 - 992,707	■ 80% Federal + 20% Non-Federal
atewide Intersta	te Maintenance 607560	e Program Pioneer Valley ition Systems		Chicopee - West Springfield- Highway Lighting Upgrade on I-91 Statewide Infra CHICOPEE- HOLYOKE- INTERSTATE MAINTENANCE & RELATED WORK ON I-391 Statewide Interstate Main	2 structure P	STP Program Subtotal I	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,991,497 - 2,991,497 9,927,072 - 9,927,072	\$ 2,393,198 \$ - \$ 2,393,198 \$ 8,934,368 \$ - \$ 8,934,368 \$ - \$ -	3 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	598,299 - 598,299 992,707 - 992,707	■ 80% Federal + 20% Non-Federal ■ 90% Federal + 10% Non-Federal
atewide Intersta	te Maintenance 607560	e Program Pioneer Valley ition Systems		Chicopee - West Springfield- Highway Lighting Upgrade on I-91 Statewide Infra CHICOPEE- HOLYOKE- INTERSTATE MAINTENANCE & RELATED WORK ON I-391 Statewide Interstate Main No Projects Programmed No Projects Programmed	2 structure P	STP Program Subtotal I	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,991,497 - 2,991,497 9,927,072 - 9,927,072	\$ 2,393,196 \$ 2,393,196 \$ 8,934,366 \$ - \$ 8,934,366 \$ - \$ -	3 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	598,299 - 598,299 - 992,707 - 992,707	■ 80% Federal + 20% Non-Federal ■ 90% Federal + 10% Non-Federal
atewide Intersta	te Maintenance 607560	e Program Pioneer Valley ition Systems		Chicopee - West Springfield- Highway Lighting Upgrade on I-91 Statewide Infra CHICOPEE- HOLYOKE- INTERSTATE MAINTENANCE & RELATED WORK ON I-391 Statewide Interstate Main No Projects Programmed No Projects Programmed	2 structure P	STP Program Subtotal I	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,991,497 - 2,991,497 9,927,072 - 9,927,072 - - -	\$ 2,393,196 \$ 2,393,196 \$ 8,934,366 \$ - \$ 8,934,366 \$ - \$ -	3 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	598,299 - 598,299 992,707 - 992,707	■ 80% Federal + 20% Non-Federal ■ 90% Federal + 10% Non-Federal
atewide Intersta	te Maintenance 607560	e Program Pioneer Valley ition Systems		Chicopee - West Springfield- Highway Lighting Upgrade on I-91 Statewide Infra CHICOPEE- HOLYOKE- INTERSTATE MAINTENANCE & RELATED WORK ON I-391 Statewide Interstate Main No Projects Programmed No Projects Programmed No Projects Programmed No Projects Programmed	2 structure P 2 ntenance P Statew	STP Program Subtotal NHPP Program Subtotal vide ITS Subtotal	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,991,497 - 2,991,497 9,927,072 - 9,927,072 - - - -	\$ 2,393,198 \$ - \$ 2,393,198 \$ 8,934,368 \$ - \$ 8,934,368 \$ - \$ - \$ -	3 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	598,299 - 598,299 992,707 - 992,707	■ 80% Federal + 20% Non-Federal ■ 90% Federal + 10% Non-Federal ■ 80% Federal + 20% Non-Federal
Statewide Infrastr tatewide Intersta tatewide Intellige tatewide Nationa	te Maintenance 607560	e Program Pioneer Valley ition Systems		Chicopee - West Springfield- Highway Lighting Upgrade on I-91 Statewide Infra CHICOPEE- HOLYOKE- INTERSTATE MAINTENANCE & RELATED WORK ON I-391 Statewide Interstate Main No Projects Programmed No Projects Programmed	2 structure P 2 ntenance P Statew	STP Program Subtotal NHPP Program Subtotal vide ITS Subtotal	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,991,497 - 2,991,497 9,927,072 - 9,927,072 - - -	\$ 2,393,198 \$ - \$ 2,393,198 \$ 8,934,368 \$ - \$ 8,934,368 \$ - \$ - \$ -	3 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	598,299 - 598,299 992,707 - 992,707	■ 80% Federal + 20% Non-Federal ■ 90% Federal + 10% Non-Federal
tatewide Interstat tatewide Intellige	te Maintenance 607560 ent Transportat	Pioneer Valley e Program Pioneer Valley tion Systems ram tem Preservation Progr	Multiple	Chicopee - West Springfield- Highway Lighting Upgrade on I-91 Statewide Infra CHICOPEE- HOLYOKE- INTERSTATE MAINTENANCE & RELATED WORK ON I-391 Statewide Interstate Main No Projects Programmed No Projects Programmed No Projects Programmed No Projects Programmed Statewide National	2 structure P 2 ntenance P Statew	STP Program Subtotal NHPP Program Subtotal vide ITS Subtotal Program Subtotal	S	2,991,497 - 2,991,497 9,927,072 - 9,927,072	\$ 2,393,198 \$ 2,393,198 \$ 8,934,368 \$ - \$ 8,934,368 \$ - \$ - \$ - \$ - \$ - \$ -	3 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	598,299 - 598,299 992,707 - 992,707	■ 80% Federal + 20% Non-Federal ■ 90% Federal + 10% Non-Federal ■ 80% Federal + 20% Non-Federal
atewide Intersta atewide Intellige atewide Nationa	te Maintenance 607560 ent Transportat	Pioneer Valley e Program Pioneer Valley tion Systems	Multiple	Chicopee - West Springfield- Highway Lighting Upgrade on I-91 Statewide Infra CHICOPEE- HOLYOKE- INTERSTATE MAINTENANCE & RELATED WORK ON I-391 Statewide Interstate Main No Projects Programmed No Projects Programmed No Projects Programmed No Projects Programmed	2 structure P 2 ntenance P Statew	STP Program Subtotal NHPP Program Subtotal vide ITS Subtotal	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,991,497 - 2,991,497 9,927,072 - 9,927,072 - - - -	\$ 2,393,198 \$ 2,393,198 \$ 8,934,368 \$ - \$ 8,934,368 \$ - \$ - \$ - \$ - \$ - \$ -	3 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	598,299 - 598,299 992,707 - 992,707	■ 80% Federal + 20% Non-Federal ■ 90% Federal + 10% Non-Federal ■ 80% Federal + 20% Non-Federal

Statewide Planni	ing Program							
				No Projects Programmed		\$ - \$	- \$	-
				No Projects Programmed		\$ - \$	- \$	-
				Statewide F	Planning Program Subtotal ▶	- \$	- \$	- ■ 80% Federal + 20% Non-Federal
					0 0			
atewide Railro	ad Grade Crossi	ings				1.		
				No Projects Programmed		\$ - \$	- \$	-
				No Projects Programmed		\$ - \$	- \$	-
		I		Statewide RR	Grade Crossings Subtotal >	- \$	- \$	- ■ 80% Federal + 20% Non-Federal
Statewide Safe	Routes to Schoo	ols Program	1					
				No Projects Programmed	SRTS	\$ - \$	- \$	-
				No Projects Programmed	SRTS	\$ - \$	- \$	-
				Statewide Safe Routes to	Schools Program Subtotal >	- \$	- \$	-
					-		•	
tatewide Storm	water Retrofits	D' V . II .	M. delinda	CHICODEE HOLVOVE INTEROTATE MAINTENANCE	2 STP-TE	¢ 4.004.055 ¢	4.005.004	050.054
	607560	Pioneer Valley	Multiple	CHICOPEE- HOLYOKE- INTERSTATE MAINTENANCE & RELATED WORK ON I-391	2 STP-TE	\$ 1,281,255 \$	1,025,004 \$	256,251
				No Projects Programmed		\$ - \$	- \$	-
				, ,		A 4004055 A	4.005.004	256 254
				Statewide Sto	rmwater Retrofits Subtotal	1.281.255 S	1.025.004 \$	250.251 3 00% rederal + 20% Non-rederal
		-		Statewide Sto	ormwater Retrofits Subtotal ▶	\$ 1,281,255 \$	1,025,004 \$	256,251 ◀ 80% Federal + 20% Non-Federal
tatewide Trans	portation Enhan	cements			ormwater Retrofits Subtotal ▶			256,251 • 60% Federal + 20% Non-Federal
tatewide Trans	portation Enhan	cements		Statewide Sto No Projects Programmed	ormwater Retrofits Subtotal ▶	\$ 1,281,255 \$	1,025,004 \$	250,251
statewide Trans	portation Enhan	cements			ormwater Retrofits Subtotal ▶			
Statewide Trans	portation Enhan	cements		No Projects Programmed No Projects Programmed		\$ - \$ \$ - \$	- \$	-
		cements		No Projects Programmed No Projects Programmed	ormwater Retrofits Subtotal on Enhancements Subtotal	\$ - \$ \$ - \$	- \$ - \$	-
		cements		No Projects Programmed No Projects Programmed Statewide Transportation		\$ - \$ \$ - \$ - \$	- \$ - \$ - \$	- - - ■ 80% Federal + 20% Non-Federal
		cements		No Projects Programmed No Projects Programmed Statewide Transportation ABP GANS Repayment		\$ - \$ \$ - \$ • \$ - \$	- \$ - \$ - \$	- - - ■ 80% Federal + 20% Non-Federal
		cements		No Projects Programmed No Projects Programmed Statewide Transportation ABP GANS Repayment Award Adjustments, Change Orders, Project Value		\$ - \$ \$ - \$ - \$	- \$ - \$ - \$	- - - ■ 80% Federal + 20% Non-Federal
		cements		No Projects Programmed No Projects Programmed Statewide Transportation ABP GANS Repayment Award Adjustments, Change Orders, Project Value Changes, Etc.		\$ - \$ \$ - \$ \$ - \$ \$ - \$	- \$ - \$ - \$ - \$	- - - ■ 80% Federal + 20% Non-Federal
		cements		No Projects Programmed No Projects Programmed Statewide Transportation ABP GANS Repayment Award Adjustments, Change Orders, Project Value Changes, Etc. DBEs, FAPO, Pavement Lab Retrofits, and Misc.		\$ - \$ \$ - \$ \$ - \$ \$ - \$	- \$ - \$ - \$ - \$	- - - ■ 80% Federal + 20% Non-Federal
		cements		No Projects Programmed No Projects Programmed Statewide Transportation ABP GANS Repayment Award Adjustments, Change Orders, Project Value Changes, Etc.		\$ - \$ \$ - \$ \$ - \$ \$ - \$	- \$ - \$ - \$ - \$	- - - ■ 80% Federal + 20% Non-Federal
		cements		No Projects Programmed No Projects Programmed Statewide Transportation ABP GANS Repayment Award Adjustments, Change Orders, Project Value Changes, Etc. DBEs, FAPO, Pavement Lab Retrofits, and Misc. Programs		\$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$	- \$ - \$ - \$ - \$ - \$	
		cements		No Projects Programmed No Projects Programmed Statewide Transportation ABP GANS Repayment Award Adjustments, Change Orders, Project Value Changes, Etc. DBEs, FAPO, Pavement Lab Retrofits, and Misc. Programs Planning		\$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$	
Statewide Trans Other Statewide		cements		No Projects Programmed No Projects Programmed Statewide Transportation ABP GANS Repayment		\$ - \$ \$ - \$ • \$ - \$	- \$ - \$ - \$	- - - ■ 80% F
		cements		No Projects Programmed No Projects Programmed Statewide Transportation ABP GANS Repayment Award Adjustments, Change Orders, Project Value Changes, Etc.		\$ - \$ \$ - \$ \$ - \$ \$ - \$	- \$ - \$ - \$ - \$	- - - ■ 80% Federal + 20% Non-Federal
		cements		No Projects Programmed No Projects Programmed Statewide Transportation ABP GANS Repayment Award Adjustments, Change Orders, Project Value Changes, Etc. DBEs, FAPO, Pavement Lab Retrofits, and Misc. Programs		\$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$	- \$ - \$ - \$ - \$ - \$	
		cements		No Projects Programmed No Projects Programmed Statewide Transportation ABP GANS Repayment Award Adjustments, Change Orders, Project Value Changes, Etc. DBEs, FAPO, Pavement Lab Retrofits, and Misc. Programs Planning		\$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$	
		cements		No Projects Programmed No Projects Programmed Statewide Transportation ABP GANS Repayment Award Adjustments, Change Orders, Project Value Changes, Etc. DBEs, FAPO, Pavement Lab Retrofits, and Misc. Programs Planning Statewide Design and Right of Way		\$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$	
		cements		No Projects Programmed No Projects Programmed Statewide Transportation ABP GANS Repayment Award Adjustments, Change Orders, Project Value Changes, Etc. DBEs, FAPO, Pavement Lab Retrofits, and Misc. Programs Planning Statewide Design and Right of Way Statewide Recreational Trails	on Enhancements Subtotal ▶	\$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$	- \$ - \$	- 80% Federal + 20% Non-Federal
		cements		No Projects Programmed No Projects Programmed Statewide Transportation ABP GANS Repayment Award Adjustments, Change Orders, Project Value Changes, Etc. DBEs, FAPO, Pavement Lab Retrofits, and Misc. Programs Planning Statewide Design and Right of Way Statewide Recreational Trails		\$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$	
		cements		No Projects Programmed No Projects Programmed Statewide Transportation ABP GANS Repayment Award Adjustments, Change Orders, Project Value Changes, Etc. DBEs, FAPO, Pavement Lab Retrofits, and Misc. Programs Planning Statewide Design and Right of Way Statewide Recreational Trails	on Enhancements Subtotal ▶	\$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$	- \$ - \$	- 80% Federal + 20% Non-Federal
		cements		No Projects Programmed No Projects Programmed Statewide Transportation ABP GANS Repayment Award Adjustments, Change Orders, Project Value Changes, Etc. DBEs, FAPO, Pavement Lab Retrofits, and Misc. Programs Planning Statewide Design and Right of Way Statewide Recreational Trails	on Enhancements Subtotal ▶	\$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$	- \$ - \$	- 80% Federal + 20% Non-Federal
ther Statewide	Items			No Projects Programmed No Projects Programmed Statewide Transportation ABP GANS Repayment Award Adjustments, Change Orders, Project Value Changes, Etc. DBEs, FAPO, Pavement Lab Retrofits, and Misc. Programs Planning Statewide Design and Right of Way Statewide Recreational Trails	on Enhancements Subtotal ▶	\$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$	- \$ - \$	- 80% Federal + 20% Non-Federal
Other Statewide				No Projects Programmed No Projects Programmed Statewide Transportation ABP GANS Repayment Award Adjustments, Change Orders, Project Value Changes, Etc. DBEs, FAPO, Pavement Lab Retrofits, and Misc. Programs Planning Statewide Design and Right of Way Statewide Recreational Trails	on Enhancements Subtotal ▶	\$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$	- \$ - \$	- 80% Federal + 20% Non-Federal
Other Statewide	Items			No Projects Programmed No Projects Programmed Statewide Transportation ABP GANS Repayment Award Adjustments, Change Orders, Project Value Changes, Etc. DBEs, FAPO, Pavement Lab Retrofits, and Misc. Programs Planning Statewide Design and Right of Way Statewide Recreational Trails	on Enhancements Subtotal ▶	\$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$	- \$ - \$	- 80% Federal + 20% Non-Federal
Other Statewide	Items			No Projects Programmed No Projects Programmed Statewide Transportation ABP GANS Repayment Award Adjustments, Change Orders, Project Value Changes, Etc. DBEs, FAPO, Pavement Lab Retrofits, and Misc. Programs Planning Statewide Design and Right of Way Statewide Recreational Trails	on Enhancements Subtotal ▶	\$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$	- \$ - \$	- 80% Federal + 20% Non-Federal
Other Statewide	Items			No Projects Programmed No Projects Programmed Statewide Transportation ABP GANS Repayment Award Adjustments, Change Orders, Project Value Changes, Etc. DBEs, FAPO, Pavement Lab Retrofits, and Misc. Programs Planning Statewide Design and Right of Way Statewide Recreational Trails Othe	er Statewide Items Subtotal NFA	\$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$	- \$ - \$ - \$ - \$	
Other Statewide	Items			No Projects Programmed No Projects Programmed Statewide Transportation ABP GANS Repayment Award Adjustments, Change Orders, Project Value Changes, Etc. DBEs, FAPO, Pavement Lab Retrofits, and Misc. Programs Planning Statewide Design and Right of Way Statewide Recreational Trails Othe	on Enhancements Subtotal ▶	\$ - \$ \$ - \$	- \$ - \$	- ■ 80% Federal + 20% Non-Federal - ■ ■ 80% Federal + 20% Non-Federal - ■ ■ ■ ■ Funding Split Varies by Funding Source

___ Pioneer Valley Transportation Improvement Program 2017-2021

► Section 2B / Non-Federal Bridge Pro	ojects								
► Section 2B / Non-Federal Bridge Pro	ojects								
		No Projects Programmed		NFA	\$	-	\$	-	
		No Projects Programmed		NFA	\$	-	\$	-	
-	·	 Section 2B / Non-F	ederal Bridge Pi	rojects Subtotal	S	-	\$	-	◀100% Non-Federal

	•		•		Pro	ojects ▼	
Total ►	\$	115,000,294	\$	-	\$	115,000,294	◀ Total Spending in Region
Federal Funds ►	\$	93,101,042			\$	93,101,042	■ Total Federal Spending in Region
Non-Federal Funds ▶	\$	21,899,252	\$	-	\$	21,899,252	■ Total Non-Federal Spending in Region

TIP Section 1: TIP Section 2: Total of All

Federal Aid Regional Project Listings

Table 13: Federally Funded Projects Year 2020

Amendment/ Adjustment Type ▼	MassDOT Project ID ▼	мро ▼	Municipality Name ▼	MassDOT Project Description ▼	MassDOT District ▼		Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼
Section 1A / Feder	ral Aid Target Pro	ojects								
► HSIP - Highway Sa	afety Improveme	nt Program								
				No Projects Programmed			\$ -	\$ -	\$ -	
						HSIP Subtotal ▶	\$ -	\$ -	\$ -	■ 90% Federal + 10% Non-Federal
► CMAQ - Congestion	606895	Air Quality Improver Pioneer Valley	Granby	GRANBY- IMPROVEMENTS @ 2 LOCATIONS ON ROUTE 202: SCHOOL STREET & FIVE CORNERS	2	CMAQ	\$ 1,371,29	7 \$ 1,097,038	\$ 274,259	42 TEC 25% (YOE \$1,371,297) CMAQ
						 CMAQ Subtotal ▶	\$ 1,371,297	7 \$ 1,097,038	\$ 274,259	◀ 80% Federal + 20% Non-Federal
►TAP - Transportat	ion Alternatives	Program								
					2			\$ -	\$ -	
				No Projects Programmed			\$ -	\$ -	\$ -	
	-		,			TAP Subtotal ▶	\$ -	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal
► Non-CMAQ/HSIP/	TAP (Other)									
	605032	Pioneer Valley	Hadley	HADLEY- RECONSTRUCTION ON ROUTE 9, FROM EAST STREET TO MAPLE/SOUTH MAPLE ST	2	STP	\$ 5,396,160	4,316,928	\$ 1,079,232	46 TEC 25% (YOE \$5,396,160) STP
	607626	Pioneer Valley	Agawam	AGAWAM- RESURFACING & RELATED WORK ON ROUTE 159, FROM MEADOW STREET TO 150 FT. SOUTH OF SUFFIELD STREET (1.1 MILES)	2	STP	\$ 1,624,73	1 \$ 1,299,785	\$ 324,946	31.5 TEC 75% (YOE \$ 1,624,731) STP, TAP
				Non-CMA(Q/HSIP/TAP	│ (Other) Subtotal ▶	\$ 7,020,89	1 \$ 5,616,713	\$ 1,404,178	■ 80% Federal + 20% Non-Federal

► Section 1A / Fiscal Constraint Analysis

Total Federal Aid Target Funds Programmed ▶	\$ 8,392,188	\$ 23,855,357	⋖ Total Target	\$ 15,463,169	Target Funds Available
Total Non-CMAQ/HSIP/TAP (Other) Programmed ▶	\$ 7,020,891	\$ 19,442,035	■ Max. Non-	\$ 12,421,144	Non-CMAQ/HSIP/TAP (Other)
			CMAQ/HSIP/TAP		Available
Total HSIP Programmed ▶	\$ =	\$ 1,080,992	■ Min. HSIP	\$ 1,080,992	HSIP Recommended Not Met
Total CMAQ Programmed ►	\$ 1,371,297	\$ 2,702,480	■ Min. CMAQ	\$ 1,331,183	CMAQ Recommended Not Met
Total TAP Programmed ▶	\$ -	\$ 629.850	■ Min. TAP	\$ 629.850	TAP Recommended Not Met

	tematic Maintena	nce Program							
				No Projects Programmed	\$	- \$	-	\$ -	
				No Projects Programmed	\$	- \$	-	\$ -	
				Statewide Bridge Mai	ntenance Program Subtotal ▶ \$	- \$	-	\$ -	■ 80% Federal + 20% Non-Federal
n System				HADLEY - BRIDGE REPLACEMENT, H01005, ROUTE					
	608460	Pioneer Valley	Hadley	47 (BAY ROAD) OVER FORT RIVER	2 NHPP \$	4,853,092 \$	3,882,474	\$ 970,618	
	400103	Pioneer Valley	Westfield	WESTFIELD- BRIDGE REPLACEMENT, W-25-006, ROUTE 10/202 (SOUTHWICK ROAD) OVER THE LITTLE RIVER	2 NHPP \$	14,260,460 \$	11,408,368	\$ 2,852,092	25% Design
	-		1		On System Subtotal ▶ \$	19,113,552 \$	15,290,842	\$ 3,822,710	■ 80% Federal + 20% Non-Federal
									_
Off-System				WESTHAMPTON - BRIDGE REPLACEMENT, W-27-		I			
	608631	Pioneer Valley	Westhampton	005, KINGS HIGHWAY OVER N BRANCH MANAHN RIVER	1 STP-BR-OFF \$	3,071,040 \$	2,456,832	\$ 614,208	
					\$			\$ -	
					Off-System Subtotal ▶ \$	3,071,040 \$	2,456,832	\$ 614,208	■ 80% Federal + 20% Non-Federal
Statowida Brida	e Inspection Progra	-m			_				_
Statewide Bridg	e inspection Progra	alli		No Projects Programmed	\$	- \$		\$ -	
				No Projects Programmed	\$			\$ -	
					nspection Program Subtotal ▶ \$	-		\$ -	■ 80% Federal + 20% Non-Federal
				· · ·					
					_	I		•	
D 40 / F	adamal Ald Nasa Ta	over the state							
Section 1C / F	ederal Aid Non-Ta	arget Projects							
		arget Projects							
		arget Projects		No Projects Programmed	\$			\$ -	
		arget Projects		No Projects Programmed No Projects Programmed	\$	- \$	-	\$ -	
		arget Projects				- \$		\$ -	■ Funding Split Varies by Funding Source
		arget Projects			\$	- \$	-	\$ -	
Other Federal	Aid	arget Projects State Category Project	is		\$	- \$	-	\$ -	
Other Federal	Aid		ts		\$	- \$	-	\$ -	
Other Federal	Aid		is		\$	- \$	-	\$ -	
Other Federal	Aid		ts	No Projects Programmed No Projects Programmed	\$ Other Federal Aid Subtotal ▶ \$	- \$ - \$	-	\$ - \$ - \$ -	
Other Federal	Aid		is .	No Projects Programmed No Projects Programmed No Projects Programmed	State	- S - S - S	- - - -	\$ - \$ - \$ - \$ -	■ Funding Split Varies by Funding Source
Other Federal Section 1D / F Regional Majo	ederal Aid Major &	& State Category Project		No Projects Programmed No Projects Programmed No Projects Programmed	State of the Stat	- S - S - S	-	\$ - \$ - \$ - \$ -	
Other Federal Section 1D / F Regional Majo	ederal Aid Major &			No Projects Programmed No Projects Programmed No Projects Programmed Regional M	State	- \$ - \$ - \$ - \$	-	\$ - \$ - \$ - \$ -	■ Funding Split Varies by Funding Source
Other Federal Section 1D / F Regional Majo	ederal Aid Major &	& State Category Project		No Projects Programmed No Projects Programmed No Projects Programmed	State	- \$ - \$ - \$ - \$	- - - - - -	\$ - \$ - \$ - \$ -	■ Funding Split Varies by Funding Source

	602912	n and Air Quality Pioneer Valley	Chicopee	CHICOPEE- CHICOPEE RIVER RIVERWALK MULTI-	2	CMAQ	\$	2,273,911	\$ 1.8	319,129 \$	454,782	
		,,	3	USE PATH CONSTRUCTION, FROM GRAPE STREET	_			_,	,	10,120	,	
				TO FRONT STREET (NEAR ELLERTON STREET) (1								
	606450	Pioneer Valley	Holyoke	MILE) HOLYOKE- TRAFFIC SIGNAL UPGRADES AT 15	2	CMAQ	\$	4,234,543	\$ 3.	387,634 \$	846,909	
	000430	1 Torreor Valley	liolyoke	INTERSECTIONS ALONG HIGH & MAPLE STREETS	-	OWN TO	•	1,201,010	φ σ,	στ,σστ φ	010,000	
					Statewide	CMAQ Subt	otal ► \$	6,508,454	\$ 5,2	206,763 \$	1,301,691	■ 80% Federal + 20% Non-Federal
Statewide HSIP	Program											
	608575	Pioneer Valley	Multiple	CHICOPEE TO HOLYOKE - GUIDE AND TRAFFIC	2	HSIP	\$	562,979	\$:	506,681 \$	56,298	
				SIGN REPLACEMENT ON I-391								
							\$	-	\$	- \$	-	
				Statew	ide HSIP P	rogram Subt	otal ► \$	562,979	\$	506,681 \$	56,298	■ 90% Federal + 10% Non-Federal
Statewide Infras	tructure Prograi	m 		No Projects Programmed			\$		\$	- \$	-	1
							,		Ť	Ť		
				No Projects Programmed			\$	-	\$	- \$	-	
				Statewide Infra	structure P	rogram Subt	otal ► \$	-	\$	- \$	-	◀ 80% Federal + 20% Non-Federal
Statewide Interst	tata Maintanana	. Program										
Statewide Interst	late Maintenance	Frogram		No Projects Programmed			\$		\$	- \$	-	
				No Projects Programmed			\$		\$	- \$	-	
							•					
				Statewide Interstate Mai	ntenance P	rogram Subt	otal ► <u>\$</u>	-	\$	- \$	-	■ 90% Federal + 10% Non-Federal
Statewide Intellig	gent Transportat	ion Systems										
				No Projects Programmed			\$	-	\$	- \$	-	
				No Projects Programmed			\$	-	\$	- \$	-	
					Statew	ide ITS Subt	otal 🕨 \$		\$	- \$		■ 80% Federal + 20% Non-Federal
					Oldion	ido i i o odbi	otal P 		ļΨ			1 4 00 % F 040 M F 20 % F 01 F 040 M
Statewide Nation	nal Freight Progr	ram					1.4		1.4			
				No Projects Programmed			\$		\$	- \$	-	
				No Projects Programmed			\$	-	\$	- \$	-	
		L	l .	Statewide National	al Freight P	rogram Subt	otal ▶ \$	-	\$	- \$	-	◀ 80% Federal + 20% Non-Federal
Statewide Nation	608473	Pioneer Valley	South Hadley	SOUTH HADLEY- RESURFACING AND RELATED	2	NHPP	\$	2,619,187	\$ 21	095,350 \$	523,837	
	000470	Tioneer valley	Countriduity	WORK ON ROUTE 116	_		•	2,010,101	Ψ 2,	σο,σσο φ	020,007	
							\$	-	\$	- \$	-	
			1	Statewide NHS Pre	servation P	rogram Subt	otal ▶ \$	2,619,187	\$ 2,0	095,350 \$	523,837	■ 80% Federal + 20% Non-Federal
	_					-						-
Statewide Planni	ing Program	İ		No Projects Programmed	1	1	\$		l œ		-	I
				No Projects Programmed					\$	- \$		
				No Projects Programmed			\$	-	\$	- \$	-	
		·	•	Statewide	Planning P	rogram Subt	otal ▶ \$	-	\$	- \$		◀ 80% Federal + 20% Non-Federal
	ad Grado Crassi	nge										
Statowide Beil	au Graue Grossi	ııyə		No Projects Programmed	I	1	\$		\$	- \$	-	
Statewide Railro												
Statewide Railroa				No Projects Programmed			\$		\$	- S	-	

		No Projects Programmed	SRTS	\$	- 9	-	\$	_	
		, ,							
		No Projects Programmed	SRTS	\$	- 9	-	\$	-	
		Statewide Safe Routes to So	chools Program Subtot	al ▶ \$	- \$; -	\$	-	■ Funding Split Varies by Funding Source
Statewide Stormwater Retro	ofits								
		No Projects Programmed		\$	- 9	; -	\$	-	
		No Projects Programmed		\$	- 19	· -	\$		
		, ,	 water Retrofits Subtot	ol b ¢	- 9		\$		■ 80% Federal + 20% Non-Federal
		Statewide Stoff	iwater Netronis Subtot	aι ν [ψ	- 4	<u>-</u>	ΙΨ		4 00 % Federal - 20 % Non-Federal
Statewide Transportation Er	nhancements								
		No Projects Programmed		\$	- \$	-	\$	-	
		No Projects Programmed		\$	- 9	-	\$	-	
	ı J	Statewide Transportation	Enhancements Subtot	al ▶ \$	- \$	-	\$	-	■ 80% Federal + 20% Non-Federal
Oth 04-4									
Other Statewide Items		ABP GANS Repayment		\$	- 9		\$		
		Award Adjustments, Change Orders, Project Value		\$	- 9		\$		
		Changes, Etc.							
		DBEs, FAPO, Pavement Lab Retrofits, and Misc.		\$	- \$	-	\$	-	
		Programs Planning		\$	- 9	· -	\$		
		Statewide Design and Right of Way		•					
		Statewide Design and Right of Way		1.35	- 13	-	1.5	-	
		Statewide Recreational Trails	Statewide Items Subtot	\$ \$ al > \$	- 9 - 9	-	\$ \$ \$	-	■ Funding Split Varies by Funding Source
Section 2A / Non-Federal Pro	ojects	Statewide Recreational Trails	Statewide Items Subtot	\$	- 9	-	\$	-	◀ Funding Split Varies by Funding Source
	ojects	Statewide Recreational Trails	Statewide Items Subtot	\$	- 9	-	\$	-	▼ Funding Split Varies by Funding Source
	ojects	Statewide Recreational Trails	Statewide Items Subtot	\$	- 9	-	\$	-	■ Funding Split Varies by Funding Source
	ojects	Statewide Recreational Trails Other S No Projects Programmed		\$ al > \$	- 3	-	\$		■ Funding Split Varies by Funding Source
	ojects	Statewide Recreational Trails Other S No Projects Programmed No Projects Programmed	NFA NFA	\$ al > \$	- 9 - 9	-	\$ \$		
	ojects	Statewide Recreational Trails Other S No Projects Programmed No Projects Programmed	NFA	\$ al > \$	- 3	-	\$		■ Funding Split Varies by Funding Source ■ 100% Non-Federal
Non Federal Aid		Statewide Recreational Trails Other S No Projects Programmed No Projects Programmed	NFA NFA	\$ al > \$	- 9 - 9	-	\$ \$		
Non Federal Aid Section 2B / Non-Federal Bri	ridge Projects	Statewide Recreational Trails Other S No Projects Programmed No Projects Programmed	NFA NFA	\$ al > \$	- 9 - 9	-	\$ \$		
Non Federal Aid Section 2B / Non-Federal Bri	ridge Projects	Statewide Recreational Trails Other S No Projects Programmed No Projects Programmed	NFA NFA Non-Federal Aid Subto	\$ al > \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$	-	\$ \$ \$		
Non Federal Aid Non-Federal Bri	ridge Projects	No Projects Programmed No Projects Program	NFA NFA Non-Federal Aid Subto	\$ al > \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$	-	\$ \$ \$	-	
►Non Federal Aid Section 2B / Non-Federal Bri	ridge Projects	No Projects Programmed No Projects Program	NFA NFA Non-Federal Aid Subto	\$ al ► \$ \$ \$ tal ► \$	-	-	\$ \$ \$ \$		■100% Non-Federal
Non Federal Aid Section 2B / Non-Federal Bri	ridge Projects	No Projects Programmed No Projects Program	NFA NFA Non-Federal Aid Subto	\$ al ► \$ \$ \$ tal ► \$	- \$	-	\$ \$ \$		
Non Federal Aid Section 2B / Non-Federal Bri	ridge Projects	No Projects Programmed Section 2B / Non-Federal	NFA NFA Non-Federal Aid Subto	\$ al > \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$	IP Section 2:	\$ \$ \$ \$ \$ \$ \$ Total of A	- - - -	■100% Non-Federal
Non Federal Aid Non-Federal Bri Section 2B / Non-Federal Bri	ridge Projects	No Projects Programmed No Projects Program	NFA NFA Non-Federal Aid Subto	\$ al > \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 9 - 9	IP Section 2:	\$ \$ \$ \$ \$	- - - -	■100% Non-Federal
Non Federal Aid Section 2B / Non-Federal Bri	ridge Projects	No Projects Programmed Section 2B / Non-Federal	NFA NFA Non-Federal Aid Subto NFA NFA NFA Bridge Projects Subto	\$ al ▶ \$ \$ tal▶ \$ TIP Secti S	- \$	IP Section 2:	\$ \$ \$ \$ \$ Total of A Projects V	- - - - - - - - - - - - - -	■100% Non-Federal ■100% Non-Federal ■100% Non-Federal
Section 2A / Non-Federal Pro Non Federal Aid Section 2B / Non-Federal Bri Section 2B / Non-Federal Bri 2020 Pione	ridge Projects	No Projects Programmed Section 2B / Non-Federal	NFA NFA Non-Federal Aid Subto NFA NFA NFA Bridge Projects Subto	\$ al ▶ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$	IP Section 2:	\$ \$ \$ \$ \$ \$ \$ Total of A Projects \$ 40 \$ 32	- - - - - - - - - - - - 2,267,400	■100% Non-Federal ■100% Non-Federal

Table 14: Federally Funded Projects Year 2021

mendment/ djustment Type ▼	MassDOT Project ID ▼	МРО ▼	Municipality Name ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼
Section 1A / Fede	ral Aid Target Pro	ojects								
HSIP - Highway S	afety Improveme	nt Program				,				
							\$ -	\$ -	T	
							Ψ	\$ -	\$ -	
						HSIP Subtotal ▶	\$ -	\$ -	-	◀ 90% Federal + 10% Non-Federal
CMAQ - Congesti	on Mitigation and	I Air Quality Improvem	ent Program							
	607893	Pioneer Valley	Northampton	NORTHAMPTON- INTERSECTION IMPROVEMENTS @ ELM STREET, MAIN STREET, WEST STREET, STATE STREET & NEW SOUTH STREET	2	CMAQ	\$ 2,320,000	\$ 1,856,000	\$ 464,000	68 TEC Pre 25% CMAQ (YOE \$2,320,00
								\$ -	\$ -	
TAD Transports	tion Alternatives I	Drogram				CMAQ Subtotal ▶	\$ 2,320,000	\$ 1,856,000	\$ 464,000	■ 80% Federal + 20% Non-Federal
TAP - Transporta	tion Alternatives I	Program				CMAQ Subtotal ▶		\$ -	\$ -	■ 80% Federal + 20% Non-Federal
TAP - Transporta	tion Alternatives F	Program					\$ -	\$ -	\$ - \$ -	
ГАР - Transporta	tion Alternatives I	Program				CMAQ Subtotal ▶ TAP Subtotal ▶	\$ -	\$ -	\$ -	■ 80% Federal + 20% Non-Federal ■ 80% Federal + 20% Non-Federal
	TAP (Other)		Northoppeton	NORTHAMPTON INTERCECTION IMPROVEMENTS		TAP Subtotal ▶	\$ -	\$ - \$ - \$ -	\$ - \$ - \$ -	■ 80% Federal + 20% Non-Federal
		Program Pioneer Valley	Northampton	NORTHAMPTON- INTERSECTION IMPROVEMENTS AT KING STREET, NORTH STREET & SUMMER STREET AND AT KING STREET & FINN STREET	2		\$ -	\$ - \$ - \$ -	\$ - \$ - \$ -	■ 80% Federal + 20% Non-Federal
	TAP (Other)		Northampton Chicopee	AT KING STREET, NORTH STREET & SUMMER		TAP Subtotal ▶	\$ -	\$ - \$ - \$ - \$ 2,255,150	\$ - \$ - \$ -	■ 80% Federal + 20% Non-Federal 64.5 TEC, Pre 25% STP (YOE \$2,818,93
TAP - Transporta	TAP (Other) 607502	Pioneer Valley	·	AT KING STREET, NORTH STREET & SUMMER STREET AND AT KING STREET & FINN STREET CHICOPEE- RECONSTRUCTION & RELATED WORK ON FULLER ROAD, FROM MEMORIAL DR (RTE 33)	2 2	TAP Subtotal ▶	\$ -	\$ - \$ - \$ - \$ 2,255,150 \$ 5,762,880	\$ - \$ - \$ - \$ 563,788	■ 80% Federal + 20% Non-Federal 64.5 TEC, Pre 25% STP (YOE \$2,818,93 47.6 Pre 25% STP, (YOE \$7,203,600)

► Section 1A / Fiscal Constraint Analysis

Total Federal Aid Target Funds Programmed ▶	\$ 15,518,386	\$ 23,855,357	⋖ Total Target	\$ 8,336,971	Target Funds Available
Total Non-CMAQ/HSIP/TAP (Other) Programmed ▶	\$ 13,198,386	\$ 19,318,103	■ Max. Non-	\$ 6,119,717	Non-CMAQ/HSIP/TAP (Other)
· · · ·			CMAQ/HSIP/TAP		Available
Total HSIP Programmed ▶	\$ -	\$ 1,080,992	■ Min. HSIP	\$ 1,080,992	HSIP Recommended Not Met
Total CMAQ Programmed ▶	\$ 2,320,000	\$ 2,702,480	■ Min. CMAQ	\$ 382,480	CMAQ Recommended Not Met
Total TAP Programmed ▶	\$ -	\$ 753,782	■ Min. TAP	\$ 753,782	TAP Recommended Not Met

	ntenance Program					
		No Projects Programmed	\$	- \$	- \$	-
		No Projects Programmed	\$	- \$	- \$	-
		Statewic	de Bridge Maintenance Program Subtotal ▶ \$	- \$	- \$	- ■ 80% Federal + 20% Non-Federal
				,	1	
System						
		No Projects Programmed	\$	- \$	- \$	-
		No Projects Programmed	\$	- \$	- \$	-
			On System Subtotal ▶ \$	- \$	- \$	- ■ 80% Federal + 20% Non-Federal
ff-System		No Projects Programmed	\$	- \$	- \$	-
			\$			
		No Projects Programmed	Off-System Subtotal ► \$	- \$ - \$	- \$ - \$	- ■ 80% Federal + 20% Non-Federal
			On-Oystem Oustoldi F		Ψ	4 00% Federal - 20% North Ederal
tatewide Bridge Inspection P	Program					
		No Projects Programmed	\$	- \$	- \$	-
		No Projects Programmed	\$	- \$	- \$	-
		State	wide Bridge Inspection Program Subtotal ▶ \$	- \$	- \$	- ■ 80% Federal + 20% Non-Federal
	on-Target Projects					
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	608157	Pioneer Valley	Springfield	SPRINGFIELD- MCKNIGHT COMMUNITY TRAIL CONSTRUCTION, FROM ARMORY STREET TO HAYDEN AVENUE (1.5 MILES)	2	CMAQ	\$ 3,968,300	\$	3,174,640	\$	793,660	
				TINTIBER TWENCE (1.5 MILEO)			\$ -	\$	-	\$	-	
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				No Projects Programmed			\$ -	\$	-	\$	-	
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04-4		ti 0t		Statewide interstate in	iaintenance i i	ogram odbiotal 🗾	Ψ -	Ψ		Ψ		30 % rederal 1 10 % North ederal
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	nal Highway Sys		ram	No Projects Programmed Statewide Nation No Projects Programmed No Projects Programmed Statewide NHS F	onal Freight Pr	ogram Subtotal ▶	\$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$	-	\$ \$ \$	-	■ 80% Federal + 20% Non-Federal
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__ Pioneer Valley Transportation Improvement Program 2017-2021

tatewide Railroad Grade	Crossings	(N. D. J. J. D. J.		1.0		1.6	1	
		No Projects Programmed		\$	- \$	- \$	-	
		No Projects Programmed		\$	- \$	- \$	-	
	1	Statewide RR (Grade Crossings Subtotal ▶	\$	- \$	- \$	- 4	80% Federal + 20% Non-Federal
tatewide Safe Routes to	Schools Program							
tatewide Sale Routes to		No Projects Programmed	SRTS	\$	- \$	- \$	-	
		No Projects Programmed	SRTS	\$	- \$	- \$	-	
				,		·		5
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tatewide Stormwater Ret	trofits							
		No Projects Programmed		\$	- \$	- \$	-	
		No Projects Programmed		\$	- \$	- \$	-	
		Statewide Stor	mwater Retrofits Subtotal >	\$	- \$	- \$	- ◀	80% Federal + 20% Non-Federal
tatewide Transportation	Enhancements							
tatewide Transportation	Elliancements	No Projects Programmed		\$	- \$	- \$	-	
		No Projects Programmed		\$	- \$	- \$	-	
			n Enhancements Subtotal ▶	*	- \$	- \$		80% Federal + 20% Non-Federal
		Statewide Transportation	n Ennancements Subtotal •	Ф	- Þ	- Þ		50% Federal + 20% Non-Federal
Other Statewide Items								
		ABP GANS Repayment		\$	- \$ - \$	- \$ - \$	-	
		Award Adjustments, Change Orders, Project Value Changes, Etc.		Ф	- \$	- \$	-	
		DBEs, FAPO, Pavement Lab Retrofits, and Misc.		\$	- \$	- \$	-	
		Programs						
		Planning Statewide Design and Right of Way		\$	- \$ - \$	- \$ - \$	-	
		Statewide Recreational Trails		\$	- \$	- \$	-	
·	·	Other	Statewide Items Subtotal >	\$	- \$	- \$	- ◀	Funding Split Varies by Funding Source
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PROJECT CURRENLTY UNDER DESIGN AWAITING FUNDING								

Table 15: Projects Awaiting Design and Funds

2017-2021	CIP	Community	SID	Project Name and Description	Design	New	Old	Estimated Cost
Proposed TIP Year	IN/OUT					TEC	TEC	
2017	IN	Hadley / Amherst	608023	Sidewalk and Wheelchair Ramp Construction of Route 9	PS&E	13.5		\$1,204,050
2020	OUT	Agawam	607626	AGAWAM- RESURFACING & RELATED WORK ON ROUTE 159, FROM MEADOW STREET TO 150 FT. SOUTH OF SUFFIELD STREET (1.1 MILES)	75	31.5	0.00	\$1,450,653
2018	IN	Southampton	604738	RECONSTRUCTION OF GLENDALE ROAD (PHASE II) FROM COLLEGE HIGHWAY (RT 10) NORTHWESTERLY TO POMEROY MEADOW RD (3,801 FEET)	75	18.8	3.38	\$2,295,000
2020	IN	Longmeadow	607430	RESURFACING & RELATED WORK ON LONGMEADOW STREET (ROUTE 5), FROM THE CT S.L. TO CONVERSE STREET (2.88 MILES)	25/75	34.4	6.18	\$2,737,800
2018	IN	Northampton	(old#18	NORTHAMPTON- RECCTION OF DAMON ROAD, FROM ROUTE 9 TO ROUTE 5, IONSTRUNCLUDES DRAINAGE SYSTEM REPAIRS & SLOPE STABILIZATION AT THE NORWOTTUCK RAIL TRAIL	25	64.5	8.55	\$5,192,904
2017	IN	Northampton	604597	I-91 INTERCHANGE 19 IMPROVEMENTS AT ROUTE 9 AND DAMON RD	25	63.0	7.78	\$5,521,463
2018 HPP/STP	IN	Westfield	603449	WESTFIELD- ROUTE 20 ACCESS IMPROVEMENTS ON COURT STREET & WESTERN AVENUE, FROM LLEWELLYN DRIVE EASTERLY TO LLOYDS HILL ROAD (PHASE I)	25	57.5	8.97	\$4,800,000
2019	IN	Ware	607987	WARE-INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH STREET	25	54.5		\$1,980,000
2019 SW CMAQ	IN	Northampton	606555	NORTHAMPTON- ROUNDABOUT CONSTRUCTION AT INTERSECTION ROUTES 5/10 (NORTH KING STREET) & HATFIELD STREET	25	52.0	7.18	\$4,612,652
2017	IN	Southwick	604033	SOUTHWICK - RECONSTRUCTION CONGAMOND ROAD (ROUTE 168) - FROM COLLEGE HIGHWAY & ENDS 250 FEET SHORT OF STATE LINE (1.2 MILES)	25	49.5	6.52	\$6,265,400
2019	IN	Westfield	607773	WESTFIELD- IMPROVEMENTS & RELATED WORK ON ROUTE 20, COURT STEET & WESTERN AVENUE, LLOYDS HILL ROAD TO HIGH STREET/MILL STREET INTERSECTION (PHASE II) Eastern Section	25	48.5	8.97	\$6,000,000
2020	OUT	Hadley	605032	RECONSTRUCTION ON ROUTE 9 BETWEEN THE LOWE'S AND HOME DEPOT SITE DRIVES (0.6 MILES)	25	46.0	7.83	\$4,428,122
2019	IN	Holyoke	607256	RESURFACING & RELATED WORK ON HERITAGE STREET, FRONT STREET & DWIGHT STREET FROM MAPLE ST TO THE 1ST LEVEL CANAL (.54 MILES)	25	46.0	7.97	\$2,874,096
2020	OUT	Granby	606895	Route 202 Intersection Improvements 2 Locations @ 5 Corners and @ School Street	25	42.0	6.00	\$1,224,372
2017	IN	Ludlow	605011	RECONSTRUCTION OF CENTER STREET (ROUTE 21) - FROM 35' WEST OF BEACHSIDE DRIVE WESTERLY TO GAS LINE BESIDE MTA OVERPASS (3,500 FEET)	25	40.0	9.65	\$4,728,895
	OUT	Agawam	607316	RECONSTRUCTION OF ROUTE 187, FROM SOUTHWICK/SPRINGFIELD STREET TO ALLISON LANE (1.29 MILES - PHASE II)	25	33.8	6.08	\$5,562,610
	OUT	Worthington	606912	Route 143 Reconstruction and Related Work	25	33.5	4.22	\$13,600,000
	OUT	Goshen	602888	Route 9 reconstruction	25	28.0	6.20	\$7,500,000
	OUT	Holland	604962	RESURFACING & RELATED WORK ON BRIMFIELD ROAD, FROM THE BRIMFIELD/HOLLAND T.L. TO THE INTERSECTION OF STAFFORD STREET (2.3 MILES)	25	23.0	5.68	\$1,840,000
	OUT	Goshen		West Street Reclamation	25	16.1	2.90	\$3,800,000
2017	OUT	Goshen	608126	GOSHEN- RESURFACING AND RELATED WORK ON ROUTE 9 FROM CUMMINGTON T.L. TO ROUTE 112 (CAPE STREET)	25	13.0		\$3,500,000
2017	OUT	Northampton, Amherst, Holyoke, Springfield	PVBS01	Pioneer Valley Regional Bike Share (Phase 1)		46.5		\$1,171,971
2021	IN	Northampton	607893	NORTHAMPTON- INTERSECTION IMPROVEMENTS @ ELM STREET, MAIN STREET, WEST STREET, STATE STREET & NEW SOUTH STREET	0	68.0		\$2,000,000
2021	IN	Northampton	607502	INTERSECTION IMPROVEMENTS AT KING STREET, NORTH STREET & SUMMER STREET AND AT KING STREET & FINN STREET	0	64.5	7.40	\$2,430,119
	OUT	West Springfield	608374	This is a Complete Streets project for the Memorial Avenue (Route 147) corridor.	0	58.5		\$15,000,000
2018	IN	Agawam		Route 187/57 Intersection Improvements	0	58.0	8.73	\$2,200,000
	OUT	Belchertown	608412	BELCHERTOWN- IMPROVEMENTS & RELATED WORK ON ROUTES 202 & 21, FROM TURKEY HILL ROAD TO SOUTH MAIN STREET (1.2 MILES)	0	53.5		\$2,790,000

Table 15: Projects Awaiting Design and Funds (Appendix Z) (Cont.)

2019	IN	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)	0	50.0	7.82	\$4,457,830
2019	IN	Amherst	608084	Improvements and Related Work on Route 9 and 116 from University Drive to South Pleasant Street (0.8 miles)	0	48.5		\$1,255,660
2021	IN	Chicopee		RECONSTRUCTION & RELATED WORK ON FULLER ROAD, FROM MEMORIAL DR (RTE 33) TO SHAWINIGAN DR (2.0 MILES)	0	47.6	8.57	\$6,210,000
2019	IN	Holyoke	606156	RECONSTRUCTION OF I-91 INTERCHANGE 17 & ROUTE 141	0	46.5	5.45	\$2,600,000
2019 SW CMAQ	IN	Holyoke	606450	TRAFFIC SIGNAL UPGRADES AT 15 INTERSECTIONS ALONG HIGH & MAPLE STREETS	0	44.5	5.98	\$4,083,000
	OUT	Westfield	604445	RECONSTRUCTION ON ROUTE 187, INCLUDES REPLACEMENT OF W-25-002, SHERMAN'S MILL BRIDGE OVER GREAT BROOK AT PONTOOSIC ROAD	0	42.3	7.60	\$6,926,210
2018 SW HSIP	IN	Chicopee		SIGNAL & INTERSECTION IMPROVEMENTS AT 11 INTERSECTIONS ALONG ROUTE 33 (MEMORIAL DRIVE), FROM FULLER ROAD TO BRITTON STREET	0	40.5	7.15	\$4,016,980
	OUT	Springfield		Signalized Intersection Improvements Bay Street at Berkshire Avenue	0	40.5		\$1,800,000
	OUT	Hadley		RECONSTRUCTION ON ROUTE 9, FROM MIDDLE STREET (ROUTE 47) TO EAST OF MILL VALLEY ROAD (LOWE'S) (1.27 MILES)	0	40.0	8.12	\$6,900,000
	OUT	Northampton		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	5.82	\$1,200,112
	OUT	Wales	608163	WALES- RECONSTRUCTION & IMPROVEMENTS ON MONSON ROAD, FROM THE MONSON T.L. TO REED HILL ROAD (1.5 MILES)	0	39.5		\$3,452,400
2017	IN	Holyoke	606903	IMPROVEMENTS TO LOWER WESTFIELD ROAD ON I-91 (INTERCHANGE 15)	0	38.5	6.67	\$1,700,000
	OUT	Southwick	606141	RECONSTRUCTION OF FEEDING HILLS ROAD (ROUTE 57), FROM COLLEGE HIGHWAY TO THE AGAWAM T.L.	0	38.5	5.13	\$4,080,000
	OUT	Belchertown	604692	RECONSTRUCTION ON SOUTH MAIN STREET & NORTH WASHINGTON STREET FROM SOUTH MAIN ST TO THE INTERSECTION OF NORTH LIBERTY (2.08 MILES)	25	38.0	5.63	\$3,740,430
	OUT	Wilbraham	607990	RESURFACING & RELATED WORK ON ROUTE 20, FROM STONY HILL ROAD TO THE PALMER TOWN LINE (4.8 MILES)	0	36.0		\$5,699,340
	OUT	Agawam	607317	Route 187 Reconstruction from Allison Ln to Westfield City Line, 1.69 miles(Phase III)	0	33.8	6.08	\$7,589,668
	OUT	Southampton	604653	REHABILITATION OF EAST STREET - FROM COLLEGE HIGHWAY EASTERLY TO COUNTY ROAD (2.6 MILES)	25	32.0	6.03	\$5,022,200
	OUT	Easthampton / Southampton	608423	IMPROVEMENTS AND RELATED WORK ON TWO SECTIONS OF ROUTE 10 IN EASTHAMPTON AND SOUTHAMPTON	0	28.5		\$2,799,540
2019	IN	Agawam	600513	RECONSTRUCTION OF ROUTE 187 FROM 425 FT. SOUTH OF S. WESTFIELD STREET TO ROUTE 57 (0.3 MILES - PHASE I)	0	27.0	6.08	\$1,790,000
	OUT	Palmer	603873	RESURFACING & RELATED WORK ON ROUTE 20 - FROM EAST OF RTE 32 INTERSECTION EASTERLY TO MM 81.7 (2.0 MILES)	0	23.0	4.40	\$2,212,593
	OUT	Amherst / Pelham	606230	RESURFACING & RELATED WORK ON ROUTE 9 FROM SOUTHEAST ST IN AMHERST THROUGH PELHAM TO THE BELCHERTOWN T.L. (2.2 MILES)	0	22.8	4.10	\$1,800,000
	OUT	Hadley	608089	INTERSECTION, BICYCLE AND PEDESTRIAN IMPROVEMENTS @ ROUTES 9, 116 & WESTGATE CENTER DRIVE	0	22.5		\$1,544,720
	OUT	West Springfield	604746	BRIDGE REPLACEMENT, W-21-006, CSX RAILROAD OVER UNION STREET	0	21.0	11.12	\$12,403,054
2018 NHPP	IN	Granby / South Hadley	607474	GRANBY- SOUTH HADLEY- RESURFACING & RELATED WORK ON ROUTE 202, FROM LYMAN STREET SOUTH HADLEY TO PLEASANT STREET GRANBY (2 MILES)	0	20.5	0.00	\$1,872,000
	OUT	South Hadley		RESURFACING & RELATED WORK ON ROUTE 116 (AMHERST ROAD), FROM WOODBRIDGE STREET TO PEARL STREET	0	20.5	4.22	\$1,630,070
	OUT	Northampton	608161	NORTHAMPTON- RETAINING WALL REPLACEMENT AT CULVERT UNDER NORTH KING STREET (ROUTE 5&10), 300 FEET SOUTH OF COLES MEADOW ROAD (MM 25.4)	0	19.0		\$1,440,000
	OUT	Palmer	601504	RECONSTRUCTION OF ROUTE 32, FROM 765 FT. SOUTH OF STIMSON STREET TO 1/2 MILES SOUTH OF RIVER STREET (PHASE I) (1.63 MILES) (TFPC \$6,134,080) HPP Eamark \$2,500,000	0	18.0	7.58	\$3,570,304
	OUT	Southwick	604155	RESURFACING & RELATED WORK ON ROUTE 10/202, COLLEGE HIGHWAY (NORTHERLY SECTION) FROM THE WESTFIELD/SOUTHWICK T.L. TO TANNERY ROAD (1.4 MILES)	0	18.0	5.80	\$1,440,000
	OUT	Hadley	607886	RESURFACING AND RELATED WORK ON ROUTE 47 FROM COMINS DRIVE TO OLD RIVER DRIVE, INCLUDES CULVERT REPLACEMENT AT RUSSELVILLE BROOK	0	16.0	2.88	\$2,100,000

Table 15: Projects Awaiting Design and Funds (Appendix Z) (Cont.)

2018	OUT	Palmer	608253	PALMER- RESURFACING AND RELATED WORK ON ROUTE 67, FROM	0.3 0	15.5		\$3,257,080
				MILES EAST OF ROUTE 20 TO THE WARREN T.L. (5 MILES)				
	OUT	Hadley	606547	PEDESTRIAN SIGNAL INSTALLATION AT 2 LOCATIONS ALONG ROUT	ΓE 0	14.5	0.00	\$134,600
				9 NEAR WEST ST				
	OUT	Ware	603874	RESURFACING & RELATED WORK ON ROUTE 9, FROM .1 MILE WEST	0	14.5	3.03	\$1,273,145
				OF THE WARE T.L. EASTERLY TO MM 64.7 IN WARE (2.1 MILES)				
	OUT	Easthampton /	608026	SIDEWALK CONSTRUCTION & RELATED WORK ON ROUTE 10, FROM	0	14.0		\$422,505
		Southampton		MM 19.9 NORTHERLY TO MM 20.9 (600' SOUTH OF SOUTH STREET)				
	OUT	Palmer	607372	PALMER- RECONSTRUCTION OF ROUTE 32, FROM 1/2 MILE SOUTH O	OF 0	14.0	4.38	\$8,476,770
				RIVER STREET TO THE WARE T.L. (PHASE II) (2.1 MILES)				
	OUT	Agawam	607876	Sidewalk Construction on Route 159 From CT Line to Woodcliff Ave and From	0	13.5	2.43	\$450,265
		Ü		South St to River Road				
	OUT	Williamsburg	607231	Reconstruction of High Street and Mountain Street	0	13.0	4.42	\$3,600,000
	OUT	Wales		PEDESTRIAN ACCESS IMPROVEMENTS & RELATED WORK ON ROUT	E 0	9.0	4.30	\$312,500
				19				
	OUT	Chicopee	606892	SLOPE PROTECTION IMPROVEMENTS AT I-391 BRIDGE OVER THE	0	6.0	0.00	\$282,650
				CONNECTICUT RIVER				
	OUT	Cummington	606797	Route 9 Retaining Wall	0	4.5	4.4	\$1,660,000
2019 NHPP	IN	Chicopee/Holyoke	607560	INTERSTATE MAINTENANCE & RELATED WORK ON I-391	0			\$10,911,130
	OUT	Longmeadow /	606469	RETAINING WALL REPLACEMENT/REHABILITATION ON I-91 (SB)	0			\$6,143,750
		Springfield						
					69 Total (ST	P) Projects		\$258,970,613
				35 Mass	DOT D2 (ST	P) Projects		\$112,040,814
					DOT D1 (ST			\$12,660,000
				31 W	unicipal (ST	r) Projects		\$134,269,799

•				2017 - 2021 Transportation Improvement Program Projects- No Ident	tified Funding	/ Other Fun	ding
		Community	SID	Project Name and Description	Design		Estimated Cost
	OUT	Becket / Chester	607210	BECKET- CHESTER- MIDDLEFIELD- REHABILITATION OF B-03-		0.00	\$1,339,415
		/ Middlefield		017=M-19-017 & B-03-018=M-19-018, OLD "WESTERN RAILROAD"			
				KEYSTONE ARCH BRIDGES OVER THE WESTERN BRANCH OF			
				WESTFIELD RIVER			

Table 15: Projects Awaiting Design and Funds (Appendix Z) (Cont.) High Priority Project Listing (HPP)

Project Description	City/Town	Project ID	Funding	Fed. Funds	Fed. 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	Westfield	603449	HPP-4287	\$2,002,950	\$600,738	\$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; #60443 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 will remain un-oprogrammed until full project funding is available							

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

V. Transit Project Listing for FFY 2017-2021

The following is a complete listing of programmed transit projects for FFY 2017-2021

Table 16: FFY 2017 Transit Project Information

FTA Program	Project Number	Transit Agency	FTA Activity Line Item	Project Description	Carryover (unobligated)	Federal Funds	State Funds	TDC L	ocal Funds	Total Cost
5307	·			· · ·						
5307	RTD0004707	Pioneer Valley Transit Authority	114406	Purchase/Renovate Shop Equipment		\$80,000	\$20,000	\$0	\$0	\$100,000
5307	RTD0004711	Pioneer Valley Transit Authority	442301	Planning		\$216,000	\$54,000	\$0	\$0	\$270,000
5307	RTD0004712	Pioneer Valley Transit Authority	117C00	ADA Operating Projects		\$1,213,341	\$303,335	\$0	\$0	\$1,516,676
5307	RTD0004713	Pioneer Valley Transit Authority	117A00	Preventive Maintenance		\$4,520,000	\$1,130,000	\$0	\$0	\$5,650,000
5307	RTD0004729	Pioneer Valley Transit Authority	119306	CONSTRUCT BICYCLE ACCESS, FACIL & EQUIP ON BUSES		\$4,000	\$1,000	\$0	\$0	\$5,000
5307	RTD0004709	Pioneer Valley Transit Authority	119308	Transit Enhancements: Signs/Lighting		\$8,000	\$2,000	\$0	\$0	\$10,000
5307	RTD0004728	Pioneer Valley Transit Authority	114402	REHAB/RENOVATE - Environmental Compliance		\$60,000	\$15,000	\$0	\$0	\$75,000
5307	RTD0004708	Pioneer Valley Transit Authority	119302	Transit Enhancements: Shelters, benches, etc.		\$120,000	\$30,000	\$0	\$0	\$150,000
5307	RTD0003486	Pioneer Valley Transit Authority	114402	Rehab/Renovations: UMASS Maintenance Facility		\$80,000	\$20,000	\$0	\$0	\$100,000
5307	RTD0004710	Pioneer Valley Transit Authority	114220	Rehab/Renovation: Communications Systems (ITS)		\$2,408,435	\$602,109	\$0	\$0	\$3,010,544
5307	RTD0004731	Pioneer Valley Transit Authority	114302	CONSTRUCT - MAINT FACILITY, Spfld.O&M, Yr 3		\$1,962,074	\$14,900,000	\$0	\$0	\$16,862,074
5307	RTD0003445	Pioneer Valley Transit Authority	114402	Rehab/Renovations: Northampton Maintenace Facility		\$200,000	\$50,000	\$0	\$0	\$250,000
5307	RTD0004727	Pioneer Valley Transit Authority	111216	Purchase Replacement - Support Vehicles (2)		\$100,000	\$25,000	\$0	\$0	\$125,000
5307	RTD0004734	Pioneer Valley Transit Authority	114411	Purchase - Replacement: Supervisory Vehicles (2)		\$48,000	\$12,000	\$0	\$0	\$60,000
5307	RTD0005051	Pioneer Valley Transit Authority	114402	Facility Rehab: SATCO		\$1,400,000	\$350,000	\$0	\$0	\$1,750,000
5307	RTD0005150	Pioneer Valley Transit Authority	113303	TERMINAL, INTERMODAL (TRANSIT) - WESTFIELD		\$662,274	\$0	\$0	\$165,569	\$827,843
5307	RTD0004706	Pioneer Valley Transit Authority	111215	Purchase - Replacement: Vans (12)		\$625,038	\$156,260	\$0	\$0	\$781,298
				9	Subtotal	\$13,707,162	\$17,670,704	\$0	\$165,569	\$31,543,435
5309				S	Subtotal	\$0	\$0	\$0	\$0	\$0
5310				9	Subtotal	\$0	\$0	\$0	\$0	\$0
5311					Subtotal	\$0	\$0	\$0	\$0	\$0
5337										

Table 16: FFY 2017 Transit Project Information (Continued)

5339										
5339	RTD0003800	Pioneer Valley Transit Authority	113303	TERMINAL, INTERMODAL (TRANSIT) -		\$772,648	\$358,731	\$0	\$840,000	\$1,971,379
				WESTFIELD						
5339	RTD0005149	Pioneer Valley Transit Authority	111215	BUY REPLACEMENT VAN (7)		\$349,558	\$87,390		\$0	\$436,948
					Subtotal	\$1,122,206	\$446,121	\$0	\$840,000	\$2,408,327
5320										
					Subtotal	\$0	\$0	\$0	\$0	\$0
Other Federal										
					Subtotal	\$0	\$0	\$0	\$0	\$0
Other Non-Fed	deral									
					Subtotal	\$0	\$0	\$0	\$0	\$0
					Total	\$14,829,368	\$18,116,825	\$0	\$1,005,569	\$33,951,762

Funds listed under the Carry Over column are included in the Federal Amount

Table 17: FFY 2018 Transit Project Information

ETA Drogram	Duoi oat Nuusha	Transit A consu	FTA Activity Line House	Ducinet Beautistics	Community (weaklingted)	Fodoral Funda	State Funda	TDC LaselE-	do -	Cotal Cost
FTA Program 5307	Project Numbe	r Transit Agency	FTA Activity Line Item	Project Description	Carryover (unobligated)	Federal Funds	State Funds	IDC Local Fun	is i	Total Cost
5307	RTD0004699	Pioneer Valley Transit Authority	117A00	Preventive Maintenance	2017 - \$4,633,000	\$4,633,000	\$1,158,250	\$0	\$0	\$5,791,250
5307	RTD0004700	Pioneer Valley Transit Authority	117C00	ADA Operating Projects	2017 - \$1,231,541	\$1,231,541	\$307,885		\$0	\$1,539,426
5307	RTD0004701	Pioneer Valley Transit Authority	442301	Planning	2017 - \$221,400	\$221,400	\$55,350	\$0	\$0	\$276,750
5307	RTD0004703	Pioneer Valley Transit Authority	114406	Rehab/Renovation: Shop Equipment	2017 - \$600,000	\$600,000	\$150,000		\$0	\$750,000
5307	RTD0004704	Pioneer Valley Transit Authority	119302	Transit Enhancements: Shelters	2017 - \$60,000	\$60,000	\$15,000	\$0	\$0	\$75,000
5307	RTD0004705	Pioneer Valley Transit Authority	119308	Transit Enhancements: Signs/Lighting	2017 - \$12,000	\$12,000	\$3,000	\$0	\$0	\$15,000
5307	RTD0004724	Pioneer Valley Transit Authority	114402	REHAB/RENOVATE - Environmental Compliance	2017 - \$60,000	\$60,000	\$15,000	\$0	\$0	\$75,000
5307	RTD0004725	Pioneer Valley Transit Authority	119306	CONSTRUCT BICYCLE ACCESS, FACIL & EQUIPON BUSES	2017 - \$4,000	\$4,000	\$1,000	\$0	\$0	\$5,000
5307	RTD0004723	Pioneer Valley Transit Authority	114211	ACQUIRE - SUPPORT VEHICLES, (5)	2017 - \$336,000	\$336,000	\$84,000	\$0	\$0	\$420,000
5307	RTD0004714	Pioneer Valley Transit Authority	114220	Misc. Communications Systems and ITS	2017 - \$3,351,565	\$3,351,565	\$837,891	\$0	\$0	\$4,189,456
5307	RTD0003438	Pioneer Valley Transit Authority	114402	Rehab/Renovations: Northampton	2017 - \$260,000	\$260,000	\$65,000	\$0	\$0	\$325,000
5307	RTD0005027	Pioneer Valley Transit Authority	114411	Purchase - Replacement: Supervisory Vehicles (4)	2017 - \$96,000	\$96,000	\$24,000	\$0	\$0	\$120,000
5307	RTD0004702	Pioneer Valley Transit Authority	111216	Purchase - Replacement: Vans (13)	2017 - \$694,821	\$694,821	\$173,706	\$0	\$0	\$868,527
5307	RTD0005028	Pioneer Valley Transit Authority	114402	Rehab UMass Maint Facility	2017 - \$80,000	\$80,000	\$100,000	\$0	\$0	\$180,000
					Subtotal	\$11,640,327	\$2,990,082	\$0	\$0 \$	14,630,409
5309					Subtotal	\$0	\$0	\$0	\$0	\$0
5310					Subtotal	\$0	\$0	\$0	\$0	\$0
5311					Subtotal	\$0	\$0	\$0	\$0	\$0
5337					Subtotal	\$0			\$0	\$0
5339										
5339	RTD0005151	Pioneer Valley Transit Authority	111215	BUY REPLACEMENT VAN (16)	2017 - \$837,347	\$837,347	\$209,337	\$0	\$0	\$1,046,684
		· ·			Subtotal	\$837,347	\$209,337	\$0	\$0	\$1,046,684
5320					Subtotal	\$0	\$0	\$0	\$0	\$0
Other Federal					Subtotal	\$0	\$0	\$0	\$0	\$0
Other Non-Federal										
Other Non-Federal	RTD0004735	Pioneer Valley Transit Authority	114302	CONSTUCT: MAINT FACILITY, Spfld.O&M, Yr		\$0	\$38,500,000	\$0	\$0 \$	38,500,000
Other Non-Federal	RTD0003482	Pioneer Valley Transit Authority	114402	REHAB/RENOVATE - MAINTENANCE FACILITY, SATCO		\$0	\$750,000	\$0	\$0	\$750,000
Other Non-Federal	RTD0005026	Pioneer Valley Transit Authority	111204	BUY REPLACEMENT <30 FT BUS (3)		\$0	\$270,000	\$0	\$0	\$270,000
					Subtotal		\$39,520,000			39,520,000
					Total		\$42,719,419			55,197,093
										, ,

Table 18: FFY 2019 Transit Project Information

Say	FTA Program	Project Number	Transit Agency	FTA Activity Line Item	Project Description	Carryover (unobligated)	Federal Funds	State Funds	TDC Local	l Funds	Total Cost
Sample S	5307										
Compliance	5307	RTD0004717	Pioneer Valley Transit Authority	114406	REHAB/RENOVATE - SHOP EQUIPMENT	2018 - \$240,000	\$240,000	\$60,000	\$0	\$0	\$300,000
S307 RTD0004719 Pioneer Valley Transit Authority 119302 CONSTRUCTION - BUS SHELTERS 2018 - \$60,000 \$60,000 \$15,000 \$0 \$0 \$75,000 \$0 \$0 \$75,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0	5307	RTD0004718	Pioneer Valley Transit Authority	114402	REHAB/RENOVATE - Environmental	2018 - \$120,000	\$120,000	\$30,000	\$0	\$0	\$150,000
S37 RTD004720 Pioneer Valley Transit Authority 119308 CONSTRUCT SIGNAGE 2018 - \$12,000 \$12,000 \$30,000 \$0 \$0 \$15,000 \$307 RTD0004740 Pioneer Valley Transit Authority 11700 NON FIXED ROUTE ADA PARA SERV 2018 - \$12,50,014 \$12,50,01					Compliance						
Sample S	5307	RTD0004719	Pioneer Valley Transit Authority	119302	CONSTRUCTION - BUS SHELTERS	2018 - \$60,000	\$60,000	\$15,000	\$0	\$0	\$75,000
S307 RTD0004740 Pioneer Valley Transit Authority 11700 PREVENTIVE MAITEMANCE 2018 - \$1,250,014 \$1,250,014 \$312,504 \$0 \$0 \$1,562,518 \$507 RTD0004741 Pioneer Valley Transit Authority 114411 REHAB/RENOVATE - SUBERVISIORY VEHICLES 2018 - \$6,000 \$96,000 \$24,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0	5307	RTD0004720	Pioneer Valley Transit Authority	119308	CONSTRUCT SIGNAGE	2018 - \$12,000	\$12,000	\$3,000	\$0	\$0	\$15,000
S307 RTD0004741 Pioneer Valley Transit Authority 117A00 PREVENTIVE MAINTENANCE 2018 - \$4,748,825 \$4,748,825 \$1,187,00 \$0 \$0 \$5,936,031 S307 RTD0004747 Pioneer Valley Transit Authority 11411 REHAB/RENOVATE - SUPERVISORY VEHICLES 2018 - \$96,000 \$96,000 \$24,000 \$0 \$0 \$0 \$120,000 S307 RTD0004742 Pioneer Valley Transit Authority 11620 PURCHASE MISC COMMUNICATIONS EQUIP, 2018 - \$3,727,971 \$33,727,971 \$931,993 \$0 \$0 \$4,659,964 IT systems	5307	RTD0004739	Pioneer Valley Transit Authority	442400	SHORT RANGE TRANSIT PLANNING	2018 - \$226,935	\$226,935	\$56,734	\$0	\$0	\$283,669
Sand RTD0004747 Pioneer Valley Transit Authority 114411 REHAB/RENOVATE - SUPERVISORY VEHICLES 2018 - \$96,000 \$96,000 \$24,000 \$0 \$0 \$120,000 \$	5307	RTD0004740	Pioneer Valley Transit Authority	117C00	NON FIXED ROUTE ADA PARA SERV	2018 - \$1,250,014	\$1,250,014	\$312,504	\$0	\$0	\$1,562,518
S307 RTD0004742 Pioneer Valley Transit Authority 116220 PURCHASE MISC COMMUNICATIONS EQUIP, 2018 - \$3,727,971 \$3,727,971 \$931,993 \$0 \$0,\$4,659,964 \$17 systems \$15	5307	RTD0004741	Pioneer Valley Transit Authority	117A00	PREVENTIVE MAINTENANCE	2018 - \$4,748,825	\$4,748,825	\$1,187,206	\$0	\$0	\$5,936,031
Sample S	5307	RTD0004747	Pioneer Valley Transit Authority	114411	REHAB/RENOVATE - SUPERVISORY VEHICLES	2018 - \$96,000	\$96,000	\$24,000	\$0	\$0	\$120,000
T systems					(5)						
Sada Pioneer Valley Transit Authority 114402 REHAB/RENOVATE - UMASS MAINTENANCE 2018 - \$800,000 \$800,000 \$200,000 \$0 \$0 \$0 \$1,000,000 \$0 \$0 \$0 \$0 \$0 \$0	5307	RTD0004742	Pioneer Valley Transit Authority	116220	PURCHASE MISC COMMUNICATIONS EQUIP,	2018 - \$3,727,971	\$3,727,971	\$931,993	\$0	\$0	\$4,659,964
FACILITY 5307 RTD0004748 Pioneer Valley Transit Authority 114403 REHAB/RENOVATE - Holyoke ADMIN/MAINT 2018 - \$400,000 \$400,000 \$100,000 \$0 \$0 \$500,000 FACILITY 5307 RTD0004722 Pioneer Valley Transit Authority 114401 REHAB/RENOVATE - ADMINISTRATIVE 2018 - \$800,000 \$800,000 \$200,000 \$0 \$0 \$1,000,000 FACILITY 5307 RTD0004738 Pioneer Valley Transit Authority 111215 BUY REPLACEMENT VAN 2018 - \$18,399 \$18,399 \$7,584 \$0 \$0 \$0 \$25,983 FACILITY 5309 Subtotal \$12,500,144 \$3,128,021 \$0 \$0 \$15,628,165 FACILITY 5310 Subtotal \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0					IT systems						
Sand RTD0004748 Pioneer Valley Transit Authority 114403 REHAB/RENOVATE - Holyoke ADMIN/MAINT 2018 - \$400,000 \$400,000 \$100,000 \$0 \$0 \$500,000	5307	RTD0003839	Pioneer Valley Transit Authority	114402	REHAB/RENOVATE - UMASS MAINTENANCE	2018 - \$800,000	\$800,000	\$200,000	\$0	\$0	\$1,000,000
FACILITY					FACILITY						
Sand RTD0004722 Pioneer Valley Transit Authority 114401 REHAB/RENOVATE - ADMINISTRATIVE 2018 - \$800,000 \$800,000 \$00,000 \$0 \$0 \$0,000 \$0 \$	5307	RTD0004748	Pioneer Valley Transit Authority	114403	REHAB/RENOVATE - Holyoke ADMIN/MAINT	2018 - \$400,000	\$400,000	\$100,000	\$0	\$0	\$500,000
FACILITY 5307 RTD0004738 Pioneer Valley Transit Authority 111215 BUY REPLACEMENT VAN 2018 - \$18,399 \$18,399 \$7,584 \$0 \$0 \$25,983 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10					FACILITY						
Subtotal	5307	RTD0004722	Pioneer Valley Transit Authority	114401	•	2018 - \$800,000	\$800,000	\$200,000	\$0	\$0	\$1,000,000
Subtotal \$12,500,144 \$3,128,021 \$0 \$0 \$15,628,165 5309 Subtotal \$0 \$0 \$0 \$0 \$0 \$0 5310 Subtotal \$0 <					FACILITY						
5309 Subtotal \$0	5307	RTD0004738	Pioneer Valley Transit Authority	111215	BUY REPLACEMENT VAN	. ,					. ,
Subtotal \$0 <						Subtotal	\$12,500,144	\$3,128,021	\$0	\$0	\$15,628,165
Subtotal \$0 <	5309										
Subtotal \$0 <						Subtotal	\$0	\$0	\$ 0	\$0	\$0
Subtotal \$0 <	5310										
Subtotal \$0 \$0 \$0 \$0 \$0 5337 Subtotal \$0						Subtotal	\$0	\$0	\$ 0	\$0	\$0
5337 Subtotal \$0 \$0 \$0 \$0	5311										
Subtotal \$0 \$0 \$0 \$0 \$0						Subtotal	\$0	\$0	\$0	\$0	\$0
	5337										
5339						Subtotal	\$0	\$0	\$0	\$0	\$0
5339 RTD0005152 Pioneer Valley Transit Authority 111215 BUY REPLACEMENT VAN (15) 2018 - \$849,907 \$212,477 \$0 \$0 \$1,062,384	5339	RTD0005152	Pioneer Valley Transit Authority	111215	BUY REPLACEMENT VAN (15)	. ,		. ,	•		
Subtotal \$849,907 \$212,477 \$0 \$0 \$1,062,384						Subtotal	\$849,907	\$212,477	\$0	\$0	\$1,062,384

Table 18: FFY 2019 Transit Project Information (Continued)

				S	Subtotal \$	0 \$0	\$0	\$0	\$0
Other Federal									
				S	Subtotal \$	0 \$0	\$0	\$0	\$0
Other Non-Federal									
Other Non-Federal	RTD0004721	Pioneer Valley Transit Authority	119306	CONSTRUCT BICYCLE ACCESS, FACIL & EQUIP	\$	0 \$5,000	\$0	\$0	\$5,000
				ON BUSES					
Other Non-Federal	RTD0004737	Pioneer Valley Transit Authority	111206	BUY REPL ARTICULATED BUS (4)	\$	0 \$2,135,672	\$0	\$0	\$2,135,672
Other Non-Federal	RTD0005031	Pioneer Valley Transit Authority	111201	BUY REPLACEMENT 40-FT BUS (15)	\$	0 \$3,343,720	\$0	\$0	\$3,343,720
Other Non-Federal	RTD0004736	Pioneer Valley Transit Authority	111301	BUY 40-FT BUS FOR EXPANSION (6)	\$	0 \$3,339,720	\$0	\$0	\$3,339,720
Other Non-Federal	RTD0004744	Pioneer Valley Transit Authority	111202	BUY REPLACEMENT 35-FT BUS (11)	\$	0 \$2,741,326	\$0	\$0	\$2,741,326
Other Non-Federal	RTD0004715	Pioneer Valley Transit Authority	114211	ACQUIRE - REPL SUPPORT VEHICLES, (1)	\$	0 \$75,000	\$0	\$0	\$75,000
Other Non-Federal	RTD0005422	Pioneer Valley Transit Authority	114302	CONSTUCT: MAINT FACILITY, Spfld.O&M, Yr	\$	0 \$2,300,000	\$0	\$0	\$2,300,000
				5					
				S	Subtotal \$	0 \$13,940,438	\$0	\$0	\$13,940,438
				Т	Fotal \$13,350,05	1 \$17,280,936	\$0	\$0	\$30,630,987

Funds listed under the Carry Over column are included in the Federal Amount

Table 19: FFY 2020 Transit Project Information

2019 - \$60,000 2019 - \$12,000 & EQUIP 2019 - \$4,000 2019 - \$60,000 LEVEL 2019 - \$232,608	\$60,000 \$12,000 \$4,000 \$60,000 \$232,608	\$3,000 \$1,000	\$0 \$0 \$0	\$0 \$0 \$0	\$15,000 \$5,000
2019 - \$12,000 & EQUIP 2019 - \$4,000 2019 - \$60,000 LEVEL 2019 - \$232,608	\$12,000 \$4,000 \$60,000	\$3,000 \$1,000 \$15,000	\$0 \$0 \$0	\$0 \$0	\$15,000 \$5,000
& EQUIP 2019 - \$4,000 2019 - \$60,000 LEVEL 2019 - \$232,608	\$4,000 \$60,000	\$1,000 \$15,000	\$0 \$0	\$0	\$5,000
2019 - \$60,000 LEVEL 2019 - \$232,608	\$60,000	\$15,000	\$0	, ,	
LEVEL 2019 - \$232,608				\$0	A== 0.55
LEVEL 2019 - \$232,608				\$0	A A
	\$232,608	\$58,152			
2019 - \$1,287,796			\$0	\$0	\$290,760
	\$1,287,796	\$321,949	\$0	\$0	\$1,609,745
2019 - \$4,867,546	\$4,867,546	\$1,216,886	\$0	\$0	\$6,084,432
2019 - \$5,900,587	\$5,900,587	\$1,449,191	\$0	\$1,449,191	\$8,798,969
ICLES (2) 2019 - \$120,000	\$120,000	\$30,000	\$0	\$0	\$150,000
IENT 2019 - \$88,000	\$88,000	\$22,000	\$0	\$0	\$110,000
2019 - \$245,423	\$245,423	\$30,678	\$0	\$30,678	\$306,779
Subtotal	\$12,877,960	\$3,162,856	\$0	\$1,479,869	\$17,520,685
Cubtatal	¢n.	¢٥	¢٥	¢0	\$0
Subtotal	30	3 0	ŞÜ	3 0	30
Subtotal	\$0	\$0	\$0	\$0	\$0
Subtotal	ŚŊ	\$0	\$0	ŚŊ	\$0
Subtotal	Ų.	70	70	70	ŢŪ
Subtotal	\$0	\$0	\$0	\$0	\$0
2019 - \$875,595	\$875,595	\$109,450	\$0	\$109,450	
Subtotal	\$875,595	\$109,450	\$0	\$109,450	\$1,094,495
Subtotal	\$0	\$0	Ş0	\$0	\$0
Subtotal	\$0	\$0	\$0	\$0	\$0
	\$0	\$1,433,296	\$0	\$0	\$1,433,296
	\$0		\$0	\$0	\$1,472,280
	\$0	\$2,300,000	\$0	\$0	\$2,300,000
Subtotal	\$0		\$0	\$0	
Total	\$13,753,555	\$8,477,882	\$0	\$1,589,319	\$23,820,756
	2019 - \$5,900,587 ICLES (2) 2019 - \$120,000 IENT 2019 - \$88,000 2019 - \$245,423 Subtotal Subtotal Subtotal Subtotal 2019 - \$875,595 Subtotal Subtotal Subtotal Subtotal	2019 - \$5,900,587 \$5,900,587 \$120,000 IENT 2019 - \$88,000 \$88,000 \$2019 - \$245,423 \$245,423 \$245,423 \$2019 - \$245,423 \$2019 - \$245,423 \$2019 - \$245,423 \$2019 - \$245,423 \$2019 - \$201	2019 - \$5,900,587 \$5,900,587 \$1,449,191 ICLES (2) 2019 - \$120,000 \$120,000 \$30,000 IENT 2019 - \$88,000 \$88,000 \$22,000 2019 - \$245,423 \$245,423 \$30,678 Subtotal \$12,877,960 \$3,162,856 Subtotal \$0 \$0 Subtotal \$0 \$5,205,576	2019 - \$5,900,587	2019 - \$5,900,587

Table 20: FFY 2021 Transit Project Information

Say Say Propess Pr	FTA Program	Project Number	Transit Agency	FTA Activity Line Item	Project Description	Carryover (unobligated)	Federal Funds	State Funds	TDC	Local Funds	Total Cost
RTHAN/RTNOVATE - SUPERVISORY VERTEX STATE	5307 5307	RTD0004746	Pioneer Valley Transit Authority	111202	BUY REPLACEMENT 35-FT BUS (14)	2020 - \$5,902,440	\$5,902,440	\$1,140,615	\$0	\$1,140,615	\$8,183,670
San	5307	RTD0004757	Pioneer Valley Transit Authority	114411		. ,	\$120,000	\$30,000	\$0	\$0	\$150,000
Sample Propose Propo	5207	DTD 000 4750	Black Wells Toward Authorit	44444	<i>,</i>		624.000	¢c 000	ćo	ćo	¢20.000
REHAB/RENOVATE - Environmental REHAB/RENOVATE - REHAB/RENOVATE - Environmental REHAB/RENOVATE - Environmental REHAB/RENOVATE - Environmental REHAB/RENOVATE - Environmental REHAB/RENOVATE - REHAB/RE											
Sad7 RTD0005039 Pioneer Valley Transit Authority 119402 BLS SHETER 2020 - 560,000 500,000 515,000 50 50 505,000 530,000 530,000 50 505,000 530,0	5307	K1D0004764	,	114406	•	2020 - \$88,000	\$88,000	\$22,000	\$ 0	\$0	\$110,000
San	5307	RTD0005038	Pioneer Valley Transit Authority	114402	Compliance	2020 - \$60,000	\$60,000	\$15,000	•	\$0	\$75,000
REMAN REMA	5307	RTD0005039	•	119402	BUS SHELTERS	. ,	\$60,000	\$15,000		\$0	\$75,000
Sajon RTD0005045 Ploneer Valley Transit Authority 40000 PLANNING 2020 - \$238,424 \$238,424 \$53,606 \$0 \$0 \$0 \$50,828,309 \$5307 RTD0005048 Ploneer Valley Transit Authority 117400 PREVENTIVE MAINTENANCE 2020 - \$4,989,234 \$4,989,234 \$1,247,309 \$0 \$0 \$0 \$6,236,539 \$32,700 \$0 \$0 \$0 \$6,236,539 \$32,700 \$0 \$0 \$0 \$6,236,539 \$32,700 \$0 \$0 \$0 \$6,236,539 \$33,700 \$0 \$0 \$0 \$0 \$0 \$0 \$0	5307	RTD0005040	Pioneer Valley Transit Authority	119408	•	2020 - \$12,000	\$12,000	\$3,000	\$0	\$0	\$15,000
Sadd RTD0005046	5307	RTD0005041	Pioneer Valley Transit Authority	119406	EQUIP	2020 - \$4,000	\$4,000	\$1,000	\$0	\$0	\$5,000
Sa70 RTD0005048 Ploneer Valley Transit Authority 117A00 PREVENTIVE MAINTENANCE 2020 - \$4,989,234 \$4,989,234 \$1,247,300 \$0 \$0,526,543 \$33,400 \$331,400 \$1300 \$13,071,131 \$2,899,048 \$0 \$3,274 \$331,400 \$331,400 \$330 \$300	5307	RTD0005045	Pioneer Valley Transit Authority	440000	PLANNING	2020 - \$238,424	\$238,424	\$59,606	\$0	\$0	\$298,030
Sappar S	5307	RTD0005046	Pioneer Valley Transit Authority	300900	ADA OPERATING ASSISTANCE	2020 - \$1,307,113	\$1,307,113	\$326,778	\$0	\$0	\$1,633,891
Subtotal S13,071,131 S2,899,048 S0 S1,173,355 S17,143,534	5307	RTD0005048	Pioneer Valley Transit Authority	117A00	PREVENTIVE MAINTENANCE	2020 - \$4,989,234	\$4,989,234	\$1,247,309	\$0	\$0	\$6,236,543
Subtotal	5307	RTD0004752	Pioneer Valley Transit Authority	111215	BUY REPLACEMENT VAN (4)	2020 - \$265,920	\$265,920	\$32,740	\$0	\$32,740	\$331,400
Subtotal						Subtotal	\$13,071,131	\$2,899,048	\$0	\$1,173,355	\$17,143,534
Subtotal Subtotal Substitution	5309					Subtotal	\$0	\$0	\$0	\$0	\$0
Subtotal	5310					Subtotal	\$0	\$0	\$0	\$0	\$0
Subtotal	5311					Subtotal	\$0	\$0	\$0	\$0	\$0
Sage	5337					Subtotal					
Sample RTD0005154 Pioneer Valley Transit Authority 111215 BUY REPLACEMENT VAN (16) 2020 - \$888,729 \$888,729 \$111,092 \$0 \$111,092 \$1,110,913	E220					Jubiotai	, JO	30	٥ڔ	٥ڔ	ÇÜ
Subtotal \$888,729 \$111,092 \$0 \$111,092 \$1,110,913		PTD0005154	Pioneer Valley Transit Authority	111215	BLIV REDI ACEMENT VAN (16)	2020 - \$888 720	\$222 720	\$111.002	¢Ω	\$111.002	\$1 110 012
Subtotal	5559	K1D0003134	Florieer valley Hallsit Authority	111213	BOT REFEACEIVIENT VAIN (10)		. ,	. ,		. ,	
Other Federal Subtotal \$0 \$3,247,850 \$0 \$0 \$3,247,850 \$0 \$0 \$3,247,850 \$0 \$0 \$3,247,850 \$0 \$0 \$3,247,850 \$0 \$1,694,542 \$0 \$0 \$1,694,542 \$0 \$0 \$1,694,542 \$0 \$0 \$4,942,392 \$0 \$0 \$4,942,392 \$0 \$0 \$4,942,392 \$0 \$0 \$4,942,392 \$0 \$0 \$4,942,392 \$0	5320						Ψοσο,: 25	Ψ111,031	70	Ψ111,031	¥1,110,515
Other Non-Federal RTD0003471 Pioneer Valley Transit Authority 111201 BUY REPLACEMENT 40-FT BUS (21) \$0 \$3,247,850 \$0 \$3,247,850 \$0 \$3,247,850 \$0 \$3,247,850 \$0 \$3,247,850 \$0 \$3,247,850 \$0 \$3,247,850 \$0 \$1,694,542 \$0						Subtotal	\$0	\$0	\$0	\$0	\$0
Other Non-Federal Other Non-Federal RTD0003471 Pioneer Valley Transit Authority 111201 BUY REPLACEMENT 40-FT BUS (21) \$0 \$3,247,850 \$0 \$3,247,850 Other Non-Federal RTD0005042 Pioneer Valley Transit Authority 116202 Information Technology Systems \$0 \$1,694,542 \$0 \$0 \$4,942,392 Subtotal \$0 \$4,942,392 \$0 \$0 \$4,942,392	Other Federal					Subtotal	\$0	\$0	\$0	\$0	\$0
Other Non-Federal RTD0003471 Pioneer Valley Transit Authority 111201 BUY REPLACEMENT 40-FT BUS (21) \$0 \$3,247,850 \$0 \$3,247,850 Other Non-Federal RTD0005042 Pioneer Valley Transit Authority 116202 Information Technology Systems \$0 \$1,694,542 \$0 \$1,694,542 Subtotal \$0 \$4,942,392 \$0 \$4,942,392	Other Non-Federal										
Other Non-Federal RTD0005042 Pioneer Valley Transit Authority 116202 Information Technology Systems \$0 \$1,694,542 \$0 \$1,694,542 Subtotal \$0 \$4,942,392 \$0 \$0 \$4,942,392		RTD0003471	Pioneer Valley Transit Authority	111201	BUY REPLACEMENT 40-FT BUS (21)		\$0	\$3,247,850	\$0	\$0	\$3,247,850
Subtotal \$0 \$4,942,392 \$0 \$0 \$4,942,392	Other Non-Federal	RTD0005042					\$0			\$0	
Total \$13,959,860 \$7,952,532 \$0 \$1,284,447 \$23,196,839						Subtotal	\$0			\$0	
						Total	\$13,959,860	\$7,952,532	\$0	\$1,284,447	\$23,196,839

VI. STATEWIDE FEDERAL AID PROJECT LISTING

The MassDOT provided each planning agency a listing of statewide items anticipated for FFY 2017 to 2021. These items are to be funded separately from the regional TIP program. This information is provided in the following Tables.

Table 21 Statewide Federal Aid Project Listing

Fiscal	Project	MassDOT	MassDOT	Funding	Total	Federal	Non-
Year	ID	Project Description	District	Source	Funds	Funds	Federal Funds
F2017	►Region	। ∩al Major Infrastructure					i ulius
	607731	SPRINGFIELD- VIADUCT DECK REPLACEMENT OF ON	2	NHPP	\$9,000,000	\$7,200,000	\$1,800,000
		I-91 (EARLY ACTION)					
		Major Infrastructure Subtotal ►	T	1	\$9,000,000	\$7,200,000	\$1,800,000
	► STATE Program	EWIDE Interstate Maintenance					
	608211	CHICOPEE- SPRINGFIELD- INTERSTATE MAINTENANCE & RELATED WORK ON I-291	2	NHPP	\$4,118,400	\$3,706,560	\$411,840
	STATEW	IDE Interstate Maintenance Progra	am Subtotal I	<u> </u>	\$22,118,400	\$18,106,560	\$4,011,840
		WIDE Stormwater Retrofits				* * * * * * * * * * * * * * * * * * *	+ 1,0 11,0 10
	608192	AGAWAM- CHICOPEE- HOLYOKE- WEST SPRINGFIELD STORM WATER IMPROVEMENTS ALONG I-91, I-391, ROUTE 57 AND ROUTE 5	2	STP-TE	\$1,276,062	\$1,020,850	\$255,212
	STATEW	IDE Stormwater Retrofits Subtotal	>		\$1,276,062	\$1,020,850	\$ 255,212
2018		EWIDE Congestion Mitigation					
	and Air Quality						
	607589	SPRINGFIELD- NORTH END PEDESTRIAN PATH CONSTRUCTION (UNDER THE CONNECTICUT RIVER RAILROAD), BETWEEN PLAINFIELD STREET AND BIRNIE AVENUE, INCLUDES CONSTRUCTION OF NEW BRIDGE S-24-044	2	CMAQ	\$4,492,800	\$3,594,240	\$898,560
	STATEW	IDE CMAQ Subtotal ►			\$ 4,492,800	\$3,594,240	\$898,560
	► STAT	EWIDE HSIP Program					
	607736	CHICOPEE- SIGNAL & INT. IMPROVEMENTS AT 11 INTERSECTIONS ALONG ROUTE 33 (MEMORIAL DRIVE), FROM FULLER ROAD TO BRITTON STREET	2	HSIP	\$3,968,619	\$3,571,757	\$396,862
		IDE HSIP Program Subtotal ►			\$3,968,619	\$3,571,757	\$396,862
		WIDE National Highway					
		Preservation Program		AULIDD	#4.040.000	#4.557.504	#000 070
	607474	GRANBY- SOUTH HADLEY- RESURFACING & RELATED WORK ON ROUTE 202, FROM LYMAN STREET SOUTH HADLEY TO PLEASANT STREET GRANBY	2	NHPP	\$1,946,880	\$1,557,504	\$389,376
	STATEW	IDE NHS Preservation Program S	ubtotal ▶		\$1,946,880	\$1,557,504	\$ 389,376

Air Quality	2010		EWIDE Congestion Mitigation and					
RIVERWALK & BIKEWAY CONSTRUCTION, FROM BOAT RAMP NEAR 1-90 TO NASH FIELD (2.5 MILES), INCLUDES NEW BRIDGE C-13-060 OVER OVERFLOW CHANNEL	2019							
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 CONSTRUCTION AT INTERSECTION ROUNDABOUT CONSTRUCTION AT INTERSECTION ROUNDABOUT CONSTRUCTION ROUNDABOUT CONSTRUCTION ROUNDABOUT CONSTRUCTION ROUNDABOUT STATEWIDE CMAQ Subtotal STATEWIDE Infrastructure Program CONSTRUCTION ROUNDABOUT CONSTRUCTION ROUNDABOUT CONSTRUCTION ROUNDABOUT CONSTRUCTION ROUNDABOUT STATEWIDE CMAQ Subtotal STATEWIDE Infrastructure Program STATEWIDE Infrastructure Program STATEWIDE Infrastructure Program SUBTOTAL SUBTOT		602911	RIVERWALK & BIKEWAY CONSTRUCTION, FROM BOAT RAMP NEAR I-90 TO NASH FIELD (2.5 MILES), INCLUDES NEW BRIDGE C-13-060 OVER	2	CMAQ	\$4,052,959	\$3,242,367	\$810,592
CONSTRUCTION AT INTERSECTION ROUTES 5/10 (NORTH KING STREET) &			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					
▶ STATEWIDE Infrastructure Program 2 STP \$2,991,497 \$2,393,198 \$598,299 608600 Chicopee - West Springfield-Highway Lighting Upgrade on I-91 2 STP \$2,991,497 \$2,393,198 \$598,299 STATEWIDE Infrastructure Program Subtotal ► \$2,991,497 \$2,393,198 \$598,299 ▶ STATEWIDE Interstate Maintenance Program Subtotal ENAME \$2,991,497 \$2,393,198 \$598,299 ● STATEWIDE Interstate Maintenance Program Subtotal Program \$9,927,072 \$8,934,364 \$992,707 STATEWIDE Interstate Maintenance Program Subtotal Program \$9,927,072 \$8,934,364 \$992,707 STATEWIDE National Highway System Preservation Program \$9,927,072 \$8,934,364 \$992,707 BELCHERTOWN- GRANBY-RESURFACING AND RELATED WORK ON ROUTE 202 NHPP \$4,850,591 \$3,880,473 \$970,118 STATEWIDE NHS Preservation Program Subtotal Program Subtotal \$4,850,591 \$3,880,473 \$970,118 STATEWIDE Stormwater Retrofits STATEWIDE STATE MAINTENANCE & RELATED WORK ON I-391 \$1,281,255 \$1,025,004 \$256,251		606555	CONSTRUCTION AT INTERSECTION ROUTES 5/10 (NORTH KING STREET) &	2	CMAQ	\$2,985,469	\$2,388,375	\$597,094
Chicopee - West Springfield-Highway Lighting Upgrade on I-91 2 STP \$2,991,497 \$2,393,198 \$598,299			STATEWIDE CMAQ Subtotal ▶		\$13,822,589	\$11,058,071	\$2,764,518	
Highway Lighting Upgrade on I-91		► STAT	EWIDE Infrastructure Program					
▶STATEWIDE Interstate Maintenance Program \$9,927,072 \$8,934,364 \$992,707 607560 CHICOPEE- HOLYOKE-INTERSTATE MAINTENANCE & RELATED WORK ON I-391 2 NHPP \$9,927,072 \$8,934,364 \$992,707 STATEWIDE Interstate Maintenance Program Subtotal ▶ \$9,927,072 \$8,934,364 \$992,707 ▶ STATEWIDE National Highway System Preservation Program 2 NHPP \$4,850,591 \$3,880,473 \$970,118 608466 BELCHERTOWN- GRANBY-RESURFACING AND RELATED WORK ON ROUTE 202 2 NHPP \$4,850,591 \$3,880,473 \$970,118 ▶ STATEWIDE NHS Preservation Program Subtotal ▶ \$4,850,591 \$3,880,473 \$970,118 ▶ STATEWIDE Stormwater Retrofits 2 STP-INTERSTATE MAINTENANCE & RELATED WORK ON I-391 2 STP-INTERSTATE MAINTENANCE & RELATED WORK ON I-391 \$1,025,004 \$256,251		608600		2	STP	\$2,991,497	\$2,393,198	\$598,299
Program CHICOPEE- HOLYOKE- INTERSTATE MAINTENANCE & RELATED WORK ON I-391 \$9,927,072 \$8,934,364 \$992,707 STATEWIDE Interstate Maintenance Program Subtotal ► \$9,927,072 \$8,934,364 \$992,707 STATEWIDE National Highway System Preservation Program Program \$9,927,072 \$8,934,364 \$992,707 BELCHERTOWN- GRANBY- RESURFACING AND RELATED WORK ON ROUTE 202 STATEWIDE NHS Preservation Program Subtotal ► \$4,850,591 \$3,880,473 \$970,118 STATEWIDE Stormwater Retrofits 607560 CHICOPEE- HOLYOKE- INTERSTATE MAINTENANCE & RELATED WORK ON I-391 \$1,281,255 \$1,025,004 \$256,251		S	STATEWIDE Infrastructure Program Sub	-	\$2,991,497	\$2,393,198	\$598,299	
607560								
Subtotal Subtotal Subtotal STATEWIDE National Highway System Preservation Program Subtotal Subt			CHICOPEE- HOLYOKE- INTERSTATE MAINTENANCE &	2	NHPP	\$9,927,072	\$8,934,364	\$992,707
Program 608466 BELCHERTOWN- GRANBY- RESURFACING AND RELATED WORK ON ROUTE 202 2 NHPP \$4,850,591 \$3,880,473 \$970,118 STATEWIDE NHS Preservation Program Subtotal ► \$4,850,591 \$3,880,473 \$970,118 ► STATEWIDE Stormwater Retrofits 607560 CHICOPEE- HOLYOKE- INTERSTATE MAINTENANCE & RELATED WORK ON I-391 2 STP- TE \$1,281,255 \$1,025,004 \$256,251			Subtotal ►		\$9,927,072	\$8,934,364	\$992,707	
608466 BELCHERTOWN- GRANBY- RESURFACING AND RELATED WORK ON ROUTE 202 STATEWIDE NHS Preservation Program Subtotal ► \$4,850,591 \$3,880,473 \$970,118 ► STATEWIDE Stormwater Retrofits 607560 CHICOPEE- HOLYOKE- INTERSTATE MAINTENANCE & RELATED WORK ON I-391 RESURFACING AND RELATED \$4,850,591 \$3,880,473 \$970,118 \$570,118				erval	ion			
▶STATEWIDE Stormwater Retrofits 2 STP- \$ 1,281,255 \$ 1,025,004 \$ 256,251 607560 CHICOPEE- HOLYOKE- 2 STP- \$ 1,281,255 \$ 1,025,004 \$ 256,251 INTERSTATE MAINTENANCE & RELATED WORK ON I-391 TE TE TE TE		608466	BELCHERTOWN- GRANBY- RESURFACING AND RELATED WORK ON ROUTE 202			\$4,850,591	\$3,880,473	\$970,118
607560 CHICOPEE- HOLYOKE- 2 STP- \$ 1,281,255 \$1,025,004 \$256,251 TE RELATED WORK ON I-391				\$4,850,591	\$3,880,473	\$970,118		
INTERSTATE MAINTENANCE & TE RELATED WORK ON I-391		►STATI						
		607560	INTERSTATE MAINTENANCE &	2		\$ 1,281,255	\$1,025,004	\$256,251
				otal >	•	\$1,281,255	\$1,025,004	\$256,251

2020	► STAT	EWIDE Congestion Mitigation and Air Qu	ality	,			
	602912	CHICOPEE- CHICOPEE RIVER RIVERWALK MULTI-USE PATH CONSTRUCTION, FROM GRAPE STREET TO FRONT STREET (NEAR ELLERTON STREET) (1 MILE)	2	CMAQ	\$2,273,911	\$1,819,129	\$454,782
	606450	HOLYOKE- TRAFFIC SIGNAL UPGRADES AT 15 INTERSECTIONS ALONG HIGH & MAPLE STREETS	2	CMAQ	\$ 3,970,042	\$3,176,033	\$794,008
		STATEWIDE CMAQ Subtotal ▶			\$6,243,953	\$4,995,162	\$1,248,791
	► STAT	EWIDE HSIP Program					
	608575	CHICOPEE TO HOLYOKE - GUIDE AND TRAFFIC SIGN REPLACEMENT ON I-391	2	HSIP	\$562,979	\$ 506,681	\$56,298
		STATEWIDE HSIP Program Subtotal >	-	•	\$562,979	\$506,681	\$ 56,298
	► STATI Program	EWIDE National Highway System Preserv					
	608473	SOUTH HADLEY- RESURFACING AND RELATED WORK ON ROUTE 116	2	NHPP	\$2,619,187	\$2,095,350	\$523,837
	S	TATEWIDE NHS Preservation Program Sub	total	>	\$2,619,187	\$2,095,350	\$523,837
2021	► STAT	STATEWIDE Congestion Mitigation and Air Quality		,			
	608157	SPRINGFIELD- MCKNIGHT COMMUNITY TRAIL CONSTRUCTION, FROM ARMORY STREET TO HAYDEN AVENUE (1.5 MILES)	2	CMAQ	\$3,968,300	\$ 3,174,640	\$ 793,660
		STATEWIDE CMAQ Subtotal ▶			\$3,968,300	\$3,174,640	\$793,660

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 2014-2015 TIP projects are identified in table 22.

Project Implementation _______97

Table 22 Project Implementation

	grammed Status 4,200,000 Construction
2015 SPRINGFIELD- NORTH END & BRIGHTWOOD INFRASTRUCTURE 605222 STP \$ 6	5,172,363 Construction
IMPROVEMENTS, FROM OSGOOD STREET TO THE CHICOPEE	
CITY LINE (NORTHERLY SEGMENT)	
	1,500,000 Construction
ADJACENT TO C-21-023 OVER WESTFIELD BROOK	
2015 HADLEY- SIDEWALK & WHEELCHAIR RAMP CONSTRUCTION ON 608023 STP \$ 1	1,300,000 Awarded, Notice to
ROUTE 9	Proceed expected
2015 HADLEY- SIGNAL & INTERSECTION IMPROVEMENTS AT ROUTE 9 604035 HSIP \$ 3	3,038,060 Construction
(RUSSELL STREET) & ROUTE 47 (MIDDLE STREET)	
2015 SPRINGFIELD - UNION STATION REDEVELOPMENT CMAQ \$	315,970 Construction
2015 DISTRICT 2- SYSTEMATIC BRIDGE MAINTENANCE AT VARIOUS 607515 BR-SP \$ 1	1,849,536 Construction
LOCATIONS	
2015 DISTRICT 2- SYSTEMATIC BRIDGE MAINTENANCE AT VARIOUS 607468 BR-SP \$ 2	2,771,540 Construction
LOCATIONS	
2015 SPRINGFIELD- VIADUCT DECK REPLACEMENT OF S-24-061 ON I- 607731 NHPP \$ 136	6,506,250 Construction
91 (EARLY ACTION)	
2015 NORTHAMPTON- INTERSECTION IMPROVEMENTS AT ROUTE 5 605066 Statewide CMAQ \$ 2	2,106,590 Construction
(PLEASANT STREET) AND CONZ STREET - Roundabout	
2015 BERNARDSTON - WEST SPRINGFIELD - TRAFFIC SIGN 605833 A/C \$-	4,064,580 Construction
REPLACEMENT ON INTERSTATE 91	
	grammed Status
LONGMEADOW- RESURFACING & RELATED WORK ON 606445	
CONVERSE STREET, FROM LAUREL STREET TO DWIGHT	
2016 STREET (2.04 MILES) STP \$2,7	742,048 Not Advertised
WESTFIELD- RECONSTRUCTION OF ROUTE 187 (LITTLE RIVER 604446	
	206,561 Advertised
WILBRAHAM- RECONSTRUCTION OF BOSTON ROAD (ROUTE 20) 607869	
FROM DUDLEY STREET TO 400FT. EAST OF DUMAINE STREET	
	292,428 Not Advertised
BRIMFIELD- STURBRIDGE- RESURFACING & RELATED WORK ON 608022	
ROUTE 20, BEGINNING EAST OF NEW HOLLAND ROAD (MM 87.8),	
	500,000 Advertised
SPRINGFIELD- SIGNAL & INTERSECTION IMPROVEMENTS @ 605385	
ROOSEVELT AVENUE & ISLAND POND ROAD, ROOSEVELT	
	Not Advertised
604968	
WESTFIELD- COLUMBIA GREENWAY RAIL TRAIL CONSTRUCTION,	
NORTH SECTION - FROM COWLES COURT ACCESS RAMPS TO	
THE WESTFIELD RIVER BRIDGE INCLUDES REHAB OF W-25-036	
	004,516 Not Advertised
	50,873 Under Construction
SOUTH HADLEY- SIGNAL & INTERSECTION IMPROVEMENTS AT	
	50,000 Not Advertised
SOUTHAMPTON - SAFE ROUTES TO SCHOOL - NORRIS	
	32,000 Not Advertised
SOUTHWICK- INTERSECTION IMPROVEMENTS AT FOUR	
	551,223 Not Advertised
WEST SPRINGFIELD - ADAPTIVE SIGNAL CONTROL ON ROUTE 5	
[2016](RIVERDALE STREET) [608280] SW HSIP \$54	40,981 Not Advertised
	040 706 Mot Advanticed
	1,840,736 Not Advertised
WEST SPRINGFIELD- CONNECTICUT RIVERWALK & BIKEWAY 603730 SW-STP \$ 1 EXTENSION, FROM ELM STREET TO DOTY CIRCLE, INCLUDES 2016 PEDESTRIAN BRIDGE W-21-020	1,040,730 INOT Advertised

Transit Project Implementation

FTA Program	Transit Agency	Line	Project Number	Project Description	Project Status	Total Cost
5307	Pioneer Valley Transit Authority	114220	RTD0003453	Communications Sys, Including ITS (Match for FY15)	100% Complete	\$1,581,736
5339	Pioneer Valley Transit Authority	114220	RTD0004245	Communications Sys, Including ITS (Match for FY15)	100% Complete	\$15,069
Other Non-Federal	Pioneer Valley Transit Authority	111215	RTD0003449	Purchase - Replacement: Vans (30)	100% Complete	\$2,873,700
Other Non-Federal	Pioneer Valley Transit Authority	114206	RTD0003450	Rehab/Renovation: Shop Equipment (Match for FY15)	100% Complete	\$10,000
Other Non-Federal	Pioneer Valley Transit Authority	119302	RTD0003451	Transit Enmts: Shelters, etc. (Match for FY15)	100% Complete	\$30,000
Other Non-Federal	Pioneer Valley Transit Authority	119308	RTD0003452	Transit Enmts: Signs/Lighting (Match for FY15)	50% Complete	\$20,000
Other Non-Federal	Pioneer Valley Transit Authority	117A00	RTD0003456	Preventive Maintenance (Match for FY15)	100% Complete	\$425,895
Other Non-Federal	Pioneer Valley Transit Authority	117C00	RTD0003457	NON FIXED ROUTE ADA PARA SERV - (Match for FY15)	100% Complete	\$298,853
Other Non-Federal	Pioneer Valley Transit Authority	114211	RTD0003497	ACQUIRE - SUPPORT VEHICLES, (1) (Match for FY15)	100% Complete	\$20,000
Other Non-Federal	Pioneer Valley Transit Authority	114402	RTD0003500	Environmental Compliance (Match for FY15)	100% Complete	\$20,000
Other Non-Federal	Pioneer Valley Transit Authority	114303	RTD0003808	CONSTRUCT - Springfield O& M FACILITY	100% Complete	\$3,150,000
Other Non-Federal	Pioneer Valley Transit Authority	111301	RTD0003991	BUY 40-FT BUS FOR EXPANSION (4) - Match for FY 15	100% Complete	\$395,640
Other Non-Federal	Pioneer Valley Transit Authority	111201	RTD0003992	BUY REPLACEMENT 40-FT BUS (6) Match for FY 15	100% Complete	\$593,460
Other Non-Federal	Pioneer Valley Transit Authority	111202	RTD0003993	BUY REPLACEMENT 35-FT BUS (5) - Match for FY15	100% Complete	\$489,549
Other Non-Federal	Pioneer Valley Transit Authority	442301	RTD0003455	Planning (Match for FY15)	100% Complete	\$54,000
Other Non-Federal	Pioneer Valley Transit Authority	111301	RTD0003495	BUY 40-FT BUS FOR EXPANSION (2) (Match for FY15)	100% Complete	\$203,195
Other Non-Federal	Pioneer Valley Transit Authority	111216	RTD0003498	BUY REPL SEDAN/STA WGN (3) (Match for FY15)	100% Complete	\$16,800
Other Non-Federal	Pioneer Valley Transit Authority	113303	RTD0003809	TERMINAL, INTERMODAL (TRANSIT) - WESTFIELD	100% Complete	\$154,063
Other Non-Federal	Pioneer Valley Transit Authority	114402	RTD0003806	REHAB/RENOVATE - SATCO MAINTENANCE FACILITY	100% Complete	\$175,000
Other Non-Federal	Pioneer Valley Transit Authority	114402	RTD0003499	Rehab/Renovations: Northampton (Match for FY15)	100% Complete	\$5,000
Other Non-Federal	Pioneer Valley Transit Authority	111301	RTD0004209	BUY 40-FT BUS FOR EXPANSION (2) (Match for FY15)	100% Complete	\$196,805
Other Non-Federal	Pioneer Valley Transit Authority	111302	RTD0004341	RTD0004341 BUY 40-FT Electric Bus EXPANSION (1)	100% Complete	\$1,673,912

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 2017-2021 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 2017-2021 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.

Ozone

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.

Air Quality Conformity _______ 101

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 ground-level ozone. The 1990 CAAA further classified degrees of nonattainment of the one-hour standard based on the severity of the monitored levels of the pollutant. The entire commonwealth of Massachusetts was classified as being in serious nonattainment for the one-hour ozone standard, with a required attainment date of 1999. The attainment date was later extended, first to 2003 and a second time to 2007.

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

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

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

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

Also on May 21, 2012, the air quality designations areas for the 2008 NAAQS were published in the Federal Register. In this Federal Register, the only area in Massachusetts that was designated as nonattainment is Dukes County. All other Massachusetts counties were 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 2017 – 2019 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.

Air Quality Conformity _______ 103

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 processes enable the MPOs to identify the anticipated GHG impacts of the planned and programmed 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 2017-19 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 2017 – 2019 TIP

The following table (table 23) summarize the calculated quantitative and assumed qualitative impacts of the projects included in the regional FFY 2017 - 2019 TIP.

Air Quality Conformity _______ 105

Table 23 Greenhouse Gas Summary Tables FFY 2017-2019

MassDOT	MassDOT Project Description ▼	GHG	GHG CO2	GHG Impact
Project ID		Analysis Type	Impact	Description ▼
▼		▼	(kg/yr)▼	
605011	LUDLOW- RECONSTRUCTION OF CENTER STREET (ROUTE 21), FROM 35' WEST OF BEACHSIDE	Quantified	145,846	Quantified Decrease in Emissions from Complete Streets
	DRIVE WESTERLY TO GAS LINE BESIDE MTA OVERPASS (3,500 FEET)			Project
PV001	PIONEER VALLEY REGIONAL BICYCLE SHARE (PHASE 1)	Quantified	6,335	Quantified Decrease in Emissions from Bicycle and
				Pedestrian Infrastructure
606903	HOLYOKE- IMPROVEMENTS TO LOWER WESTFIELD ROAD ON I-91 (INTERCHANGE 15)	Qualitative		Qualitative Decrease in Emissions
608023	AMHERST- HADLEY- SIDEWALK & WHEELCHAIR RAMP CONSTRUCTION ON ROUTE 9	Qualitative		No assumed impact/negligible impact on emissions
605011	LUDLOW- RECONSTRUCTION OF CENTER STREET (ROUTE 21), FROM 35' WEST OF BEACHSIDE			
	DRIVE WESTERLY TO GAS LINE BESIDE MTA OVERPASS (3,500 FEET)			
608023	AMHERST- HADLEY- SIDEWALK & WHEELCHAIR RAMP CONSTRUCTION ON ROUTE 9			
	SOUTHWICK- RECONSTRUCTION CONGAMOND ROAD (ROUTE 168), FROM COLLEGE	Quantified	289	Quantified Decrease in Emissions from Complete Streets
	HIGHWAY & ENDS 250 FEET SHORT OF STATE LINE (1.2 MILES)			Project
	GOSHEN- RESURFACING AND RELATED WORK ON ROUTE 9, FROM CUMMINGTON T.L. TO	Quantified	97	Quantified Decrease in Emissions from Complete Streets
	ROUTE 112 (CAPE STREET)			Project
	LUDLOW- RECONSTRUCTION OF CENTER STREET (ROUTE 21), FROM 35' WEST OF BEACHSIDE			
	DRIVE WESTERLY TO GAS LINE BESIDE MTA OVERPASS (3,500 FEET)			
	AGAWAM- WEST SPRINGFIELD- BRIDGE REPLACEMENT, A-05-002=W-21-014, ROUTE 147	Qualitative		No assumed impact/negligible impact on emissions
	OVER THE WESTFIELD RIVER & INTERSECTION & SIGNAL IMPROVEMENTS @ 3 LOCATIONS			
607528	AMHERST- BRIDGE REPLACEMENT, A-08-008, MILL STREET OVER MILL RIVER	Qualitative		No assumed impact/negligible impact on emissions
607549	CHESTERFIELD- BRIDGE REPLACEMENT, C-12-009, IRELAND STREET OVER WEST BRANCH	Qualitative		No assumed impact/negligible impact on emissions
	BRONSON BROOK			
607731	SPRINGFIELD- VIADUCT DECK REPLACEMENT OF S-24-061 ON I-91 (EARLY ACTION)	Qualitative		No assumed impact/negligible impact on emissions
608211	CHICOPEE- SPRINGFIELD- INTERSTATE MAINTENANCE & RELATED WORK ON I-291	Qualitative		Qualitative Decrease in Emissions
608192	AGAWAM- CHICOPEE- HOLYOKE- WEST SPRINGFIELD- STORMWATER IMPROVEMENTS	Qualitative		No assumed impact/negligible impact on emissions
	ALONG I-91, I-391, ROUTE 57 AND ROUTE 5			
	2017 Quan	tified Impact >	152,567	

Table 23 Greenhouse Gas Summary Tables FFY 2017-2019 (Continued)

MassDOT	MassDOT Project Description ▼	GHG	GHG CO2	GHG Impact
		Analysis Type	Impact	Description ▼
		▼	(kg/yr)▼	
604203	AGAWAM- INTERSECTION IMPROVEMENTS AT ROUTE 187 & ROUTE 57	Qualitative		Qualitative Decrease in Emissions
604597	NORTHAMPTON- IMPROVEMENTS ON I-91 INTERCHANGE 19 AT ROUTE 9 AND DAMON	Quantified	17,566	Quantified Decrease in Emissions from Traffic Operationa
	ROAD			Improvement
604597	NORTHAMPTON- IMPROVEMENTS ON I-91 INTERCHANGE 19 AT ROUTE 9 AND DAMON			
	ROAD			
603449	WESTFIELD- ROUTE 20 ACCESS IMPROVEMENTS ON COURT STREET & WESTERN AVENUE,	Quantified	3,224	Quantified Decrease in Emissions from Complete Streets
	FROM LLEWELLYN DRIVE EASTERLY TO LLOYDS HILL ROAD (PHASE I)			Project
604738	SOUTHAMPTON- RECONSTRUCTION OF GLENDALE ROAD (PHASE II) FROM COLLEGE	Quantified	1,462	Quantified Decrease in Emissions from Complete Streets
	HIGHWAY (RT 10) NORTHWESTERLY TO POMEROY MEADOW RD (3,801 FEET)			Project
604597	NORTHAMPTON- IMPROVEMENTS ON I-91 INTERCHANGE 19 AT ROUTE 9 AND DAMON			
	ROAD			
608236	NORTHAMPTON- RECONSTRUCTION OF DAMON ROAD, FROM ROUTE 9 TO ROUTE 5,	Quantified	1,983	Quantified Decrease in Emissions from Complete Streets
	INCLUDES DRAINAGE SYSTEM REPAIRS & SLOPE STABILIZATION AT THE NORWOTTUCK RAIL			Project
	TRAIL			
604203	AGAWAM- INTERSECTION IMPROVEMENTS AT ROUTE 187 & ROUTE 57			
608253	PALMER- RESURFACING AND RELATED WORK ON ROUTE 67, FROM 0.3 MILES EAST OF	Qualitative		No assumed impact/negligible impact on emissions
	ROUTE 20 TO THE WARREN T.L. (5 MILES)			
607939	CUMMINGTON- BRIDGE MAINTENANCE, C-21-025, ROUTE 9 OVER THE WESTFIELD RIVER	Qualitative		No assumed impact/negligible impact on emissions
600936	HOLYOKE- BRIDGE REPLACEMENT, H-21-018, LYMAN STREET OVER FIRST LEVEL CANAL	Qualitative		No assumed impact/negligible impact on emissions
603449	WESTFIELD- ROUTE 20 ACCESS IMPROVEMENTS ON COURT STREET & WESTERN AVENUE,			N/A
	FROM LLEWELLYN DRIVE EASTERLY TO LLOYDS HILL ROAD (PHASE I)			
607589	SPRINGFIELD- NORTH END PEDESTRIAN PATH CONSTRUCTION (UNDER THE CONNECTICUT	Qualitative		No assumed impact/negligible impact on emissions
	RIVER RAILROAD), BETWEEN PLAINFIELD STREET AND BIRNIE AVENUE, INCLUDES			
	CONSTRUCTION OF NEW BRIDGE S-24-044			
607736	CHICOPEE- SIGNAL & INTERSECTION IMPROVEMENTS AT 11 INTERSECTIONS ALONG ROUTE	Qualitative		Qualitative Decrease in Emissions
	33 (MEMORIAL DRIVE), FROM FULLER ROAD TO BRITTON STREET			
607474	GRANBY- SOUTH HADLEY- RESURFACING & RELATED WORK ON ROUTE 202, FROM LYMAN	Qualitative		Qualitative Decrease in Emissions
	STREET SOUTH HADLEY TO PLEASANT STREET GRANBY (2 MILES)			
	2018 Quar	ntified Impact	24,235	

Table 23 Greenhouse Gas Summary Tables FFY 2017-2019 (Continued)

	MassDOT Project Description ▼	GHG	GHG CO2	GHG Impact
Project ID		Analysis Type	Impact	Description ▼
▼		▼	(kg/yr)▼	
606156	HOLYOKE- RECONSTRUCTION OF I-91 INTERCHANGE 17 & ROUTE 141	Qualitative		Qualitative Decrease in Emissions
606156	HOLYOKE- RECONSTRUCTION OF I-91 INTERCHANGE 17 & ROUTE 141			
607987	WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET,	Qualitative		Qualitative Decrease in Emissions
	SOUTH STREET & CHURCH STREET			
607987	WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET,			
	SOUTH STREET & CHURCH STREET			
600513	AGAWAM- RECONSTRUCTION OF ROUTE 187 FROM 425 FT. SOUTH OF S. WESTFIELD STREET	Qualitative		Qualitative Decrease in Emissions
	TO ROUTE 57 (0.3 MILES - PHASE I)			
607987	WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET,			
	SOUTH STREET & CHURCH STREET			
607773	WESTFIELD- IMPROVEMENTS & RELATED WORK ON ROUTE 20, COURT STEET & WESTERN	Quantified	1,290	Quantified Decrease in Emissions from Complete Streets
	AVENUE, LLOYDS HILL ROAD TO HIGH STREET/MILL STREET INTERSECTION (PHASE II)			Project
604209	HOLYOKE- WEST SPRINGFIELD- REHABILITATION OF ROUTE 5 (RIVERDALE ROAD), FROM I-91	Qualitative		Qualitative Decrease in Emissions
	(INTERCHANGE 13) TO MAIN STREET IN HOLYOKE & FROM ELM STREET TO NORTH ELM			
	STREET IN WEST SPRINGFIELD (3.2 MILES)			
607256	HOLYOKE- RESURFACING & RELATED WORK ON HERITAGE STREET, FRONT STREET & DWIGHT	Quantified	3,227	Quantified Decrease in Emissions from Complete Streets
	STREET FROM MAPLE ST TO THE 1ST LEVEL CANAL (.54 MILES)			Project
608084	AMHERST- IMPROVEMENTS & RELATED WORK ON ROUTES 9 & 116, FROM UNIVERSITY	Quantified	3,963	Quantified Decrease in Emissions from Complete Streets
	DRIVE TO SOUTH PLEASANT STREET (0.8 MILES)			Project
606156	HOLYOKE- RECONSTRUCTION OF I-91 INTERCHANGE 17 & ROUTE 141	Quantified	3,963	Quantified Decrease in Emissions from Complete Streets Project
608258	HUNTINGTON, BRIDGE PRESERVATION, BRIDGE NO. H-27-007	Qualitative		No assumed impact/negligible impact on emissions
606552	NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I-	Qualitative		No assumed impact/negligible impact on emissions
	91 OVER HOCKANUM ROAD			
608249	MIDDLEFIELD- BRIDGE REPLACEMENT, M-19-010, CHESTER ROAD OVER SMART BROOK	Qualitative		No assumed impact/negligible impact on emissions
602911	CHICOPEE- CONNECTICUT RIVERWALK & BIKEWAY CONSTRUCTION, FROM BOAT RAMP NEAR	Qualitative		Qualitative Decrease in Emissions
	I-90 TO NASH FIELD (2.5 MILES), INCLUDES NEW BRIDGE C-13-060 OVER OVERFLOW			
	CHANNEL			
603783	WESTFIELD- COLUMBIA GREENWAY RAIL TRAIL CONSTRUCTION (CENTER DOWNTOWN	Qualitative		Qualitative Decrease in Emissions
	SECTION), FROM EAST SILVER STREET TO COWLES COURT, INCLUDES W-25,014, W-25-015, W	1		
	25-016, W-25-017, W-25-018 & W-25-019			

Air Quality Conformity _______109

Table 23 Greenhouse Gas Summary Tables FFY 2017-2019 (Continued)

TUDIO EO	Sieenhouse Gas Summary Tables FFT 2017-2019 (Continued)			
l .	NORTHAMPTON- ROUNDABOUT CONSTRUCTION AT INTERSECTION ROUTES 5/10 (NORTH	Qualitative		Qualitative Decrease in Emissions
	KING STREET) & HATFIELD STREET			
608600	Chicopee - West Springfield- Highway Lighting Upgrade on I-91	Qualitative		No assumed impact/negligible impact on emissions
607560	CHICOPEE- HOLYOKE- INTERSTATE MAINTENANCE & RELATED WORK ON I-391	Qualitative		Qualitative Decrease in Emissions
608466	BELCHERTOWN- GRANBY- RESURFACING AND RELATED WORK ON ROUTE 202	Qualitative		No assumed impact/negligible impact on emissions
607560	CHICOPEE- HOLYOKE- INTERSTATE MAINTENANCE & RELATED WORK ON I-391	Qualitative		Qualitative Decrease in Emissions
	2019 Quan	tified Impact >	12,443	
MassDOT	MassDOT Project Description ▼	GHG	GHG CO2	GHG Impact
Project ID		Analysis Type	Impact	Description ▼
▼		▼	(kg/yr)▼	
606895	GRANBY- IMPROVEMENTS @ 2 LOCATIONS ON ROUTE 202: SCHOOL STREET & FIVE CORNERS	Qualitative		Qualitative Decrease in Emissions
605032	HADLEY- RECONSTRUCTION ON ROUTE 9, FROM EAST STREET TO MAPLE/SOUTH MAPLE ST	Qualitative		Qualitative Decrease in Emissions
607626	AGAWAM- RESURFACING & RELATED WORK ON ROUTE 159, FROM MEADOW STREET TO 150	Quantified	1,086	Quantified Decrease in Emissions from Complete Streets
l .	FT. SOUTH OF SUFFIELD STREET (1.1 MILES)		•	Project
608460	HADLEY - BRIDGE REPLACEMENT, H01005, ROUTE 47 (BAY ROAD) OVER FORT RIVER	Qualitative		No assumed impact/negligible impact on emissions
400103	WESTFIELD- BRIDGE REPLACEMENT, W-25-006, ROUTE 10/202 (SOUTHWICK ROAD) OVER	Qualitative		No assumed impact/negligible impact on emissions
	THE LITTLE RIVER			
608631	WESTHAMPTON - BRIDGE REPLACEMENT, W-27-005, KINGS HIGHWAY OVER N BRANCH	Qualitative		No assumed impact/negligible impact on emissions
	MANAHN RIVER			
602912	CHICOPEE- CHICOPEE RIVER RIVERWALK MULTI-USE PATH CONSTRUCTION, FROM GRAPE	Quantified	3,248	Quantified Decrease in Emissions from Bicycle and
	STREET TO FRONT STREET (NEAR ELLERTON STREET) (1 MILE)			Pedestrian Infrastructure
606450	HOLYOKE- TRAFFIC SIGNAL UPGRADES AT 15 INTERSECTIONS ALONG HIGH & MAPLE STREETS	Quantified	606,450	Quantified Decrease in Emissions from Traffic Operational
				Improvement
608575	CHICOPEE TO HOLYOKE - GUIDE AND TRAFFIC SIGN REPLACEMENT ON I-391	Qualitative		Qualitative Decrease in Emissions
608473	SOUTH HADLEY- RESURFACING AND RELATED WORK ON ROUTE 116	Qualitative		Qualitative Decrease in Emissions
	2020 Quan	tified Impact >	607,536	

Table 23 Greenhouse Gas Summary Tables FFY 2017-2019 (Continued)

MassDOT	MassDOT Project Description ▼	GHG	GHG CO2	GHG Impact
Project ID		Analysis Type	Impact	Description ▼
▼		▼	(kg/yr)▼	
607893	NORTHAMPTON- INTERSECTION IMPROVEMENTS @ ELM STREET, MAIN STREET, WEST	Qualitative		Qualitative Decrease in Emissions
	STREET, STATE STREET & NEW SOUTH STREET			
607502	NORTHAMPTON- INTERSECTION IMPROVEMENTS AT KING STREET, NORTH STREET &	Qualitative		Qualitative Decrease in Emissions
	SUMMER STREET AND AT KING STREET & FINN STREET			
604434	CHICOPEE- RECONSTRUCTION & RELATED WORK ON FULLER ROAD, FROM MEMORIAL DR	Qualitative		Qualitative Decrease in Emissions
	(RTE 33) TO SHAWINIGAN DR (2.0 MILES)			
607430	LONGMEADOW- RESURFACING & RELATED WORK ON LONGMEADOW STREET (ROUTE 5),	Quantified	9,745	Quantified Decrease in Emissions from Complete Streets
	FROM THE CT S.L. TO CONVERSE STREET (2.88 MILES)			Project
608157	SPRINGFIELD- MCKNIGHT COMMUNITY TRAIL CONSTRUCTION, FROM ARMORY STREET TO	Quantified	13,099	Quantified Decrease in Emissions from Bicycle and
	HAYDEN AVENUE (1.5 MILES)			Pedestrian Infrastructure

2021 Quantified Impact ► 9,745

Total Impact 806,525

Air Quality Conformity ______111

APPENDICES

Appendices _______ 113

APPENDIX A: MassDOT Targets

Appendices ______ 115

FEDERAL FISCAL YEAR 2017 FFY 2017-2021 STIP FEDERAL REGIONAL TARGETS

Statewide Infrastructure Items:		Obligation Authority	Obl. Auth. Matching State Funds	Total Funding Based On Obl. Auth.
Total Estimated Obligation Authority Available: \$51,000,000 \$15,00	Base Obligation Authority	\$585,525,568		
ABP GANS Repayment	Redistribution, as Estimated by MassDOT	\$29,474,432		
Total Non-Earmarked Available Statewide - (Including State Match) \$655,850,000 \$125,591,156 \$681,44	Total Estimated Obligation Authority Available:	\$615,000,000		
Statewide Infrastructure Items: Statewide Infrastructure Program \$12,000,000 \$3,000,000 \$15,000	ABP GANS Repayment	\$59,150,000		
Statewide Infrastructure Program	Total Non-Earmarked Available Statewide - (Including State Match)	\$555,850,000	\$125,591,156	\$681,441,156
Statewide Safety Program	Statewide Infrastructure Items:			
Statewide Safe Routes to Schools Program	Statewide Infrastructure Program	\$12,000,000	\$3,000,000	\$15,000,000
Statewide CMAIQ Program	Statewide Safety Program	\$24,273,676	\$2,697,075	\$26,970,751
Statewide Intelligent Transportation System Program	Statewide Safe Routes to Schools Program	\$5,000,000	\$1,250,000	\$6,250,000
Statewide Interstate Maintenance Program \$83,000,000 \$7,000,000 \$70,00 \$70	Statewide CMAQ Program	\$12,000,000	\$3,000,000	\$15,000,000
Statewide National Freight Program \$0 \$0 \$0	Statewide Intelligent Transportation System Program	\$10,000,000	\$2,500,000	\$12,500,000
Statewide NHS Preservation Program	Statewide Interstate Maintenance Program	\$63,000,000	\$7,000,000	\$70,000,000
Statewide RR Grade Crossings \$7,111,110 \$1,777,778 \$8,8	Statewide National Freight Program	\$0	\$0	\$0
Statewide Stormwater Retrofits	Statewide NHS Preservation Program	\$36,000,000	\$9,000,000	\$45,000,000
Statewide ADA Implementation Plan	Statewide RR Grade Crossings	\$7,111,110	\$1,777,778	\$8,888,888
Subtotal Statewide Infrastructure Items: \$178,384,786 \$32,474,853 \$210,85				\$6,250,000
Other Statewide Items: Award Adjustments, Change Orders, Etc. \$25,621,324 \$0,405,331 \$32,00 Planning \$22,704,000 \$5,676,000 \$28,38 Recreational Trails \$1,186,729 \$296,682 \$1,40 DEEs, Misc Programs \$800,000 \$200,000 \$1,000 Design and Right of Way \$3,436,323 \$859,081 \$4,28 Subtotal Other Statewide Items: \$53,748,376 \$13,437,094 \$67,16 Regional Major Infrastructure Projects: \$7,200,000 \$1,800,000 \$9,00 Bridge Program: \$1,800,000 \$2,000,000 \$1,800,000 Statewide Off-System Bridge Program \$28,456,838 \$7,114,210 \$35,51 Statewide Off-System Bridge Program \$108,000,000 \$17,000,000 \$13,500 Statewide Dridge Inspection Program \$5,000,000 \$1,250,000 \$18,20 Statewide Bridge Inspection Program \$108,000,000 \$1,250,000 \$18,20 Statewide Bridge Inspection Program \$5,000,000 \$1,250,000 \$18,20 Statewide Bridge Inspection Program \$1,000,000 \$1,250,000	Statewide ADA Implementation Plan	\$4,000,000	\$1,000,000	\$5,000,000
Award Adjustments, Change Orders, Etc. \$25,621,324 \$6,405,331 \$32,07 Planning \$22,704,000 \$5,676,000 \$28,38 Recreational Trails \$1,186,729 \$296,882 \$11,48 DBEs, Misc Programs \$90,000 \$200,000 \$1,00 Design and Right of Way \$38,436,323 \$859,081 \$4,28 Subtotal Other Statewide Items: \$53,748,376 \$13,437,994 \$67,18 Regional Major Infrastructure Projects: \$7,200,000 \$1,800,000 \$9,00 Bridge Program: \$1,000,000 \$1,800,000 \$2,000,000 \$1,000,	Subtotal Statewide Infrastructure Items:	\$178,384,786	\$32,474,853	\$210,869,639
Planning	Other Statewide Items:			
Planning	Award Adjustments, Change Orders, Etc.	\$25.621.324	\$6,405,331	\$32,026,655
DBEs, Misc Programs \$800,000 \$20,000 \$1,00 Design and Right of Way \$3,486,323 \$859,081 \$4,28 Subtotal Other Statewide Items: \$53,748,376 \$13,437,094 \$67,116 Regional Major Infrastructure Projects: \$7,200,000 \$1,800,000 \$9,00 Bridge Program: Statewide Systematic Maintenance Program \$28,456,838 \$7,114,210 \$35,51 Statewide Onf-System Bridge Program \$108,000,000 \$27,000,000 \$13,500 Statewide On System Bridge Program \$100,000 \$27,000,000 \$135,000 Statewide Bridge Inspection Program \$5,000,000 \$125,000 \$16,660 Subtotal Federal Aid Bridge Program: \$149,456,838 \$37,364,210 \$186,660 Total Regional Targets: CMAQ - Congestion Mitigation and Air Quality Improvement Program \$25,000,000 \$6,250,000 \$31,224 CMAQ - Congestion Mitigation and Air Quality Improvement Program \$39,000,000 \$1,000,000 \$10,000 TAP - Transportation Alternatives Program \$5,884,000 \$1,471,000 \$7,35 Regional Non-CMAQ I HSBP Component: \$127,776,000				\$28,380,000
Design and Right of Way	Recreational Trails	\$1,186,729	\$296,682	\$1,483,411
Subtotal Other Statewide Items: \$83,748,376 \$13,437,094 \$67,165	DBEs, Misc Programs	\$800,000	\$200,000	\$1,000,000
Regional Major Infrastructure Projects: \$7,200,000 \$1,800,000 \$9,000		\$3,436,323	\$859,081	\$4,295,403
Statewide Systematic Maintenance Program \$8,000,000 \$2,000,000 \$10,000	Subtotal Other Statewide Items:	\$53,748,376	\$13,437,094	\$67,185,470
Statewide Systematic Maintenance Program \$8,000,000 \$2,000,000 \$10,0	Regional Major Infrastructure Projects:	\$7,200,000	\$1,800,000	\$9,000,000
Statewide Off-system Bridge Program \$28,458,838 \$7,114,210 \$35,51	Bridge Program:			
Statewide On System Bridge Program \$108,000,000 \$27,000,000 \$135,00 Statewide Bridge Inspection Program \$5,000,000 \$1,250,000 \$6,250 Subtotal Federal Aid Bridge Program: \$149,456,838 \$37,364,210 \$186,85 Statewide Bridge Program: \$149,456,838 \$37,364,210 \$186,85 Total Regional Targets:	Statewide Systematic Maintenance Program	\$8,000,000	\$2,000,000	\$10,000,000
Statewide Bridge Inspection Program \$5,000,000 \$1,250,000 \$6,250	Statewide Off-System Bridge Program	\$28,456,838	\$7,114,210	\$35,571,048
Subtotal Federal Aid Bridge Program: \$149,456,838 \$37,364,210 \$186,83 Total Regional Targets: CMAQ - Congestion Mitigation and Air Quality Improvement Program \$25,000,000 \$6,250,000 \$31,25 HSIP - Highway Safety Improvement Program \$9,000,000 \$1,000,000 \$10,00 \$10,00 TAP - Transportation Alternatives Program \$5,884,000 \$1,471,000 \$7,28 Regional Non-CMAQ / HSIP Component: \$127,176,000 \$31,794,000 \$158,97	Statewide On System Bridge Program	\$108,000,000	\$27,000,000	\$135,000,000
Total Regional Targets: CMAQ - Congestion Mitigation and Air Quality Improvement Program \$25,000,000 \$6,250,000 \$31,285 HSIP - Highway Safety Improvement Program \$9,000,000 \$1,000,000 \$10,000 TAP - Transportation Alternatives Program \$5,884,000 \$1,471,000 \$7,385 Regional Non-CMAQ / HSIP Component: \$127,176,000 \$31,794,000 \$158,975 Total Regional Targets:	Statewide Bridge Inspection Program	\$5,000,000	\$1,250,000	\$6,250,000
CMAQ - Congestion Mitigation and Air Quality Improvement Program \$25,000,000 \$6,250,000 \$31,25 HSIP - Highway Safety Improvement Program \$9,000,000 \$1,000,000 \$10,00 TAP - Transportation Alternatives Program \$5,884,000 \$1,471,000 \$7,35 Regional Non-CMAQ / HSIP Component: \$127,176,000 \$31,794,000 \$189,87	Subtotal Federal Aid Bridge Program:	\$149,456,838	\$37,364,210	\$186,821,048
CMAQ - Congestion Mitigation and Air Quality Improvement Program \$25,000,000 \$6,250,000 \$31,25 HSIP - Highway Safety Improvement Program \$9,000,000 \$1,000,000 \$10,00 TAP - Transportation Alternatives Program \$5,884,000 \$1,471,000 \$7,35 Regional Non-CMAQ / HSIP Component: \$127,176,000 \$31,794,000 \$189,87				
HSIP - Highway Safety Improvement Program \$9,000,000 \$1,000,000 \$10,00 \$10		\$35,000,000	\$6.050.000	£24 250 000
TAP - Transportation Alternatives Program \$5,884,000 \$1,471,000 \$7,35 Regional Non-CMAQ / HSIP Component: \$127,176,000 \$31,794,000 \$158,97				\$31,250,000
Regional Non-CMAQ / HSIP Component: \$127,176,000 \$31,794,000 \$158,97				\$10,000,000
				\$7,355,000
Total regional Target 107,000,000 40,515,000 207,57				\$158,970,000 207,575,000
	i otal regional Target	167,060,000	40,515,000	201,515,000

Region	Regiona Share (%		Regional CMAQ Component With State Match	Regional TAP Component With State Match	Total Regional Target With State Match	NonCMAQ/ HSIP/TAP with State Match
Berkshire Region Boston Region Cape Cod Central Mass Franklin Region Martha's Vineyard Merrimack Valley Montachusett Nonthern Middlesex Old Colony Pioneer Valley	3,5594 42,967* 4,565* 8,690* 2,5397 0,3100* 4,4594 4,4594 4,5594 4,5594 10,809*	\$4,296,710 \$458,614 \$696,013 \$253,975 \$30,997 \$442,956 \$444,956 \$21,998 \$390,961 \$455,964	\$1,112,389 \$13,427,220 \$1,432,857 \$2,715,666 \$793,671 \$96,865 \$1,394,237 \$1,393,611 \$68,743 \$1,221,763 \$1,424,858 \$3,376,100	\$0 \$2,902,060 \$193,035 \$984,220 \$0 \$344,036 \$120,766 \$0 \$276,316 \$337,265 \$1,260,000	\$18,038,639 \$5,271,878 \$643,418 \$9,194,653 \$9,256,919 \$456,619 \$8,115,371 \$9,464,473	\$5,920,57 \$88,562,97 \$7,433,20 \$13,469,64 \$4,224,23 \$515,55 \$7,023,42 \$7,296,59 \$365,87 \$6,226,34 \$7,246,39 \$1,6,729,59
Southeastern Mass	8.960	,,	\$2,800,033	\$947,311	\$18,598,936	\$13,965,68
	Total: 100.00	\$10,000,000	\$31,250,000	\$7,355,000	\$207,575,000	\$158,970,000

Federal Aid Programming and Reimbursement Office wtb

FEDERAL FISCAL YEAR 2018 FFY 2017-2021 STIP FEDERAL REGIONAL TARGETS

	Obligation Authority	Obl. Auth. Matching State Funds	Total Funding Based On Obl. Auth.
Base Obligation Authority	\$598,178,885		
Redistribution, as Estimated by MassDOT	\$26,821,115		
Total Estimated Obligation Authority Available:	\$625,000,000		
ABP GANS Repayment	\$68,463,700		
Total Non-Earmarked Available Statewide - (Including State Match)	\$556,536,300	\$129,584,075	\$686,120,375
Statewide Infrastructure Items:			
Statewide Infrastructure Program	\$8,500,000	\$2,125,000	\$10,625,000
Statewide Safety Program	\$26,460,000	\$2,940,000	\$29,400,000
Statewide Safe Routes to Schools Program	\$6,000,000	\$1,500,000	\$7,500,000
Statewide CMAQ Program	\$43,000,000	\$10,750,000	\$53,750,000
Statewide Intelligent Transportation System Program	\$10,000,000	\$2,500,000	\$12,500,000
Statewide Interstate Maintenance Program	\$33,300,000	\$3,700,000	\$37,000,000
Statewide National Freight Program	\$0	\$0	\$0
Statewide NHS Preservation Program	\$41,000,000	\$10,250,000	\$51,250,000
Statewide RR Grade Crossings	\$4,250,000	\$1,062,500	\$5,312,500
Statewide Stormwater Retrofits	\$6,000,000	\$1,500,000	\$7,500,000
Statewide ADA Implementation Plan	\$0	\$0	\$0
Subtotal Statewide Infrastructure Items:	\$178,510,000	\$36,327,500	\$214,837,500
Other Statewide Items:			
Award Adjustments, Change Orders, Etc.	\$33,952,975	\$8,488,244	\$42,441,219
Planning	\$22,696,960	\$5,674,240	\$28,371,200
Recreational Trails	\$1,186,729	\$296,682	\$1,483,411
DBEs, Misc Programs	\$800,000	\$200,000	\$1,000,000
Design and Right of Way	\$4,472,797	\$1,118,199	\$5,590,996
Subtotal Other Statewide Items:	\$63,109,461	\$15,777,365	\$78,886,826
Regional Major Infrastructure Projects:	\$0	\$0	\$0
Bridge Program:			
Statewide Systematic Maintenance Program	\$8,000,000	\$2,000,000	\$10,000,000
Statewide Off-System Bridge Program	\$28,456,838	\$7,114,210	\$35,571,048
Statewide On System Bridge Program	\$100,000,000	\$25,000,000	\$125,000,000
Statewide Bridge Inspection Program	\$5,000,000	\$1,250,000	\$6,250,000
Subtotal Federal Aid Bridge Program:	\$141,456,838	\$35,364,210	\$176,821,048
Total Regional Targets:			
CMAQ - Congestion Mitigation and Air Quality Improvement Program	\$20,000,000	\$5,000,000	\$25,000,000
HSIP - Highway Safety Improvement Program	\$9,000,000	\$1,000,000	\$10,000,000
TAP - Transportation Alternatives Program	\$4,555,000	\$1,138,750	\$5,693,750
Regional Non-CMAQ / HSIP Component:	\$139,905,001	\$34,976,250	\$174,881,251
Total Regional Target	173,460,001	42,115,000	215,575,001

Region		Regional Share (%)	Regional HSIP Component With State Match	Regional CMAQ Component With State Match	Regional TAP Component With State Match	Total Regional Target With State Match	NonCMAQ/ HSIP/TAP with State Match
Berkshire Region		3.5596	\$355,964	\$889,911	\$0	\$7,673,703	\$6,427,82
Boston Region		42.9671	\$4,296,710	\$10,741,776	\$2,927,554	\$92,626,334	\$74,660,294
Cape Cod		4.5851	\$458,514	\$1,146,285	\$210,307	\$9,884,419	\$8,069,312
Central Mass		8.6901	\$869,013	\$2,172,533	\$475,200	\$18,733,750	\$15,217,000
Franklin Region		2.5397	\$253,975	\$634,937	\$0	\$5,475,057	\$4,586,146
Martha's Vineyard		0.3100	\$30,997	\$77,492	\$0	\$668,216	\$559,72
Merrimack Valley		4.4296	\$442,956	\$1,107,389	\$350,938	\$9,549,018	\$7,647,73
Montachusett		4.4596	\$445,955	\$1,114,889	\$85,141	\$9,613,684	\$7,967,69
Nantucket		0.2200	\$21,998	\$54,995	\$0	\$474,218	\$397,22
Northern Middlesex		3.9096	\$390,961	\$977,402	\$281,859	\$8,428,140	\$6,777,91
Old Colony		4.5595	\$455,954	\$1,139,886	\$345,114	\$9,829,237	\$7,888,28
Pioneer Valley		10.8099	\$1,080,992	\$2,702,480	\$540,000	\$23,303,483	\$18,980,01
Southeastern Mass		8.9601	\$896,010	\$2,240,026	\$477,637	\$19,316,744	\$15,702,07
	Total:	100.00	\$10,000,000	\$25,000,000	\$5,693,750	\$215,575,001	\$174,881,251

Federal Aid Programming and Reimbursement Office wtb

Page 2 of 5 June 23, 2016

FEDERAL FISCAL YEAR 2019 FFY 2017-2021 STIP FEDERAL REGIONAL TARGETS

Base Obligation Authority Redistribution, as Estimated by MassDOT Total Estimated Obligation Authority Available: ABP GANS Repayment Total Non-Earmarked Available Statewide - (Including State Match) Statewide Infrastructure Items: Statewide Infrastructure Program Statewide Safety Program Statewide Safe Routes to Schools Program Statewide Om And Program Statewide Intelligent Transportation System Program Statewide Intelligent Transportation System Program Statewide Interstate Maintenance Program Statewide Interstate Maintenance Program Statewide National Freight Program Statewide Nels Preservation Program Statewide Stormwater Retroffs Statewide On-Interstructure Items: Other Statewide Infrastructure Items: Other Statewide Items: Award Adjustments, Change Orders, Etc. Planning Recreational Trails DBEs, Misc Programs Design and Right of Way Subtotal Other Statewide Items: Regional Major Infrastructure Projects: Bridge Program: Statewide On-System Bridge Program Statewide On-System Bridge Program Statewide Bridge Inspection Program Statewide Bridge Inspection Program Statewide Bridge Inspection Program Statewide Bridge Inspection Program Statewide Pright Program: Total Regional Targets: CMAC - Congestion Mitigation and Air Quality Improvement Program HSP - Highway Safety Improvement Program Regional Non-CMAC/ HSP Component: Total Regional Target	\$611,680,644 \$18,319,356 \$630,000,000 \$73,525,150 \$566,474,850 \$10,000,000 \$29,206,936 \$5,000,000 \$31,000,000 \$29,700,000 \$3,800,000 \$3,800,000 \$4,400,000 \$14,400,000 \$22,619,520 \$1,186,729 \$200,000 \$4,644,827 \$54,251,076	\$130,310,043 \$2,500,000 \$3,868,064 \$1,250,000 \$7,750,000 \$3,300,000 \$35,000 \$550,000 \$350,000 \$37,768,064 \$6,250,000 \$5,654,880 \$26,682 \$200,000 \$1,161,207 \$13,662,769	\$686,784,893 \$12,500,000 \$33,075,000 \$6,250,000 \$12,500,000 \$33,000,000 \$4,750,000 \$2,500,000 \$1,750,000 \$219,076,000 \$31,250,000 \$28,274,400 \$1,483,411 \$1,000,000 \$5,806,034 \$67,813,845	
Fotal Estimated Obligation Authority Available: ABP GANS Repayment Fotal Non-Earmarked Available Statewide - (Including State Match) Statewide Infrastructure Items: Statewide Infrastructure Program Statewide Safety Program Statewide Safety Program Statewide Safety Program Statewide Intelligent Transportation System Program Statewide Intelligent Transportation System Program Statewide Interstate Maintenance Program Statewide NHS Preservation Program Statewide RR Grade Crossings Statewide RR Grade Crossings Statewide Stormwater Retrofits Statewide ADA Implementation Plan Subtotal Statewide Infrastructure Items: Other Statewide Items: Award Adjustments, Change Orders, Etc. Planning Recreational Trails DBEs, Misc Programs Design and Right of Way Subtotal Other Statewide Items: Regional Major Infrastructure Projects: Bridge Program: Statewide Systematic Maintenance Program Statewide On System Bridge Program Statewide On System Bridge Program Statewide Bridge inspection Program Statewide Bridge inspection Program Statewide Bridge inspection Program Statewide Infrastructure Projects: CMAQ - Congestion Mitigation and Air Quality Improvement Program TAP - Transportation Alternatives Program Regional Non-CMAQ / HSIP Component: Total Regional Target	\$630,000,000 \$73,525,150 \$566,474,850 \$10,000,000 \$29,206,936 \$5,000,000 \$31,000,000 \$29,700,000 \$29,700,000 \$2,200,000 \$3,800,000 \$2,000,000 \$1,400,000 \$11,400,000 \$11,807,936 \$25,000,000 \$22,619,520 \$1,186,729 \$800,000 \$4,644,827 \$54,251,076	\$2,500,000 \$3,868,064 \$1,250,000 \$7,750,000 \$2,500,000 \$3,300,000 \$950,000 \$350,000 \$37,768,064 \$6,250,000 \$5,654,880 \$296,682 \$200,000 \$1,161,207 \$13,662,769	\$12,500,000 \$33,075,000 \$6,250,000 \$12,500,000 \$12,500,000 \$4,750,000 \$2,500,000 \$2,500,000 \$2,500,000 \$2,500,000 \$2,500,000 \$2,500,000 \$1,40,400,000 \$1,40,400,000 \$1,400,000 \$1,400,000 \$5,806,034	
tatewide Infrastructure Items: Statewide Infrastructure Program Statewide Safety Program Statewide Safety Program Statewide Safety Program Statewide Safety Program Statewide Off Safety Program Statewide Intelligent Transportation System Program Statewide Intelligent Transportation System Program Statewide Intelligent Transportation System Program Statewide National Freight Program Statewide National Freight Program Statewide RR Grade Crossings Statewide RR Grade Crossings Statewide ADA Implementation Plan Subtotal Statewide Infrastructure Items: Ither Statewide Infrastructure Items: Award Adjustments, Change Orders, Etc. Planning Recreational Trails DEEs, Misc Programs Design and Right of Way Subtotal Other Statewide Items: Legional Major Infrastructure Projects: Iridge Program: Statewide Off-System Bridge Program Statewide Off-System Bridge Program Statewide Dridge Inspection Program Statewide Bridge Inspection Program Tangets: CMAQ - Congestion Mitigation and Air Quality Improvement Program TAP - Transportation Altematives Program Regional Non-CMAQ / HSIP Component: Total Regional Target	\$73,525,150 \$566,474,850 \$10,000,000 \$29,206,936 \$5,000,000 \$10,000,000 \$29,700,000 \$3,300,000 \$2,000,000 \$1,400,000 \$2,000,000 \$2,000,000 \$2,000,000 \$2,000,000 \$4,400,000 \$4,400,000 \$4,400,000 \$4,400,000 \$4,400,000 \$4,400,000 \$50,000,000 \$4,400,000 \$50,000,	\$2,500,000 \$3,868,064 \$1,250,000 \$7,750,000 \$2,500,000 \$3,300,000 \$950,000 \$350,000 \$37,768,064 \$6,250,000 \$5,654,880 \$296,682 \$200,000 \$1,161,207 \$13,662,769	\$12,500,000 \$33,075,000 \$6,250,000 \$12,500,000 \$12,500,000 \$4,750,000 \$2,500,000 \$2,500,000 \$2,500,000 \$2,500,000 \$2,500,000 \$2,500,000 \$1,40,400,000 \$1,40,400,000 \$1,400,000 \$1,400,000 \$5,806,034	
otal Non-Earmarked Available Statewide - (including State Match) tatewide Infrastructure Items: Statewide Infrastructure Program Statewide Safe Routes to Schools Program Statewide Safe Routes to Schools Program Statewide Safe Routes to Schools Program Statewide Interstate Maintenance Program Statewide Interstate Maintenance Program Statewide Interstate Maintenance Program Statewide NHS Preservation Program Statewide RG Grade Crossings Statewide Stormwater Retrofits Statewide ADA Implementation Plan Subtotal Statewide Infrastructure Items: ther Statewide Items: Award Adjustments, Change Orders, Etc. Planning Recreational Trails DEEs, Misc Programs Design and Right of Way Subtotal Other Statewide Items: ridge Program: Statewide Systematic Maintenance Program Statewide Off-System Bridge Program Statewide Off-System Bridge Program Statewide Off-System Bridge Program Statewide Dridge Inspection Program Statewide Program Statewide Bridge Inspection Program Statewide Program Statewide Bridge Inspection Program Statewide Off-System Bridge Program Statewide Program Statewide Bridge Inspection Program Statewide System Statewide Program Statewide Program Statewide Bridge Inspection Program Statewide System Statewide Program Statewide Program Statewide Bridge Inspection Program Statewide System Statewide Bridge Program Statewide System Statewide System Statewide Bridge Program Statewide System Stat	\$566,474,850 \$10,000,000 \$29,206,936 \$5,000,000 \$10,000,000 \$29,700,000 \$3,800,000 \$2,000,000 \$1,400,000 \$11,400,000 \$22,619,520 \$11,186,729 \$200,000 \$4,844,827 \$54,251,076	\$2,500,000 \$3,868,064 \$1,250,000 \$7,750,000 \$2,500,000 \$3,300,000 \$950,000 \$350,000 \$37,768,064 \$6,250,000 \$5,654,880 \$296,682 \$200,000 \$1,161,207 \$13,662,769	\$12,500,000 \$33,075,000 \$6,250,000 \$12,500,000 \$12,500,000 \$4,750,000 \$2,500,000 \$2,500,000 \$2,500,000 \$2,500,000 \$2,500,000 \$2,500,000 \$1,40,400,000 \$1,40,400,000 \$1,400,000 \$1,400,000 \$5,806,034	
tatewide Infrastructure Rems: Statewide Infrastructure Program Statewide Safe Routes to Schools Program Statewide Safe Routes to Schools Program Statewide CMAQ Program Statewide Intelligent Transportation System Program Statewide Interstate Maintenance Program Statewide NHS Preservation Program Statewide RR Grade Crossings Statewide RR Grade Crossings Statewide ADA Implementation Plan Subtotal Statewide Infrastructure Items: Ither Statewide Infrastructure Items: Ither Statewide Items: Award Adjustments, Change Orders, Etc. Planning Recreational Trails DEEs, Misc Programs Design and Right of Way Subtotal Other Statewide Items: Iridge Program: Statewide Systematic Maintenance Program Statewide Off-System Bridge Program Statewide Off-System Bridge Program Statewide Off-System Bridge Program Statewide Dridge Inspection Program Statewide Program: Statewide Program: Statewide Program Statewide Dridge Inspection Program Statewide Program Statewide Bridge Inspection Program Statewide Program: Statewide Program: Statewide Program Statewide Bridge Program Statewide Program Statewide Bridge Inspection Program Statewide Program: Otal Regional Targets: OMAQ - Congestion Mitigation and Air Quality Improvement Program TAP - Transportation Alternatives Program Regional Non-CMAQ / HSIP Component: Total Regional Target	\$10,000,000 \$29,206,936 \$5,000,000 \$31,000,000 \$10,000,000 \$29,700,000 \$2,200,000 \$2,200,000 \$1,400,000 \$11,400,000 \$25,000,000 \$25,000,000 \$21,186,729 \$300,000 \$4,644,827 \$54,251,076	\$2,500,000 \$3,868,064 \$1,250,000 \$7,750,000 \$2,500,000 \$3,300,000 \$950,000 \$350,000 \$37,768,064 \$6,250,000 \$5,654,880 \$296,682 \$200,000 \$1,161,207 \$13,662,769	\$12,500,000 \$33,075,000 \$6,250,000 \$12,500,000 \$12,500,000 \$4,750,000 \$2,500,000 \$2,500,000 \$2,500,000 \$2,500,000 \$2,500,000 \$2,500,000 \$1,40,400,000 \$1,40,400,000 \$1,400,000 \$1,400,000 \$5,806,034	
Statewide Infrastructure Program Statewide Safety Program Statewide Safety Program Statewide Safety Program Statewide Intelligent Transportation System Program Statewide Intelligent Transportation System Program Statewide Intelligent Transportation System Program Statewide Interstate Maintenance Program Statewide NHS Preservation Program Statewide RR Grade Crossings Statewide Stormwater Retrofits Statewide ADA Implementation Plan Subtotal Statewide Infrastructure Items: Wher Statewide Items: Award Adjustments, Change Orders, Etc. Planning Recreational Trails DEEs, Misc Programs Design and Right of Way Subtotal Other Statewide Items: Iridge Program: Statewide Systematic Maintenance Program Statewide Onf-System Bridge Program Statewide Onf-System Bridge Program Statewide Onf-System Bridge Program Statewide Bridge inspection Program Subtotal Federal Aid Bridge Program Tap - Transportation Alternatives Program Regional Non-CMAQ / HSIP Component: Total Regional Target	\$29,206,936 \$5,000,000 \$31,000,000 \$10,000,000 \$29,700,000 \$2,000,000 \$2,200,000 \$1,400,000 \$1,400,000 \$2,619,520 \$1,186,729 \$800,000 \$4,644,827 \$54,251,076	\$3,868,064 \$1,250,000 \$7,750,000 \$2,500,000 \$3,300,000 \$14,800,000 \$950,000 \$500,000 \$37,768,064 \$6,250,000 \$5,654,880 \$296,682 \$200,000 \$1,161,207 \$13,662,769	\$33,075,000 \$6,250,000 \$38,750,000 \$12,500,000 \$12,500,000 \$0 \$74,000,000 \$4,750,000 \$2,500,000 \$1,750,000 \$219,076,000 \$31,250,000 \$28,274,400 \$1,483,411 \$1,000,000 \$5,806,034	
Statewide Safety Program Statewide CMAQ Program Statewide Intelligent Transportation System Program Statewide Intelligent Transportation System Program Statewide Interstate Maintenance Program Statewide NAS Preservation Program Statewide NHS Preservation Program Statewide RR Grade Crossings Statewide Stormwater Retrofits Statewide ADA Implementation Plan Subtotal Statewide Infrastructure Items: Where Statewide Items: Award Adjustments, Change Orders, Etc. Planning Recreational Trails DEEs, Misc Programs Design and Right of Way Subtotal Other Statewide Items: Regional Major Infrastructure Projects: Indige Program: Statewide Off-System Bridge Program Statewide Off-System Bridge Program Statewide Off-System Bridge Program Statewide Dridge Inspection Program Statewide Program: Statewide Program: Statewide Program: Statewide Program Statewide Dridge Inspection Program Statewide Program Statewide Program: Statewide Program: Statewide Program: Statewide Program Statewide P	\$29,206,936 \$5,000,000 \$31,000,000 \$10,000,000 \$29,700,000 \$2,000,000 \$2,200,000 \$1,400,000 \$1,400,000 \$2,619,520 \$1,186,729 \$800,000 \$4,644,827 \$54,251,076	\$3,868,064 \$1,250,000 \$7,750,000 \$2,500,000 \$3,300,000 \$14,800,000 \$950,000 \$500,000 \$37,768,064 \$6,250,000 \$5,654,880 \$296,682 \$200,000 \$1,161,207 \$13,662,769	\$33,075,000 \$6,250,000 \$38,750,000 \$12,500,000 \$12,500,000 \$0 \$74,000,000 \$4,750,000 \$2,500,000 \$1,750,000 \$219,076,000 \$31,250,000 \$28,274,400 \$1,483,411 \$1,000,000 \$5,806,034	
Statewide CMAQ Program Statewide CMAQ Program Statewide Intelligent Transportation System Program Statewide Intelligent Transportation System Program Statewide National Freight Program Statewide National Freight Program Statewide NAS Preservation Program Statewide RR Grade Crossings Statewide Stormwater Retrofits Statewide ADA Implementation Plan Subtotal Statewide Infrastructure Items: other Statewide Items: Award Adjustments, Change Orders, Etc. Planning Recreational Trails DBEs, Misc Programs Design and Right of Way Subtotal Other Statewide Items: ridge Program: Statewide Systematic Maintenance Program Statewide Orf-System Bridge Program Statewide Orf-System Bridge Program Statewide Orf System Bridge Program Statewide Dridge Inspection Program Statewide Bridge Inspection Program Statewide Bridge Inspection Program Statewide Program: Statewide Systematic Maintenance Program Statewide Dridge Inspection Program Statewide Dridge Inspection Program Statewide Inspection Program Statewide Systems Inspection Program Statewide Systems Inspection Program Statewide Inspection Program Tary - Transportation Alternatives Program Regional Non-CMAQ / HSIP Component: Total Regional Target	\$5,000,000 \$31,000,000 \$10,000,000 \$23,700,000 \$3,800,000 \$2,000,000 \$1,400,000 \$11,400,000 \$22,619,520 \$1,186,729 \$800,000 \$4,644,827 \$64,251,076	\$1,250,000 \$7,750,000 \$2,500,000 \$3,300,000 \$3,300,000 \$500,000 \$500,000 \$350,000 \$37,768,064 \$6,250,000 \$5,654,880 \$296,682 \$200,000 \$1,161,207 \$13,662,769	\$8.250,000 \$33,750,000 \$12,500,000 \$33,000,000 \$4.750,000 \$4.750,000 \$2,500,000 \$1,750,000 \$219,076,000 \$31,250,000 \$14,433,411 \$1,000,000 \$5,806,034	
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Statewide Interligent Transportation System Program Statewide Interstate Meintenance Program Statewide National Freight Program Statewide NHS Preservation Program Statewide RR Grade Crossings Statewide RR Grade Crossings Statewide ADA Implementation Plan Subtotal Statewide Infrastructure Items: Other Statewide Items: Award Adjustments, Change Orders, Etc. Planning Recreational Trails DBEs, Misc Programs Design and Right of Way Subtotal Other Statewide Items: Regional Major Infrastructure Projects: Stridge Program: Statewide Off-System Bridge Program Statewide Off-System Bridge Program Statewide Off-System Bridge Program Statewide Endige Inspection Program Statewide Program: Statewide Program: Statewide Program Statewide Bridge Inspection Program Statewide Program Statewide Program: Statewide Program Statewi	\$10,000,000 \$29,700,000 \$59,200,000 \$3,800,000 \$1,400,000 \$1,400,000 \$2,000,000 \$2,000,000 \$2,000,000 \$2,619,520 \$1,186,729 \$800,000 \$4,644,827 \$54,251,076	\$2,500,000 \$3,300,000 \$14,800,000 \$950,000 \$500,000 \$350,000 \$37,768,064 \$6,250,000 \$5,654,880 \$296,682 \$200,000 \$1,161,207 \$13,662,769	\$12,500,000 \$33,000,000 \$0 \$74,000,000 \$4,750,000 \$2,500,000 \$1,750,000 \$219,076,000 \$31,250,000 \$28,274,400 \$1,483,411 \$1,000,000 \$5,806,034	
Statewide Interstate Maintenance Program Statewide National Freight Program Statewide NRS Preservation Program Statewide RR Grade Crossings Statewide Stormwater Retrofits Statewide ADA Implementation Plan Subtotal Statewide Infrastructure Items: Wither Statewide Items: Award Adjustments, Change Orders, Etc. Planning Recreational Trails DBEs, Misc Programs Design and Right of Way Subtotal Other Statewide Items: Regional Major Infrastructure Projects: Regional Major Infrastructure Projects: Regional Major Infrastructure Program Statewide Off-System Bridge Program Statewide Off-System Bridge Program Statewide Off-System Bridge Program Statewide Dridge Inspection Program Statewide Program: Statewide Program: Statewide Program: Statewide Program Statewide Dridge Inspection Program Statewide Program Statewide Program: Statewide Program: Statewide Program Statewide	\$29,700,000 \$3,800,000 \$3,800,000 \$1,400,000 \$11,400,000 \$11,400,000 \$22,619,520 \$1,186,729 \$800,000 \$4,644,827 \$64,251,076	\$3,300,000 \$0 \$14,800,000 \$950,000 \$500,000 \$37,768,064 \$6,250,000 \$5,654,880 \$296,682 \$200,000 \$1,161,207 \$13,662,769	\$33,000,000 \$0 \$74,000,000 \$4,750,000 \$2,500,000 \$1,750,000 \$219,076,000 \$31,250,000 \$28,274,400 \$1,483,411 \$1,000,000 \$5,806,034	
Statewide National Freight Program Statewide NHS Preservation Program Statewide NG Grade Crossings Statewide Stormwater Retrofits Statewide ADA Implementation Plan Subtotal Statewide Infrastructure Items: Other Statewide Items: Award Adjustments, Change Orders, Etc. Planning Recreational Trails DBEs, Misc Programs Design and Right of Way Subtotal Other Statewide Items: tegional Major Infrastructure Projects: tridge Program: Statewide Systematic Maintenance Program Statewide Off-System Bridge Program Statewide On System Bridge Program Statewide On System Bridge Program Statewide Bridge Inspection Program Statewide Bridge Inspection Program Statewide Bridge Inspection Program Subtotal Federal Aid Bridge Program: Cotal Regional Targets: CMAQ - Congestion Mitigation and Air Quality Improvement Program TAP - Transportation Alternatives Program Regional Non-CMAQ / HSIP Component: Total Regional Target	\$0 \$59,200,000 \$3,800,000 \$2,000,000 \$1,400,000 \$181,306,936 \$25,000,000 \$22,619,520 \$1,186,729 \$800,000 \$4,644,827 \$54,251,076	\$0 \$14,800,000 \$950,000 \$500,000 \$350,000 \$37,768,064 \$6,250,000 \$5,654,880 \$296,682 \$200,000 \$1,161,207 \$13,662,769	\$0 \$74,000,000 \$4,750,000 \$2,500,000 \$1,750,000 \$219,076,000 \$31,250,000 \$28,274,400 \$1,483,411 \$1,000,000 \$5,806,034	
Statewide RR Grade Crossings Statewide Stormwater Retrofits Statewide ADA Implementation Plan Subtotal Statewide Infrastructure Items: Wher Statewide Items: Award Adjustments, Change Orders, Etc. Planning Recreational Trails DEEs, Misc Programs Design and Right of Way Subtotal Other Statewide Items: Regional Major Infrastructure Projects: Regional Major Infrastructure Program Statewide Off-System Bridge Program Statewide Off-System Bridge Program Statewide Endige Inspection Program Statewide Bridge Inspection Program Subtotal Federal Aid Bridge Program: Regional Targets: CMAQ - Congestion Mitigation and Air Quality Improvement Program TAP - Transportation Alternatives Program Regional Non-CMAQ / HSIP Component: Total Regional Target	\$3,800,000 \$2,000,000 \$1,400,000 \$181,306,936 \$25,000,000 \$22,619,520 \$1,186,729 \$800,000 \$4,844,827 \$54,251,076	\$950,000 \$500,000 \$350,000 \$37,768,064 \$6,250,000 \$5,654,880 \$296,682 \$200,000 \$1,161,207 \$13,662,769	\$4,750,000 \$2,500,000 \$1,750,000 \$219,075,000 \$31,250,000 \$28,274,400 \$1,483,411 \$1,000,000 \$5,806,034	
Statewide Stormwater Retrofits Statewide ADA Implementation Plan Subtotal Statewide Infrastructure Items: ther Statewide Items: Award Adjustments, Change Orders, Etc. Planning Recreational Trails DBEs, Misc Programs Design and Right of Way Subtotal Other Statewide Items: regional Major Infrastructure Projects: ridge Program: Statewide Systematic Maintenance Program Statewide Off-System Bridge Program Statewide Off-System Bridge Program Statewide Bridge Inspection Program Statewide Bridge Inspection Program Subtotal Federal Aid Bridge Program: otal Regional Targets: CMAQ - Congestion Mitigation and Air Quality Improvement Program TAP - Transportation Alternatives Program Regional Non-CMAQ / HSIP Component: Total Regional Target	\$2,000,000 \$1,400,000 \$181,306,936 \$25,000,000 \$22,619,520 \$1,186,729 \$800,000 \$4,644,827 \$64,251,076	\$500,000 \$350,000 \$37,768,064 \$6,250,000 \$5,654,880 \$296,682 \$200,000 \$1,161,207 \$13,662,769	\$2,500,000 \$1,750,000 \$219,075,000 \$31,250,000 \$28,274,400 \$1,483,411 \$1,000,000 \$5,806,034	
Subtotal Statewide Infrastructure Items: Wher Statewide Infrastructure Items: Wher Statewide Items: Award Adjustments, Change Orders, Etc. Planning Recreational Trails DEEs, Misc Programs Design and Right of Way Subtotal Other Statewide Items: Legional Major Infrastructure Projects: Uridge Program: Statewide Systematic Maintenance Program Statewide Off-System Bridge Program Statewide Off-System Bridge Program Statewide Dridge inspection Program Subtotal Federal Aid Bridge Program: Cotal Regional Targets: CMAQ - Congestion Mitigation and Air Quality Improvement Program TAP - Transportation Alternatives Program Regional Non-CMAQ / HSIP Component: Total Regional Target	\$1,400,000 \$181,306,936 \$25,000,000 \$22,619,520 \$1,186,729 \$800,000 \$4,644,827 \$64,251,076	\$37,768,064 \$6,250,000 \$5,654,880 \$296,682 \$200,000 \$1,161,207 \$13,662,769	\$1,750,000 \$219,075,000 \$31,250,000 \$28,274,400 \$1,483,411 \$1,000,000 \$5,806,034	
Subtotal Statewide Infrastructure Items: Award Adjustments, Change Orders, Etc. Planning Recreational Trails DBEs, Misc Programs Design and Right of Way Subtotal Other Statewide Items: Regional Major Infrastructure Projects: Regional Major Infrastructure Projects: Regional Major Infrastructure Projects: Regional Major Infrastructure Projects: Statewide Systematic Maintenance Program Statewide Off-System Bridge Program Statewide Off-System Bridge Program Statewide Dridge Inspection Program Subtotal Federal Aid Bridge Program: Statewide Bridge Inspection Program Subtotal Federal Aid Bridge Program: Otal Regional Targets: CMAQ - Congestion Mitigation and Air Quality Improvement Program HSIP - Highway Safety Improvement Program TAP - Transportation Altematives Program Regional Non-CMAQ / HSIP Component: Total Regional Target	\$181,306,936 \$25,000,000 \$22,619,520 \$1,186,729 \$900,000 \$4,844,827 \$54,251,076	\$37,769,064 \$6,250,000 \$5,654,880 \$296,682 \$200,000 \$1,161,207 \$13,662,769	\$219,075,000 \$31,250,000 \$28,274,400 \$1,483,411 \$1,000,000 \$5,806,034	
ther Statewide Items: Award Adjustments, Change Orders, Etc. Planning Recreational Trails DBEs, Misc Programs Design and Right of Way Subtotal Other Statewide Items: regional Major Infrastructure Projects: ridge Program: Statewide Systematic Maintenance Program Statewide Off-System Bridge Program Statewide Off-System Bridge Program Statewide Dridge Inspection Program Statewide Bridge Inspection Program Subtotal Federal Aid Bridge Program: otal Regional Targets: CMAQ - Congestion Mitigation and Air Quality Improvement Program HSIP - Highway Safety Improvement Program TAP - Transportation Alternatives Program Regional Non-CMAQ / HSIP Component: Total Regional Target	\$25,000,000 \$22,619,520 \$1,186,729 \$800,000 \$4,644,827 \$54,251,076	\$6,250,000 \$5,654,880 \$296,682 \$200,000 \$1,161,207 \$13,662,769	\$31,250,000 \$28,274,400 \$1,483,411 \$1,000,000 \$5,806,034	
Award Adjustments, Change Orders, Etc. Planning Recreational Trails DBEs, Misc Programs Design and Right of Way Subtotal Other Statewide Items: Legional Major Infrastructure Projects: Legional Major Infrastructure Projects: Statewide Systematic Maintenance Program Statewide Off-System Bridge Program Statewide On System Bridge Program Statewide Bridge inspection Program Subtotal Federal Aid Bridge Program: Lotal Regional Targets: CMAQ - Congestion Mitigation and Air Quality Improvement Program TAP - Transportation Alternatives Program Regional Non-CMAQ / HSIP Component: Total Regional Target	\$22,619,520 \$1,186,729 \$800,000 \$4,644,827 \$54,251,076	\$5,654,880 \$296,682 \$200,000 \$1,161,207 \$13,562,769	\$28,274,400 \$1,483,411 \$1,000,000 \$5,806,034	
Planning Recreational Trails DEEs, Misc Programs Design and Right of Way Subtotal Other Statewide Items: egional Major Infrastructure Projects: ridge Program: Statewide Systematic Maintenance Program Statewide Off-System Bridge Program Statewide Off-System Bridge Program Statewide Off-System Bridge Program Statewide Bridge Inspection Program Subtotal Federal Aid Bridge Program: otal Regional Targets: CMAQ - Congestion Mitigation and Air Quality Improvement Program HSIP - Highway Safety Improvement Program TAP - Transportation Alternatives Program Regional Non-CMAQ / HSIP Component: Total Regional Target	\$22,619,520 \$1,186,729 \$800,000 \$4,644,827 \$54,251,076	\$5,654,880 \$296,682 \$200,000 \$1,161,207 \$13,562,769	\$28,274,400 \$1,483,411 \$1,000,000 \$5,806,034	
Recreational Trails DEES, Misc Programs Design and Right of Way Subtotal Other Statewide Items: egional Major Infrastructure Projects: ridge Program: Statewide Systematic Maintenance Program Statewide Off-System Bridge Program Statewide On System Bridge Program Statewide Bridge Inspection Program Subtotal Federal Aid Bridge Program: otal Regional Targets: CMAQ - Congestion Mitigation and Air Quality Improvement Program TAP - Transportation Alternatives Program Regional Non-CMAQ / HSIP Component: Total Regional Target	\$1,186,729 \$800,000 \$4,644,827 \$54,251,076 \$0	\$296,682 \$200,000 \$1,161,207 \$13,562,769	\$1,483,411 \$1,000,000 \$5,806,034	
DBES, Misc Programs Design and Right of Way Subtotal Other Statewide Items: egional Major Infrastructure Projects: ridge Program: Statewide Systematic Maintenance Program Statewide Off-System Bridge Program Statewide On System Bridge Program Statewide On System Bridge Program Statewide Bridge Inspection Program Subtotal Federal Aid Bridge Program: otal Regional Targets: CMAQ - Congestion Mitigation and Air Quality Improvement Program HSIP - Highway Safety Improvement Program TAP - Transportation Alternatives Program Regional Non-CMAQ / HSIP Component: Total Regional Target	\$800,000 \$4,644,827 \$54,251,076 \$0	\$200,000 \$1,161,207 \$13,562,769	\$1,000,000 \$5,806,034	
Design and Right of Way Subtotal Other Statewide Items: degional Major Infrastructure Projects: uridge Program: Statewide Systematic Maintenance Program Statewide Off-System Bridge Program Statewide Off-System Bridge Program Statewide Dridge Inspection Program Subtotal Federal Aid Bridge Program: uridal Regional Targets: CMAQ - Congestion Mitigation and Air Quality Improvement Program HSIP - Highway Safety Improvement Program TAP - Transportation Alternatives Program Regional Non-CMAQ / HSIP Component: Total Regional Target	\$4,844,827 \$54,251,076 \$0	\$1,161,207 \$13,562,769	\$5,806,034	
Subtotal Other Statewide Items: Regional Major Infrastructure Projects: Stridge Program: Statewide Systematic Maintenance Program Statewide Off-System Bridge Program Statewide Off-System Bridge Program Statewide Bridge Inspection Program Subtotal Federal Aid Bridge Program: Subtotal Federal Aid Bridge Program: Total Regional Targets: CMAQ - Congestion Mitigation and Air Quality Improvement Program HSIP - Highway Safety Improvement Program TAP - Transportation Alternatives Program Regional Non-CMAQ / HSIP Component: Total Regional Target	\$54,251,076 \$0	\$13,562,769	1-1	
Statewide Systematic Maintenance Program Statewide Off-System Bridge Program Statewide On System Bridge Program Statewide Bridge inspection Program Statewide Bridge inspection Program Subtotal Federal Aid Bridge Program: Otal Regional Targets: CMAQ - Congestion Mitigation and Air Quality Improvement Program HSIP - Highway Safety Improvement Program TAP - Transportation Alternatives Program Regional Non-CMAQ / HSIP Component: Total Regional Target	,-	\$0	. , ,	
Statewide Systematic Maintenance Program Statewide Off-System Bridge Program Statewide On System Bridge Program Statewide On System Bridge Program Statewide Bridge Inspection Program Subtotal Federal Aid Bridge Program: "otal Regional Targets: CMAQ - Congestion Mitigation and Air Quality Improvement Program HSIP - Highway Safety Improvement Program TAP - Transportation Alternatives Program Regional Non-CMAQ / HSIP Component: Total Regional Target			\$0	
Statewide Systematic Maintenance Program Statewide Off-System Bridge Program Statewide On System Bridge Program Statewide On System Bridge Program Statewide Bridge Inspection Program Subtotal Federal Aid Bridge Program: "otal Regional Targets: CMAQ - Congestion Mitigation and Air Quality Improvement Program HSIP - Highway Safety Improvement Program TAP - Transportation Alternatives Program Regional Non-CMAQ / HSIP Component: Total Regional Target				
Statewide Off-System Bridge Program Statewide On System Bridge Program Statewide Bridge inspection Program Subtotal Federal Aid Bridge Program: Otal Regional Targets: CMAQ - Congestion Mitigation and Air Quality improvement Program HSIP - Highway Safety Improvement Program TAP - Transportation Alternatives Program Regional Non-CMAQ / HSIP Component: Total Regional Target	\$8,000,000	\$2,000,000	\$10,000,000	
Statewide On System Bridge Program Statewide Bridge Inspection Program Subtotal Federal Aid Bridge Program: Otal Regional Targets: CMAQ - Congestion Mitigation and Air Quality Improvement Program HSIP - Highway Safety Improvement Program TAP - Transportation Alternatives Program Regional Non-CMAQ / HSIP Component: Total Regional Target	\$28,456,838	\$7,114,210	\$35,571,048	
Subtotal Federal Aid Bridge Program: Otal Regional Targets: CMAQ - Congestion Mitigation and Air Quality Improvement Program HSIP - Highway Safety Improvement Program TAP - Transportation Alternatives Program Regional Non-CMAQ / HSIP Component: Total Regional Target	\$106,000,000	\$26,500,000	\$132,500,000	
Otal Regional Targets: CMAQ - Congestion Mitigation and Air Quality Improvement Program HSIP - Highway Safety Improvement Program TAP - Transportation Alternatives Program Regional Non-CMAQ / HSIP Component: Total Regional Target	\$5,000,000	\$1,250,000	\$6,250,000	
CMAQ - Congestion Mitigation and Air Quality Improvement Program HSIP - Highway Safety Improvement Program TAP - Transportation Alternatives Program Regional Non-CMAQ / HSIP Component: Total Regional Target	\$147,456,838	\$36,864,210	\$184,321,048	
CMAQ - Congestion Mitigation and Air Quality Improvement Program HSIP - Highway Safety Improvement Program TAP - Transportation Alternatives Program Regional Non-CMAQ / HSIP Component: Total Regional Target				
HSIP - Highway Safety Improvement Program TAP - Transportation Alternatives Program Regional Non-CMAQ / HSIP Component: Total Regional Target	\$20,000,000	\$5,000,000	\$25,000,000	
TAP - Transportation Alternatives Program Regional Non-CMAQ / HSIP Component: Total Regional Target	\$9,000,000	\$1,000,000	\$10,000,000	
Total Regional Target	\$4,540,000	\$1,135,000	\$5,675,000	
	\$139,920,000	\$34,980,000	\$174,900,000	
Regional	173,460,000	42,115,000	215,575,000	
i tografia.	Regional	Regional	Total	NonCMAQ/
Regional HSIP Component C	MAQ Component	TAP Component	Regional Target	HSIP/TAP
egion Share (%) With State Match	With State Match	With State Match	With State Match	with State Match
erkshire Region 3.5596 \$355,964	\$889,911	\$0	\$7,673,703	\$6,427,
loston Region 42.9671 \$4,296,710	\$10,741,776	\$2,882,340	\$92,626,333	\$74,705,
ape Cod 4.5851 \$458,514	φ10,741,776	\$193,036	\$9,884,419	\$8,086,
entral Mass 8.6901 \$869,013	\$1,146,285	6 400 004	\$18,733,750	\$15,203,
ranklin Region 2.5397 \$253,975	\$1,146,285 \$2,172,533	\$488,961	\$5,476,057	\$4,586,
terthe's Vineyard 0.3100 \$30,997	\$1,146,285 \$2,172,533 \$634,937	\$0		\$559,
Memimack Valley 4.4296 \$442,956	\$1,146,285 \$2,172,533 \$634,937 \$77,492	\$0 \$0	\$668,216	\$7,653,
Aontachusett 4.4596 \$445,955 Vantucket 0.2200 \$21,998	\$1,146,285 \$2,172,533 \$634,937 \$77,492 \$1,107,389	\$0 \$0 \$345,082	\$9,549,018	
Vantucket 0.2200 \$21,998 Northern Middlesex 3.9096 \$390,961	\$1,146,285 \$2,172,533 \$634,937 \$77,492	\$0 \$0		\$7,967, \$7,967,

\$390,961 \$455,954

\$1,080,992

\$10,000,000

\$977,402

\$1,139,886 \$2,702,480

\$2,240,026

\$25,000,000

3.9096 4.5595

10.8099

8.9601

100.00

Total:

Federal Aid Programming and Reimbursement Office with

Northern Middlesex

Southeastern Mass

Old Colony Pioneer Valley

Page 3 of 5 June 23, 2016

\$6,782,620 \$7,895,154 \$18,982,511

\$15,652,143

\$174,900,000

\$8,428,140 \$9,829,237 \$23,303,483

\$19,315,744

\$215,575,000

\$0 \$345,082 \$85,118 \$0 \$277,166 \$338,242 \$537,500

\$5,675,000

FEDERAL FISCAL YEAR 2020 FFY 2017-2021 STIP FEDERAL REGIONAL TARGETS

			Obligation Authority	Obl. Auth. Matching State Funds	Total Funding Based On Obl. Auth.	
Base Obligation Authority			\$626,330,019			
Redistribution, as Estimated by MassDOT			\$8,669,981			
otal Estimated Obligation Authority Availabl	le:		\$635,000,000			
BP GANS Repayment			\$77,951,600			
Total Non-Earmarked Available Statewide - (Including State Match)			\$557,048,400	\$138,087,100	\$695,135,500	
Statewide Infrastructure Items:						
Statewide Infrastructure Program			\$12,000,000	\$3,000,000	\$15,000,000	
Statewide Safety Program			\$26,460,000	\$2,940,000	\$29,400,000	
Statewide Safe Routes to Schools Program			\$5,000,000	\$1,250,000	\$6,250,000	
Statewide CMAQ Program Statewide Intelligent Transportation System Prog			\$27,000,000 \$10,000,000	\$15,000,000 \$2,500,000	\$42,000,000 \$12,500,000	
Statewide Intelligent Transportation System Prog Statewide Interstate Maintenance Program	gram		\$32,400,000	\$2,500,000	\$12,500,000	
			\$32,400,000	\$3,000,000	\$30,000,000	
Statewide National Freight Program			\$60,000,000	\$15,000,000	\$75,000,000	
Statewide NHS Preservation Program						
Statewide RR Grade Crossings			\$2,000,000	\$500,000	\$2,500,000	
Statewide Stormwater Retrofits			\$4,000,000	\$1,000,000	\$5,000,000	
Statewide ADA Implementation Plan		-	\$0	\$0	\$0	
Subtotal Statewide Infrastructure Items:			\$178,860,000	\$44,790,000	\$223,650,000	
ther Statewide Items:						
Award Adjustments, Change Orders, Etc.			\$28,926,493	\$7,231,623	\$36,158,116	
Planning			\$23,457,280	\$5,864,320	\$29,321,600	
Recreational Trails			\$1,186,729	\$296,682	\$1,483,411	
DBEs, Misc Programs			\$800,000	\$200,000	\$1,000,000	
Design and Right of Way		-	\$4,816,858	\$1,204,214	\$6,021,072	
Subtotal Other Statewide Items:			\$59,187,360	\$14,796,840	\$73,984,200	
egional Major Infrastructure Projects:			\$0	\$0	\$0	
ridge Program:			** ***	#2.000.000	240,000,000	
Statewide Systematic Maintenance Program			\$8,000,000	\$2,000,000	\$10,000,000	
Statewide Off-System Bridge Program			\$28,456,838	\$7,114,210	\$35,571,048	
Statewide On System Bridge Program			\$100,000,000	\$25,000,000	\$125,000,000	
Statewide Bridge Inspection Program Subtotal Federal Aid Bridge Program:		-	\$5,000,000 \$141,456,838	\$1,250,000 \$35,364,210	\$6,250,000 \$176,821,048	
Subtotal Federal Aid Bridge Program:			\$141,450,656	\$35,364,210	\$170,821,048	
otal Regional Targets:						
CMAQ - Congestion Mitigation and Air Quality		nt Program	\$20,000,000	\$5,000,000	\$25,000,000	
HSIP - Highway Safety Improvement Program	1		\$9,000,000	\$1,000,000	\$10,000,000	
TAP - Transportation Alternatives Program			\$4,485,000	\$1,121,250	\$5,606,250	
Regional Non-CMAQ / HSIP Component:		_	\$144,059,202	\$36,014,801	\$180,074,003	
			177,544,202	43,136,051	220,680,253	
Total Regional Target						
	Regional	Regional HSIP Component	Regional CMAQ Component	Regional TAP Component	Total Regional Target	NonCMAQ/ HSIP/TAP
	Share (%)					HSIP/TAP
agion erkshire Region	Share (%) 3.5596	HSIP Component With State Match \$355,964	CMAQ Component With State Match \$889,911	TAP Component With State Match	Regional Target With State Match \$7,855,431	HSIP/TAP with State Matc \$6,609
ogion erkshire Region sston Region	3.5596 42.9671	HSIP Component With State Match \$355,964 \$4,296,710	CMAQ Component With State Match \$889,911 \$10,741,776	TAP Component With State Match \$0 \$2,892,035	Regional Target With State Match \$7,855,431 \$94,819,913	HSIP/TAP with State Matc \$6,609 \$76,889
ogion rkshire Region oston Region ope Cod	3.5596 42.9671 4.5851	HSIP Component With State Match \$355,964 \$4,296,710 \$458,514	CMAQ Component With State Match \$889,911 \$10,741,776 \$1,146,285	TAP Component With State Match \$0 \$2,892,035 \$203,196	Regional Target With State Match \$7,855,431 \$94,819,913 \$10,118,502	#SIP/TAP with State Matc \$6,609 \$76,889 \$8,310
ogion orkshire Region oston Region ape Cod entral Mass	3.5596 42.9671 4.5851 8.6901	HSIP Component With State Match \$355,964 \$4,296,710 \$458,514 \$869,013	CMAQ Component With State Match \$889,911 \$10,741,776 \$1,146,285 \$2,172,533	TAP Component With State Match \$0 \$2,892,035 \$203,196 \$486,527	Regional Target With State Match \$7,855,431 \$94,819,913 \$10,118,502 \$19,177,403	#SIP/TAP with State Mate \$6,608 \$76,888 \$8,310 \$15,648
ogion orkshire Region oston Region ape Cod entral Mass	3.5596 42.9671 4.5851 8.6901 2.5397	HSIP Component With State Match \$355,964 \$4,296,710 \$458,514	CMAQ Component With State Match \$889,911 \$10,741,776 \$1,146,285 \$2,172,533 \$634,937	TAP Component With State Match \$0 \$2,892,035 \$203,196	Regional Target With State Match \$7,855,431 \$94,819,913 \$10,118,502	#SIP/TAP with State Mate \$6,609 \$76,889 \$8,310 \$15,649
ogion vrkshire Region oston Region ape Cod antral Mass anklin Region artha's Vineyard	3.5596 42.9671 4.5851 8.6901 2.5397 0.3100	HSIP Component With State Match \$355,964 \$4,296,710 \$459,514 \$889,013 \$253,975 \$30,997	CMAQ Component With State Match \$889,911 \$10,741,776 \$1,146,285 \$2,172,633 \$634,937 \$77,492	TAP Component With State Match \$0 \$2,892,035 \$203,196 \$486,527 \$0 \$0	Regional Target With State Match \$7,855,431 \$94,819,913 \$10,118,502 \$19,177,403	#SIP/TAP with State Mate \$6,608 \$76,888 \$8,310 \$15,648 \$4,718
egion erkshire Region oston Region ape Cod antral Mass rankin Region artha's Vinoyard	3.5596 42.9671 4.5851 8.6901 2.5397	HSIP Component With State Match \$355,964 \$4,296,710 \$458,514 \$869,013 \$253,976	CMAQ Component With State Match \$889,911 \$10,741,776 \$1,146,285 \$2,172,533 \$634,937	TAP Component With State Match \$0 \$2,892,035 \$203,196 \$486,527 \$0	Regional Target With State Match \$7,855,431 \$94,819,913 \$10,118,502 \$19,177,403 \$5,604,718	HSIP/TAP with State Mate \$6,605 \$76,885 \$8,310 \$15,645 \$4,716 \$576
egion erkshire Region oston Region ape Cod entral Mass anklin Region artha's Vinoyard errimack Valley	3.5596 42.9671 4.5851 8.6901 2.5397 0.3100	HSIP Component With State Match \$355,964 \$4,296,710 \$459,514 \$889,013 \$253,975 \$30,997	CMAQ Component With State Match \$889,911 \$10,741,776 \$1,146,285 \$2,172,633 \$634,937 \$77,492	TAP Component With State Match \$0 \$2,892,035 \$203,196 \$486,527 \$0 \$0	Regional Target With State Match \$7,855,431 \$94,819,913 \$10,118,502 \$19,177,403 \$5,604,718 \$684,040	HSIP/TAP with State Mate \$6,605 \$76,885 \$8,310 \$15,644 \$4,715 \$7,875
egion erkshire Region oston Region ape Cod entral Mass anklin Region artha's Vineyard errimack Valley ontachusett	3.5596 42.9671 4.5851 8.6901 2.5397 0.3100 4.4296	HSIP Component With State Match \$355,964 \$4,296,710 \$458,514 \$869,013 \$253,976 \$30,997 \$442,956	CMAQ Component With State Match \$889,911 \$10,741,776 \$1,146,285 \$2,172,633 \$534,937 \$77,492 \$1,107,389	TAP Component With State Match \$0 \$2,892,036 \$203,196 \$486,527 \$0 \$0 \$345,082	Regional Target With State Match \$7,855,431 \$94,819,913 \$10,118,502 \$19,177,403 \$5,604,718 \$684,040 \$9,775,150	HSIP/TAP with State Mate \$6,609 \$76,885 \$8,310 \$15,649 \$4,716 \$576 \$7,879 \$8,196
egion erkshire Region oston Region ape Cod entral Mass ranklin Region lartha's Vineyard errimack Valley tontachusett antucket	3.5596 42.9671 4.5851 8.6901 2.5397 0.3100 4.4296 4.4596	HSIP Component With State Match \$355,964 \$4,296,710 \$458,514 \$869,013 \$253,976 \$30,997 \$442,956 \$445,955	CMAQ Component With State Match \$889,911 \$10,741,776 \$1,146,285 \$2,172,533 \$634,937 \$77,492 \$1,107,389 \$1,114,889	TAP Component With State Match \$0 \$2,892,035 \$203,196 \$486,527 \$0 \$0 \$345,082 \$84,245	Regional Target With State Match \$7,855,431 \$94,819,913 \$10,118,502 \$19,177,403 \$5,604,718 \$684,040 \$9,775,156 \$9,841,355	HSIP/TAP with State Matc \$6,609 \$76,889 \$8,310 \$15,649 \$4,716 \$576 \$7,879 \$8,196 \$408
egion erkshire Region oston Region oston Region ape Cod entral Mass ranklin Region lartha's Vineyard lerrimack Valley lontachusett antucket orthem Middlesex Id Colony	3.5596 42.9671 4.5851 8.6901 2.5397 0.3100 4.4296 4.4596 0.2200	HSIP Component With State Match \$355,964 \$4,296,710 \$458,514 \$869,013 \$253,976 \$30,997 \$442,956 \$445,955 \$21,998	CMAQ Component With State Match \$889,911 \$10,741,776 \$1,146,285 \$2,172,533 \$634,937 \$77,492 \$1,107,389 \$1,114,889 \$54,995	TAP Component With State Match \$0 \$2,892,035 \$203,196 \$486,527 \$0 \$0 \$345,082 \$84,245 \$0	Regional Target With State Match \$7,855,431 \$94,819,913 \$10,118,502 \$19,177,403 \$5,604,718 \$684,040 \$9,775,158 \$9,841,355 \$485,448	HSIP/TAP with State Matc \$6,609 \$76,889 \$8,310 \$15,649 \$4,716 \$576 \$7,879 \$8,196 \$4,982
egion erkshire Region oston Region ape Cod entral Mass ranklin Region lartha's Vineyard ferrimack Valley iontachusett antucket orthern Middlesex	3.5596 42.9671 4.5851 8.6901 2.5397 0.3100 4.4296 4.4596 0.2200 3.9096	HSIP Component With State Match \$355,964 \$4,296,710 \$458,514 \$869,013 \$253,976 \$30,997 \$442,956 \$445,955 \$21,998 \$390,961	CMAQ Component With State Match \$889,911 \$10,741,776 \$1,146,285 \$2,172,633 \$634,937 \$77,492 \$1,107,389 \$1,114,889 \$54,995 \$977,402	TAP Component With State Match \$0 \$2,892,036 \$203,196 \$486,527 \$0 \$0 \$345,082 \$84,245 \$0 \$277,166	Regional Target With State Match \$7,855,431 \$94,819,913 \$10,118,502 \$19,177,403 \$5,504,718 \$684,040 \$9,775,158 \$9,841,355 \$485,448 \$8,627,738	

Federal Aid Programming and Reimbursement Office wtb

Total:

100.00

\$10,000,000

\$25,000,000

\$5,606,250

Page 4 of 5 June 23, 2016

\$179,817,753

\$220,680,253

Appendices -

FEDERAL FISCAL YEAR 2021 FFY 2017-2021 STIP FEDERAL REGIONAL TARGETS

			Obligation Authority	Obl. Auth. Matching State Funds	Total Funding Based On Obl. Auth.	
Base Obligation Authority			\$626,330,019			
Redistribution, as Estimated by MassDOT			\$13,669,981			
Total Estimated Obligation Authority Available	e:		\$640,000,000			
ABP GANS Repayment			\$82,588,050			
Total Non-Earmarked Available Statewide - (Includi	ng State Mat	ch)	\$557,411,950	\$131,927,987	\$689,339,937	
Statewide Infrastructure Items: Statewide Infrastructure Program			\$59,000,000	\$14,750,000	\$73,750,000	
Statewide Safety Program			\$26,460,000	\$2,940,000	\$29,400,000	
			\$5,000,000	\$1,250,000	\$6,250,000	
Statewide Safe Routes to Schools Program						
Statewide CMAQ Program			\$32,000,000	\$10,000,000	\$42,000,000	
Statewide Intelligent Transportation System Progr	ram		\$10,000,000	\$2,500,000	\$12,500,000	
Statewide Interstate Maintenance Program			\$32,400,000	\$3,600,000	\$36,000,000	
Statewide National Freight Program			\$0	\$0	\$0	
Statewide NHS Preservation Program			\$60,000,000	\$15,000,000	\$75,000,000	
Statewide RR Grade Crossings			\$2,000,000	\$500,000	\$2,500,000	
Statewide Stormwater Retrofits			\$4,000,000	\$1,000,000	\$5,000,000	
Statewide ADA Implementation Plan			\$1,400,000	\$350,000	\$1,750,000	
Subtotal Statewide Infrastructure Items:		_	\$232,260,000	\$51,890,000	\$284,150,000	
Other Statewide Items:						
Award Adjustments, Change Orders, Etc.			\$22,880,252	\$5,720,063	\$28,600,315	
Planning			\$24,295,040	\$6,073,760	\$30,368,800	
Recreational Trails			\$1,186,729	\$296,682	\$1,483,411	
DBEs, Misc Programs			\$800,000	\$200,000	\$1,000,000	
Design and Right of Way			\$4,988,888	\$1,247,222	\$6,236,111	
Subtotal Other Statewide Items:		-	\$54,150,909	\$13,537,727	\$67,688,637	
Regional Major Infrastructure Projects:			\$0	\$0	\$0	
Bridge Program:						
Statewide Systematic Maintenance Program			\$8,000,000	\$2,000,000	\$10,000,000	
Statewide Off-System Bridge Program			\$28,456,838	\$7,114,210	\$35,571,048	
Statewide On System Bridge Program			\$52,000,000	\$13,000,000	\$65,000,000	
Statewide Bridge Inspection Program			\$5,000,000	\$1,250,000	\$6,250,000	
Subtotal Federal Aid Bridge Program:		-	\$93,456,838	\$23,364,210	\$116,821,048	
Total Regional Targets:						
CMAQ - Congestion Mitigation and Air Quality	Improveme	nt Program	\$20,000,000	\$5,000,000	\$25,000,000	
HSIP - Highway Safety Improvement Program			\$9,000,000	\$1,000,000	\$10,000,000	
TAP - Transportation Alternatives Program			\$4,690,000	\$1,172,500	\$5,862,500	
Regional Non-CMAQ / HSIP Component:			\$143,854,202	\$35,963,551	\$179,817,753	
Total Regional Target		_	177,544,202	43,136,051	220,680,253	
		Regional	Regional	Regional	Total	NonCMAQ/
	Regional	HSIP Component	CMAQ Component	TAP Component	Regional Target	HSIP/TAP
Region	Share (%)	With State Match	With State Match	With State Match	With State Match	with State Match
Participan Danian	3.5596	\$355,964	6000.044	ėn	\$7.0EE 494	\$5.500 E
Berkshire Region			\$889,911	\$0	\$7,855,431	\$6,609,5
Boston Region	42.9671	\$4,296,710	\$10,741,776	\$2,892,035	\$94,819,913	\$76,889,3
Cape Cod	4.5851	\$458,514	\$1,146,285	\$203,196	\$10,118,502	\$8,310,5
Central Mass	8.6901	\$869,013	\$2,172,533	\$486,527	\$19,177,403	\$15,649,3
Franklin Region	2.5397	\$253,975	\$634,937	\$0	\$5,604,718	\$4,715,8
Martha's Vineyard	0.3100	\$30,997	\$77,492	\$0	\$684,040	\$676,6
Merrimack Valley	4.4296	\$442,956	\$1,107,389	\$345,082	\$9,775,158	\$7,879,7
Montachusett	4.4596	\$445,955	\$1,114,889	\$84,245	\$9,841,355	\$8,196,2
	0.2200	\$21,998	\$54,995	\$0	\$485,448	\$408,4
Nantucket	3.9096	\$390,961	\$977,402	\$277,156	\$8,627,735	\$6,982,2
		9330,301	9311,402			
Northern Middlesex			64 490 000	\$990 AA4	\$40,000,040	
Northern Middlesex Old Colony	4.5595	\$455,954	\$1,139,886	\$339,064	\$10,062,013	
Nantucket Northem Middlesex Old Colony Pioneer Valley Southeastem Mass			\$1,139,886 \$2,702,480 \$2,240,026	\$339,064 \$537,500 \$697,696	\$10,062,013 \$23,855,357 \$19,773,180	\$8,127,10 \$19,534,30 \$15,939,40

Federal Aid Programming and Reimbursement Office with

Page 5 of 5 June 23, 2016

APPENDIX B: Summary of Operation and Maintenance Expenditures

Appendices _______ 121

Massachusetts Department of Transportation - Highway Division Summary of Operating and Maintenance Expenditures Pioneer Valley Region - Part 1: Non-Federal Aid

as of May 20, 2016

Non Federal Aid Maintenance Projects - State Bondfunds

Program Group/Sub Group	Estimated SFY 2017 Expenditures	Estimated SFY 2018 Expenditures	Estimated SFY 2019 Expenditures	Estimated SFY 2020 Expenditures	Estimated SFY 2021 Expenditures
01 - Bridge Repair & Replacement					
New Bridge (Excluded)	n/a	n/a	n/a	n/a	n/a
Bridge Replacement (Excluded)	n/a	n/a	n/a	n/a	n/a
Bridge Reconstruction/Rehab	\$6,109,582	\$5,811,887	\$5,334,009	\$5,751,826	\$5,632,574
Drawbridge Maintenance	\$0	\$0	\$0	\$0	\$0
Structures Maintenance	\$50,446	\$59,617	\$51,192	\$53,752	\$54,854
02 - Bridge Painting					
Painting - Structural	\$0	\$0	\$0	\$0	\$0
03 - Roadway Reconstruction					
Hwy Relocation (Excluded)	n/a	n/a	n/a	n/a	n/a
Hwy Recon Added Capacity (Excluded)	n/a	n/a	n/a	n/a	n/a
New Construction (Excluded)	n/a	n/a	n/a	n/a	n/a
Hwy Reconstr - Restr and Rehab	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Hwy Reconstr - No Added Capacity					
Hwy Reconstr - Minor Widening Hwy Reconstr - Major Widening	\$15,135 \$0	\$7,674 \$0	\$7,603 \$0	\$10,137 \$0	\$8,471 \$0
04 - Roadway Resurfacing					
Resurfacing	\$3,364,056	\$4,485,408	\$3,170,661	\$3,673,375	\$3,776,481
05 - Intersection & Safety Impact Attenuators	\$0	\$0	\$0	\$0	\$0
Safety Improvements	\$0	\$0	\$0 \$0	\$0	\$0
Traffic Signals	\$2,797	\$3,730	\$2,176	\$2,901	\$2,935
06 - Signs & Lighting					
Electrical	\$2,241	\$747	\$996	\$1,328	\$1,024
Sign Installation / Upgrading	\$0	\$0	\$0	\$0	\$0
Structural Signing	\$0	\$0	\$0	\$0	\$0
07 - Guardrail Guard Rail and Fencing	\$0	\$0	\$0	\$0	\$0
08 - Maintenance					
Catch Basin Cleaning	\$0	\$0	\$0	\$0	\$0
Crack Sealing	\$0	\$0	\$0	\$0	\$0
Landscaping	\$0	\$0	\$0	\$0	\$0
Mowing and Spraying	\$0	\$0	\$0	\$0	\$0
Pavement Marking	\$0	\$0	\$0	\$0	\$0
Sewer and Water	\$1,273	\$424	\$566	\$755	\$582
Process/Recycle/Trnsprt Soils	\$0	\$0	\$0	\$0	\$0
Contract Hwy Maint.	\$0	\$0	\$0	\$0	\$0
09 - Facilities					
Chemical Storage Sheds	\$0	\$0	\$0	\$0	\$0
Vertical Construction	\$1,620,644	\$719,471	\$800,804	\$1,046,973	\$855,749
10 - Bikeways (Excluded)	n/a	n/a	n/a	n/a	n/a
11 - Other					
Demolition	\$1,946	\$2,447	\$1,464	\$1,953	\$1,955
Drilling & Boring	\$0	\$0	\$0	\$0	\$0
Highway Sweeping	\$0	\$0	\$0	\$0	\$0
Intelligent Transportation System	\$0	\$0	\$0	\$0	\$0
Marine Construction	\$0	\$0	\$0	\$0	\$0
Miscellaneous / No prequal	\$0	\$0	\$0	\$0	\$0
Reclamation	\$0	\$0	\$0	\$0	\$0
Underground Tank Removal Replace	\$0	\$0	\$0	\$0	\$0
Unknown	\$0	\$0	\$0	\$0	\$0
	\$0	\$0	\$0	\$0	\$0
Grand Total NFA:	\$11,168,121	\$11,091,405	\$9,369,471	\$10,542,999	\$10,334,625
	*	, , ,	1 1 - 1	,	, -,,-20

Massachusetts Department of Transportation - Highway Division Summary of Operating and Maintenance Expenditures Pioneer Valley Region - Part 2: Federal Aid

as of May 20, 2016

Federal Aid Maintenance Projects

	Estimated SFY 2017 Expenditures	Estimated SFY 2018 Expenditures	Estimated SFY 2019 Expenditures	Estimated SFY 2020 Expenditures	Estimated SFY 2021 Expenditures
01 - Bridge Repair & Replacement					
New Bridge (Excluded)	n/a	n/a	n/a	n/a	n/a
Bridge Replacement (Excluded)	n/a	n/a	n/a	n/a	n/a
Bridge Reconstruction/Rehab	\$11,766,434	\$14,189,816	\$15,020,673	\$13,658,974	\$14,289,82
Drawbridge Maintenance	\$0	\$0	\$0	\$0	\$(
Structures Maintenance	\$1,605,793	\$2,115,632	\$2,306,294	\$2,009,240	\$2,143,722
2 - Bridge Painting	\$0	\$0	\$0	\$0	ф
Painting - Structural		30	30	30	\$0
3 - Roadway Reconstruction					
Hwy Relocation (Excluded)	n/a	n/a	n/a	n/a	n/
Hwy Recon Added Capacity (Excluded)	n/a	n/a	n/a	n/a	n/
New Construction (Excluded)	n/a	n/a	n/a	n/a	n/
Hwy Reconstr - Restr and Rehab	\$316,198	\$148,988	\$156,795	\$207,327	\$171,03
Hwy Reconstr - No Added Capacity	\$2,104,701	\$1,201,849	\$1,151,196	\$1,485,915	\$1,279,653
Hwy Reconstr - Minor Widening	\$3,399,215	\$3,352,586	\$3,110,731	\$3,287,511	\$3,250,276
Hwy Reconstr - Major Widening	\$0	\$0	\$0	\$0 \$0	۱,2,0,2,رو \$(
11Wy Neconou - major wincining			30		31
-Roadway Resurfacing		***		******	
Resurfacing	\$13,666,518	\$13,154,628	\$12,539,076	\$13,120,074	\$12,937,926
5 - Intersection & Safety					
Impact Attenuators	\$0	\$0	\$0	\$0	\$1
Safety Improvements	\$0	\$0	\$0	\$0	\$
Traffic Signals	\$2,444,529	\$2,996,219	\$2,507,732	\$2,649,493	\$2,717,81
6 - Signs & Lighting	#E 000	#2.000	#2 200	\$4.297	#2.05°
Electrical	\$5,990	\$3,880	\$3,290	\$4,387	\$3,85
Sign Installation / Upgrading Structural Signing	\$133 \$1,927,444	\$178 \$1,815,334	\$104 \$2,139,263	\$138 \$1,960,680	\$140 \$1,971,759
7 - Guardrail Guard Rail and Fencing B - Maintenance	\$0	\$0	\$0	\$0	\$1
Catch Basin Cleaning	\$0	\$0	\$0	\$0	\$0
	\$0	\$0	\$0	\$0	پ اع
Contract Highway Maintenance					
Crack Sealing	\$0	\$0	\$0	\$0	\$1
Landscaping	\$201,931	\$269,241	\$358,989	\$276,720	\$301,65
Mowing and Spraying	\$0	\$0	\$0	\$0	\$1
Pavement Marking	\$0	\$0	\$0	\$0	\$
	\$0	\$0	\$0	\$0	\$
Process/Recycle/Trnsport Soils			\$0	\$0	\$
Process/Recycle/Trnsport Soils Sewer and Water	\$0	\$0			
Sewer and Water	\$0	\$0			
Sewer and Water 9 - Facilities					
Sewer and Water 9 - Facilities Chemical Storage Sheds	\$0	\$0	\$0	\$0 *0	\$
Sewer and Water 9 - Facilities				\$0 \$0	\$(
Sewer and Water 9 - Facilities Chemical Storage Sheds Vertical Construction	\$0	\$0	\$0		\$(\$1
Sewer and Water 9 - Facilities Chemical Storage Sheds Vertical Construction 0 - Bikeways (Excluded) 1 - Other	\$0 \$0 n/a	\$0 \$0 n/a	\$0 \$0 n/a	\$0 n/a	\$ \$!
Sewer and Water 9 - Facilities Chemical Storage Sheds Vertical Construction 0 - Bikeways (Excluded) 1 - Other Demolition	\$0 \$0 n/a \$0	\$0 \$0 <i>n/a</i> \$0	\$0 \$0 n/a \$0	\$0 <i>n/a</i> \$0	\$ \$!//e
Sewer and Water 9 - Facilities Chemical Storage Sheds Vertical Construction 0 - Bikeways (Excluded) 1 - Other	\$0 \$0 n/a \$0	\$0 \$0 n/a \$0	\$0 \$0 n/a \$0	\$0 n/a \$0 \$0	\$ \$ 7/e
Sewer and Water 9 - Facilities Chemical Storage Sheds Vertical Construction 0 - Bikeways (Excluded) 1 - Other Demolition	\$0 \$0 n/a \$0	\$0 \$0 <i>n/a</i> \$0	\$0 \$0 n/a \$0	\$0 <i>n/a</i> \$0	\$ \$ IV-6
Sewer and Water 9 - Facilities Chemical Storage Sheds Vertical Construction D - Bikeways (Excluded) 1 - Other Demolition Drilling & Boring Highway Sweeping	\$0 \$0 n/a \$0	\$0 \$0 n/a \$0	\$0 \$0 n/a \$0	\$0 n/a \$0 \$0	\$ \$ //3
Sewer and Water 9 - Facilities Chemical Storage Sheds Vertical Construction 0 - Bikeways (Excluded) 1 - Other Demolition Drilling & Boring Highway Sweeping Intelligent Transportation System	\$0 \$0 n/a \$0 \$0 \$0 \$2 \$2 \$42,646	\$0 \$0 *********************************	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$31,844	\$0 n/a \$0 \$0 \$0 \$410,289	\$ \$ 7/4 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Sewer and Water 9 - Facilities Chemical Storage Sheds Vertical Construction 9 - Bikeways (Excluded) 1 - Other Demolition Drilling & Boring Highway Sweeping Intelligent Transportation System Marine Construction	\$0 \$0 N/a \$0 \$0 \$0 \$422,646	\$0 \$0 *********************************	\$0 \$0 *********************************	\$0 n/a \$0 \$0 \$0 \$10,289 \$0	7/4 \$ \$ \$ \$406,17
Sewer and Water 9 - Facilities Chemical Storage Sheds Vertical Construction 0 - Bikeways (Excluded) 1 - Other Demolition Drilling & Boring Highway Sweeping Intelligent Transportation System Marine Construction Miscellaneous / No prequal	\$0 \$0 *********************************	\$0 \$0 *********************************	\$0 \$0 *********************************	\$0 //a \$0 \$0 \$0 \$0 \$10,289 \$0 \$50 \$410,289 \$50 \$50	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Sewer and Water 9 - Facilities Chemical Storage Sheds Vertical Construction 0 - Bikeways (Excluded) 1 - Other Demolition Drilling 8 Boring Highway Sweeping Intelligent Transportation System Marine Construction Miscellaneous / No prequal Reclamation	\$0 \$0 n/a \$0 \$0 \$0 \$0 \$2,646 \$0 \$0 \$2,646 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 *********************************	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$31,844 \$0 \$0 \$0	\$0 n/a \$0 \$0 \$0 \$410,289 \$0 \$0 \$0	\$ \$ \$ 7/3 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Sewer and Water 9 - Facilities Chemical Storage Sheds Vertical Construction 0 - Bikeways (Excluded) 1 - Other Demolition Drilling & Boring Highway Sweeping Intelligent Transportation System Marine Construction Miscellaneous / No pregual Reclamation Underground Tank Removal Replace	\$0 \$0 *********************************	\$0 \$0 *********************************	\$0 \$0 *********************************	\$0 //a \$0 \$0 \$0 \$10,289 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Sewer and Water 9 - Facilities Chemical Storage Sheds Vertical Construction 0 - Bikeways (Excluded) 1 - Other Demolition Drilling & Boring Highway Sweeping Intelligent Transportation System Marine Construction Miscellaneous / No prequal Reclamation	\$0 \$0 n/a \$0 \$0 \$0 \$0 \$2,646 \$0 \$0 \$2,646 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 *********************************	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$31,844 \$0 \$0 \$0	\$0 n/a \$0 \$0 \$0 \$410,289 \$0 \$0 \$0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Sewer and Water 99 - Facilities Chemical Storage Sheds Vertical Construction 10 - Bikeways (Excluded) 11 - Other Demolition Drilling & Boring Highway Sweeping Intelligent Transportation System Marine Construction Miscellaneous / No prequal Reclamation Underground Tank Removal Replace	\$0 \$0 *********************************	\$0 \$0 *********************************	\$0 \$0 *********************************	\$0 //a \$0 \$0 \$0 \$10,289 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$1 \$1 \$1 \$1 \$3 \$40,17 \$1 \$3 \$3 \$40,473.82

Appendices _______ 123

APPENDIX C: 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 16 list agencies with transportation interest in the Metropolitan Planning Area (MPA) that were contacted for the purpose of consultation while developing the TIP. Table 17 lists the agencies from table 16 which responded and coordinated meetings were held during TIP development.

Table 24: Agencies Contacted

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

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

Appendices ________ 125

Table 25: Agencies Providing Consultation)

FHWA	Cambridge
MassDOT-OTP	Boston
PVTA	Springfield
Columbia Greenways Rail Trail Committee	Westfield

APPENDIX D: FAST Act Performance Management Information

The FHWA and FTA are jointly issuing this final rule to update the regulations governing the development of metropolitan transportation plans (MTP) and programs for urbanized areas, 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 accomplishes these requirements 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 criteria. The TEC criteria is mainly based of PVPC various data driven process which include Pavement, Congestion, Safety as well as other readilty available data.

Fast Act Planning Factors Relationship to the Transportation Evaluation Critieria (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

 $[\]frac{^2 \text{ https://www.federalregister.gov/articles/} 2016/05/27/2016-11964/statewide-and-nonmetropolitan-transportation-planning-metropolitan-transportation-planning\#h-9}{\text{metropolitan-transportation-planning\#h-9}}$

Appendices _______ 127

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
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