

TRANSPORTATION IMPROVEMENT PROGRAM (TIP)

2016 - 2019

FOR THE
METROPOLITAN PLANNING ORGANIZATION
PIONEER VALLEY REGION,
MASSACHUSETTS

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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 2016-2019 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 2016-2019 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 2016 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 2016. Funding targets for the Pioneer Valley Region have been issued by MassDOT identifying potential resources for each year of the TIP.



I.GENERAL SUPPORT INFORMATION

INTRODUCTION

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

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

The Pioneer Valley TIP is a four-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

MAP-21, the Moving Ahead for Progress in the 21st Century Act (P.L. 112-141), was signed into law on July 6, 2012. Funding surface transportation programs at over \$105 billion for fiscal years (FY) 2013 and 2014, MAP-21 replaces SAFTEA-LU which was enacted in 2005. The 8 planning factors defined in SAFTEA-LU have been carried over into MAP-21. The eight 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.

MAP-21 is a milestone for the U.S. economy and the Nation’s surface transportation program. By transforming the policy and programmatic framework for investments to guide the system’s growth and development, MAP-21 creates a streamlined and performance-based surface transportation program and builds on many of the highway, transit, bike, and pedestrian programs and policies established in 1991.¹ (See Appendix E for additional information)

MAP-21 Performance Measures:

¹ <http://www.fhwa.dot.gov/map21/>

- Pavement conditions on the Interstate System and on remainder of the National Highway System (NHS)
- Performance of the Interstate System and the remainder of the NHS
- Bridge condition on the NHS
- Fatalities and serious injuries-both number and rate per vehicle mile traveled-on all public roads
- Traffic congestion
- On-road mobile source emissions
- Freight movement on the Interstate System

PVPC is in the process of developing regional performance measures based on the MAP -21, once implemented the PVMPO TIP along with the PVPC's Transportation Evaluation Criteria (TEC) which are based on the 8 planning factors of MAP-21 will be key tools used to measure the performance of project implementation in the Pioneer Valley.

All projects in the TIP come from the soon to be endorsed 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 2016 through 2019 (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 2016-2019 TIP is only required for Carbon monoxide. Further details and background information are provided on page 113.

DEVELOPMENT OF THE TIP

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 Tinlin	Administrator of the Massachusetts Department of Transportation Highway Division
Walter Gunn	Chairman of the Pioneer Valley Executive Committee
John Musante	Chairman of the Pioneer Valley Transit Authority Advisory Board
Mayor Domenic Sarno	Mayor of Springfield
Mayor Alexander Morse	Mayor of Holyoke
Mayor Richard Cohen	Mayor of Agawam
Mayor David Narkewicz	Mayor of Northampton
George Archibie	Belchertown Board of Selectmen
Marcus Boyle	Hatfield Board of Selectmen

Alternates

Mayor Richard Kos	Mayor of Chicopee
Mayor Daniel M. Knapik	Mayor of Westfield

Vacant	Hadley Board of Selectmen
Vacant	Palmer Town Council
Vacant	Huntington Board of Selectmen

Ex-Officio

Pamela Stephenson	Federal Highway Administration (non-voting member)
Mary Beth Mello	Federal Transit Administration (non-voting member)
Steven Roberts	Economic Development Council of Western Massachusetts (non-voting member)
Mary MacInnes	Administrator of the Pioneer Valley Transit Authority (non-voting member)
James Czach	Chairman – Pioneer Valley Joint Transportation Committee (non-voting member)

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.
- 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.

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
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
In a Congestion Management Process Area	Reduces auto-dependency	Reduces traffic congestion	Provides services to a TOD, TND or cluster	Improves emergency response	Reduced impervious surfaces	Improves access to jobs	Creates an EJ Burden
	5	2	7	0.5	4	0.5	-5
	Project serves a targeted development site		Supports mixed-use downtowns and village centers		Protects or enhances environmental assets	Preserves historical and cultural resources	
	2		0.5		0.5	0.5	
	Completes off-road bike and ped network	3	Improves Intermodal Connections	4	Supports Brownfield redevelopment	Preserves prime agricultural land	
			Reduces congestion on freight routes	2	Improve air quality	Provides safe and reliable access to education	
				1	Reduces CO2 emissions	Supports designated scenic byways	
					1	0.5	
					1	2	Implements ITS Strategies
					1	1	Improves fish and wildlife passage
					0.5	1	Improves Network Wayfinding
					1	1	Health Impact Assessment
					0.5	1	
					3		Improves storm resilience
Maximum Score	19	12	17	10	16	12	10
							3

PROJECT INITIATION

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

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

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

The initiative is a comprehensive response to a range of state and MassDOT laws, policies and initiatives including: the Global Warming Solutions Act, the Green Communities Act, the Healthy Transportation Compact, Leading by Example, YouMoveMassachusetts, and Complete Streets. The Global Warming Solutions Act requires Massachusetts to reduce economy wide GHG emissions: 10% -25% below 1990 levels by 2020 and an 80% reduction below 1990 levels by 2050. The transportation sector is the largest GHG emitter, producing 31% of 1990 emissions and

projected to produce 38% of 2020 emissions. GreenDOT also incorporates a statewide mode shift goal to triple the percentage of trips made by bicycling, transit and walking.

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

Table 1 Integration of GreenDOT Goals into TIP

Policy/Planning - Design a Multi-Modal Transportation System, Triple Mode Share of Bicycling, Transit, and Walking, & Promote Healthy Transportation and Livable Communities	
Associated Strategy	RTP/TEC Integration
Providing secure and/or covered bicycle parking and shared used paths	Projects are eligible to receive up to 12 points for bicycle and pedestrian improvements in the "Livability" category. Projects receive 1 point for providing bicycle amenities such as bicycle parking.
Improving access to transit and other vital community services	Projects are eligible to receive up to 4 points by improving access to transit.
Designing complete street projects with municipalities	Complete Streets consistency is worth up to 3 points.
Encouraging Safe Routes to Schools projects	Projects that provide safe and reliable access to education receive 0.5 point.
Incorporating public health impacts in the transportation planning process	Projects that complete a Health Impact Assessment will receive 1 point.
Coordinating on regional and statewide bicycle and pedestrian planning efforts.	Many "Livability" subcategories in the TEC support regional and statewide bicycle and pedestrian planning efforts.
Supporting Bike Share programs locally and regionally.	Projects can receive 2 points for being part of a locally adopted Bike Share Program.
Prioritizing critical pedestrian and bicycle network gaps, i.e. Bay State Greenway	Critical Gaps are identified as part of PVPC's Regional Bicycle Linkages Map. Projects that provide connections to regional bikeways/walkways receive 1 point.
Improving bicycle and pedestrian counts	PVPC collects bicycle and pedestrian movements as part of all intersection turning movement counts.
Air - Reduce Greenhouse Gas Emissions & Improve Air Quality	
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 transit route efficiency.
Promoting anti-idling policies and educational outreach	Not specifically addressed in the TEC but included as a Need in the RTP

Table 1 Integration of GreenDOT Goals into the TIP (cont.)

Energy - Consume Less Energy & Increase Reliance on Renewable Energy	
Associated Strategy	RTP/TEC Integration
Evaluating outdoor lighting and traffic signal systems, and retrofitting where feasible	Upgrades to traffic signal equipment can be worth up to 6 points.
Planning for the implementation of energy efficient measures and renewable energy projects	The RTP incorporates strategies from the Pioneer Valley Clean Energy Plan.
Land - Minimize Energy and Chemicals Used in 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 Investments & 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 Program (STP) - This program is for the maintenance and construction of the federal aid system, all roads other than those functionally classified as local or rural minor collectors. Funds may also be flexed for use on bridge, transit capital, and bike or trail facilities. A minimum amount of 10 percent must be set aside for both safety construction activities and for transportation enhancements. The remaining STP balance is for use throughout the state. 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 where the project is located. Funding: federal - 80%, state – 20%

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

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

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

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

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 purchase 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 2016-2019 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 1 Transportation Operating and Maintenance Expenditures

Total Available for Programming in the Pioneer Valley RTP	2012 - 2016	2017 - 2021	2022 - 2026	2027 - 2031	2032-2036	GRAND TOTAL
	Total	Total	Total	Total	Total	Total
	\$513,004,750	\$460,033,250	\$559,457,000	\$682,197,000	\$790,754,000	\$3,005,446,000
Major Infrastructure Projects	\$17,593,000	\$23,645,000	\$35,722,000	\$43,648,000	\$50,600,000	\$171,208,000
Federal Aid Bridge Projects	\$83,520,000	\$92,020,000	\$137,690,000	\$167,964,000	\$194,716,000	\$675,910,000
**NHS/IM Projects/NHPP	**\$267,222,000	**\$56,792,000	\$71,737,000	\$87,557,000	\$101,503,000	\$260,797,000
Statewide Maintenance	\$116,673,000	\$119,016,000	\$144,834,000	\$170,450,000	\$197,499,000	\$748,472,000
Regional Discretionary Funding	\$76,903,000	\$119,654,000	\$169,474,000	\$212,578,000	\$246,436,000	\$825,045,000
Total of Regional Discretionary and Major Infrastructure	\$94,496,000	\$143,299,000	\$205,196,000	\$256,226,000	\$297,036,000	\$996,253,000

**Includes \$231,625,000 for I-91 Viaduct, project will be funded from FFY 2014 to FFY 2017

Source: Regional Transportation Plan, updated 2012

Table 2 Transit Operating and Maintenance Expenditures

	2012-2016	2017-2021	2022-2026	2027-2031	2032-2036	TOTAL
State Contract Assistance	\$86,740,473	\$82,703,345	\$82,703,345	\$99,244,014	\$82,703,345	\$434,094,522
Local Assessments	\$36,233,817	\$40,995,238	\$46,382,349	\$52,477,371	\$59,373,329	\$235,462,104
5307 Federal Urbanized Area Formula	\$60,423,930	\$70,047,895	\$81,204,709	\$94,138,514	\$109,132,338	\$414,947,386
5310 Federal Elderly & Disabled	\$2,241,520	\$2,596,747	\$3,005,991	\$3,481,331	\$4,032,407	\$15,357,996
5311 Federal InterCity Bus Program	\$3,832,915	\$4,440,550	\$5,143,370	\$5,958,004	\$6,902,350	\$26,277,189
5316 Federal JARC Program	\$1,875,643	\$2,166,000	\$2,496,000	\$2,878,000	\$3,322,000	\$12,737,643
5317 Federal New Freedom Program	\$1,243,108	\$1,435,000	\$1,651,000	\$1,901,000	\$2,193,000	\$8,423,108
Farebox	\$34,140,525	\$38,626,871	\$43,702,759	\$49,445,660	\$55,943,226	\$221,859,040
Advertising, other revenue	\$5,525,631	\$7,052,261	\$9,000,671	\$11,487,391	\$14,661,145	\$47,727,099
Available for Programming in Pioneer Valley RTP	\$232,257,563	\$250,063,907	\$275,290,194	\$321,011,284	\$338,263,139	\$1,416,886,088

	2012-2016	2017-2021	2022-2026	2027-2031	2032-2036	TOTAL
RTACAP & RTAFCAP Programs	\$11,412,595	\$14,864,628	\$16,351,091	\$17,986,200	\$19,784,821	\$80,399,336
RTA Fleet Acquisition Program	\$0	\$545,292	\$749,777	\$824,754	\$907,230	\$3,027,052
ITC CAP Program	\$600,000	\$0	\$0	\$0	\$0	\$600,000
Federal matching grants (80% of proj)	\$48,050,380	\$61,639,682	\$68,403,471	\$75,243,818	\$82,768,200	\$336,105,552
TOTAL Transit Capital Funds						
Available for Programming in Pioneer Valley RTP	\$60,062,975	\$77,049,602	\$85,504,339	\$94,054,773	\$103,460,250	\$420,131,940

Source: Regional Transportation Plan, updated 2012

II. PUBLIC PARTICIPATION SUMMARY AND CHANGES

The DRAFT FFY 2016-2019 TIP underwent a public review and comment period consistent with the Pioneer Valley Metropolitan Planning Organizations Public Participation Process. This began May 22, 2015 and continued until June 20, 2015. 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.

Comment By	Project	Comment	Date Received	Action Taken
Ed Miga - Director Wilbraham Public Works	605618	<p>The Towns of Ludlow and Wilbraham jointly own a Bridge(L-16-002-W-35-002) that crosses over the Chicopee river. This Bridge is currently closed to traffic because of structural failure. We currently have this Bridge at 90% design. It was on a bid list in 2014 and was taken off this list by the project review committee and put on a 2020 bid list. Now that it is closed we are looking to expedite the work and get it reopened. This bridge serves Palmer as well as Ludlow and Wilbraham.</p> <p>DPW Director Gaucher from Ludlow recently attended a MPO meeting where you indicated that PVPC was looking for projects that were at 75% or better to fund. If our project could qualify we would like to sit with you to discuss how we could move the project. Our consultant estimates the proposed work would cost \$1.9 million dollars.</p> <p>We have been pursuing the political route but have not been very successful. If there is some advice you can offer it certainly would be appreciated. Thanks. Ed</p>	May 28, 2015	Project was included in most recent MassDOT bridge list for FFY2016 funding. Responded to Wilbraham informing them of the project status
MassDOT – OTP	607735	Add SOUTH HADLEY- SIGNAL & INTERSECTION IMPROVEMENTS AT ROUTE 202 (GRANBY ROAD) & ROUTE 33 (LYMAN STREET) to FFY 2016 (statewide HSIP)	May 29, 2015	Project Added to Section 1D
Joseph D. Giffune President Mechanical Drive Components, Inc. 317 Meadow St. Unit 6A Chicopee, MA 01013	Columbia Greenways Rail Trail	<p>I am contacting you to urge your continued support for the two projects that will complete the Columbia Greenway Rail Trail through Westfield, MA.</p> <p>As you know, this section of trail will be the northern terminus of an extensive trail system – beginning at the Yale New Haven campus and continuing north through the Farmington Valley into Southwick, MA before entering Westfield. It will be one of only a handful of elevated trail systems in the US and will surely bring visitors because of its unique interstate aspect as well as its elevated design. To that point, I met a cyclist on Sunday, June 14, who was having breakfast with a group of cyclists at “The Good Table” in Westfield. This group was from Simsbury, CT, but this individual had come from Poughkeepsie, NY. He was an avid cyclist who made trips to check out trails around the region. As you may know, the rail trail in Poughkeepsie that</p>	June 18, 2015	Comments Noted

		<p>crosses the Hudson River has been a truly stunning success. It was built with anticipation of 250,000 users per year and is currently experiencing over 1,000,000 visitors per year. Over 20 new businesses have started around the trail to provide services to these visitors. While Westfield's trail will not have the unusual draw that this project has, there will be a positive economic impact from having this trail completed. Based on my experience with the number of trail users that are now entering the downtown area with the completion of last year's section, I believe we are seeing that impact already. Completion of the project will significantly increase this activity to the benefit of the Westfield business community.</p> <p>In addition to the recreational aspect of the trail, the utilitarian uses cannot be underestimated. This trail connects a significant number of neighborhoods in the more rural southern section of town with the core business district. This is already leading to an encouraging number of trail "commuters". These are people that are leaving their cars behind to run errands "in town". This will inevitably increase as residents become more aware of the trail and, importantly, as the <u>entire</u> trail is completed. From a traffic mitigation standpoint, this is certainly a benefit to the community.</p> <p>In the sections under consideration, there are a great deal of households that would benefit greatly from having this trail system in place in order for them to enjoy a greater quality of life. Over 20% of households in the neighborhood surrounding the Central Section do not own a vehicle. The ability to access this trail to go about their daily lives is a critical aspect of the project. This trail would connect them to town services in a way that is simply not possible on the surface streets. From this perspective, it would seem that this project should take on a nature of urgency.</p> <p>Thank you for your consideration of this project and the completion of a unique and necessary improvement to the Westfield community.</p>		
Vanessa H. Diana 112 Park Drive Westfield, MA	Columbia Greenways Rail Trail / Western	As a Westfield resident and parent who lives in the Western Ave. neighborhood and hopes to see revitalization of downtown Westfield and improvement of our community's health and cohesion, I encourage you to support completion of the North and Central sections of the rail	June 18, 2015	Comments Noted

01085	Ave	<p>trail as well as creation of a dedicated and protected bicycle lane on Western Ave.</p> <p>The excitement in this community over the Columbia Greenway project is palpable; please keep the momentum going as we expand access to safe and healthy outdoor recreation in our community and give people a reason to visit downtown Westfield.</p> <p>As for Western Avenue, the two recent bicycle-related fatalities are certainly enough proof that we currently have a very dangerous situation in this busy section of the community that sees heavy bike, auto, and pedestrian traffic related to Stanley Park, Westfield State University, and commuter access to hilltown communities and route 20 West.</p> <p>Thank you for supporting these important improvements to Westfield.</p>		
Pati Mari Chair - Friends of the Southampton Greenway	Columbia Greenways Rail Trail / Western Ave	<p>I am writing this morning to ask you to support the following trail systems in Westfield:</p> <ul style="list-style-type: none"> * <i>Columbia Greenway North</i> * <i>Columbia Greenway Central Section, and</i> * <i>Western Avenue (Phases I & II)</i> <p>Over the past few years I have watched Westfield transform from a sleepy town with no future to a town that is beginning to take it's place in the 21st century.</p> <p>The bike paths are a big part of that transition as they connect vital parts of the town and bring the community together, as well as bring more visitors to the area.</p> <p>I hope you will support these last pieces of the trail and the recommendations of the Columbia Greenway Committee.</p>	June 19, 2015	Comment Noted
Chris Steger Westfield, MA	Columbia Greenways Rail Trail / Western Ave	<p>I am writing to support the inclusion of several Westfield, MA projects into the TIP. Specifically, the Columbia Greenway North and Central Sections and improving Western Ave. (Phases I & II). As a bicyclist who uses the current trail I have seen the vast improvement in transportation, particularly separating cars and bikes/pedestrians, in Westfield. In addition, Greenway users are providing a economic impact by getting off the trail to purchase items in downtown</p>	June 19, 2015	Comment Noted

		<p>Westfield. Having the trail complete will help make the Pioneer Valley a destination for users of trails.</p> <p>Living near Western Ave. I see the dire need to better separate vehicles and bikes and funding Phases I & II will make the road vastly safer for the many bicycles who ride on that road. Please include these important projects in the TIP planning</p>		
Jeffrey J. LaValley Westfield, MA	Columbia Greenways Rail Trail / Western Ave	<p>This email comes to express my support for the inclusion of several projects planned for the City of Westfield, MA included on the 2016 TIP.</p> <p>Reference is made to (1) the Columbia Greenway North and (2) the Columbia Greenway Central sections, as well as to reconstruction of (3) Western Avenue (Phases I & II).</p> <p>As you are likely already aware the progress to date on the Columbia Greenway Rail Trail has been significant. Moreover, usage of the trail has exceeded original estimates, directly impacting the local economy, as well as having such indirect benefits for promoting healthy and active lifestyles and creating a sense of community and connectedness.</p> <p>Additionally, the trail is helping to transform the downtown (businesses), contributing to an ever growing vibrant local economy. With regard to Western Avenue, this being one of only two east-west corridors in/out of the City, it is vital to provide a modern roadway conforming to current MassDOT/GreenDOT standard, by including a protected/dedicated bicycle lane. The current plans vastly improve accommodations for pedestrians and bicyclists, while addressing the needs of motorists. In the long term, the reconstruction of Western Avenue will not only improve conditions for local residents, but those for many important organizations along the route, including Westfield State University, Stanley Park, the YMCA, Noble Hospital to name a few. The users and constituents of these organizations have longed for and deserve access to safe, viable, alternative transportation routes.</p> <p>I wish to offer my support of these important projects. Your favorable vote and inclusion on the 2016 TIP is paramount. Thank you for consideration of such a request.</p>	June 19, 2015	Comment Noted
martha	Columbia	I am a lifelong resident of Westfield and totally support the Columbia	June 19,	Comment Noted

sienkiewicz	Greenways Rail Trail / Western Ave	<p>Greenway project and especially the Western Ave. renovation for a bicycle lane.</p> <p>I am excited to see the bridge work on East Silver St. I grew up on State St. and remember as a kid walking to the intermediate school over the tracks at the bottom of Taylor Ave. I sincerely believe that the completion of the Northern and Central portions of the Greenway will be a terrific benefit to Westfield. We host a great many college students and the community itself is health conscious. This wonderful railtrail will certainly raise fitness awareness for us all.</p> <p>As for the Western Ave. project....I teach at the college and so many times see students trying to bike or run the length of Western Ave. dangerously crossing the street where the sidewalk fails or running/biking the sidewalk which is narrow and rutted. I myself have often biked to the college, using the sidewalk because the road is simply too dangerous. But the sidewalk on the college side (north) is not continuous and bikers then must use the narrow road. This city is host to a wonderful university that is part of the state system. Because of this, we need to make students feel safe and welcome. A bike extension which leads to the Greenway would certainly go a long way toward that goal.</p>	2015	
Bob Pac Friends of the Columbia Greenway Rail Trail	Columbia Greenways Rail Trail	Continued financial commitment to the Columbia Greenway Rail Trail in the TIPS is required to complete construction of a financial / cultural asset in Westfield. Last year 80,000 crossed the CT/MA border heading into Southwick. To attract these cyclists (read \$) to the Pioneer Valley, the Columbia Greenway must be completed. Your continued support is critical.	June 20, 2015	Comment Noted
Derrick Mason, President, Jacobs Ladder Business Association	Columbia Greenways Rail Trail	I am writing in support of all the Columbia Greenway projects now under consideration. Our region, our communities, our economies need these projects to be completed.	June 20, 2015	Comment Noted
MassDOT District 2	605385	Move 605385 SPRINGFIELD-SIGNAL & INTERSECTION IMPROVEMENTS @ ROOSEVELT AVENUE & ISLAND POND ROAD, ROOSEVELT AVENUE & ALDEN STREET = \$1,080,992 (HSIP) Re: 605385 YOE is \$2,297,372, not \$2,972,372, Project is not	June 22, 2015	Funds moved

		funded with STP funds, only CMAQ RSA will be completed in mid-July		
MassDOT District 2	608022	Change Description: BRIMFIELD - STURBRIDGE -RESURFACING & RELATED WORK ON ROUTE 20, FROM ROUTE 19 (MM 87.8) TO OLD STREETER ROAD (MM 92.1) COST INCREASE ADD \$482,134 TO STP NEW TOTAL = \$3,982,134 STP	June 22, 2015	Comment Noted
MassDOT District 2	608023	ADD 608023 AMHERST – HADLEY SIDEWALK & WHEELCHAIR RAMP CONSTRUCTION ON ROUTE 9 from FFY2015 to FFY 2016- \$1.3M (CMAQ)	June 22, 2015	Comment Noted
MassDOT District 2	608252	Assigned New #608252 (old #605618), Ludlow-Wilbraham-Bridge Rehabilitation, L-16-002=W-35-002, East St over the Chicopee River. This project is included on the OTP "Federal Aid Bridge Program" List, funded as follows: Total Programmed Funds: \$1,000,000 Federal Funds: \$800,000 Non-Federal Funds: \$200,000	June 22, 2015	Updated
MassDOT District 2	607524	Project design is at 25%, not Pre-25% ADJUST PRICE TO \$1M	June 22, 2015	Updated
MassDOT District 2	607735	Project #607735, South Hadley - Signal & Intersection Improvements at Route 202 (Granby Road) & Route 33 (Lyman Street) is missing. It is included on the FFY2016 "Highway Safety Improvement Program" list from OTP. Funding is as follows: Total Programmed Funds: \$550,000 Federal Funds: \$495,000 Non-Federal Funds: \$55,000	June 22, 2015	Updated
MassDOT District 2	603477	Re: 603477 Federal Funds should be \$2,840,978 Design status should be 25%, not Pre-25%	June 22, 2015	Updated
MassDOT District 2	606577	Re: 606577 Funding Source should be NHPP not IM Design status should be 75%, not Pre-25%	June 22, 2015	Updated
MassDOT District 2	607182	Re: 607182 This project is not within Pioneer Valley; it should be removed from Section 1D	June 22, 2015	Updated
MassDOT District 2	607731	Re: 607731 Project has been advertised	June 22, 2015	Updated
MassDOT District 2	607453	Re: 607453 Design status is 75% Federal Funds should be \$665,600 not \$661,651 Non-Federal Funds should be \$166,400 not \$165,413	June 22, 2015	Updated
MassDOT District 2		ADD 606903 HOLYOKE - IMPROVEMENTS TO LOWER WESTFIELD ROAD ON I-91 (INTERCHANGE 15) - \$781,983 (STP)	June 22, 2015	Comment Noted

MassDOT District 2	180525 / 608236	Re: 180525 New Project File number 608236 should be used Re: 180525 (608236) - project is not funded with HSIP funds Re: 180525 (608236) - updated Project Description should be: NORTHAMPTON- RECCTION OF DAMON ROAD, FROM ROUTE 9 TO ROUTE 5, IONSTRUNCLUES DRAINAGE SYSTEM REPAIRS & SLOPE STABILIZATION AT THE NORWOTTUCK RAIL TRAIL	June 22, 2015	Updated
MassDOT District 2	608253	ADD 608253 PALMER - RESURFACING AND RELATED WORK ON ROUTE 67, FROM 0.3 MILES EAST OF ROUTE 20 TO THE WARREN T.L. (5 MILES) \$3,757,800 (STP)	June 22, 2015	Comment Noted
MassDOT District 2	605011	ADD 605011 LUDLOW - RECONSTRUCTION OF CENTER STREET (ROUTE 21) - FROM 35' WEST OF BEACHSIDE DRIVE WESTERLY TO GAS LINE BESIDE MTA OVERPASS (3,500 FEET) - USE UNPROGRAMMED TAP FUNDS - \$615,889	June 22, 2015	Funding Moved
MassDOT District 2	607528	Re: 607528 Federal Funds should be \$2,203,232 Non-Federal Funds should be \$550,808 Total Programmed Funds should be \$2,754,040	June 22, 2015	Updated
MassDOT District 2	603449	Re: 603449 Design status is 25%, not Pre-25% Total Programmed Funds shown are \$2,702,868 but under "Additional Information" it shows \$2,503,688 Total with Match.	June 22, 2015	Updated to Match Earmark
MassDOT District 2	606450	Re: 606450 Federal funds should be \$1,251,894 Non-Federal funds should be \$312,973	June 22, 2015	Updated
MassDOT District 2	606555	Re: 606555 Amount shown (\$2,874,896) under Additional Information does not match Total Programmed Funds of \$2,989,892	June 22, 2015	Updated
MassDOT District 2	602911	Re: 602911 Amount shown (\$3,261,288) under Additional Information does not match Total Programmed Funds of \$3,902,850	June 22, 2015	Updated
MassDOT District 2	607736	Re: 607736 Total Programmed funds should be \$4,100,000 Federal Funds should be \$3,690,000 Non-Federal funds should be \$410,000	June 22, 2015	Updated
MassDOT District 2	607731	Re: 607731 Project has been advertised	June 22, 2015	Updated
MassDOT District 2	607474	Re: 607474 Per OTP list, this project should be listed in 2018 (which it is); this listing in 2017 appears to be a duplicate.	June 22, 2015	Project Removed per MassDOT List
MassDOT District 2	607502	Re: 607502 Amount shown (\$1,829,128) under Additional Information does not match Total Programmed Funds of \$1,763,802	June 22, 2015	Updated

MassDOT District 2	604597	Re: 604597 Amount shown (\$6,720,000) under Additional Information does not match Total Programmed Funds of \$6,480,000	June 22, 2015	Updated
MassDOT District 2	604434	Re: 604434 Amount shown (\$6,955,200) under Additional Information does not match Total Programmed Funds of \$6,706,800	June 22, 2015	Updated
MassDOT District 2	607430	Re: 607430 Amount shown (\$2,478,941) under Additional Information does not match Total Programmed Funds of \$2,390,407	June 22, 2015	Updated
MassDOT District 2	604597	Re: 604597 Amount shown (\$6,720,000) under Additional Information does not match Total Programmed Funds of \$6,480,000	June 22, 2015	Updated
MassDOT District 2	607502	Re: 607502 Amount shown (\$1,829,128) under Additional Information does not match Total Programmed Funds of \$1,763,802	June 22, 2015	Updated
MassDOT District 2	604597	Re: 604597 Amount shown (\$6,720,000) under Additional Information does not match Total Programmed Funds of \$6,480,000	June 22, 2015	Updated
MassDOT District 2	600936	600936, Holyoke - Bridge Replacement, H-21-018, Lyman Street over First Level Canal (per OTP 2018 FA Bridge Program List). Funding is as follows: Total Programmed Funds: \$14,002,570 Federal Funds: \$11,202,056 Non-Federal Funds: \$2,800,514	June 22, 2015	Bridge Project Added Per MassDOT List
MassDOT District 2	607589	Re: 607589 Project Description is cut off	June 22, 2015	Updated
MassDOT District 2	602912	Re: 602912 Design status is 25%, not pre-25%	June 22, 2015	Updated
MassDOT District 2	602912	Re: 602912 Amount shown (\$2,273,911) under Additional Information does not match Total Programmed Funds of \$3,947,840	June 22, 2015	Updated
MassDOT District 2	607560	Re: 607560 Might want to show total of \$12,961,555 under Additional Information (NHPP + STP-TE funds)	June 22, 2015	Updated
MassDOT District 2	607474	Re: 607474 Amount shown (\$1,712,794) under Additional Information does not match Total Programmed Funds of \$1,988,054	June 22, 2015	Updated
MassDOT District 2	607560	Re: 607560 Might want to show total of \$12,961,555 under Additional Information (NHPP + STP-TE funds)	June 22, 2015	Updated
MassDOT District 2	607560	Re: 607560 Funding source should be STP-TE	June 22, 2015	Updated
MassDOT District 2	606552	Missing Project File #606552, Northampton - Bridge Reconstruction, N-19-059, I-91 over US 5/BMRR & N-19-060, I-91 over Hockanum Road (per OTP 2019 Federal Aid Bridge Program List). NHPP Funding is as follows: Total Programmed Funds: \$29,536,000 Federal Funds: \$23,628,800 Non-Federal Funds: \$5,907,200	June 22, 2015	Bridge Project Added Per MassDOT List
MassDOT	608211	Re: 602811 Project File # should be 608211	June 22,	Updated

District 2			2015	
MassDOT District 2	603477	MassDOT District 2 – recommends committing the \$482,134 originally proposed to be added to Brimfield / Sturbridge 608022 instead be applied to 603477 Southwick Intersections Feeding Hills Road. 603477 is currently listed at \$3,551,223 with SW-CMAQ	June 22, 2015	Comment Noted
MassDOT-OTP	TIP Document	The Massachusetts Department of Transportation (MassDOT) Office of Transportation Planning (OTP) has reviewed the draft 2016 Transportation Improvement Program (TIP) released by the Pioneer Valley Metropolitan Planning Organization (MPO) on May 21 , 2015. 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. Please note the following comments specific to the information contained in the MPO's draft 2016 TIP.	June 22, 2015	Documents will be Updated
MassDOT-OTP	TIP Document	<ul style="list-style-type: none"> • Please update signatory sheets with the appropriate names, titles and parties. Please also include the new signatory sheet for self-certification of the new Department of Environmental Protection (DEP) regulation on greenhouse gas tracking. • Please reference the National Planning Factors and relate them to the projects programmed within the TIP. This narrative is important for compliance with MAP- 21. • Please include the greenhouse gas evaluation of projects pursuant to existing practices and the new DEP regulation on greenhouse gas tracking. The current draft does not acknowledge this regulation or the importance of the reduction of greenhouse gases as required by the Global Warming Solutions Action. • Please include narrative about GreenDOT, Mode Shift, and public health as it relates to the projects prioritized by the MPO. The current draft does not acknowledge the importance of these MassDOT policies and priorities. • Preface- page 1: In the last paragraph please strike the reference to the MassHighway Department. • General Support Information section Page 4: in the first 	June 22, 2015	Documents will be Updated

		<p>sentence of the first paragraph please update the reference to the soon to be endorsed 2016 Regional Transportation Plan rather than the previous plan.</p> <p>Page 5: please replace the reference to MHO with MassDOT HighwayDivision.</p> <ul style="list-style-type: none"> Please move the appendix for the Transportation Evaluation Criteria into this section and provide narrative to describe the method in which the MPO uses it to prioritize projects 		
MassDOT-OTP	TIP Document	<p>Page 7: please update the statement "Program adjustments can be conducted without formal MPO action ... " to "Program adjustments can be made without public comment period ... "</p> <p>Please also clarify whether or not a Year 1 project can be pushed back to Year 2 under your adjustment procedures.</p>	June 22, 2015	Comment Noted
MassDOT-OTP	TIP Document	<ul style="list-style-type: none"> Highway Projects Please use the MassDOT template for highway projects as it was provided to the MPO. This enhances consistency and reduces the opportunities for errors between the TIP and STIP. Using the proper template also ensures that the public sees the same information in the TIP and STIP. Please ensure that the template is properly formatted so all project descriptions and additional comments are visible. For TAP projects please identify in the additional comment fields that the municipality is the project proponent, not the MPO or MassDOT who are ineligible project sponsors. Please ensure that Year of Expenditure construction costs are programmed and are factored for projects in 2017 (4%), 2018 (8%) and 2019 (12%). Please work with 01 and 02 to ensure that cost estimates reflect the latest design submission and then inflate the project costs accordingly. 	June 22, 2015	Comment Noted
MassDOT-OTP	604968	<p>2016- Section 1 C</p> <ul style="list-style-type: none"> 604968- this project does not have its project ID listed. Please add the project ID number to the template. 	June 22, 2015	Updated
MassDOT-OTP	607736	<p>2017- Section 1 D- Statewide HSIP Program</p> <ul style="list-style-type: none"> 607736- please update the project cost to \$4,100,000 	June 22, 2015	Updated
MassDOT-OTP	607474	<p>2017- Section 1 D- Statewide NHS Preservation Program</p>	June 22,	Updated

		<ul style="list-style-type: none"> • 607474- please move to 2018 per the statewide project lists distributed by MassDOT 	2015	
MassDOT-OTP	FFY 2018 CMAQ	<ul style="list-style-type: none"> o 2018- Section 1A With the available regional CMAQ funding please consider creating a regional bicycle parking program. 	June 22, 2015	Comment Noted
MassDOT-OTP	607560	<ul style="list-style-type: none"> 2018- Section 1 D- Statewide Infrastructure • 607560 and 608207- please move these projects to Section 1 D Statewide Interstate Maintenance Program 	June 22, 2015	Updated
MassDOT-OTP	607474	<ul style="list-style-type: none"> o Section 1 D- Statewide NHS Preservation Program • 607474- please update the project cost to \$1 ,988,064 	June 22, 2015	Updated
MassDOT-OTP	602811	<ul style="list-style-type: none"> 2019- Section 1 D • 608211 -Please move this project to Section 1 D- Statewide Interstate Maintenance Program and correct the project number which is listed incorrectly in the draft TIP. 	June 22, 2015	Updated
MassDOT-OTP	TIP Document	<ul style="list-style-type: none"> Appendices • Please update the tables on pages 104 and 1 05 with the tables provided by MassDOT on June 9, 2015. 	June 22, 2015	Updated
MassDOT-OTP	TIP Document	<ul style="list-style-type: none"> Following endorsement please send your final highway TIP template to Bryan Pounds for import into the STIP database, and export into an accessible version for inclusion into your final TIP document. 	June 22, 2015	Comment Noted
Federal Highway Administration (FHWA)	TIP Document	<p>MAP-21 Performance Measures – The introduction includes a good reference to the national performance measures. However further detail is required on how these measures will be incorporated throughout the TIP Planning process. Currently there is an appendix which outlines the provisions of proposed performance measures. As these performance measures become finalized the MPO should explain how they will be suited to implement them through their TIP development process.</p>	June 22, 2015	Document to be updated
Federal Highway Administration (FHWA)	TIP Document	<p>Amendments/Adjustments – The MPO should further define what deems significant versus minor cost fluctuations in the TIP. This should also be incorporated in the Public Participation Plan. (Pg 7)</p>	June 22, 2015	Future MPO Action
Federal Highway Administration (FHWA)	TIP Document	<p>Operation and Maintenance Cost – The MPO should work cooperatively with State and Public Transportation Provides to further define the system-level cost of adequately maintaining and operating the federal aid highway system with sources of revenue that are reasonably expected to be available. Further narrative is needed here as part of the Financial Plan. The tables included in Appendix C</p>	June 22, 2015	Document to be updated

		should also be incorporated in demonstrating the operations and maintenance of the federal aid system through FY 2016-2019. (Pg. 9)		
Federal Highway Administration (FHWA)	TIP Document	Public Participation Summary – Please include date and location of the public meeting held during the TIP public comment period. Also verify the TIP public comment period is correct and includes comments from FHWA (Pg 11)	June 22, 2015	Document to be updated
Federal Highway Administration (FHWA)	TIP Document	Federal Aid Financial Constraint – The TIP should demonstrate all sources of funding (Federal, State, Local, Private) that are responsibly expected to be available. Discussion on how funding estimates were cooperatively developed including Year of Expenditure. Demonstration of financial constraint for transit projects should be further illustrated. (Pg 23)	June 22, 2015	Document to be updated

Comments Received February 2016

Comment By	Project	Comment	Date Received	Action Taken
MassDOT – Highway District 2	TIP	MassDOT Highway district 2 provided updates to design status, Public Hearing Dates and other support information for various project throughout the TIP	January 5, 2016	Comments noted and information added
MassDOT -OTP	604968	Adjust Programmed Funds down from \$11,989,555. Adjust Additional Information to capture total Project Cost including Stormwater. $12,046,253 = 11,074,253 \text{ IM} + 972K \text{ Stormwater}$ Adjust Additional Information to reflect Total Cost of project including IM. $12,046,253 = 11,074,253 \text{ IM} + 972K \text{ Stormwater}$.	January 25, 2016	Requested action taken
MassDOT -OTP	604968	604968: New TFPC - \$3,004,516.20 ; Programmed for \$2,621,883.00 (\$300,000 CMQ, \$2,321,883 HPP). Adjustment of \$382,633 additional CMAQ Funding for a new total under Section 1A to match the TFPC. (2,321,883 HPP + 682,633 CMQ = 3,004,516)	January 29, 2016	Requested action taken
MassDOT -OTP	608022	608022: New TFPC - \$3,645,202.80 ; Programmed for \$3,500,000 (STP). Adjustment of \$145,203 additional STP Funding for a new total under Section 1A to match the TFPC. (3,500,000 STP + 145,203 STP = 3,645,203)	January 29, 2016	Requested action taken

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

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 February 3, 2016 and discussed the following item for endorsement: Amendments to The Pioneer Valley Region's 2016-2019 Transportation Improvement Program (TIP)

Massachusetts Department of Transportation (Mass DOT)

I, Secretary of the Massachusetts Department of Transportation, hereby

Endorse Do Not Endorse the above referenced item.

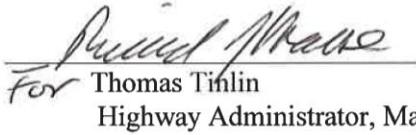

Stephanie Pollack
Secretary & CEO Mass DOT

02/03/16
Date

Massachusetts Department of Transportation Highway Division

I, Acting Administrator of the Highway Division of MassDOT, hereby

Endorse Do Not Endorse the above referenced item.

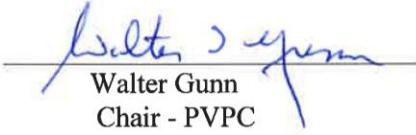

For Thomas Tinlin
Highway Administrator, Mass DOT

2/3/16
Date

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

2/3/16
Date

Pioneer Valley Transit Authority (PVTA)

I, Administrator of the Pioneer Valley Transit Authority, hereby

Endorse Do Not Endorse the above referenced item.

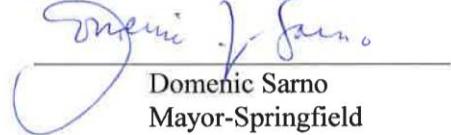

Mary MacInnes
Administrator - PVTA

2/3/2016
Date

City of Springfield

I, Mayor of the City of Springfield, hereby

Endorse Do Not Endorse the above referenced item.


Domenic Sarno
Mayor-Springfield

2/3/2016
Date

February 3, 2016 endorsement
PVMPD TIP Amendments

City of Holyoke

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

Alex Morse

Alex Morse
Mayor-Holyoke

02-03-16

Date

City of Chicopee

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

Richard Kos

Richard Kos
Mayor-Chicopee

2-3-16

Date

Town of Agawam

I, Mayor of the Town of Agawam, hereby
 Endorse Do Not Endorse the above referenced item.

Richard Cohen

Richard Cohen
Mayor-Agawam

03 FEB 2016

Date

City of Northampton

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

David Narkewicz

David Narkewicz
Mayor-Northampton

2/3/16

Date

Town of Hatfield

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

Marcus Boyle

Marcus Boyle
Selectman-Hatfield

3 FEB 2016

Date

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 December 2011. 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 June 18, 2014 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:

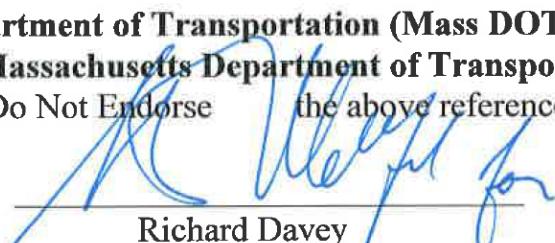
1. 23 U.S.C. 134, 49 U.S.C. 5303, and this subpart;
2. In non-attainment and maintenance areas, sections 174 and 176 (c) and (d) of the Clean Air Act, as amended (42 U.S.C. 7504, 7506 (c) and (d)) and 40 CFR part 93;
3. Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d-1) and 49 CFR 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.

2015 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.


Richard Davey
Secretary & CEO Mass DOT

6/18/14
Date

Massachusetts Department of Transportation Highway Division

I, Acting Administrator of the Highway Division of MassDOT, hereby

Endorse Do Not Endorse the above referenced item.

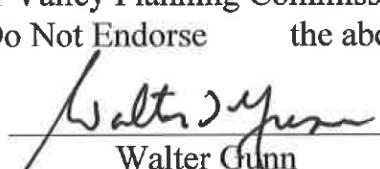

Frank DePaola
Highway Administrator, Mass DOT

06/18/14
Date

Pioneer Valley Planning Commission (PVPC)

I, Chair of the Pioneer Valley Planning Commission, hereby

Endorse Do Not Endorse the above referenced item.

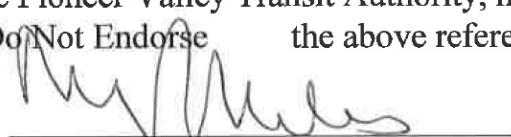

Walter Gunn
Chair - PVPC

6/18/14
Date

Pioneer Valley Transit Authority (PVTA)

I, Administrator of the Pioneer Valley Transit Authority, hereby

Endorse Do Not Endorse the above referenced item.


John Musante
Chair - PVTA

6/18/14
Date

City of Chicopee

I, Mayor of the City of Chicopee, hereby

Endorse Do Not Endorse the above referenced item.

Richard Kos

Date

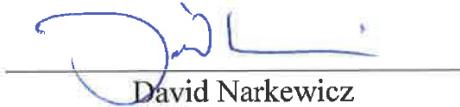
City of Holyoke

I, Mayor of the City of Holyoke, hereby

Endorse Do Not Endorse the above referenced item.

2015 3C Self Certification

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



David Narkewicz
Mayor-Northampton

6-18-14
Date

City of Agawam

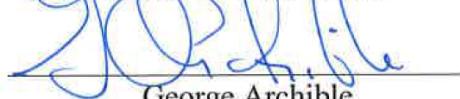
I, Mayor of the Town of Agawam, hereby
 Endorse Do Not Endorse the above referenced item.

Richard Cohen
Mayor-Agawam

Date

Town of Belchertown

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

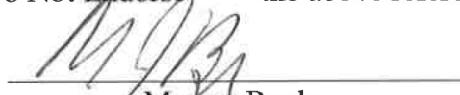


George Archibie
Selectman-Belchertown

6/18/14
Date

Town of Hatfield

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



Marcus Boyle
Selectman-Hatfield

6/18/14
Date

310 CMR 60.05: Global Warming Solutions Act Requirements

Global Warming Solutions Act Requirements for the Transportation Sector and the Massachusetts Department of Transportation Endorsement

FUNDING INFORMATION

FEDERAL AID FUNDING TARGETS

The MassDOT provided the revised PVPC federal aid highway funding targets for the region on April 3, 2015. The targets are provided for FFYs 2016 through 2019 and represent both the federal aid portion and respective state match. (See Appendix A for additional information)

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 3 shows both these target amounts and the amounts programmed for highway projects during fiscal years 2016-2019. 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 2016 – 2019.

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 FFY2017 in order to reflect year of expenditure (YOE).

Table 3 Federal Highway Financial Plan

Fiscal Year	2016	2017	2018	2019
STP Target	\$13,464,447	\$17,255,610	\$18,228,502	\$18,370,452
STP Programmed	\$12,793,159	\$12,715,826	\$17,913,978	\$13,806,354
CMAQ Target	\$3,378,100	\$3,378,100	\$3,378,100	\$3,378,100
CMAQ Programmed	\$2,267,159	\$3,378,100	\$3,312,774	\$3,378,100
HSIP Target	\$1,080,992	\$1,080,992	\$1,080,992	\$1,080,992
HSIP Programmed	\$1,080,992	\$1,080,992	\$1,080,992	\$1,080,992
TAP Target	\$947,878	\$615,889	\$615,889	\$473,939
TAP Programmed	\$947,878	\$0	\$615,889	\$473,939
Total Available Funds	\$18,871,416	\$22,330,590	\$23,303,483	\$23,303,483
Total Programmed Funds	\$17,089,282	\$17,790,807	\$22,923,633	\$23,238,403
Total Unprogrammed Funds	\$1,782,134	\$4,539,783	\$379,850	\$4,564,098

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

Table 4 Federal Transit Financial Plan

Funding / Fiscal Year	2016	2017	2018	2019
5307	\$1,581,736	\$15,257,867	\$16,239,146	\$15,169,474
5339	\$15,069	\$0	\$1,023,173	\$3,783,500
5309	\$0	\$0	\$0	\$0
5317	\$0	\$0	\$0	\$0
5310	\$0	\$0	\$0	\$0
5311	\$0	\$0	\$0	\$0
SOGR	\$0	\$0	\$0	\$0
Other Non Federal Aid	\$9,131,960	\$46,170,000	\$33,732,000	\$250,000
Total	\$10,728,765	\$61,427,867	\$49,971,146	\$19,202,974
State Contract Assistance (SCA)	\$23,680,558	\$24,390,975	\$25,122,704	\$25,876,385

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.

IV. FEDERAL AID REGIONAL PROJECT LISTINGS

The following is a complete listing of the Pioneer Valley Federally Funded Transportation Improvement Projects for Fiscal Years 2016-2019.

ORGANIZATION OF PROJECT LISTINGS

Each project in the TIP contains the following information:

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

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

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

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

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

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

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

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

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

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

Table 5: Federally Funded Projects Year 2016

Amendment n/Adjust ment Type ▼	MassDOT Project ID ▼	MPO ▼	Municipality Name ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼
Section 1A / Federal Aid Target Projects										
► HSP - Highway Safety Improvement Program	605385	Pioneer Valley	Springfield	SPRINGFIELD - SIGNAL & INTERSECTION IMPROVEMENTS @ ROOSEVELT AVENUE & ISLAND POND ROAD, ROOSEVELT AVENUE & ALDEN STREET	2	HSP	\$ 1,080,992	\$ 972,893	\$ 108,099	62.5 TEC Score 25% (YOE \$2,297,372) CMAG, HSP, DPH 1/27/16
						HSP Subtotal ▲	\$ 1,080,992	\$ 972,893	\$ 108,099	► 90% Federal + 10% Non-Federal
CMAQ - Congestion Mitigation and Air Quality Improvement Program										
	604968	Pioneer Valley	Westfield	WESTFIELD - GREENWAY RAIL TRAIL CONSTRUCTION, NORTH SECTION - FROM COVLES COURT ACCESS RAMPS TO THE WESTFIELD RIVER BRIDGE INCLUDES REHAB OF W-25-036 (WESTFIELD RIVER CROSSING)	2	CMAQ	\$ 1,216,380	\$ 973,104	\$ 243,276	62.5 TEC Score 25% (YOE \$2,297,372) CMAG, HSP, DPH 1/27/16
						CMAQ Subtotal ▲	\$ 1,216,380	\$ 973,104	\$ 243,276	38.83 TEC 100%, HPP funds remaining (HPP-1656) \$2,321,883 (Total with match) (YOE \$3,004,516), HPP, CMAG
	604446	Pioneer Valley	Springfield	WESTFIELD - UNION STATION REDEVELOPMENT	2	CMAQ	\$ 682,633	\$ 546,106	\$ 136,527	\$ 1.7M CMAG commitment over 3 years toward Phase I of project \$65.7 total
						CMAQ Subtotal ▲	\$ 2,649,886	\$ 2,196,936	\$ 529,977	► 80% Federal + 20% Non-Federal
TAP - Transportation Alternatives Program										
	604446	Pioneer Valley	Westfield	WESTFIELD-RECONSTRUCTION OF ROUTE 1187 (LITTLE RIVER ROAD) AND SHAKER ROAD	2	TAP	\$ 947,873	\$ 758,302	\$ 189,576	46.5 TEC PS&E \$6,206,561 STP, TAP The City of Westfield is the project proponent
						TAP Subtotal ▲	\$ 947,873	\$ 758,302	\$ 189,576	► 80% Federal + 20% Non-Federal
Non-CMAQ/HSP/TAP (Other)										
	606445	Pioneer Valley	Longmeadow	LONGMEADOW RESURFACING & RELATED WORK ON CONVERSE STREET, FROM LAUREL STREET TO DOWNTOWN STREET (2.04 MILES)	2	STP	\$ 2,742,043	\$ 2,193,638	\$ 548,410	36.4 TEC Score 25%/75% (\$2,742,048) STP
	604446	Pioneer Valley	Westfield	WESTFIELD - RECONSTRUCTION OF ROUTE 1187 (LITTLE RIVER ROAD) AND SHAKER ROAD	2	STP	\$ 5,258,683	\$ 4,206,946	\$ 1,051,737	46.5 TEC PS&E \$6,206,561 STP TAP The City of Westfield is the project proponent
	607869	Pioneer Valley	Wlbraham	WILBRAHAM RECONSTRUCTION OF TOSTON ROAD (ROUTE 20) FROM DUDLEY STREET TO 400 FT. EAST OF DUMaine STREET (0.28MILES)	2	STP	\$ 1,292,428	\$ 1,033,942	\$ 258,486	40 TEC Score 100% \$1,292,428 STP
	608022	Pioneer Valley	Multiple	BRIMFIELD-STURBRIDGE RE-SURFACING & RELATED WORK ON ROUTE 20, BEGINNING EAST OF NEW HOLLAND ROAD (MM 87.8), ENDING WEST OF GALILEO DRIVE (MM 91.9)	2	STP	\$ 3,645,203	\$ 2,916,162	\$ 729,041	22.5 TEC Score 75% \$3,500,000 STP
						Non-CMAQ/HSP/TAP (Other) Subtotal ▲	\$ 12,938,362	\$ 10,350,690	\$ 2,587,672	► 80% Federal + 20% Non-Federal
Total Federal Aid Target Funds Programmed										
Total Non-CMAQ/HSP/TAP (Other) Programmed							\$ 17,617,118	\$ 18,871,416	\$ 1,234,298	Target Funds Available
Total HSP Programmed							\$ 12,938,62	\$ 13,464,446	\$ 526,084	Non-CMAQ/HSP/TAP (Other) A
Total CMAQ Programmed							\$ 1,080,392	\$ 1,080,392	\$ -	HSP Minimum Met
Total TAP Programmed							\$ 2,649,886	\$ 3,378,100	\$ 728,214	CMAG Minimum Not Met
							\$ 947,873	\$ 947,873	\$ -	TAP Minimum Not Met

Section 1A / Fiscal Constraint Analysis

Table 5: Federally Funded Projects Year 2016 (Continued)

► Section 1B / Federal Aid Bridge Projects										
► Statewide Bridge Maintenance Program										
No Projects Programmed										
No Projects Programmed										
Statewide Bridge Maintenance Program Subtotal ►										
► On System										
606252 Pioneer Valley Multiple LUDLOW - WILBAHAM - BRIDGE PRESERVATION, L-16-002/W-35-002, EAST STREET OVER THE CHICOPEE RIVER	2	NHPP	\$ 1,000,000	\$ 800,000	\$ 200,000					Pre 25%
On System Subtotal ►										
► Off-System										
607524 Pioneer Valley Multiple BELCHERTOWN - WARREN BRIDGE DEMOLITION, B-05-023, W-07-012; EAST MAIN STREET/NAULTAG BROOK)	2	STP-BR-OFF	\$ 2,477,738	\$ 1,982,190	\$ 495,548					100%
Off-System Subtotal ►										
► Statewide Bridge Inspection Program										
No Projects Programmed										
No Projects Programmed										
Statewide Bridge Inspection Program Subtotal ►										
► Section 1 C / Federal Aid Non-Target Projects										
► Other Federal Aid										
604968 Pioneer Valley Westfield WESTFIELD- COLUMBIA GREENWAY RAIL TRAIL CONSTRUCTION, NORTH SECTION - FROM COWLES COURT ACCESS RAMPS TO THE WESTFIELD RIVER BRIDGE INCLUDES REHAB OF W-25-036 (WESTFIELD RIVER CROSSING) No Projects Programmed	2	HPP	\$ 2,321,883	\$ 1,857,506	\$ 464,377	38,83 TEC Score 100% HPP funds remaining (HPP - 1656) \$2,321,883 (Total with match) YOE \$3,004,516.				
Other Federal Aid Subtotal ►										
► Section 1 D / Federal Aid Major & State Category Projects										
► Regional Major Infrastructure Program										
607731 Pioneer Valley Springfield SPRINGFIELD- VIADUCT DECK REPLACEMENT OF S-24-061 ON I-91 (EARLY ACTION)	2	NHPP	\$ 84,493,750	\$ 67,595,000	\$ 16,898,750	Advertised Funds will be disbursed from FFY 2014 through FFY 2017 (As of year 3 of 4). Increase cost from \$71,993,750 to \$84,493,750. Moved funding from Statewide Infrastructure Program to Regional Major Infrastructure Program.				
No Projects Programmed										
Regional Major Infrastructure Program Subtotal ►										
► Statewide Infrastructure Program										
603730 Pioneer Valley West Springfield WEST SPRINGFIELD - CONNECTICUT RIVERWALK & BIKEWAY EXTENSION FROM ELM STREET TO ASHLLEY AVENUE	2	STP	\$ 1,867,004	\$ 1,493,603	\$ 373,401	5.12 TEC Score PS&E: Project was originally programmed in FFY 2015, was not advertised				
No Projects Programmed										
Statewide Infrastructure Program Subtotal ►										
► Statewide HSIP Program										
607735 Pioneer Valley South Hadley SOUTH HADLEY- SIGNAL & INTERSECTION IMPROVEMENTS AT ROUTE 202 (GRANBY ROAD) & ROUTE 33 (LYMAN STREET)	2	HSIP	\$ 550,000	\$ 495,000	\$ 55,000	Pre 25%				
No Projects Programmed										
Statewide HSIP Program Subtotal ►										
► Statewide Safe Routes to Schools Program										
607483 Pioneer Valley Southampton SOUTHAMPTON - SAFE ROUTES TO SCHOOL : NORRIS ELEMENTARY SCHOOL (100%)	2	TAP	\$ 832,000	\$ 665,600	\$ 166,400	80% Federal + 20% Non-Federal				
No Projects Programmed										
Statewide Safe Routes to Schools Program Subtotal ►										

Table 5: Federally Funded Projects Year 2016 (Continued)

► Statewide CMQAQ	603477	Pioneer Valley	Southwick	SOUTHWICK - INTERSECTION IMPROVEMENTS ¹ AT FOUR LOCATIONS ON ROUTE 57 (FEEDING HILLS ROAD)	2	CMQAQ	\$ 3,551,223	\$ 2,840,978	\$ 710,245	47 TEC Score 100% (\$3,551,223)
	No Projects Programmed					Statewide CMQAQ	\$ 3,551,223	\$ 2,840,978	\$ 710,245	► 80% Federal + 20% Non-Federal
► Statewide Transportation Enhancements						Statewide Transportation Enhancements Subtotal	\$ -	\$ -	\$ -	► 80% Federal + 20% Non-Federal
► Statewide ITS										► 80% Federal + 20% Non-Federal
► Statewide Interstate Maintenance Program						Statewide ITS Subtotal	\$ -	\$ -	\$ -	► 80% Federal + 20% Non-Federal
► 608207	Pioneer Valley	Multiple	LONGMEADOW - SPRINGFIELD - RESURFACING AND RELATED WORK ON I-91	2	NHPP	\$ 10,195,200	\$ 9,175,680.0	\$ 1,019,520.0	75% Move project from Statewide Infrastructure Program to Statewide Interstate Maintenance	
			Statewide Interstate Maintenance Program Subtotal	►	\$ 10,195,200	\$ 9,175,680	\$ 1,019,520			► 90% Federal + 10% Non-Federal
► Statewide NHS Preservation Program+						No Projects Programmed	\$ -	\$ -	\$ -	► 80% Federal + 20% Non-Federal
						No Projects Programmed	\$ -	\$ -	\$ -	► 80% Federal + 20% Non-Federal
► Statewide RR Grade Crossings						No Projects Programmed	\$ -	\$ -	\$ -	► 80% Federal + 20% Non-Federal
						No Projects Programmed	\$ -	\$ -	\$ -	► 80% Federal + 20% Non-Federal
► Statewide Stormwater Retrorts	608136	Pioneer Valley	South Hadley	SOUTH HADLEY - STORMWATER IMPROVEMENTS ALONG ROUTE 116	2	STP-TE	\$ 169,400	\$ 135,520.0	\$ 33,880.0	100%
				No Projects Programmed		Statewide Stormwater Retrorts Subtotal	►	\$ 169,400	\$ 135,520	
► Statewide ADA Implementation Plan						No Projects Programmed	\$ -	\$ -	\$ -	► 80% Federal + 20% Non-Federal
				No Projects Programmed		Statewide ADA Implementation Plan Subtotal	►	\$ -	\$ -	
► Other Statewide Items						ABP GANS Repayment	\$ -	\$ -	\$ -	-
				Award Adjustments, Change Orders, Project Value Changes, Etc.			\$ -	\$ -	\$ -	
				DBEs, FAFO, Pavement Lab Retorts, and Misc. Programs			\$ -	\$ -	\$ -	
				Planning			\$ -	\$ -	\$ -	
				Statewide Design and Right of Way			\$ -	\$ -	\$ -	
				Statewide Recreational Trails			\$ -	\$ -	\$ -	
				Other Statewide Items Subtotal	►	\$ -	\$ -	\$ -	\$ -	► Funding Split Varies by Funding Source
► Section 2A / Non-Federal Projects										
► Non Federal Aid				No Projects Programmed		NFA	\$ -	\$ -	\$ -	
				No Projects Programmed		NFA	\$ -	\$ -	\$ -	► 100% Non-Federal
► Section 2B / Non-Federal Bridge Projects				No Projects Programmed		Non-Federal Aid Subtotal	►	\$ -	\$ -	
► Section 2B / Non-Federal Bridge Projects				No Projects Programmed		NFA	\$ -	\$ -	\$ -	► 100% Non-Federal
				No Projects Programmed		NFA	\$ -	\$ -	\$ -	
				Section 2B / Non-Federal Bridge Projects Subtotal	►	\$ -	\$ -	\$ -	\$ -	
						Total	\$ 40,551,566	\$ -	\$ 40,581,566	► Total Spending in Region
						Federal Funds	\$ 33,647,872	\$ -	\$ 33,647,872	► Total Federal Spending in Region
						Non-Federal Funds	\$ 6,933,694	\$ -	\$ 6,933,694	► Total Non-Federal Spending in Region
						Total All Projects	\$ -	\$ -	\$ -	
2016 Pioneer Valley TIP Summary										

Table 6: Federally Funded Projects 2017

Amendment/ Adjustment Type ▼	MassDOT Project ID ▼	MPO ▼	Municipality Name ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Non-Federal Funds ▼	Additional Information ▼
►Section 1A / Federal Aid Target Projects									
►HSIP - Highway Safety Improvement Program									
604203 Pioneer Valley Agawam AGAWAM- INTERSECTION IMPROVEMENTS AT ROUTE 187 & ROUTE 57									
					2	HSIP	\$ 1,080,992	\$ 972,893	\$ 108,099
							\$ -	\$ -	\$ -
					HSIP Subtotal ▲	\$ 1,080,992	\$ 972,893	\$ 108,099	► 90% Federal + 10% Non-Federal
►CMAQ - Congestion Mitigation and Air Quality Improvement Program									
608236 Pioneer Valley Northampton NORTHAMPTON- RECONSTRUCTION OF DAMON ROAD FROM ROUTE 9 TO ROUTE 5. INCLUDES DRAINAGE SYSTEM REPAIRS & SLOPE STABILIZATION AT THE NORWOTTUCK INTERSECTION					2	CMAQ	\$ 1,766,592	\$ 1,413,274	\$ 353,318
604203 Pioneer Valley Agawam GOMAQUA - INTERSECTION IMPROVEMENTS AT ROUTE 187 & HOLYOKE - IMPROVEMENTS TO LOWER WESTFIELD ROAD ON I-91 (INTERCHANGE 15)					2	CMAQ	\$ 539,008	\$ 431,206	\$ 107,802
606903 Pioneer Valley Holyoke CMAQ Subtotal ▲					2	CMAQ	\$ 1,072,500	\$ 853,000	\$ 214,500
							\$ 3,378,100	\$ 2,702,480	\$ 675,620
									► 80% Federal + 20% Non-Federal
►TAP - Transportation Alternatives Program									
60501 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	TAP	\$ 615,889	\$ 492,711	\$ 123,178
					No Projects Programmed		\$ -	\$ -	\$ -
						TAP Subtotal ▲	\$ 615,889	\$ 492,711	\$ 123,178
									► 80% Federal + 20% Non-Federal
►Non-CMAQ/HSIP/TAP (Other)									
60501 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	STP	\$ 4,302,162	\$ 3,441,730	\$ 860,432
604033 Pioneer Valley Southwick CONCORD - ROUTE 188- CONCORD - ROUTE 188- FROM COLLEGE HIGHWAY ENDS 250 FEET SHORT OF STATE LINE (1.2 MILES)					2	STP	\$ 4,980,256	\$ 3,984,205	\$ 996,051
608236 Pioneer Valley Northampton NORTHAMPTON- RECONSTRUCTION OF DAMON ROAD. FROM ROUTE 9 TO ROUTE 5. INCLUDES DRAINAGE SYSTEM REPAIRS & SLOPE STABILIZATION AT THE NORWOTTUCK INTERSECTION					2	STP	\$ 3,433,408	\$ 2,746,726	\$ 686,682
					Non-CMAQ/HSIP/TAP (Other) Subtotal ▲	\$ 12,715,826	\$ 10,172,661	\$ 2,543,165	► 80% Federal + 20% Non-Federal
►Section 1A / Fiscal Constraint Analysis									
Total Federal Aid Target Funds Programmed	\$ 17,790,807	\$ 22,330,590	► Total Target	\$ 4,539,783	Target Funds Available				
Total Non-CMAQ/HSIP/TAP (Other) Programmed	\$ 12,715,826	\$ 17,255,609	► Max Non-CMAQ/HSIP/TAP	\$ 4,539,783	Non-CMAQ/HSIP/TAP (Other) A				
Total HSIP Programmed	\$ 1,080,992	\$ 1,080,992	► Min. HSIP	\$ -	HSIP Minimum Met				
Total CMAQ Programmed	\$ 3,378,100	\$ 3,378,100	► Min. CMAQ	\$ -	CMAQ Minimum Met				
Total TAP Programmed	\$ 615,889	\$ 615,889	► Min. TAP	\$ -	TAP Minimum Met				

Table 6: Federally Funded Projects Year 2017 (Continued)

►Section 1B / Federal Aid Bridge Projects

Statewide Bridge Maintenance Program													
No Projects Programmed			Statewide Bridge Maintenance Program Subtotal			\$ - \$ - \$ - \$ -							
► On System					\$ - \$ - \$ - \$ -								
AGAWAM-WEST SPRINGFIELD BRIDGE RECONSTRUCTION A-05-002-W-21-014,ROUTE 147 OVER THE WESTFIELD RIVER & INTERSECTION & SIGNAL IMPROVEMENTS @ 3					\$ - \$ - \$ - \$ -								
605384 Pioneer Valley Multiple					\$ - \$ - \$ - \$ -								
On System Subtotal ►					\$ - \$ - \$ - \$ -								
NHPP					\$ 14,757,120 \$ 11,805,596 \$ 2,951,424								
25%					\$ - \$ - \$ - \$ -								
► Off-System					\$ - \$ - \$ - \$ -								
607528 Pioneer Valley Amherst					\$ - \$ - \$ - \$ -								
607549 Pioneer Valley Chesterfield					\$ - \$ - \$ - \$ -								
08-008 MILL STREET OVER MILL RIVER CHESTERFIELD - IRELAND STREET OYER WEST BRANCH OF WESTFIELD D					\$ - \$ - \$ - \$ -								
2 1					\$ - \$ - \$ - \$ -								
STP-BR-OFF STP-BR-OFF Off-System Subtotal ►					\$ 2,754,040 \$ 3,649,520 \$ 6,403,560								
\$ 2,203,232 \$ 2,919,816 \$ 5,122,848					\$ 560,808 \$ 729,904 \$ 1,280,712								
► Pre 25%					\$ - \$ - \$ - \$ -								
► Statewide Bridge Inspection Program					\$ - \$ - \$ - \$ -								
No Projects Programmed					\$ - \$ - \$ - \$ -								
No Projects Programmed					\$ - \$ - \$ - \$ -								
Statewide Bridge Inspection Program Subtotal ►					\$ - \$ - \$ - \$ -								
► 80% Federal + 20% Non-Federal					\$ - \$ - \$ - \$ -								
► Section 1C / Federal Aid Non-Target Projects													
► Other Federal Aid					\$ - \$ - \$ - \$ -								
603449 Pioneer Valley Westfield					\$ - \$ - \$ - \$ -								
WESTFIELD-ROUTE 20 ACCESS IMPROVEMENTS ON COURT STREET & WESTERN AVENUE, FROM LLEWELYN DRIVE EASTERLY TO LLOYD'S HILL ROAD (PHASE 1)					\$ - \$ - \$ - \$ -								
HPP 2 NHPP					\$ 2,503,683 \$ 9,000,000								
\$ 2,002,350 \$ 7,200,000					\$ 500,738 \$ 1,800,000								
► 36 TEC Score 25% Design, HPP-4287 \$ 2,503,688 Total with Match					\$ - \$ - \$ - \$ -								
► Section 1D / Federal Aid Major & State Category Projects													
► Regional Major Infrastructure Program					\$ - \$ - \$ - \$ -								
607731 Pioneer Valley Springfield					\$ - \$ - \$ - \$ -								
SPRINGFIELD- VIADUCT DECK REPLACEMENT OF S-24-061 ON I-91 (EARLY ACTION)					\$ - \$ - \$ - \$ -								
2 No Projects Programmed					\$ - \$ - \$ - \$ -								
Regional Major Infrastructure Program Subtotal ►					\$ - \$ - \$ - \$ -								
NHPP					\$ - \$ - \$ - \$ -								
► Advertised, Funds will be disbursed from FFY 2014 through FFY 2017 (AC year 4 of 4), Moved funding from Statewide Infrastructure Program to Regional Major Infrastructure Program (October 2015)					\$ - \$ - \$ - \$ -								
► Statewide Infrastructure Program													
No Projects Programmed					\$ - \$ - \$ - \$ -								
No Projects Programmed					\$ - \$ - \$ - \$ -								
Statewide Infrastructure Program Subtotal ►					\$ - \$ - \$ - \$ -								
► 80% Federal + 20% Non-Federal					\$ - \$ - \$ - \$ -								
► Statewide HSIP Program													
607736 Pioneer Valley Chicopee					\$ - \$ - \$ - \$ -								
HSIP					\$ 4,100,000 \$ 3,690,000								
\$ 4,100,000 \$ 3,690,000					\$ 410,000 \$ 410,000								
► 90% Federal + 10% Non-Federal					\$ - \$ - \$ - \$ -								
► Statewide Safe Routes to Schools Program													
No Projects Programmed					\$ - \$ - \$ - \$ -								
No Projects Programmed					\$ - \$ - \$ - \$ -								
Statewide Safe Routes to Schools Program Subtotal ►					\$ - \$ - \$ - \$ -								
► Funding Split Varies by Funding Source					\$ - \$ - \$ - \$ -								
► Funded Split Varies by Funding Source													
► Funding Split Varies by Funding Source					\$ - \$ - \$ - \$ -								

Table 6: Federally Funded Projects Year 2017 (Continued)

► Statewide CMAQ	Pioneer Valley	Holyoke	"HOLYOKE" TRAFFIC SIGNAL UPGRADE AT 15 INTERSECTIONS ALONG HIGH & MAPLE STREETS	2	CMAQ	\$ 1,584,887	\$ 1,251,894	\$ 312,973	36.5 TEC Score Pre 25% (\$1,564,887)
603783	Pioneer Valley	Westfield	WESTFIELD-COLUMBIA GREENWAY RAIL TRAIL CONSTRUCTION (CENTER DOWNTOWN SECTION), FROM EAST SILVER STREET TO COVLES COURT, INCLUDES W-25-014, W-25-015, W-25-016, W-25-017, W-25-018, & W-25-019	2	CMAQ	\$ 6,532,895	\$ 5,226,316	\$ 1,306,579	36.6 TEC Score 75% Design (\$6,532,895)
606555	Pioneer Valley	Northampton	NORTHAMPTON-ROUNDABOUT CONSTRUCTION AT INTERSECTION ROUTES 510 (NORTH KING STREET) & HATFIELD STREET	2	CMAQ	\$ 2,989,882	\$ 2,391,914	\$ 597,978	42.5 TEC Score 25% (\$2,989,882)
602911	Pioneer Valley	Chicopee	CHICOPEE-CONNECTIVE RIVERWALK, & BIKEWAY CONSTRUCTION, FROM BOAT RAMP NEAR I-90 TO NASH FIELD (2.5 MILES)	2	CMAQ	\$ 3,902,850	\$ 3,122,280	\$ 780,570	27 TEC Score 25% (\$3,902,850)
					Statewide CMAQ ▲	\$ 14,990,504	\$ 11,592,403	\$ 2,998,101	► 80% Federal + 20% Non-Federal
► Statewide Transportation Enhancements			No Projects Programmed			\$ -	\$ -	\$ -	
			No Projects Programmed			\$ -	\$ -	\$ -	
			Statewide Transportation Enhancements Subtotal ▲			\$ -	\$ -	\$ -	► 80% Federal + 20% Non-Federal
► Statewide ITS			No Projects Programmed			\$ -	\$ -	\$ -	
			No Projects Programmed			\$ -	\$ -	\$ -	
			Statewide ITS Subtotal ▲			\$ -	\$ -	\$ -	► 80% Federal + 20% Non-Federal
► Statewide Interstate Maintenance Program			No Projects Programmed			\$ -	\$ -	\$ -	
606211	Pioneer Valley	Multiple	CHICOPEE-SPRINGFIELD - SURFACING AND RELATED WORK ON I-291	2	NHPP	\$ 3,644,784.0	\$ 404,976.0	\$ 404,976.0	Move to FFY 2017, reduce cost from \$1,545,498 to \$4,049,760 FFPC
606577	Pioneer Valley	Multiple	NORTHAMPTON-HATFIELD-WHATELY-Y-NORTHFIELD-INTERSTATE MAINTENANCE & RELATED WORK ON I-91, FROM MM 27.0 TO MM 37.0	2	NHPP	\$ 15,731,760	\$ 14,158,684.0	\$ 1,573,176.0	75% Move to FFY 2017, increase cost from \$10,620,000 to \$15,317,60 FFPC and move funding from Statewide NHS Preservation Program to Statewide Interstate Maintenance Program
					Statewide Interstate Maintenance Program Subtotal ▲	\$ 19,781,520	\$ 17,803,368	\$ 1,978,152	► 90% Federal + 10% Non-Federal
► Statewide NHS Preservation Program			No Projects Programmed			\$ -	\$ -	\$ -	
			No Projects Programmed			\$ -	\$ -	\$ -	
			Statewide NHS Preservation Program Subtotal ▲			\$ -	\$ -	\$ -	► 80% Federal + 20% Non-Federal
► Statewide RR Grade Crossings			No Projects Programmed			\$ -	\$ -	\$ -	
			No Projects Programmed			\$ -	\$ -	\$ -	
			Statewide RR Grade Crossings Subtotal ▲			\$ -	\$ -	\$ -	► 80% Federal + 20% Non-Federal
► Statewide Stormwater Retrosfits			No Projects Programmed			\$ -	\$ -	\$ -	
608192	Pioneer Valley	Multiple	AGAWAM-CHICOPEE-HOLYOKE-SPRINGFIELD-WEST SPRINGFIELD - STORMWATER IMPROVEMENTS ALONG I-91, I-291, I-391, AND ROUTE 5	2	STP+IE	\$ 1,872,000	\$ 1,497,600	\$ 374,400	► 80% Federal + 20% Non-Federal
► Statewide ADA Implementation Plan			No Projects Programmed			\$ -	\$ -	\$ -	
			No Projects Programmed			\$ -	\$ -	\$ -	
			Statewide ADA Implementation Plan Subtotal ▲			\$ -	\$ -	\$ -	► 80% Federal + 20% Non-Federal

Table 6: Federally Funded Projects Year 2017 (Continued)

► Other Statewide Items							
	ABP GANS Repayment			\$ -	\$ -	\$ -	\$ -
	Award Adjustments, Change Orders, Project Value Changes, Etc.			\$ -	\$ -	\$ -	\$ -
	DBEs, FAPo, Pavement Lab Retorfits, and Misc. Programs			\$ -	\$ -	\$ -	\$ -
	Planning			\$ -	\$ -	\$ -	\$ -
	Statewide Design and Right of Way			\$ -	\$ -	\$ -	\$ -
	Statewide Recreational Trails			\$ -	\$ -	\$ -	\$ -
	Other Statewide Items Subtotal ►			\$ -	\$ -	\$ -	\$ -
◀ Funding Split Varies by Funding Source							
► Section 2A / Non-Federal Projects							
► Non Federal Aid							
	No Projects Programmed		NFA	\$ -	\$ -	\$ -	\$ -
	No Projects Programmed		NFA	\$ -	\$ -	\$ -	\$ -
			Non-Federal Aid Subtotal ►	\$ -	\$ -	\$ -	\$ -
◀ 100% Non-Federal							
► Section 2B / Non-Federal Bridge Projects							
► Section 2B / Non-Federal Bridge Projects							
	No Projects Programmed		NFA	\$ -	\$ -	\$ -	\$ -
	No Projects Programmed		NFA	\$ -	\$ -	\$ -	\$ -
			Section 2B / Non-Federal Bridge Projects Subtotal ►	\$ -	\$ -	\$ -	\$ -
◀ 100% Non-Federal							
2017 Pioneer Valley TIP Summary							
TIP Section 1: ▶ TIP Section 2: ▶ Total of All Projects							
Total ►	\$ 82,199,199		\$ -	\$ 82,199,199		\$ -	\$ 82,199,199
Federal Funds ►	\$ 68,285,610		\$ -	\$ 68,285,610		\$ -	\$ 68,285,610
Non-Federal Funds ►	\$ 13,943,589		\$ -	\$ 13,943,589		\$ -	\$ 13,943,589
◀ Total Spending in Region							
◀ Total Federal Spending in Region							
◀ Total Non-Federal Spending in Region							

Table 7: Federally Funded Projects 2018

Amendment/Adjustment Type ▼	MassDOT Project ID ▼	MPD O ▼	Municipality Name ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼
► Section 1A / Federal Aid Target Projects										
► HSIP - Highway Safety Improvement Program										
607502	Pioneer Valley	Northampton	NORTHAMPTON - IMPROVEMENTS AT ROUTE 9 AND DAMON RD	2	HSIP	\$ 1,080,992	\$ 972,893	\$ 108,099	61 TEC Score 25% (YOE \$6,480,000) STP, CMAQ, HSIP, TAP	
604597	Pioneer Valley	Northampton	NORTHAMPTON - IMPROVEMENTS AT ROUTE 9 AND DAMON RD	1	HSIP Subtotal ▲	\$ 1,080,992	\$ 972,893	\$ 108,099	► 90% Federal + 10% Non-Federal	
► CMAQ - Congestion Mitigation and Air Quality Improvement Program										
607502	Pioneer Valley	Northampton	NORTHAMPTON - INTERSECTION IMPROVEMENTS AT KING STREET, NORTH STREET & SUMMER STREET AND AT KING STREET & PINE STREET	1	STP	\$ 1,512,774	\$ 1,210,219	\$ 302,565	57 TEC Score Pre 25% (YOE \$1,763,802) CMAQ, STP	
604597	Pioneer Valley	Northampton	NORTHAMPTON - IMPROVEMENTS AT ROUTE 9 AND DAMON RD	1	CMAQ Subtotal ▲	\$ 3,312,774	\$ 2,650,219	\$ 662,555	► 80% Federal + 20% Non-Federal	
► TAP - Transportation Alternatives Program										
604597	Pioneer Valley	Northampton	NORTHAMPTON - L-91 INTERCHANGE 19 IMPROVEMENTS AT ROUTE 9 AND DAMON RD	2	TAP	\$ 615,899	\$ 492,711	\$ 123,178	61 TEC Score 25% (YOE \$6,480,000) STP, CMAQ, HSIP, TAP	
607502	Pioneer Valley	Northampton	NORTHAMPTON - INTERSECTION IMPROVEMENTS AT KING STREET, NORTH STREET & SUMMER STREET AND AT KING STREET & PINE STREET	2	STP	\$ 251,028	\$ 200,822	\$ 50,206	57 TEC Score Pre 25% (YOE \$1,763,802) CMAQ, STP	
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	\$ 2,478,600	\$ 1,982,880	\$ 495,720	18.8 TEC Score 75% (YOE \$2,478,600) STP	
604597	Pioneer Valley	Northampton	NORTHAMPTON - IMPROVEMENTS AT ROUTE 9 AND DAMON RD	2	STP	\$ 2,983,119	\$ 2,386,495	\$ 596,624	61 TEC Score 25% (YOE \$6,480,000) STP, CMAQ, HSIP, TAP	
604434	Pioneer Valley	Chicopee	CHICOPEE - RECONSTRUCTION & RELATED WORK ON FULLER ROAD (2.0 MILES)	1	STP	\$ 6,706,800	\$ 5,365,440	\$ 1,341,360	Pre 25% 47.6 TEC (YOE \$6,706,800) STP	
607430	Pioneer Valley	Longmeadow	LONGMEADOW - RESURFACING & RELATED WORK ON LONGMEADOW STREET (ROUTE 5), FROM THE CT SL. TO CONVERSE STREET (2.88 MILES)	2	STP	\$ 2,390,407	\$ 1,912,326	\$ 478,081	34.4 TEC Score 75% (YOE \$2,390,407) STP	
607256	Pioneer Valley	Holyoke	HOLYOKE - RESURFACING & RELATED WORK ON HERITAGE STREET, FRONT STREET & DWIGHT STREET FROM MAPLE ST TO THE 1ST LEVEL CANAL (.54 MILES)	2	STP	\$ 3,104,024	\$ 2,483,219	\$ 620,805	39 TEC Score 25% (YOE \$3,104,024) STP	
► Non-CMAQ/HSIP/TAP (Other)										
607502	Pioneer Valley	Northampton	CHICOPEE - RECONSTRUCTION & RELATED WORK ON FULLER ROAD (2.0 MILES)	1	STP	\$ 17,913,978	\$ 14,331,182	\$ 3,582,796	► 80% Federal + 20% Non-Federal	
► Section 1A / Fiscal Constraint Analysis										
Total Federal Aid Target Funds Programmed										
Total Non-CMAQ/HSIP/TAP (Other) Programmed	\$ 22,923,633	\$ 23,303,483	► Total Target	\$ 379,650	Target Funds Available					
Total Non-CMAQ/HSIP/TAP (Other) A	\$ 17,913,978	\$ 18,228,502	► Max Non-CMAQ/HSIP/TAP	\$ 314,524						
Total HSIP Programmed	\$ 1,080,992	\$ 1,080,992	► Min HSIP	\$ -	- HSIP Minimum Met					
Total CMAQ Programmed	\$ 3,312,774	\$ 3,378,100	► Min CMAQ	\$ 65,326	CMAQ Minimum Met					
Total TAP Programmed	\$ 615,899	\$ 615,899	► Min TAP	\$ -	- TAP Minimum Met					

Table 7: Federally Funded Projects Year 2018 (Continued)

► Section 1B / Federal Aid Bridge Projects									
► Statewide Bridge Maintenance Program									
60739	Pioneer Valley	Cummington	CUMMINGTON-BRIDGE MAINTENANCE, C-21-025, ROUTE 9 OVER THE WESTFIELD RIVER	1	NHPP	\$ 300,000	\$ 240,000	\$ 60,000	
			Statewide Bridge Maintenance Program Subtotal ►			\$ 300,000	\$ 240,000	\$ 60,000	► 80% Federal + 20% Non-Federal
► On System			HOLYoke-BRIDGE REPLACEMENT, H-21-018, LYMAN STREET OVER FIRST LEVEL CANAL	2	NHPP	\$ 14,002,570	\$ 11,202,056	\$ 2,800,514	Pre 25%
600936	Pioneer Valley	Holyoke	No Projects Programmed		On System Subtotal ►	\$ 14,002,570	\$ 11,202,056	\$ 2,800,514	► 80% Federal + 20% Non-Federal
► Off-System			No Projects Programmed		Off-System Subtotal ►	\$ -	\$ -	\$ -	
			No Projects Programmed			\$ -	\$ -	\$ -	► 80% Federal + 20% Non-Federal
► Statewide Bridge Inspection Program			No Projects Programmed		Statewide Bridge Inspection Program Subtotal ►	\$ -	\$ -	\$ -	► 80% Federal + 20% Non-Federal
			No Projects Programmed			\$ -	\$ -	\$ -	
► Section 4C / Federal Aid Non-Target Projects									
► Other Federal Aid			No Projects Programmed			\$ -	\$ -	\$ -	
			No Projects Programmed			\$ -	\$ -	\$ -	
			Other Federal Aid Subtotal ►			\$ -	\$ -	\$ -	► Funding Split Varies by Funding Source
► Section 1D / Federal Aid Major & State Category Projects									
► Statewide Infrastructure Program					Statewide Infrastructure Program Subtotal ►	\$ -	\$ -	\$ -	
						\$ -	\$ -	\$ -	► 80% Federal + 20% Non-Federal
► Statewide HSIP Program			No Projects Programmed		Statewide HSIP Program Subtotal ►	\$ -	\$ -	\$ -	
			No Projects Programmed			\$ -	\$ -	\$ -	► 90% Federal + 10% Non-Federal
► Statewide Safe Routes to Schools Program			No Projects Programmed		Statewide Safe Routes to Schools Program Subtotal ►	\$ -	\$ -	\$ -	
			No Projects Programmed			\$ -	\$ -	\$ -	► Funding Split Varies by Funding Source
			No Projects Programmed			\$ -	\$ -	\$ -	- Funding Split Varies by Funding Source
			No Projects Programmed			\$ -	\$ -	\$ -	► Funding Split Varies by Funding Source
► Statewide CMaQ			SPRINGFIELD-NORTH END PEDESTRIAN PATH CONSTRUCTION (UNDER PAN-AM RAILROAD), BETWEEN PLAINFIELD STREET AND BIRNE AVENUE, CHICOPEE-CHICOPPEE RIVERWALK MULTILEVEL PATH CONSTRUCTION, FROM GRAPE STREET TO FRONT STREET (NEAR ELLERTON STREET)	2	CMaQ	\$ 4,326,400	\$ 3,461,120	\$ 865,280	Pre 25%
607589	Pioneer Valley	Springfield							
602912	Pioneer Valley	Chicopee							
			Statewide CMaQ ►			\$ 8,274,240	\$ 6,619,392	\$ 1,654,848	► 80% Federal + 20% Non-Federal

Table 7: Federally Funded Projects Year 2018 (Continued)

► Statewide Transportation Enhancements		No Projects Programmed	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
► No Projects Programmed		Statewide Transportation Enhancements Subtotal ►	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
► Statewide ITS		No Projects Programmed	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
► No Projects Programmed		Statewide ITS Subtotal ►	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
► Statewide Interstate Maintenance Program		CHICOPEE, HOLYOKE, INTERSTATE MAINTENANCE & RELATED WORK ON I-391	2	NHPP	\$ 11,074,253	9,986,827.7	1,107,425.3	\$ (12,046,253 NHPP STP-TE) Channed funding source from Statewide Infrastructure Program
607560	Pioneer Valley	No Projects Programmed	Statewide Interstate Maintenance Program Subtotal ►	\$ 11,074,253	\$ 9,986,828	\$ 1,107,425	\$ 90% Federal + 10% Non-Federal	\$ -
► Statewide NHS Preservation Program+ 607474		GRANBY / SOUTH HADLEY, RESURFACING AND RELATED WORK ON ROUTE 202	2	NHPP	\$ 1,988,064	1,590,451.2	397,612.8	Pre 25% (\$1,712,704) nbs
► No Projects Programmed		Statewide NHS Preservation Program Subtotal ►	\$ 1,988,064	\$ 1,590,451	\$ 397,613	\$ 90% Federal + 10% Non-Federal	\$ -	\$ -
► Statewide RR Grade Crossings		No Projects Programmed	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
► No Projects Programmed		Statewide RR Grade Crossings Subtotal ►	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
► Statewide Stormwater Retrots		CHICOPEE, HOLYOKE, INTERSTATE MAINTENANCE & RELATED WORK ON I-391	2	STP-TE	\$ 972,000	777,600.0	194,400.0	\$ (12,046,253 NHPP STP-TE) Channed funding source from Statewide Infrastructure Program Pre 25%
607560	Pioneer Valley	No Projects Programmed	Statewide Stormwater Retrots Subtotal ►	\$ 972,000	\$ 777,600	\$ 194,400	\$ 90% Federal + 20% Non-Federal	\$ -
► Statewide ADA Implementation Plan		No Projects Programmed	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
► No Projects Programmed		Statewide ADA Implementation Plan Subtotal ►	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
► Other Statewide Items		ABP GANS Repayment Award Adjustments, Change Orders, Project Value Changes, Etc.	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		DBEs, FAPO, Pavement Lab Retrolls, and Misc. Programs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		Planning	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		Statewide Design and Right of Way	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		Statewide Recreational Trails	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		Other Statewide Items Subtotal ►	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
► Funding Split Varies by Funding Source								
► Section 2A: Non-Federal Projects								
► Non Federal Aid		No Projects Programmed	NFA	\$ -	\$ -	\$ -	\$ -	\$ -
		No Projects Programmed	NFA	\$ -	\$ -	\$ -	\$ -	\$ -
		Non-Federal Aid Subtotal ►	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
► 100% Non-Federal								
► Section 2B: Non-Federal Bridge Projects								
► Section 2B: Non-Federal Bridge Projects		No Projects Programmed	NFA	\$ -	\$ -	\$ -	\$ -	\$ -
		No Projects Programmed	NFA	\$ -	\$ -	\$ -	\$ -	\$ -
		Section 2B / Non-Federal Bridge Projects Subtotal ►	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
► 100% Non-Federal								
► Total of All Projects								
► TIP Section 1: ▶ TIP Section 2: ▶ ▶								
Total ►	\$ 59,534,760	\$ -	\$ 59,534,760	\$ -	\$ -	\$ -	\$ -	\$ -
Federal Funds ►	\$ 48,945,333	\$ -	\$ 48,945,333	\$ -	\$ -	\$ -	\$ -	\$ -
Non-Federal Funds ►	\$ 10,591,428	\$ -	\$ 10,591,428	\$ -	\$ -	\$ -	\$ -	\$ -
► Total Spending in Region								
► Total Federal Spending in Region								
► Total Non-Federal Spending in Region								

2018 Pioneer Valley TIP Summary

Table 8: Federally Funded Projects Year 2019

Amendment/A dgment Type ▾	MassDOT Project ID ▾	MPO ▾	Municipality Name ▾	MassDOT Project Description ▾	MassDOT District ▾	Funding Source ▾	Total Programmed Funds ▾	Federal Funds ▾	Non-Federal Funds	Additional Information ▾
► Section 1A /Federal Aid Target Projects										
► HSIP - Highway Safety Improvement Program										
	606156	Pioneer Valley	Holyoke	HOLYOKE- RECONSTRUCTION OF I-91 INTERCHANGE 17 & ROUTE 141		HSIP	\$ 1,080,992	\$ 972,893	\$ 108,099	48 TEC Score Pre 25% (YOE \$2,912,000) HSIP, CMAQ
					HSIP Subtotal		\$ 1,080,992	\$ 972,893	\$ -	► 90% Federal + 10% Non-Federal
► CMAQ - Congestion Mitigation and Air Quality Improvement Program										
	606156	Pioneer Valley	Holyoke	HOLYOKE- RECONSTRUCTION OF I-91 INTERCHANGE 17 & ROUTE 141 NORTHAMPTON- INTERSECTION IMPROVEMENTS @ ELM STREET, MAIN STREET, WEST STREET, STATE STREET & NEW SOUTH STREET		CMAQ	\$ 1,831,008	\$ 1,464,806	\$ 366,202	48 TEC Score Pre 25% (YOE \$2,912,000) HSIP, CMAQ
	607883	Pioneer Valley	Northampton			CMAQ	\$ 1,547,092	\$ 1,237,674	\$ 309,418	68 TEC Score Pre 25% (YOE \$1,568,000) CMAQ, TAP
					CMAQ Subtotal		\$ 3,378,100	\$ 2,702,480	\$ 675,620	► 80% Federal + 20% Non-Federal
► TAP - Transportation Alternatives Program										
	607987	Pioneer Valley	Ware	WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH STREET	2	TAP	\$ 453,031	\$ 362,425	\$ 90,606	46 TEC Score Pre 25% (YOE \$2,184,000) STP, TAP
	607883	Pioneer Valley	Northampton	NORTHAMPTON- INTERSECTION IMPROVEMENTS @ ELM STREET, MAIN STREET, WEST STREET, STATE STREET & NEW SOUTH STREET	2	TAP	\$ 20,908	\$ 16,726	\$ 4,182	68 TEC Score Pre 25% (YOE \$1,568,000) CMAQ, TAP
					TAP Subtotal		\$ 473,939	\$ 379,151	\$ 94,788	► 80% Federal + 20% Non-Federal
► Non-CMAQ/HSIP/TAP (Other)										
	600513	Pioneer Valley	Agawam	HOLYOKE- RECONSTRUCTION OF ROUTE 187 FROM 425 FT. SOUTH OF S. WESTFIELD STREET TO ROUTE 57 0.3 MILE	2	STP	\$ 1,744,960	\$ 1,395,968	\$ 348,992	22.5 TEC Score Pre 25% (YOE \$1,744,960) STP
	607987	Pioneer Valley	Ware	WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH STREET	2	STP	\$ 1,730,969	\$ 1,384,775	\$ 346,194	46 TEC Score Pre 25% (YOE \$2,184,000) STP, TAP
	607773	Pioneer Valley	Westfield	WESTFIELD- IMPROVEMENTS & RELATED WORK ON ROUTE 20 COURTY STREET & WESTERN AVENUE, LLOYD'S HILL ROAD TO HIGH STREET/MILL STREET INTERSECTION (PHASE II)	2	STP	\$ 5,098,496	\$ 4,558,789	\$ 1,139,697	38.5 TEC Score 25% (YOE \$5,698,496) STP, (HPP will be used for Phase I (\$2,500,000))
	604209	Pioneer Valley	Holyoke	HOLYOKE- WEST SPRINGFIELD- REHABILITATION OF ROUTE 1 (RIVERDALE ROAD) FROM I-91 (INTERCHANGE 13) TO MAIN STREET IN HOLYOKE & FROM ELM STREET TO NORTH ELM STREET IN WEST SPRINGFIELD (3.2 MILES)	2	STP	\$ 3,225,600	\$ 2,580,480	\$ 645,120	47 TEC Score Pre 25% (YOE \$3,225,600) STP
	608084	Pioneer Valley	Amherst	AMHERST- IMPROVEMENTS & RELATED WORK ON ROUTES 9 & 116, FROM UNIVERSITY DRIVE TO SOUTH PLEASANT STREET (0.8 MILES)	2	STP	\$ 1,406,339	\$ 1,125,071	\$ 281,268	46.5 TEC Score Pre 25% (YOE \$1,406,339) STP
				Non-CMAQ/HSIP/TAP (Other) Subtotal			\$ 13,906,354	\$ 11,045,083	\$ 2,761,271	► 80% Federal + 20% Non-Federal
► Section 1A /Fiscal Constraint Analysis										
	Total Federal Aid Target Funds Programmed									
	Total Non-CMAQ/HSIP/TAP (Other) Programmed									
		\$ 18,739,385	\$ 23,303,483	► Total Target		\$ 4,564,098	Target Funds Available			
		\$ 13,906,354	\$ 18,370,452	► Max Non- CMAQ/HSIP/TAP		\$ 4,564,098	Non-CMAQ/HSIP/TAP (Other) A			
		\$ 1,080,992	\$ 1,080,992	► Min. HSIP		\$ -	-			
		\$ 3,378,100	\$ 3,378,100	► Min. CMAQ		\$ -	-			
		\$ 473,939	\$ 473,939	► Min. TAP		\$ -	-			

Table 8: Federally Funded Projects Year 2019 (Continued)

► Section 1B / Federal Aid Bridge Projects									
► Statewide Bridge Maintenance Program									
No Projects Programmed									
No Projects Programmed									
Statewide Bridge Maintenance Program Subtotal ► \$ - - - - -									
► On System									
606532 Pioneer Valley Northampton NORTHAMPTON BRIDGE RECONSTRUCTION N-19-059 I-91 OVER US 5/BRMR & N-19-060, I-91 OVER HOCKANUM ROAD No Projects Programmed									
2 NHPP									
\$ 29,536,000 \$ 23,628,800 \$ 5,907,200 Total Project Cost is \$53,000,000, A/C to 2020									
On System Subtotal ► \$ 29,536,000 \$ 23,628,800 \$ 5,907,200 ▶ 60% Federal + 20% Non-Federal									
► Off-System ADJUSTMENT: Change Project 606249									
Pioneer Valley Middlefield MIDDLEFIELD- BRIDGE REPLACEMENT, M-19-10, CHESTER ROAD OVER SWAR BROOK									
1 STP-BR-OFF									
\$ 3,138,720 \$ 2,510,976 \$ 627,744									
Off-System Subtotal ► \$ 3,138,720 \$ 2,510,976 \$ 627,744 ▶ 60% Federal + 20% Non-Federal									
► Statewide Bridge Inspection Program									
No Projects Programmed									
No Projects Programmed									
Statewide Bridge Inspection Program Subtotal ► \$ - - - - -									
► Section 1C / Federal Aid Non-Target Projects									
► Other Federal Aid									
No Projects Programmed									
No Projects Programmed									
Other Federal Aid Subtotal ► \$ - - - - -									
► Funding Split Varies by Funding Source									
► Section 1D / Federal Aid Major & State Category Projects									
► Statewide Infrastructure Program									
Statewide Infrastructure Program Subtotal ► \$ - - - - -									
► Statewide HSIP Program									
No Projects Programmed									
No Projects Programmed									
Statewide HSIP Program Subtotal ► \$ - - - - -									
► Statewide Safe Routes to Schools Program									
No Projects Programmed									
No Projects Programmed									
Statewide Safe Routes to Schools Program Subtotal ► \$ - - - - -									
► Funding Split Varies by Funding Source									
► Statewide CMAQ									
No Projects Programmed									
No Projects Programmed									
Statewide CMAQ Subtotal ► \$ - - - - -									
► Funding Split Varies by Funding Source									

Table 8: Federally Funded Projects Year 2019 (Continued)

► Statewide Transportation Enhancements		No Projects Programmed	No Projects Programmed	Statewide Transportation Enhancements Subtotal ►	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	► 80% Federal + 20% Non-Federal
► Statewide ITS		No Projects Programmed	No Projects Programmed	Statewide ITS Subtotal ►	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	► 80% Federal + 20% Non-Federal
► Statewide Interstate Maintenance Program		No Projects Programmed	No Projects Programmed	Statewide Interstate Maintenance Program Subtotal ►	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	► 90% Federal + 10% Non-Federal
► Statewide NHS Preservation Program+		No Projects Programmed	No Projects Programmed	Statewide NHS Preservation Program Subtotal ►	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	► 80% Federal + 20% Non-Federal
► Statewide RR Grade Crossings		No Projects Programmed	No Projects Programmed	Statewide RR Grade Crossings Subtotal ►	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	► 80% Federal + 20% Non-Federal
► Statewide Stormwater Retrosfits		No Projects Programmed	No Projects Programmed	Statewide Stormwater Retrosfits Subtotal ►	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	► 80% Federal + 20% Non-Federal
► Statewide ADA Implementation Plan		No Projects Programmed	No Projects Programmed	Statewide ADA Implementation Plan Subtotal ►	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	► 80% Federal + 20% Non-Federal
► Other Statewide Items		ABP GANS Repayment		Award Adjustments, Change Orders Project Value Changes, Etc.	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
		DBEs, FAOs, Pavement Lab Retrosfits, and Misc. Programs		Planning	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
		Statewide Design and Right of Way		Statewide Recreational Trails	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
		Other Statewide Items Subtotal ►		Other Statewide Items Subtotal ►	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	► Funding Split Varies by Funding Source
► Section 2A / Non-Federal Projects											
► Non Federal Aid		No Projects Programmed	No Projects Programmed	NFA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	► 100% Non-Federal
► Section 2B / Non-Federal Bridge Projects											
► Section 2B / Non-Federal Bridge Projects		No Projects Programmed	No Projects Programmed	NFA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	► 100% Non-Federal
TIP Section 1: ► TIP Section 2: ▼ Total of All Projects											
Total ►		\$ 5,441,105	\$ -	► Total Spending in Region	\$ 5,441,105	\$ -	\$ 5,441,105	\$ -	\$ 5,441,105	\$ -	► Total Spending in Region
Federal Funds ►		\$ 4,259,353	\$ -	► Total Federal Spending in Region	\$ 4,259,353	\$ -	\$ 4,259,353	\$ -	\$ 4,259,353	\$ -	► Total Federal Spending in Region
Non-Federal Funds ►		\$ 10,174,722	\$ -	► Non-Federal Spending in Region	\$ 10,174,722	\$ -	\$ 10,174,722	\$ -	\$ 10,174,722	\$ -	► Non-Federal Spending in Region

2019 Pioneer Valley TIP Summary

PROJECT CURRENTLY UNDER DESIGN AWAITING FUNDING

Table 9: Projects Awaiting Design and Funds (Appendix Z)

2016-2019 TIP Year	2015-2018 TIP Year	Community	SID	Project Name and Description	Design	New TEC	Old TEC	Estimated Cost
2016	2016	Westfield	604446	RECONSTRUCTION OF ROUTE 187 (LITTLE RIVER ROAD) AND SHAKER ROAD - 300 METERS SOUTH OF ROUTE 20 TO 460 METERS EAST OF SHAKER RD (.8 MILES)	100	46.5	8.37	\$6,206,561
		Westfield	604445	RECONSTRUCTION ON ROUTE 187, INCLUDES REPLACEMENT OF W-25-002, SHERMAN'S MILL BRIDGE OVER GREAT BROOK AT PONTOOSIC ROAD	75	42.3	7.60	\$6,926,210
2016	2015	Wilbraham	607869	WILBRAHAM- RECONSTRUCTION OF BOSTON ROAD (ROUTE 20) FROM DUDLEY STREET TO 400FT. EAST OF DUMAINE STREET (0.28MILES)	100	40.0	7.27	\$1,292,428
		Agawam	607626	A GAWAM- RESURFACING & RELATED WORK ON ROUTE 159, FROM MEADOW STREET TO 150 FT. SOUTH OF SUFFIELD STREET (1.1 MILES)	75	34.0	0.00	\$1,450,000
2018	2018	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
2017	2017	Longmeadow	606445	RESURFACING & RELATED WORK ON CONVERSE STREET, FROM LAUREL STREET TO DWIGHT STREET (2.04 MILES)	25/75	36.4	6.55	\$1,967,500
2018	2018	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
2015		Hadley / West Brookfield	608023	Sidewalk and Wheelchair Ramp Construction of Route 9	PS&E	13.5		\$1,531,865
2016	2016	Springfield	605385	SIGNAL & INTERSECTION IMPROVEMENTS @ ROOSEVELT AVENUE & ISLAND POND ROAD, ROOSEVELT AVENUE & ALDEN STREET	25	62.5	5.47	\$2,297,372
2017	2016	Northampton	180525	RECONSTRUCTION OF DAMON ROAD, FROM ROUTE 9 INTERSECTION TO ROUTE 5 INTERSECTION (1.1 MILES)	25	61.5	8.55	\$5,000,000
2018	2018	Northampton	604597	I-91 INTERCHANGE 19 IMPROVEMENTS AT ROUTE 9 AND DAMON RD	25	61.0	7.78	\$4,500,000
2017 SW Off TIP	2016 SW CMAQ	Southwick	603477	SOUTHWICK- INTERSECTION IMPROVEMENTS AT FOUR LOCATIONS ON ROUTE 57 (FEEDING HILLS ROAD)	25	47.0	7.75	\$4,198,200
2017 SW CMAQ	2017 Hadley	605032	RECONSTRUCTION ON ROUTE 9 BETWEEN THE LOWES AND HOME DEPOT SITE DRIVES (0.6 MILES)	25	45.0	7.83	\$4,428,122	
2016	2016 Ludlow	606555	NORTHAMPTON- ROUNDABOUT CONSTRUCTION AT INTERSECTION ROUTES 5/10 (NORTH KING STREET) & HATHFIELD STREET	25	42.5	7.18	\$2,917,000	
2018	Holyoke	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	
2018		607256	RESURFACING & RELATED WORK ON HERITAGE STREET, FRONT STREET & DWIGHT STREET FROM MAPLEST TO THE 1ST LEVEL CANAL (.54 MILES)	25	39.0	7.97	\$2,874,096	
2019	Westfield	607773	WESTFIELD- IMPROVEMENTS & RELATED WORK ON ROUTE 20, COURT STREET & WESTERN AVENUE, LLOYD'S HILL ROAD TO HIGH STREET/MILL STREET INTERSECTION (PHASE II) Eastern Section	25	38.5	8.97	\$5,087,934	

Table 9: Projects Awaiting Design and Funds (Appendix Z) (Cont.)

2017	2017	Southwick	604033 RECONSTRUCTION CONGAMOND ROAD (ROUTE 168) - FROM COLLEGE HIGHWAY & ENDS 250 FEET SHORT OF STATE LINE (1.2 MILES)	25	38.0	6.52	\$5,575,500
		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
		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
		Holland	604962 RESURFACING & RELATED WORK ON BRIMFIELD ROAD, FROM THE BRIMFIELD/HOLLAND TL. TO THE INTERSECTION OF STAFFORD STREET (2.3 MILES)	25	31.6	5.68	\$1,500,000
		Southampton	604653 REHABILITATION OF EAST STREET - FROM COLLEGE HIGHWAY EASTERLY TO COUNTY ROAD (2.6 MILES)	25	31.0	6.03	\$5,022,200
2019	2017	Goshen	602888 Route 9 reconstruction	25	28.0	6.20	\$7,500,000
		Agawam	600513 RECONSTRUCTION OF ROUTE 187 FROM 425 FT. SOUTH OF S. WESTFIELD STREET TO ROUTE 57 (0.3 MILES - PHASE I)	25	22.5	6.08	\$1,558,080
		Goshen	605150 West Street Reclamation	25	16.1	2.90	\$2,800,000
2019		Northampton	607893 NORTHAMPTON- INTERSECTION IMPROVEMENTS @ ELM STREET, MAIN STREET, WEST STREET, STATE STREET & NEW SOUTH STREET	0	68.0		\$1,400,000
2017	2017	Agawam	604203 Route 187/57 Intersection Improvements	0	58.5	8.73	\$1,600,000
2018	2017	Northampton	607502 INTERSECTION IMPROVEMENTS AT KING STREET, NORTH STREET & SUMMER STREET AND AT KING STREET & FINN STREET	0	57.0	7.40	\$1,633,150
2019		Holyoke	606156 RECONSTRUCTION OF I-91 INTERCHANGE 17 & ROUTE 141	0	48.0	5.45	\$2,600,000
2018	2018	Chicopee	604434 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		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	47.0	7.82	\$2,380,000
2019		Anherst	608084 Improvements and Related Work on Route 9 and 116 from University Drive to South Pleasant Street (0.8 miles)	0	46.5		\$1,255,660
2019		Ware	607987 WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH STREET	0	46.0		\$1,950,000
2019		Granby	606895 Route 202 Intersection Improvements 2 Locations @ 5 Corners and @ School Street	0	41.5	6.00	\$500,000

Table 9: Projects Awaiting Design and Funds (Appendix Z) (Cont.)

		Northampton	605048	IMPROVEMENTS ON ROUTE 5 (MOUNT TOM ROAD) - FROM BRIDGE E-5-4 OVER THE MANHAN RIVER TO 850' SOUTH OF I-91 NB EXIT 18 RAMP (0.85 MILES)	0	40.0	5.82	\$1,200,112
		Hadley	605881	RECONSTRUCTION ON ROUTE 9, FROM MIDDLE STREET (ROUTE 47) TO EAST OF MILL VALLEY ROAD (LOWES) (1.27 MILES)	0	40.0	8.12	\$6,900,000
2019		Chicopee	607736	SIGNAL & INTERSECTION IMPROVEMENTS AT 111 INTERSECTIONS ALONG ROUTE 33 (MEMORIAL DRIVE), FROM FULLER ROAD TO BRITTON STREET	0	38.5	7.15	\$4,016,980
2017	2017	Holyoke	606903	IMPROVEMENTS TO LOWER WESTFIELD ROAD ON I-91 (INTERCHANGE 15)	0	37.5	6.67	\$1,031,250
2017 SW-CMAQ	2016 SW-CMAQ	Holyoke	606450	TRAFFIC SIGNAL UPGRADES AT 15 INTERSECTIONS ALONG HIGH & MAPLE STREETS	0	36.5	5.98	\$1,564,867
		Westfield	603449	ROUTE 20 ACCESS IMPROVEMENTS ON COURT STREET & WESTERN AVENUE HPP \$2,503,688	0	36.0	8.97	\$2,702,868
		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
		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
		Southwick	606141	RECONSTRUCTION OF FEEDING HILLS ROAD (ROUTE 57), FROM COLLEGE HIGHWAY TO THE AGAWAM T.L.	0	33.5	5.13	\$4,080,000
		South Hadley	607735	SOUTH HADLEY- SIGNAL & INTERSECTION IMPROVEMENTS AT ROUTE 202 (GRANBY ROAD) & ROUTE 33 (LYMAN STREET)	0	33.0	6.40	\$500,000
		Worthington	606912	Route 143 Reconstruction and Related Work	0	28.5	4.22	\$12,500,000
		Northampton	607501	INTERSECTION IMPROVEMENTS @ NORTH ELM STREET, ELM STREET & WOODLAWN IN A VENUE	0	28.0	5.55	\$1,498,520
		Hadley	602796	RECONSTRUCTION OF SOUTH MAPLE STREET, FROM ROUTE 9 (RUSSELL STREET) SOUTHERLY TO BAY ROAD, INCLUDES REHAB OF HIGH-01-006 (2.7 MILES)	0	27.4	4.93	\$5,000,000
		Belchertown / Granby	604819	RESURFACING & RELATED WORK ON ROUTE 202	0	25.0	5.63	\$4,687,500
		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
		Brimfield / Sturbridge	608022	Resurfacing and Related work on Route 20 from W. Old Sturbridge Road (MM 88.3) to Old Streeter Road (MM92.1)	0	22.5		\$3,500,000
		Hadley	608089	INTERSECTION, BICYCLE AND PEDESTRIAN IMPROVEMENTS @ ROUTES 9, 116 & WESTGATE CENTER DRIVE	0	22.5		\$1,544,720
		Palmer	603873	RESURFACING & RELATED WORK ON ROUTE 20 - FROM EAST OF RTE 32 INTERSECTION EASTERLY TO MM 81.7 (2.0 MILES)	0	22.0	4.40	\$1,200,000

Table 9: Projects Awaiting Design and Funds (Appendix Z) (Cont.)

	2017 NHPP	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	\$1,410,000
	West Springfield		604746	BRIDGE REPLACEMENT, W-21-006, CSX RAILROAD OVER UNION STREET	0	20.0	11.12	\$13,616,254	
	South Hadley		606452	RESURFACING & RELATED WORK ON ROUTE 116 (AMHERST ROAD), FROM WOODBRIDGE STREET TO PEARL STREET	0	20.0	4.22	\$1,630,070	
	Southwick		604153	RESURFACING & RELATED WORK ON ROUTE 10/202 (COLLEGE HIGHWAY - SOUTHERLY SECTION) FROM 0.2 MILES SOUTH OF ROUTE 57, WEST TO THE CT STATE LINE (4.2 MILES)	0	17.5	5.77	\$2,600,000	
	Palmer		601504	RECONSTRUCTION OF ROUTE 32, FROM 765 FT. SOUTH OF STIMSON STREET TO 1/2 MILES SOUTH OF RIVER STREET (PHASE I) (1.63 MILES)	0	17.0	7.58	\$6,134,080	
	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	17.0	5.80	\$1,440,000	
	Hadley		606547	PEDESTRIAN SIGNAL INSTALLATION AT 2 LOCATIONS ALONG ROUTE 9 NEAR WEST ST	0	14.0	0.00	\$134,600	
	Ware		603874	RESURFACING & RELATED WORK ON ROUTE 9, FROM .1 MILE WEST OF THE WARE T.L. EASTERLY TO MM 64.7 IN WARE (2.1 MILES)	0	13.5	3.03	\$1,273,145	
	Palmer		607372	PALMER- RECONSTRUCTION OF ROUTE 32, FROM 1/2 MILE SOUTH OF RIVER STREET TO THE WARE T.L. (PHASE II) (2.1 MILES)	0	13.0	4.38	\$8,476,770	
	Easthampton / Southampton / Williamsburg		608026	SIDEWALK CONSTRUCTION & RELATED WORK ON ROUTE 10, FROM MM 19.9 NORTHERLY TO MM 20.9 (600' SOUTH OF SOUTH STREET)	0	0	13.0	\$422,505	
	Agawam		607231	Reconstruction of High Street and Mountain Street	0	0	12.5	4.42	\$3,600,000
	Wales		607876	Sidewalk Construction on Route 159 From CT Line to Woodcliff Ave and From South St to River Road	0	0	12.5	2.43	\$450,265
	Chicopee		605669	PEDESTRIAN ACCESS IMPROVEMENTS & RELATED WORK ON ROUTE 19	0	0	10.0	4.30	\$312,500
	Cummington		606892	SLOPE PROTECTION IMPROVEMENTS AT I-391 BRIDGE OVER THE CONNECTICUT RIVER	0	0	5.5	0.00	\$282,650
	Longmeadow / Springfield		606797	Route 9 Retaining Wall	0	0	4.5	4.4	\$1,660,000
	2018 NHPP	Chicopee/Holyoke	607560	INTERSTATE MAINTENANCE & RELATED WORK ON I-391	0	0	0	0	\$10,911,130
	Hadley		607886	RESURFACING AND RELATED WORK ON ROUTE 47 FROM COMINS DRIVE TO OLD RIVER DRIVE, INCLUDES CULVERT REPLACEMENT AT RUSSELVILLE BROOK	0	0	2.88	\$900,000	
	Goshen		608126	GOSHEN- RESURFACING AND RELATED WORK ON ROUTE 9 FROM CUMMINGTON T.L. TO ROUTE 112 (CAPE STREET)	0	0	0	0	\$3,500,000

Table 9: Projects Awaiting Design and Funds (Appendix Z - CMAQ) (Cont.)

2016-2019 TIP Year	2015 - 2018 TIP Year	Community	SID	Project Name and Description	Design TFC Old TFC	New TFC Old TFC	Estimated Cost
2017	2017	Agawam	604203	Route 187/57 Intersection Improvements	0	58.5	8.73
2018 SW CMAQ	2018 SW CMAQ	Chicopee	602912	CHICOPEE RIVER RIVERWALK MULTI-USE PATH CONSTRUCTION, FROM GRAPE STREET TO FRONT STREET (NEAR ELLERTON STREET) (1 MILE)	25	27.9	5.02
2017 SW CMAQ	2016 SW CMAQ	Chicopee	602911	CONNECTICUT RIVERWALK & BIKEWAY CONSTRUCTION, FROM BOAT TRAMP NEAR I-90 TO NASH FIELD (2.5 MILES) INCL NEW BRIDGE OVER OVERFLOW CHANNEL	25	27.0	4.85
2018	2018	Chicopee	604434	RECONSTRUCTION & RELATED WORK ON FULLER ROAD, FROM MEMORIAL DR (RUE 33) TO SHAWINGAN DR (2.0 MILES)	0	47.6	8.57
2019		Chicopee	607736	CHICOPEE-SIGNAL & INTERSECTION IMPROVEMENTS AT 11 INTERSECTIONS ALONG ROUTE 33 (MEMORIAL DRIVE), FROM FULLER ROAD TO BRITTON STREET	0	38.5	7.15
2019		Granby	606895	Route 202 Intersection Improvements 2 Locations @ 5 Corners and @ School Street	0	41.5	6.00
2019		Holyoke	606156	RECONSTRUCTION OF I-91 INTERCHANGE 17 & ROUTE 141	0	48	5.45
2017	2017	Holyoke	606903	IMPROVEMENTS TO LOWER WESTFIELD ROAD ON I-91 (INTERCHANGE 15)	0	37.5	6.67
2017 SW CMAQ	2016 SW CMAQ	Holyoke	606450	TRAFFIC SIGNAL UPGRADES AT 15 INTERSECTIONS ALONG HIGH & MAPLE STREETS	0	36.5	5.98
2018	2018	Northampton	604597	I-91 INTERCHANGE 19 IMPROVEMENTS AT ROUTE 9 AND DAMON RD	25	61	7.78
2017 SW CMAQ	2016 SW CMAQ	Northampton	606555	Roundabout Construction Route 5/10 (North King Street) @ Hatfield Street	25	42.5	7.18
2018	2017	Northampton	607502	INTERSECTION IMPROVEMENTS AT KING STREET, NORTH STREET & SUMMER STREET AND AT KING STREET & FINN STREET	0	57	7.40
		Northampton	607501	INTERSECTION IMPROVEMENTS @ NORTH ELM STREET, ELM STREET & WOODLAWN AVENUE	0	28	5.55
		Northampton, Amherst, Holyoke, Springfield	607735	Pioneer Valley Regional Bike Share	0	30.0	\$1,152,000
		South Hadley	607823	SOUTH HADLEY- SIGNAL & INTERSECTION IMPROVEMENTS AT ROUTE 202/GRANBY ROAD & ROUTE 33 (LYMAN STREET)	0	33	6.40
		Southampton	603477	GREENWAY RAIL TRAIL CONSTRUCTION, FROM COLEMAN RD TO ROUTE 10 (3.5 MILES)	0		\$6,080,722
2017 SW CMAQ	2016 SW CMAQ	Southwick	603477	Intersection Improvements at Four Locations on Route 57 (Feeding Hills Road)	25	47	7.75
2016	2016 CMAQ	Springfield	605385	SIGNAL & INTERSECTION IMPROVEMENTS @ ROOSEVELT AVENUE & ISLAND POND ROAD, ROOSEVELT AVENUE & ALDEN STREET	25	62.5	5.47
		Ware	607987	WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH STREET SECTION, FROM COWLES COURT ACCESS RAMPS TO THE WESTFIELD RIVER BRIDGE, INCLUDES REHAB OF W-25-036 (WESTFIELD RIVER CROSSING)*-*-*#*#*	0	46.0	\$1,950,000
2016	2016 HPP / CMAQ	Westfield	604968	(federal) \$2,250,000 total*-*-*#*	75	38.83	6.98
		Westfield	603783	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	75	36.60	\$3,720,000
		Westfield	608073	WESTFIELD RIVER LEVEE MULTI-USE PATH CONSTRUCTION, FROM CONGRESS ST TO WILLIAMS RIDING WAY (NEAR MEADOW ST) (2MILES)	0	40	\$4,801,730

Table 10: Projects Awaiting Design and Funds (Appendix Z) (Cont.) High Priority Project Listing (HPP)

Project Description	City/Town	Project ID	Funding	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							
Route 32 Ware Road Reconstruction (\$22,854,850)	Westfield	603449	HPP-4287	\$2,002,950	\$500,738	\$2,503,688	
	Palmer	601504	HPP-4287	\$2,303,744	\$575,936	\$2,879,680	#602844 was advertised on 9/30/06; #604443 was
		602844;					advertised on 8/8/09
Design and construction of Southwick and Westfield Rail Trail	Southwick/Westfield	603783	HPP-1656	\$1,857,506	\$464,377	\$46,779	#604451 was advertised on 9/1/2007
*Construct Access roads to Hospital Hill (\$1,652,818)	Northampton	604451	HPP-158	\$302,865	\$75,716	\$378,581	
*State St. Corridor Redevelopment Project (\$18,052,897)	Springfield	604447	HPP-217	\$899,056	\$224,764	\$1,123,820	#604447 was advertised on 9/22/07
*Design and construct 1.5 mile Red Stone Rail Trail(\$1,112,074)	East Longmeadow	602338	HPP-578	\$224,764	\$56,191	\$280,955	#602338 was advertised 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 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 on 9/30/2000
Total Project Cost				\$8,049,320	\$2,012,330	\$10,061,650	
Earmarks located in Appendix Z will remain un-programmed until full project funding is available							

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

V. Transit Project Listing for FFY 2016-2019

The following is a complete listing of programmed transit projects for FFY 2016-2019

Table 11: FFY 2016 Transit Project Information

Transportation Improvement Program (TIP)

Project List (FY2016)

FTA Program		Transit Agency	FTA Activity Line Item	Project Description	Carryover or Earmark Detail	Federal Funds	RTACAP	MAP	ICB TDC	SCA	LocalFunds	Total Cost
5307	Pioneer Valley Transit Authority	114220	Communications Sys, Including ITS (Match for FY15)		\$372,800 Subtotal	\$1,208,936 \$372,800	\$0	\$0	\$0	\$0	\$0	\$1,581,736
5309					Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5310					Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5311					Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5337					Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5339	Pioneer Valley Transit Authority	114220	Communications Sys, Including ITS (Match for FY15)		\$12,055 Subtotal	\$3,014 \$12,055	\$0	\$0	\$0	\$0	\$0	\$15,069
5320					Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Federal					Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Non-Federal					Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Non-Federal	Pioneer Valley Transit Authority	111215	Purchase - Replacement: Vans (30)		\$0	\$2,873,700	\$0	\$0	\$0	\$0	\$0	\$2,873,700
Other Non-Federal	Pioneer Valley Transit Authority	114206	Rehab/Renovation: Shop Equipment (Match for FY15)		\$0	\$10,000	\$0	\$0	\$0	\$0	\$0	\$10,000
Other Non-Federal	Pioneer Valley Transit Authority	119302	Transit Enmts: Shelters, etc. (Match for FY15)		\$0	\$30,000	\$0	\$0	\$0	\$0	\$0	\$30,000

Table 11: FFY 2016 Transit Project Information (cont.)

Other Non-Federal Other	Pioneer Valley Transit Authority	119308	Transit Enmts; Signs/Lighting (Match for FY15)	\$0	\$20,000	\$0	\$0	\$0	\$0	\$20,000
Non-Federal Other	Pioneer Valley Transit Authority	117A00	Preventive Maintenance (Match for FY15)	\$0	\$0	\$0	\$0	\$425,895	\$0	\$425,895
Non-Federal Other	Pioneer Valley Transit Authority	117C00	NON FIXED ROUTE ADA PARA SERV - (Match for FY15)	\$0	\$0	\$0	\$0	\$298,853	\$0	\$298,853
Non-Federal Other	Pioneer Valley Transit Authority	114211	ACQUIRE - SUPPORT VEHICLES, (1) (Match for FY15)	\$0	\$20,000	\$0	\$0	\$0	\$0	\$20,000
Non-Federal Other	Pioneer Valley Transit Authority	114402	Environmental Compliance (Match for FY15)	\$0	\$20,000	\$0	\$0	\$0	\$0	\$20,000
Non-Federal Other	Pioneer Valley Transit Authority	114303	CONSTRUCT - Springfield O&M FACILITY	\$0	\$3,150,000	\$0	\$0	\$0	\$0	\$3,150,000
Non-Federal Other	Pioneer Valley Transit Authority	111301	BUY 40-FT BUS FOR EXPANSION (4) - Match for FY 15	\$0	\$395,640	\$0	\$0	\$0	\$0	\$395,640
Non-Federal Other	Pioneer Valley Transit Authority	111201	BUY REPLACEMENT 40-FT BUS (6) Match for FY 15	\$0	\$593,460	\$0	\$0	\$0	\$0	\$593,460
Non-Federal Other	Pioneer Valley Transit Authority	111202	BUY REPLACEMENT 35-FT BUS (5) - Match for FY15	\$0	\$489,549	\$0	\$0	\$0	\$0	\$489,549
Non-Federal Other	Pioneer Valley Transit Authority	442301	Planning (Match for FY15)	\$0	\$0	\$0	\$0	\$54,000	\$0	\$54,000
Non-Federal Other	Pioneer Valley Transit Authority	111301	BUY 40-FT BUS FOR EXPANSION (2) (Match for FY15)	\$0	\$203,195	\$0	\$0	\$0	\$0	\$203,195
Non-Federal Other	Pioneer Valley Transit Authority	111216	BUY REPL SEDAN/STAWGN (3) (Match for FY15)	\$0	\$16,800	\$0	\$0	\$0	\$0	\$16,800
Non-Federal Other	Pioneer Valley Transit Authority	113303	TERMINAL, INTERMODAL (TRANSIT) - WESTFIELD	\$0	\$154,063	\$0	\$0	\$0	\$0	\$154,063
Non-Federal Other	Pioneer Valley Transit Authority	114402	REHAB/RENOVATE - SATCO MAINTENANCE FACILITY	\$0	\$175,000	\$0	\$0	\$0	\$0	\$175,000
Non-Federal Other	Pioneer Valley Transit Authority	111301	Rehab/Renovations: Northampton (Match for FY15)	\$0	\$5,000	\$0	\$0	\$0	\$0	\$5,000
Non-Federal Other	Pioneer Valley Transit Authority		BUY 40-FT BUS FOR EXPANSION (2) (Match for FY15)	\$0	\$196,805	\$0	\$0	\$0	\$0	\$196,805
Subtotal				\$0	\$8,353,212	\$0	\$0	\$778,748	\$0	\$9,131,960
Total				\$384,855	\$9,565,162	\$0	\$0	\$778,748	\$0	\$10,728,765

Table 12: FFY 2017 Transit Project Information

FTA Program	Transit Agency	FTA Activity Line Item	Project Description	Carryover or Earmark Detail		Federal Funds	RTACAP	MAP	ICB	TDC	SCA	Local Funds	Total Cost
				2016	\$80,000								
5307	Pioneer Valley Transit	114406	Purchase/Renovate Shop Equipment Transit Enhancements: Shelters, benches, etc.	2016	\$80,000	\$20,000	\$0	\$0	\$0	\$0	\$0	\$0	\$100,000
5307 Authority	Pioneer Valley Transit	119302		2016	\$60,000	\$15,000	\$0	\$0	\$0	\$0	\$0	\$0	\$75,000
5307 Authority	Pioneer Valley Transit	119308	Transit Enhancements: Signs/Lighting Rehab/Renovation: Communications Systems (ITS)	2016	\$8,000	\$2,000	\$0	\$0	\$0	\$0	\$0	\$0	\$10,000
5307 Authority	Pioneer Valley Transit	114220		2016	\$3,000,785	\$1,164,877	\$0	\$0	\$0	\$0	\$0	\$0	\$4,165,662
5307 Authority	Pioneer Valley Transit	442301	Planning	2016	\$236,000	\$0	\$0	\$0	\$0	\$59,000	\$0	\$0	\$295,000
5307 Authority	Pioneer Valley Transit	117C00	ADA Operating Projects	2016	\$1,207,364	\$0	\$0	\$0	\$0	\$301,841	\$0	\$0	\$1,509,205
5307 Authority	Pioneer Valley Transit	117A00	Preventive Maintenance	2016	\$2,500,000	\$0	\$0	\$0	\$0	\$625,000	\$0	\$0	\$3,125,000
5307 Authority	Pioneer Valley Transit	111304	BUY <30-FT BUS FOR EXPANSION BUY REPL SEDAN/STATION WAGON, (8)	2016	\$456,000	\$114,000	\$0	\$0	\$0	\$0	\$0	\$0	\$570,000
5307 Authority	Pioneer Valley Transit	111216	REHAB/RENOVATE - Environmental Compliance	2016	\$192,000	\$48,000	\$0	\$0	\$0	\$0	\$0	\$0	\$240,000
5307 Authority	Pioneer Valley Transit	114402	CONSTRUCT BICYCLE ACCESS, FACIL & EQUIP ON BUSES REHAB/RENOVATE - MAINTENANCE FACILITY, SATCO	2016	\$120,000	\$30,000	\$0	\$0	\$0	\$0	\$0	\$0	\$150,000
5307 Authority	Pioneer Valley Transit	119306	TERMINAL, INTERMODAL (TRANSIT), Northampton, YR 1	2016	\$6,400	\$1,600	\$0	\$0	\$0	\$0	\$0	\$0	\$8,000
5307 Authority	Pioneer Valley Transit	114402		2016	\$480,000	\$120,000	\$0	\$0	\$0	\$0	\$0	\$0	\$600,000
5307 Authority	Pioneer Valley Transit	113303		2016	\$120,000	\$30,000	\$0	\$0	\$0	\$0	\$0	\$0	\$150,000
5307 Authority	Pioneer Valley Transit	111306	Purchase - Expansion: Buses (8) BUY REPL SEDAN/Vans (non accessible) (5)	2016	\$3,296,000	\$824,000	\$0	\$0	\$0	\$0	\$0	\$0	\$4,120,000
5307 Authority	Pioneer Valley Transit			2016	\$112,000	\$28,000	\$0	\$0	\$0	\$0	\$0	\$0	\$140,000
				Subtotal	\$11,874,549	\$2,397,477	\$0	\$0	\$0	\$985,841	\$0	\$0	\$15,257,867

Table 13: FFY 2017 Transit Project Information (Continued)

5309			Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5310			Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5311			Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5337			Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5339			Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5320			Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Federal			Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Non-Federal											
Other Non-Federal Authority	Pioneer Valley Transit	111215	Purchase - Replacement: Vans (20)	\$0	\$1,970,000	\$0	\$0	\$0	\$0	\$0	\$1,970,000
Other Non-Federal Authority	Pioneer Valley Transit	114302	CONSTRUCT - MAINT FACILITY, Spfd.O&M, Yr 3	\$0	\$44,200,000	\$0	\$0	\$0	\$0	\$0	\$44,200,000
				Subtotal	\$0	\$46,170,000	\$0	\$0	\$0	\$0	\$46,170,000
				Total	\$11,874,549	\$48,567,477	\$0	\$0	\$985,841	\$0	\$61,427,867

Table 13: FFY 2018 Transit Project Information

FTA Program	Transit Agency	FTA Activity Line Item	Project Description	Carryover or Earmark Detail	Federal Funds	RTACAP	MAP ICB TDC	SCA	Local Funds	Total Cost
5307	Pioneer Valley Transit Authority	117A00	Preventive Maintenance	2017	\$2,500,000	\$0	\$0	\$0	\$625,000	\$0
5307	Pioneer Valley Transit Authority	117C00	ADA Operating Projects	2017	\$1,219,438	\$0	\$0	\$0	\$304,859	\$0
5307	Pioneer Valley Transit Authority	442301	Planning	2017	\$236,000	\$0	\$0	\$0	\$59,000	\$0
5307	Pioneer Valley Transit Authority	114406	Rehab/Renovation: Shop Equipment	2017	\$600,000	\$150,000	\$0	\$0	\$0	\$750,000
5307	Pioneer Valley Transit Authority	119302	Transit Enhancements: Shelters	2017	\$6,443	\$68,557	\$0	\$0	\$0	\$75,000
5307	Pioneer Valley Transit Authority	119308	Transit Enhancements: Signs/Lighting	2017	\$12,000	\$3,000	\$0	\$0	\$0	\$15,000
5307	Pioneer Valley Transit Authority	114220	Misc. Communications Systems and ITS	2017	\$3,129,215	\$782,304	\$0	\$0	\$0	\$3,911,519
5307	Pioneer Valley Transit Authority	111216	BUY REPL SEDAN/STATION WAGON, (6) REHAB/RENOVATE - Environmental	2017	\$144,000	\$36,000	\$0	\$0	\$0	\$180,000
5307	Pioneer Valley Transit Authority	114402	Compliance CONSTRUCT BICYCLE ACCESS, FACIL & EQUIP ON BUSES	2017	\$88,000	\$22,000	\$0	\$0	\$0	\$110,000
5307	Pioneer Valley Transit Authority	119306	TERMINAL, INTERMODAL (TRANSIT), Northampton, Yr 2	2017	\$9,600	\$2,400	\$0	\$0	\$0	\$12,000
5307	Pioneer Valley Transit Authority	113303	BUY REPLACEMENT 40-FT BUS (10)	2017	\$640,000	\$160,000	\$0	\$0	\$0	\$800,000
5307	Pioneer Valley Transit Authority	111201	BUY REPLACEMENT 40-FT BUS (10)	2017	\$3,029,003	\$757,250	\$0	\$0	\$0	\$3,786,253
5307	Pioneer Valley Transit Authority	111304	BUY <30-FT BUS FOR EXPANSION (2)	2017	\$152,000	\$38,000	\$0	\$0	\$0	\$190,000
Subtotal				\$11,765,699	\$2,019,511	\$0	\$0	\$0	\$988,859	\$0
										\$14,774,069

Table 13: FFY 2018 Transit Project Information (Continued)

5309			Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5310			Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5311			Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5337			Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5339			Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Pioneer Valley Transit											
5339 Authority	111201	BUY REPLACEMENT 40-FT BUS	Subtotal	\$829,117	\$207,280	\$0	\$0	\$0	\$0	\$0	\$1,036,397
5320			Subtotal	\$829,117	\$207,280	\$0	\$0	\$0	\$0	\$0	\$1,036,397
Other Federal			Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Non-Federal			Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Non-Federal Authority	111216	Purchase - Replacement: Vans (20)		\$0	\$1,827,000	\$0	\$0	\$0	\$0	\$0	\$1,827,000
Other Non-Federal Authority	114211	ACQUIRE - SUPPORT VEHICLES, (5)		\$0	\$420,000	\$0	\$0	\$0	\$0	\$0	\$420,000
Other Non-Federal Authority	114302	CONSTRUCT: MAINT FACILITY, Spfld.Q&M, Yr 4		\$0	\$24,100,000	\$0	\$0	\$0	\$0	\$0	\$24,100,000
Other Non-Federal Authority	111202	BUY REPLACEMENT 35-FT BUS (8)		\$0	\$3,710,000	\$0	\$0	\$0	\$0	\$0	\$3,710,000
Other Non-Federal Authority	111203	BUY REPLACEMENT 30-FT BUS (9)	Subtotal	\$0	\$3,675,000	\$0	\$0	\$0	\$0	\$0	\$3,675,000
			Total	\$12,594,816	\$35,958,791	\$0	\$0	\$0	\$0	\$0	\$49,542,466

Table 14: FFY 2019 Transit Project Information

FTA Program 5307	Transit Agency	FTA Activity Line Item	Project Description	Carryover or Earmark Detail		Federal Funds	RTACAP	MAP	ICB	TDC	SCA	Local Funds	Total Cost
				2018	\$782,701 \$2,706,487	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,489,188
5307 Authority	Pioneer Valley Transit	111306	BUY ARTIC BUS FOR EXPANSION (8)	2018	\$1,672,000	\$418,000	\$0	\$0	\$0	\$0	\$0	\$0	\$2,090,000
5307 Authority	Pioneer Valley Transit	111215	BUY REPLACEMENT VAN (20)	2018	\$60,000	\$15,000	\$0	\$0	\$0	\$0	\$0	\$0	\$75,000
5307 Authority	Pioneer Valley Transit	114211	ACQUIRE - SUPPORT VEHICLES, (1)	2018	\$240,000	\$60,000	\$0	\$0	\$0	\$0	\$0	\$0	\$300,000
5307 Authority	Pioneer Valley Transit	111216	BUY REPL SEDAN/STATION WAGON, (10)	2018	\$240,000	\$60,000	\$0	\$0	\$0	\$0	\$0	\$0	\$300,000
5307 Authority	Pioneer Valley Transit	114406	REHAB/RENOVATE - SHOP EQUIPMENT	2018	\$88,000	\$22,000	\$0	\$0	\$0	\$0	\$0	\$0	\$110,000
5307 Authority	Pioneer Valley Transit	114402	REHAB/RENOVATE - Environmental Compliance	2018	\$60,000	\$15,000	\$0	\$0	\$0	\$0	\$0	\$0	\$75,000
5307 Authority	Pioneer Valley Transit	119302	CONSTRUCTION - BUS SHELTERS	2018	\$40,000	\$10,000	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000
5307 Authority	Pioneer Valley Transit	119308	CONSTRUCT SIGNAGE	2018	\$4,800	\$1,200	\$0	\$0	\$0	\$0	\$0	\$0	\$6,000
5307 Authority	Pioneer Valley Transit	119306	CONSTRUCT CYCLE ACCESS, FACIL & EQUIP ON BUSES	2018	\$2,975,797	\$743,949	\$0	\$0	\$0	\$0	\$0	\$0	\$3,719,746
5307 Authority	Pioneer Valley Transit	116220	PURCHASE MISC COMMUNICATIONS EQUIP., IT systems	2018	\$232,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$290,000
5307 Authority	Pioneer Valley Transit	442400	SHORT RANGE TRANSIT PLANNING	2018	\$1,231,632	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,539,540
5307 Authority	Pioneer Valley Transit	117C00	NON FIXED ROUTE ADA PARA SERV	2018	\$2,500,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,125,000
5307 Authority	Pioneer Valley Transit	117A00	PREVENTIVE MAINTENANCE	2018	\$10,126,930	\$4,051,636	\$0	\$0	\$0	\$0	\$0	\$0	\$15,169,474
Subtotal													

Table 14: FFY 2019 Transit Project Information (Continued)

5309				Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5310				Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5311				Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5337				Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5339				Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Pioneer Valley Transit Authority	111301	BUY 40-FT BUS FOR EXPANSION (7)		2018	\$3,026,800	\$756,700	\$0	\$0	\$0	\$0	\$3,783,500
				Subtotal	\$3,026,800	\$756,700	\$0	\$0	\$0	\$0	\$3,783,500
5320				Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Federal				Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Non-Federal				Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Non-Federal Authority	114403	REHAB/RENOVATE - Holyoke ADMIN/MAINT FACILITY		Subtotal	\$0	\$250,000	\$0	\$0	\$0	\$0	\$250,000
				Total	\$13,153,730	\$5,058,336	\$0	\$0	\$990,908	\$0	\$19,202,974

VI. STATEWIDE FEDERAL AID PROJECT LISTING

The MassDOT provided each planning agency a listing of statewide items anticipated for FFY 2016 to 2019. These items are to be funded separately from the regional TIP program. This information is provided in the following Tables.

2016 Statewide Transportation Improvement Program

MassDOT MPO ▼			Americans with Disabilities Act and Stormwater Programs			
MassDOT Project ID ▼	MassDOT Project Description ▼		MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼
► Section 1D / Federal Aid Major & State Category Projects						
► Statewide ADA Retrofits Program						
607035	STATEWIDE DISTRICT 1- ADA RETROFITS AT VARIOUS LOCATIONS	1	STP-TE	\$ 340,000	\$ 272,000	\$ 68,000
607036	STATEWIDE DISTRICT 2- ADA RETROFITS AT VARIOUS LOCATIONS	2	STP-TE	\$ 740,000	\$ 592,000	\$ 148,000
	Statewide ADA Subtotal ►		\$ 1,080,000	\$ 864,000	\$ 216,000	
	Fed Aid Target	\$ 3,200,000				

2017 Statewide Transportation Improvement Program

MassDOT MPO ▼			Americans with Disabilities Act and Stormwater Programs			
MassDOT Project ID ▼	MassDOT Project Description ▼		MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼
► Section 1D / Federal Aid Major & State Category Projects						
► Statewide ADA Retrofits Program						
607038	STATEWIDE DISTRICT 3- ADA RETROFITS AT VARIOUS LOCATIONS	3	STP-TE	\$ 600,000	\$ 480,000	\$ 120,000
607039	STATEWIDE DISTRICT 4- ADA RETROFITS AT VARIOUS LOCATIONS	4	STP-TE	\$ 600,000	\$ 480,000	\$ 120,000
607041	STATEWIDE DISTRICT 5- ADA RETROFITS AT VARIOUS LOCATIONS	5	STP-TE	\$ 575,000	\$ 460,000	\$ 115,000
607042	STATEWIDE DISTRICT 6- ADA RETROFITS AT VARIOUS LOCATIONS	6	STP-TE	\$ 500,000	\$ 400,000	\$ 328,000
	Statewide ADA Subtotal ►		\$ 2,275,000	\$ 1,820,000	\$ 683,000	

2019 Statewide Transportation Improvement Program

MassDOT MPO ▼			Americans with Disabilities Act and Stormwater Programs			
MassDOT Project ID ▼	MassDOT Project Description ▼		MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼
► Section 1D / Federal Aid Major & State Category Projects						
► Statewide ADA Retrofits Program						
608825	STATEWIDE DISTRICT 1- ADA RETROFITS AT VARIOUS LOCATIONS	1	STP-TE	\$ 600,000	\$ 480,000	\$ 120,000
608826	STATEWIDE DISTRICT 2- ADA RETROFITS AT VARIOUS LOCATIONS	2	STP-TE	\$ 900,000	\$ 720,000	\$ 180,000
	Statewide ADA Subtotal ►		\$ 1,500,000	\$ 1,200,000	\$ 300,000	

2016 Statewide Transportation Improvement Program

Highway Safety Improvement Program

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼
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► Section 1D / Federal Aid Major & State Category Projects

► Statewide Highway Safety Improvement Program

607495	STATEWIDE	STATEWIDE- RETROREFLECTIVE SIGN UPGRADE ON SECONDARY ROADS (PHASE I)	SW	HSIP	\$ 5,161,000	\$ 4,644,900	\$ 516,100
SHSP	STATEWIDE	STATEWIDE- VARIOUS SAFETY STRATEGIES TO BE DETERMINED BASED ON 2013 SHSP AND UPDATES	SW	HSIP	\$ 3,820,556	\$ 3,438,500	\$ 382,056
607960	MRPC	ASHBURNHAM- ROUTE 101 AT WILLIAMS AND COREY HILL ROAD, INTERSECTION IMPROVEMENTS	3	HSIPR	\$ 624,000	\$ 561,600	\$ 62,400
608024	STATEWIDE	STATEWIDE - CONVERSION OF INTERSTATE AND FREEWAY EXIT NUMBERS TO MILEPOST-BASED	SW	HSIP	\$ 2,000,000	\$ 1,800,000	\$ 200,000
608170	CENTRAL MASS	STURBRIDGE- REHABILITATION & RELATED WORK ON BROOKFIELD ROAD(ROUTE 148), FROM MAIN STREET (MM 0.0) TO TOWN LINE (MM 3.4)	3	HSIPR	\$ 1,750,000	\$ 1,575,000	\$ 175,000
608169	CENTRAL MASS	DUDLEY- REHABILITATION & RELATED WORK ON DRESSER HILL ROAD (ROUTE 31), FROM STATE LINE (MM 0.0) TO TOWN LINE (MM 4.1)	3	HSIPR	\$ 1,750,000	\$ 1,575,000	\$ 175,000
608168	CENTRAL MASS	DOUGLAS- REHABILITATION & RELATED WORK ON WEBSTER STREET (ROUTE 16), FROM T.L. (MM 2.8) TO MAIN STREET (MM 6.9)	3	HSIPR	\$ 1,750,000	\$ 1,575,000	\$ 175,000
607176	CENTRAL MASS	SHREWSBURY- NORTHBOROUGH- WESTBOROUGH- RESURFACING AND RELATED WORK ON ROUTE 9	3	HSIP	\$ 350,000	\$ 315,000	\$ 35,000
607918	CAPE CODE	SANDWICH TO ORLEANS - GUIDE & TRAFFIC SIGN REPLACEMENT ON A SECTION OF US ROUTE 6 (MID CAPE HIGHWAY)	5	HSIP	\$ 4,100,000	\$ 3,690,000	\$ 410,000
607753	CAPE CODE	BARNSTABLE- INTERSECTION & SIGNAL IMPROVEMENTS AT SR 28 (FALMOUTH ROAD) AT STRAWBERRY HILL ROAD	5	HSIP	\$ 550,000	\$ 495,000	\$ 55,000
607745	BERKSHIRE	LENOX- INTERSECTION & SIGNAL IMPROVEMENTS AT US 7 & US 20 (VETERAN'S MEMORIAL HIGHWAY) @ SR 183 (WALKER STREET)	1	HSIP	\$ 550,000	\$ 495,000	\$ 55,000
607752	NORTHERN MIDDLESEX	LOWELL- INTERSECTION & SIGNAL IMPROVEMENTS AT 2 LOCATIONS: SR 113 (VARNUM AVENUE & VFW HIGHWAY) AT MAMMOTH ROAD & VFW AT AIKEN STREET	4	HSIP	\$ 1,100,000	\$ 990,000	\$ 110,000
607755	BOSTON	WEYMOUTH- INTERSECTION & SIGNAL IMPROVEMENTS AT 2 LOCATIONS: SR 53 (WASHINGTON STREET) AT MUTTON LANE & PLEASANT STREET	6	HSIP	\$ 550,000	\$ 495,000	\$ 55,000
607764	CMRPC	SHREWSBURY- INTERSECTION & SIGNAL IMPROVEMENT AT US 20 (HARTFORD TURNPIKE) AT GRAFTON STREET	3	HSIP	\$ 550,000	\$ 495,000	\$ 55,000
606620	STATEWIDE	RAYNHAM TO BOLTON- GUIDE & TRAFFIC SIGN REPLACEMENT ON I-495	SW	HSIP	\$ 5,950,000	\$ 5,355,000	\$ 595,000

Statewide HSIP Subtotal ► \$ 30,555,556 \$ 27,500,000 \$ 3,055,556

2017 Statewide Transportation Improvement Program

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	Highway Safety Improvement Program							
			MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼			
► Statewide Highway Safety Improvement Program										
► Section 1D / Federal Aid Major & State Category Projects										
SHSP	STATEWIDE STATEWIDE- VARIOUS SAFETY STRATEGIES TO BE DETERMINED BASED ON 2013 SHSP AND UPDATES		SW	HSIP	\$ 5,470,444	\$ 4,923,400	\$ 547,044			
607960	MONTACHU ASHBURNHAM- ROUTE 101 AT WILLIAMS AND CORREY HILL ROAD, INTERSECTION IMPROVEMENTS SETT		3	HSIP	\$ 624,000	\$ 561,600	\$ 62,400			
607496	STATEWIDE STATEWIDE- RETROREFLECTIVE SIGN UPGRADE ON SECONDARY ROADS (PHASE II)		SW	HSIP	\$ 8,400,000	\$ 7,560,000	\$ 840,000			
607916	STATEWIDE FALL RIVER TO RANDOLPH- GUIDE & TRAFFIC SIGN REPLACEMENT ON A SECTION OF ROUTE 24		5	HSIP	\$ 5,500,000	\$ 4,950,000	\$ 550,000			
607736	PIONEER VALLEY CHICOPEE- SIGNAL & INTERSECTION IMPROVEMENTS AT 11 INTERSECTIONS ALONG ROUTE 33 (MEMORIAL DRIVE), FROM FULLER ROAD TO BRITTON STREET		2	HSIP	\$ 4,100,000	\$ 3,690,000	\$ 410,000			
607754	BOSTON MILTON- INTERSECTION & SIGNAL IMPROVEMENTS AT GRANITE AVENUE & SQUANTUM STREET		6	HSIP	\$ 350,000	\$ 315,000	\$ 35,000			
Statewide HSIP Subtotal ►			\$ 24,444,444		\$ 22,000,000	\$ 2,444,444				

2018 Statewide Transportation Improvement Program

Highway Safety Improvement Program						
MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼
Non-Federal Funds ▼						
► Section 1D / Federal Aid Major & State Category Projects						
► Statewide Highway Safety Improvement Program						
HSIP	STATEWIDE STATEWIDE- VARIOUS SAFETY STRATEGIES TO BE DETERMINED BASED ON 2013 SHSP AND UPDATES		SW	HSIP	\$ 2,883,223	\$ 2,594,901
607917	CENTRAL MASS	AUBURN TO WORCESTER- GUIDE & TRAFFIC SIGN REPLACEMENT ON A SECTION OF INTERSTATE 290	SW	HSIP	\$ 4,200,000	\$ 3,780,000
607919	STATEWIDE	BOLTON TO LOWELL- GUIDE & TRAFFIC SIGN REPLACEMENT ON A SECTION OF INTERSTATE 495	SW	HSIP	\$ 2,700,000	\$ 2,430,000
607496	STATEWIDE	STATEWIDE- RETROREFLECTIVE SIGN UPGRADE ON SECONDARY ROADS (PHASE II)	SW	HSIP	\$ 9,333,444	\$ 8,400,100
608204	STATEWIDE	ATTLBORO TO NORWOOD - GUIDE AND TRAFFIC SIGN REPLACEMENT ON A SECTION OF INTERSTATE 95	5	HSIP	\$ 4,000,000	\$ 3,600,000
607760	BERKSHIRE	PITTSFIELD- INTERSECTION & SIGNAL IMPROVEMENTS AT 3 LOCATIONS: SR 8 & SR 9 (DALTON AVENUE) @ MERRILL CHESHIRE ROAD, DALTON AVENUE @ CRANE AVENUE CONNECTOR & SR 9 (MERRILL ROAD) @ CRANE AVENUE CONNECTOR	1	HSIP	\$ 1,500,000	\$ 1,350,000
607748	BOSTON	ACTON- INTERSECTION & SIGNAL IMPROVEMENTS ON SR 2 & SR 111 (MASSACHUSETTS AVENUE) AT PIPER ROAD & TAYLOR ROAD	3	HSIP	\$ 1,500,000	\$ 1,350,000
607761	BOSTON	SWAMPSCOTT- INTERSECTION & SIGNAL IMPROVEMENTS AT SR 1A (PARADISE ROAD) AT SWAMPSCOTT MALL	4	HSIP	\$ 550,000	\$ 495,000
Statewide HSIP Subtotal ► \$ 26,666,667						
\$ 24,000,000						
\$ 2,666,667						

2019 Statewide Transportation Improvement Program

Highway Safety Improvement Program

MassDOT Project ID ▼		MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼
► Section 1D / Federal Aid Major & State Category Projects							
► Statewide Highway Safety Improvement Program							
HSIP	STATEWIDE STATEWIDE- VARIOUS SAFETY STRATEGIES TO BE DETERMINED BASED ON 2013 SHSP AND UPDATES	Statewide	HSIP	\$ 11,316,667	\$ 10,185,000	\$ 1,131,667	
608205	BOSTON READING TO LYNNFIELD - GUIDE AND TRAFFIC SIGN REPLACEMENT ON A SECTION OF INTERSTATE 95 (STATE ROUTE 128)	4	HSIP	\$ 3,500,000	\$ 3,150,000	\$ 350,000	
608187	MERRIMACK VALLEY HAVERHILL- MERRIMAC- AMESBURY- TRAFFIC & GUIDE SIGN REPLACEMENT ON A SECTION OF I-495 CHELSEA TO DANVERS - GUIDE AND TRAFFIC SIGN REPLACEMENT ON A SECTION OF US ROUTE 1	4	HSIP	\$ 2,100,000	\$ 1,890,000	\$ 210,000	
608206	BOSTON BERKSHIRE GREAT BARRINGTON- INTERSECTION & SIGNAL IMPROVEMENTS ON US 7 (SOUTH MAIN STREET) AT SR 23 & SR 41 (MAPLE AVENUE)	1	HSIP	\$ 550,000	\$ 495,000	\$ 55,000	
607756	CENTRAL MASS WORCESTER- SIGNAL & INTERSECTION IMPROVEMENTS ON ROUTE SR 122A (PROVIDENCE STREET) AT MILLBURY STREET & MCKEON ROAD	3	HSIP	\$ 550,000	\$ 495,000	\$ 55,000	
607759	BOSTON BOSTON- INTERSECTION & SIGNAL IMPROVEMENTS AT THE VFW PARKWAY & SPRING STREET	6	HSIP	\$ 550,000	\$ 495,000	\$ 55,000	
608052	BOSTON NORWOOD- INTERSECTION & SIGNAL IMPROVEMENTS AT US 1 (PROVIDENCE HIGHWAY) & MORSE STREET	5	HSIP	\$ 550,000	\$ 495,000	\$ 55,000	
608053	SOUTHEASTERN MASS MANSFIELD- INTERSECTION & SIGNAL IMPROVEMENTS AT SR 140 (COMMERCIAL STREET) & SR 106 (CHAUNCEY STREET)	5	HSIP	\$ 550,000	\$ 495,000	\$ 55,000	
607763	BOSTON MILTON- INTERSECTION & SIGNAL IMPROVEMENTS AT 2 LOCATIONS: SR 138 (BLUE HILL AVENUE) AT ATHERTON STREET & BRADLEE ROAD AND SR 138 (BLUE HILL AVENUE) AT MILTON STREET & DOLLAR LANE	6	HSIP	\$ 1,100,000	\$ 990,000	\$ 110,000	
Statewide HSIP Subtotal ►		\$ 26,666,667	\$ 24,000,000	\$ 2,666,667			

2016 Statewide Transportation Improvement Program

MassDOT Project ID ▼			MassDOT Project Description ▼			MassDOT District ▼			Funding Source ▼			Total Programmed Funds ▼			Federal Funds ▼			Non-Federal Funds ▼														
Interstate Maintenance and National Highway System Projects																																
Section 1D / Federal Aid Major & State Category Projects																																
► IM - Interstate Maintenance																																
606577	STATEWIDE	HATFIELD- NORTHAMPTON- WHATELY- INTERSTATE MAINTENANCE & RELATED WORK ON I-91, FROM MM 26.9 TO MM 34.4 (7.5 MILES)		2	NHPP	\$ 10,620,000	\$ 9,558,000	\$ 1,062,000																								
607182	PIONEER VALLEY	BERNARDSTON- GREENFIELD- INTERSTATE MAINTENANCE & RELATED WORK ON ROUTE I-91, FROM MM 48.6 TO MM 50.4 (1.8 MILES)		2	NHPP	\$ 2,293,920	\$ 2,064,528	\$ 229,392																								
605592	CENTRAL MASS	STURBRIDGE- HOLLAND- INTERSTATE MAINTENANCE & RELATED WORK ON I-84		3	NHPP	\$ 15,133,500	\$ 13,620,150	\$ 1,513,350																								
607479	CENTRAL MASS	SHREWSBURY- BOYLSTON- NORTHBORO- INTERSTATE MAINTENANCE & RELATED WORK ON I-290		3	NHPP	\$ 13,168,800	\$ 11,851,920	\$ 1,316,880																								
606574	NORTHERN MIDDLESEX	ANDOVER NORTH ANDOVER -INTERSTATE MAINTENANCE AND RELATED WORK ON I-495		4	NHPP	\$ 14,396,000	\$ 12,956,400	\$ 1,439,600																								
606176	BOSTON	FOXBOROUGH-PLAINVILLE-WRENTHAM-INTERSTATE MAINTENANCE AND RELATED WORK ON I-495		5	NHPP	\$ 1,604,800	\$ 1,444,320	\$ 160,480																								
608147	SOUTHEASTERN MASS	SOUTH ATTLEBOROUGH- INTERSTATE MAINTENANCE & RELATED WORK ON I-95		5	NHPP	\$ 2,039,040	\$ 1,835,136	\$ 203,904																								
IM Subtotal ► \$ 59,256,060																																
► NHS - National Highway System																																
607175	OLD COLONY	PLYMOUTH- RESURFACING & RELATED WORK ON ROUTE 3		5	NHPP	\$ 14,252,040	\$ 11,401,632	\$ 2,850,408																								
607340	BOSTON	WELLESLEY- ROUTE 9 CORRIDOR ENHANCEMENTS		6	NHPP	\$ 7,327,800	\$ 5,862,240	\$ 1,465,560																								
607176	CENTRAL MASS	SHREWSBURY - WESTBOROUGH RESURFACING AND RELATED WORK ON ROUTE 9		3	NHPP	\$ 12,949,320	\$ 10,359,456	\$ 2,589,864																								
607488	BOSTON	SOUTHBOROUGH- RESURFACING & RELATED WORK ON ROUTE 9, FROM THE FRAMINGHAM T.L TO WHITE BAGLEY ROAD		3	NHPP	\$ 3,791,340	\$ 3,033,072	\$ 758,268																								
607476	MERRIMACK VALLEY	METHUEN- RESURFACING & RELATED WORK ON ROUTE 213		4	NHPP	\$ 6,937,161	\$ 5,549,729	\$ 1,387,432																								
NHS Subtotal ► \$ 45,257,661																																
NHPP Subtotal ► \$ 104,513,721																																
\$ 89,536,383																																
\$ 14,977,138																																

2017 Statewide Transportation Improvement Program

Interstate Maintenance and National Highway System Projects

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼
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► Section 1D / Federal Aid Major & State Category Projects

► IM - Interstate Maintenance

607478	FRANKLIN	DEERFIELD - GREENFIELD - WHATELY - INTERSTATE MAINTENANCE AND RELATED WORK ON I-91		2	NHPP	\$ 10,499,923	\$ 9,449,931	\$ 1,049,992
607562	CENTRAL MASS	WEBSTER- OXFORD- INTERSTATE MAINTENANCE & RELATED WORK ON I-395		3	NHPP	\$ 7,620,912	\$ 6,858,821	\$ 762,091
606575	MONTACHU SETT	STERLING- LANCASTER- LEOMINSTER- INTERSTATE MAINTENANCE & RELATED WORK ON I-90		3	NHPP	\$ 17,612,774	\$ 15,851,497	\$ 1,761,277
607561	MERRIMAC K VALLEY	ANDOVER- METHUEN- INTERSTATE MAINTENANCE & RELATED WORK ON I-93		4	NHPP	\$ 10,387,021	\$ 9,348,319	\$ 1,038,702
607481	BOSTON	RANDOLPH- QUINCY- BRAINTREE- RESURFACING & RELATED WORK ON I-93		6	NHPP	\$ 12,137,008	\$ 10,923,307	\$ 1,213,701
607563	CAPE COD	WAREHAM - ROCHESTER - MIDDLEBORO - INTERSTATE MAINTENANCE AND RELATED WORK ON I-495		5	NHPP	\$ 12,604,694	\$ 11,344,225	\$ 1,260,469
					IM Subtotal ►	\$ 70,862,332	\$ 63,776,099	\$ 7,086,233

► NHS - National Highway System

607988	STATEWIDE	DUXBURY MARSFIELD - RESURFACING AND RELATED WORK ON ROUTE 3		5	NHPP	\$ 15,713,069	\$ 12,570,455	\$ 3,142,614
608201	CAPE COD	HARWICH - BREWSTER - ORLEANS - RESURFACING AND RELATED WORK ON RT. 6		5	NHPP	\$ 6,506,614	\$ 5,205,292	\$ 1,301,323
607475	MONTACHU SETT	WINCHENDON- RESURFACING & RELATED WORK ON ROUTE 12, FROM MILL STREET/BEGINNING OF STATE HIGHWAY TO NEW HAMPSHIRE STATE LINE (2.5 MILES)		2	NHPP	\$ 1,879,150	\$ 1,503,320	\$ 375,830
608176	SOUTHEAS TERN MASS	BERKLEY- RAYNHAM-TAUNTON- RESURFACING & RELATED WORK ON ROUTE 24		5	NHPP	\$ 11,466,711	\$ 9,173,369	\$ 2,293,342
607477	BOSTON	LYNNFIELD- PEABODY- RESURFACING & RELATED WORK ON ROUTE 1		4	NHPP	\$ 7,721,542	\$ 6,177,234	\$ 1,544,308
					NHS Subtotal ►	\$ 43,287,087	\$ 34,629,670	\$ 8,637,417
					IM + NHS	\$ 98,405,769		

Fiscal Constraint Analysis performed using Federal Funds amounts

2018 Statewide Transportation Improvement Program

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼
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►Section 1D / Federal Aid Major & State Category Projects

►IM - Interstate Maintenance

607560	PIONEER VALLEY	CHICOPEE- HOLYOKE- INTERSTATE MAINTENANCE & RELATED WORK ON I-391	2	NHPP	\$ 11,989,555	\$ 10,790,600	\$ 1,198,956
608203	STATEWIDE	MARLBORO - HUDSON - BERLIN RESURFACING AND RELATED WORK ON I-495	3	NHPP	\$ 15,292,800	\$ 13,763,520	\$ 1,529,280
608207	PIONEER VALLEY	LONGMEADOW - SPRINGFIELD - RESURFACING AND RELATED WORK ON I-91	2	NHPP	\$ 13,763,520	\$ 12,387,168	\$ 1,376,352
607563	SOUTHEASTERN MASS	WAREHAM- ROCHESTER- MIDDLEBORO- INTERSTATE MAINTENANCE & RELATED WORK ON I-95	5	NHPP	\$ 14,177,955	\$ 12,760,159	\$ 1,417,795
608219	BOSTON	READING-WAKEFIELD- INTERSTATE MAINTENANCE RESURFACING AND RELATED WORK ON I-95	4	NHPP	\$ 4,638,816	\$ 4,174,934	\$ 463,882
607566	SOUTHEASTERN MASS	SEEKONK- REHOBOTH- INTERSTATE MAINTENANCE & RELATED WORK ON I-195	5	NHPP	\$ 10,959,840	\$ 9,863,856	\$ 1,095,984

►NHS - National Highway System

608069	BOSTON	MARSHFIELD PEMBROKE NORWELL HANOVER ROCKLAND HINGHAM RESURFACING ON RT 3	5	NHPP	\$ 17,586,720	\$ 14,069,376	\$ 3,517,344
607474	PIONEER VALLEY	GRANBY- SOUTH HADLEY- RESURFACING & RELATED WORK ON ROUTE 202, FROM LYMAN STREET SOUTH HADLEY TO PLEASANT STREET GRANBY (2 MILES)	2	NHPP	\$ 1,988,064	\$ 1,590,451	\$ 397,613
605608	BOSTON	DEDHAM - RESURFACING AND RELATED WORK ON ROUTE 109	6	NHPP	\$ 2,523,312	\$ 2,018,650	\$ 504,662
608008	BOSTON	SAUGUS-RESURFACING AND RELATED WORK ON ROUTE 1	4	NHPP	\$ 10,597,910	\$ 8,478,328	\$ 2,119,582
608220	BOSTON	CONCORD - RESURFACING AND RELATED WORK ON ROUTE 2	4	NHPP	\$ 1,784,160	\$ 1,427,328	\$ 356,832

NHS Subtotal ►	\$ 34,480,166	\$ 27,584,133	\$ 6,896,033
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Fiscal Constraint Analysis performed using Federal Funds amounts

IM + NHS \$ 91,324,371

2019 Statewide Transportation Improvement Program

MassDOT Project ID	MPO ▼	MassDOT Project Description ▼	Interstate Maintenance and National Highway System Projects			
			MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼

► Section 1D / Federal Aid Major & State Category Projects

► IM - Interstate Maintenance						
608208	Boston	QUINCY - MILTON - BOSTON - INTERSTATE MAINTENANCE AND RELATED WORK ON I-93	6	NHPP	\$ 22,287,462	\$ 20,058,716
608209	Statewide	LITTLETON-WESTFORD- INTERSTATE MAINTENANCE AND RELATED WORK ON I-95	3	NHPP	\$ 15,986,074	\$ 14,387,466
608210	Boston	FOXBOROUGH-PLAINVILLE-WRENTHAM-FRANKLIN-INTERSTATE MAINTENANCE AND RELATED WORK ON I-495	5	NHPP	\$ 29,392,384	\$ 26,453,146
608211	Pioneer Valley	CHICOPEE-SPRINGFIELD- RESURFACING AND RELATED WORK ON I-291	2	NHPP	\$ 11,545,498	\$ 10,390,948
				IM Subtotal ►	\$ 79,211,418	\$ 71,290,276
						\$ 7,921,142
► NHS - National Highway System						
608221	Boston	MARLBORO RESURFACING AND RELATED WORK ON ROUTE 20	3	NHPP	\$ 6,126,938	\$ 4,901,550
608222	Statewide	BOURNE - WAREHAM RESURFACING AND RELATED WORK ON ROUTE 25	5	NHPP	\$ 11,672,371	\$ 9,337,897
608223	Southeastern Mass	FALL RIVER RESURFACING AND RELATED WORK ON ROUTE 24 (EXCLUDES MM 3.9-4.5)	5	NHPP	\$ 9,134,899	\$ 7,307,919
				NHS Subtotal ►	\$ 26,934,208	\$ 21,547,366
						\$ 5,386,842

Fiscal Constraint Analysis performed using Federal Funds amounts

IM + NHS

\$ 92,837,642

2016 Statewide Transportation Improvement Program

Interstate Maintenance and National Highway System Projects

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼
► Section 1D / Federal Aid Major & State Category Projects							
► IM - Interstate Maintenance							
606577	STATEWIDE	HATFIELD- NORTHAMPTON- WHATELY- INTERSTATE MAINTENANCE & RELATED WORK ON I-91, FROM MM 26.9 TO MM 34.4 (7.5 MILES)	2	NHPP	\$ 10,620,000	\$ 9,558,000	\$ 1,062,000
607182	PIONEER VALLEY	BERNARDSTON- GREENFIELD- INTERSTATE MAINTENANCE & RELATED WORK ON ROUTE I-91, FROM MM 48.6 TO MM 50.4 (1.8 MILES)	2	NHPP	\$ 2,293,920	\$ 2,004,528	\$ 229,392
605592	CENTRAL MASS	STURRIDGE- HOLLAND- INTERSTATE MAINTENANCE & RELATED WORK ON I-84	3	NHPP	\$ 15,133,500	\$ 13,620,150	\$ 1,513,350
607479	CENTRAL MASS	SHREWSBURY- BOYLSTON- NORTHBORO- INTERSTATE MAINTENANCE & RELATED WORK ON I-290	3	NHPP	\$ 13,168,800	\$ 11,851,920	\$ 1,316,880
606574	NORTHERN MIDDLESEX	ANDOVER NORTH ANDOVER - INTERSTATE MAINTENANCE AND RELATED WORK ON I-495	4	NHPP	\$ 14,396,000	\$ 12,956,400	\$ 1,439,600
606176	BOSTON	FOXBOROUGH-PLAINVILLE-WRENTHAM-INTERSTATE MAINTENANCE AND RELATED WORK ON I-495	5	NHPP	\$ 1,604,800	\$ 1,444,320	\$ 160,480
608147	SOUTHEASTERN MASS	NORTH ATTLEBOROUGH- INTERSTATE MAINTENANCE & RELATED WORK ON I-95	5	NHPP	\$ 2,039,040	\$ 1,835,136	\$ 203,904
IM Subtotal ►				\$ 59,256,060	\$ 53,330,454	\$ 5,925,606	
► NHS - National Highway System							
607175	OLD COLONY	PLYMOUTH- RESURFACING & RELATED WORK ON ROUTE 3	5	NHPP	\$ 14,252,040	\$ 11,401,632	\$ 2,850,408
607340	BOSTON	WELLESLEY- ROUTE 9 CORRIDOR ENHANCEMENTS	6	NHPP	\$ 7,327,800	\$ 5,862,240	\$ 1,465,560
607176	CENTRAL MASS	SHREWSBURY - WESTBOROUGH RESURFACING AND RELATED WORK ON ROUTE 9	3	NHPP	\$ 12,949,320	\$ 10,359,456	\$ 2,589,864
607488	BOSTON	SOUTHBOROUGH-RESURFACING & RELATED WORK ON ROUTE 9, FROM THE FRAMINGHAM T.L. TO WHITE BAGLEY ROAD	3	NHPP	\$ 3,791,340	\$ 3,033,072	\$ 758,268
607476	MERRIMACK VALLEY	METHUEN- RESURFACING & RELATED WORK ON ROUTE 213	4	NHPP	\$ 6,937,161	\$ 5,549,729	\$ 1,387,432
NHS Subtotal ►				\$ 45,257,661	\$ 36,206,129	\$ 9,051,532	
NHPP Subtotal ►				\$ 104,513,721	\$ 89,536,583	\$ 14,977,138	
IM + NHS \$ 89,536,583							

Fiscal Constraint Analysis performed using Federal Funds amounts

2017 Statewide Transportation Improvement Program

				Total Programmed Funds ▼	Federal Funds ▼
				Funding Source ▼	MassDOT District ▼
	MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼		Non-Federal Funds ▼

► Section 1D / Federal Aid Major & State Category Projects

IM - Interstate Maintenance							
607478	FRANKLIN	DEERFIELD - GREENFIELD - WHATELY - INTERSTATE MAINTENANCE AND RELATED WORK ON I-91	2	NHPP	\$ 10,499,923	\$ 9,449,931	\$ 1,049,992
607562	CENTRAL MASS	WEBSTER- OXFORD- INTERSTATE MAINTENANCE & RELATED WORK ON I-395	3	NHPP	\$ 7,620,912	\$ 6,858,821	\$ 762,091
60605755	MONTACHU SETT	STERLING- LANCASTER- LEOMINSTER- INTERSTATE MAINTENANCE & RELATED WORK ON I-190	3	NHPP	\$ 17,612,774	\$ 15,851,497	\$ 1,761,277
607561	MERRIMAC K VALLEY	ANDOVER- METHUEN- INTERSTATE MAINTENANCE & RELATED WORK ON I-93	4	NHPP	\$ 10,387,021	\$ 9,348,319	\$ 1,038,702
607481	BOSTON	RANDOLPH- QUINCY- BRAINTREE- RESURFACING & RELATED WORK ON I-93	6	NHPP	\$ 12,137,008	\$ 10,923,307	\$ 1,213,701
607563	CAPE COD	WAREHAM - ROCHESTER - MIDDLEBORO - INTERSTATE MAINTENANCE AND RELATED WORK ON I-495	5	NHPP	\$ 12,604,694	\$ 11,344,225	\$ 1,260,469
					\$ 70,622,222	\$ 60,372,222	\$ 7,222,222

► NHS - National Highway System

60079988	STATEWIDE KINGSTON DUXBURY MARSHFIELD - RESURFACING AND RELATED WORK ON ROUTE 3	5	NHPP	\$ 15,713,069	\$ 12,570,455	\$ 3,142,614
6008201	CAPE COD HARWICH - BREWSTER - ORLEANS - RESURFACING AND RELATED WORK ON RT. 6	5	NHPP	\$ 6,506,614	\$ 5,205,292	\$ 1,301,323
607475	MONTACHU SETT WINCHENDON- RESURFACING & RELATED WORK ON ROUTE 12, FROM MILL STREET/BEGINNING OF STATE HIGHWAY TO NEW HAMPSHIRE STATE LINE (2.5 MILES)	2	NHPP	\$ 1,879,150	\$ 1,503,320	\$ 375,830
6008176	SOUTHEAS TERN MASS BERKLEY-RAYNHAM-TAUNTON- RESURFACING & RELATED WORK ON ROUTE 24	5	NHPP	\$ 11,466,711	\$ 9,173,369	\$ 2,293,342
607477	BOSTON LYNFIELD- PEABODY- RESURFACING & RELATED WORK ON ROUTE 1	4	NHPP	\$ 7,721,542	\$ 6,177,234	\$ 1,544,308
			NHS Subtotal ▲	\$ 43,287,087	\$ 34,629,670	\$ 8,657,417

Fiscal Constraint Analysis performed using Fodderal Funds amounts

M + NHS £ 08 105 769

2018 Statewide Transportation Improvement Program

MassDOT Project ID	MPO ▼	MassDOT Project Description ▼	Interstate Maintenance and National Highway System Projects			
			MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼
607560	PIONEER VALLEY	CHICOPEE- HOLYOKE- INTERSTATE MAINTENANCE & RELATED WORK ON I-391	2	NHPP	\$ 11,989,555	\$ 10,790,600
608203	STATEWIDE	MARLBORO - HUDSON - BERLIN RESURFACING AND RELATED WORK ON I-495	3	NHPP	\$ 15,292,800	\$ 13,763,520
608207	PIONEER VALLEY	LONGMEADOW - SPRINGFIELD - RESURFACING AND RELATED WORK ON I-91	2	NHPP	\$ 13,763,520	\$ 12,387,168
607563	SOUTHEASTERN MASS	WAREHAM- ROCHESTER- MIDDLEBORO- INTERSTATE MAINTENANCE & RELATED WORK ON I-495	5	NHPP	\$ 14,177,955	\$ 12,760,159
608219	BOSTON	READING-WAKEFIELD- INTERSTATE MAINTENANCE RESURFACING AND RELATED WORK ON I-95	4	NHPP	\$ 4,638,816	\$ 4,174,934
607566	SOUTHEASTERN MASS	SEEKONK- REHOBOTH- INTERSTATE MAINTENANCE & RELATED WORK ON I-195	5	NHPP	\$ 10,959,840	\$ 9,863,856
			IM Subtotal ►	\$ 70,822,486	\$ 63,740,237	\$ 7,082,249
608069	BOSTON	MARSHFIELD PEMBROKE NORWELL HANOVER ROCKLAND HINGHAM RESURFACING ON RT 3	5	NHPP	\$ 17,586,720	\$ 14,069,376
607474	PIONEER VALLEY	GRANBY- SOUTH HADLEY- RESURFACING & RELATED WORK ON ROUTE 202, FROM LYMAN STREET SOUTH HADLEY TO PLEASANT STREET GRANBY (2 MILES)	2	NHPP	\$ 1,988,064	\$ 1,590,451
605608	BOSTON	DEDHAM - RESURFACING AND RELATED WORK ON ROUTE 109	6	NHPP	\$ 2,523,312	\$ 2,018,650
608008	BOSTON	SAUGUS-RESURFACING AND RELATED WORK ON ROUTE 1	4	NHPP	\$ 10,597,910	\$ 8,478,328
608220	BOSTON	CONCORD - RESURFACING AND RELATED WORK ON ROUTE 2	4	NHPP	\$ 1,784,160	\$ 1,427,328
			NHS Subtotal ►	\$ 34,480,166	\$ 27,584,133	\$ 6,896,033
			IM + NHS \$	91,324,371		

Fiscal Constraint Analysis performed using Federal Funds amounts

2019 Statewide Transportation Improvement Program

Interstate Maintenance and National Highway System Projects

MassDOT Project ID	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼
► Section 1D / Federal Aid Major & State Category Projects							

► IM - Interstate Maintenance

608208	Boston	QUINCY - MILTON - BOSTON - INTERSTATE MAINTENANCE AND RELATED WORK ON I-93	6	NHPP	\$ 22,287,462	\$ 20,058,716	\$ 2,228,746
608209	Statewide	LITTLETON-WESTFORD- INTERSTATE MAINTENANCE AND RELATED WORK ON I-495	3	NHPP	\$ 15,986,074	\$ 14,387,466	\$ 1,598,607
608210	Boston	FOXBOROUGH-PLAINVILLE-WRENTHAM-FRANKLIN- INTERSTATE MAINTENANCE AND RELATED WORK ON I-495	5	NHPP	\$ 29,392,384	\$ 26,453,146	\$ 2,939,238
608211	Pioneer Valley	CHICOPEE-SPRINGFIELD- RESURFACING AND RELATED WORK ON I-291	2	NHPP	\$ 11,545,498	\$ 10,390,948	\$ 1,154,550

► NHS - National Highway System

608221	Boston	MARLBORO RESURFACING AND RELATED WORK ON ROUTE 20	3	NHPP	\$ 6,126,938	\$ 4,901,550	\$ 1,225,388
608222	Statewide	BOURNE - WAREHAM RESURFACING AND RELATED WORK ON ROUTE 25	5	NHPP	\$ 11,672,371	\$ 9,337,897	\$ 2,334,474
608223	Southeastern Mass	FALL RIVER RESURFACING AND RELATED WORK ON ROUTE 24 (EXCLUDES MM 3.9-4.5)	5	NHPP	\$ 9,134,899	\$ 7,307,919	\$ 1,826,980

NHS Subtotal ► \$ 26,934,208 \$ 21,547,366 \$ 5,386,842

IM Subtotal ► \$ 79,211,418 \$ 71,290,276 \$ 7,921,142

IM + NHS \$ 92,837,642

Fiscal Constraint Analysis performed using Federal Funds amounts

2016 Statewide Transportation Improvement Program

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	Intelligent Transportation Systems	
MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼

► Section 1D / Federal Aid Major & State Category Projects

► Statewide Intelligent Transportation Systems		
607424	Statewide	STATEWIDE- ITS ADVANCED TRANSPORTATION MANAGEMENT SYSTEM (ATMS) SOFTWARE
607483	Statewide	DISTRICT 5- ITS CAMERA & VMS CONSTRUCTION ON ROUTE 24, FROM RANDOLPH TO FALL RIVER (39 VMS ON I-290 BETWEEN I-495 AND I-90)
607484	Statewide	DISTRICT 3- INSTALLATION OF CCTV CAMERAS AND DISTRICT 5&6- ITS CONSTRUCTION ON ROUTE 3, FROM BRAINTREE TO PLYMOUTH (42 MILES)
607482	Statewide	STATEWIDE- REPLACEMENT OF VARIABLE MESSAGE SIGNS (VMS)
606927	Statewide	Statewide ITS Capital Subtotal ►

608031	Statewide	STATEWIDE ITS DESIGN CONSULTANT SERVICES	SW	STP	\$ 1,000,000	\$ 800,000	\$ 200,000
		Statewide ITS Operations Subtotal ►	\$ 1,000,000	\$ 800,000	\$ 200,000		

Fed Aid Target \$ 800,000
 Difference \$ -
 Constrained? Yes

2017 Statewide Transportation Improvement Program

MassDOT Project ID ▾	MPO ▾	MassDOT Project Description ▾	MassDOT District ▾	Funding Source ▾	Total Programmed Funds with 4% adjustment for inflation ▾	Federal Funds ▾	Non-Federal Funds ▾

► Section 1D / Federal Aid Major & State Category Projects

► Statewide Intelligent Transportation Systems							
607482	Statewide	DISTRICT 5&6-ITS CONSTRUCTION ON ROUTE 3, FROM BRAINTREE TO PLYMOUTH (42 MILES)	SW	CMAQ	\$ 6,250,000	\$ 5,000,000	\$ 1,250,000
606936	Statewide	STATEWIDE- EXPANSION OF CCTV, VMS AND THE TRAFFIC SENSOR NETWORK	SW	CMAQ	\$ 5,000,000	\$ 4,000,000	\$ 1,000,000
608140	Statewide	DISTRICT 5,6 ITS CONSTRUCTION ON I-95 FROM CANTON TO ATTLEBORO 26.7 MILES	SW	CMAQ	\$ 5,000,000	\$ 4,000,000	\$ 1,000,000
608139	Statewide	RTTM EXPANSION/ENHANCEMENT DISTRICTS 1-6	SW	CMAQ	\$ 1,750,000	\$ 1,400,000	\$ 350,000
		Statewide ITS Capital Subtotal ►	\$ 18,000,000	\$ 14,400,000	\$ 3,600,000		

2018 Statewide Transportation Improvement Program

MassDOT Project ID ▾	MPO ▾	MassDOT Project Description ▾	MassDOT District ▾	Funding Source ▾	Total Programmed Funds with 8% adjustment for inflation ▾	Federal Funds ▾	Non-Federal Funds ▾

► Section 1D / Federal Aid Major & State Category Projects

► Statewide Intelligent Transportation Systems							
608140	Statewide	DISTRICT 5&6 ITS CANTON TO ATTLEBORO	SW	CMAQ	\$ 1,250,000	\$ 1,000,000	\$ 250,000
606938	Statewide	STATEWIDE ITS EXPANSION INCLUDING ROUTE 9	SW	CMAQ	\$ 7,500,000	\$ 6,000,000	\$ 1,500,000
608141	Statewide	DISTRICT 4 & 6 ITS I-95 SALISBURY TO PEABODY RT1 SAUGUS	SW	CMAQ	\$ 6,150,000	\$ 4,920,000	\$ 1,230,000
		Statewide ITS Capital Subtotal ►	\$ 14,900,000	\$ 11,920,000	\$ 2,980,000		

2019 Statewide Transportation Improvement Program

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	Intelligent Transportation Systems			
			MassDOT District ▼	Funding Source ▼	Total Programmed Funds with 12% adjustment for inflation ▼	Federal Funds ▼

► Section 1D / Federal Aid Major & State Category Projects

► Statewide Intelligent Transportation Systems		
607487	Statewide	STATEWIDE ITS EXPANSION
608141	Statewide	DISTRICT 4 & 6 ITS I-95 SALISBURY TO PEABODY RT1 SAUGUS
		Statewide ITS Capital Subtotal ►
		\$ 25,000,000 \$ 20,000,000 \$ 5,000,000

2016 Statewide Transportation Improvement Program

Infrastructure, Regional and Statewide					Non-Federal Funds ▼	
MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼

► Section 1D / Federal Aid Major & State Category Projects

Statewide Infrastructure Program													
Project ID	Location	Description	Phase	Start Date	Completion Date	Budget	Actual Cost	Remaining Budget	Remaining Actual Cost	Subtotal	Infrastructure	Subtotal	Infrastructure
503917	BOSTON	MEDFORD- STONEHAM- WOBURN- READING- HIGHWAY LIGHTING REHABILITATION ON I-93 (PHASE II)	4	STP		\$ 15,000,000	\$ 12,000,000	\$ 3,000,000	\$ 3,000,000				
505733	BOSTON	DISTRICT 6- HIGHWAY LIGHTING SYSTEM REPLACEMENT ON I-93, FROM SOUTHPHAMPTON STREET TO NEPONSET AVENUE IN BOSTON	6	STP		\$ 2,500,000	\$ 2,000,000	\$ 500,000	\$ 500,000				

2017 Statewide Transportation Improvement Program

Infrastructure, Regional and Statewide				Non-Federal Funds ▼		
MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼

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Statewide Infrastructure Program						
503917	BOSTON	MEDFORD- STONEHAM- WOBURN- READING-HIGHWAY LIGHTING REHABILITATION ON I-93 (PHASE II)	4	STP	\$ 2,500,000	\$ 2,000,000
505733	BOSTON	DISTRICT 6- HIGHWAY LIGHTING SYSTEM REPLACEMENT ON I-93, FROM SOUTHAMPTON STREET TO NEPONSET AVENUE IN BOSTON	6	STP	\$ 4,500,000	\$ 3,600,000

2018 Statewide Transportation Improvement Program

		Infrastructure, Regional and Statewide				
MassDOT Project ID	MPO ▼	MassDOT Project Description▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼
Non-Federal Funds ▼						
► Section 1D / Federal Aid Major & State Category Projects						

► Statewide Infrastructure Program

605733	BOSTON	DISTRICT 6- HIGHWAY LIGHTING SYSTEM REPLACEMENT ON I-93, FROM SOUTHAMPTON STREET TO NEPONSET AVENUE IN BOSTON	6	STP	\$ 1,250,000	\$ 1,000,000	\$ 250,000
606381	BOSTON	ARLINGTON- BELMONT- HIGHWAY LIGHTING REPAIR & MAINTENANCE ON ROUTE 2	4	STP	\$ 5,750,000	\$ 4,600,000	\$ 1,150,000
Statewide Infrastructure Subtotal ►						\$ 5,600,000	\$ 1,400,000

2019 Statewide Transportation Improvement Program

		Infrastructure, Regional and Statewide				
MassDOT Project ID	MPO ▼	MassDOT Project Description▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼
Non-Federal Funds ▼						
► Section 1D / Federal Aid Major & State Category Projects						

► Statewide Infrastructure Program

606381	BOSTON	ARLINGTON- BELMONT- HIGHWAY LIGHTING REPAIR & MAINTENANCE ON ROUTE 2	4	STP	\$ 3,700,000	\$ 2,960,000	\$ 740,000
Statewide Infrastructure Subtotal ►						\$ 3,700,000	\$ 2,960,000

2016 Statewide Transportation Improvement Program

Interstate Maintenance and National Highway System Projects

MassDOT Project ID ▶	MPO ▼	MassDOT Project Description ▼	MassDOT District ▶	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼
► Section 1D / Federal Aid Major & State Category Projects							

► IM - Interstate Maintenance

606577	STATEWIDE	HATFIELD- NORTHAMPTON- WHATELY- INTERSTATE MAINTENANCE & RELATED WORK ON I-91, FROM MM 26.9 TO MM 34.4 (7.5 MILES)	2	NHPP	\$ 10,620,000	\$ 9,558,000	\$ 1,062,000
607182	PIONEER VALLEY	BERNARDSTON- GREENFIELD- INTERSTATE MAINTENANCE & RELATED WORK ON ROUTE I-91, FROM MM 48.6 TO MM 50.4 (1.8 MILES)	2	NHPP	\$ 2,293,920	\$ 2,064,528	\$ 229,392
605592	CENTRAL MASS	STURBRIDGE- HOLLAND- INTERSTATE MAINTENANCE & RELATED WORK ON I-84	3	NHPP	\$ 15,133,500	\$ 13,620,150	\$ 1,513,350
607479	CENTRAL MASS	SHREWSBURY- BOYLSTON- NORTHBORO- INTERSTATE MAINTENANCE & RELATED WORK ON I-290	3	NHPP	\$ 13,168,800	\$ 11,851,920	\$ 1,316,880
606574	NORTHERN MIDDLESEX	ANDOVER NORT ANDOVER - INTERSTATE MAINTENANCE AND RELATED WORK ON I-495	4	NHPP	\$ 14,396,000	\$ 12,956,400	\$ 1,439,600
606176	BOSTON	FOXBOROUGH-PLAINVILLE-WRENTHAM-INTERSTATE MAINTENANCE AND RELATED WORK ON I-495	5	NHPP	\$ 1,604,800	\$ 1,444,320	\$ 160,480
608147	SOUTHEASTERN MASS	NORTH ATTLEBOROUGH- INTERSTATE MAINTENANCE & RELATED WORK ON I-95	5	NHPP	\$ 2,039,040	\$ 1,835,136	\$ 203,904
IM Subtotal ► \$ 59,256,060 \$ 53,330,454 \$ 5,925,606							

► NHS - National Highway System

607175	OLD COLONY	PLYMOUTH- RESURFACING & RELATED WORK ON ROUTE 3	5	NHPP	\$ 14,252,040	\$ 11,401,632	\$ 2,850,408
607340	BOSTON	WELLESLEY- ROUTE 9 CORRIDOR ENHANCEMENTS	6	NHPP	\$ 7,327,800	\$ 5,862,240	\$ 1,465,560
607176	CENTRAL MASS	SHREWSBURY - WESTBOROUGH RESURFACING AND RELATED WORK ON ROUTE 9	3	NHPP	\$ 12,949,320	\$ 10,359,456	\$ 2,589,864
607488	BOSTON	SOUTHBOROUGH-RESURFACING & RELATED WORK ON ROUTE 9, FROM THE FRAMINGHAM T.L TO WHITE BAGLEY ROAD	3	NHPP	\$ 3,791,340	\$ 3,033,072	\$ 758,268
607476	MERRIMACK VALLEY	METHUEN- RESURFACING & RELATED WORK ON ROUTE 213	4	NHPP	\$ 6,937,161	\$ 5,549,779	\$ 1,387,432
NHS Subtotal ► \$ 45,257,661 \$ 36,206,129 \$ 9,051,532							
NHPP Subtotal ► \$ 104,513,721 \$ 89,536,583 \$ 14,977,138							

Fiscal Constraint Analysis performed using Federal Funds amounts

IM + NHS \$ 89,536,583

2017 Statewide Transportation Improvement Program

Inter-state Maintenance and National Highway System Projects						
MassDOT Project ID	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼
► Section 1D / Federal Aid Major & State Category Projects						
► IM - Interstate Maintenance						
607478	FRANKLIN	DEERFIELD - GREENFIELD - WHATELY - INTERSTATE MAINTENANCE AND RELATED WORK ON I-91	2	NHPP	\$ 10,499,923	\$ 9,449,931
607562	CENTRAL MASS SETT	WEBSTER- OXFORD- INTERSTATE MAINTENANCE & RELATED WORK ON I-395	3	NHPP	\$ 7,620,912	\$ 6,858,821
606575	MONTACHU SETT	MONTACHU STERLING- LANCASTER- LEOMINSTER- INTERSTATE MAINTENANCE & RELATED WORK ON I-90	3	NHPP	\$ 17,612,774	\$ 15,851,497
607561	MERRIMAC K VALLEY	MERRIMAC ANDOVER- METHUEN- INTERSTATE MAINTENANCE & RELATED WORK ON I-93	4	NHPP	\$ 10,387,021	\$ 9,348,319
607481	BOSTON	RANDOLPH- QUINCY- BRAINTREE- RESURFACING & RELATED WORK ON I-93	6	NHPP	\$ 12,137,008	\$ 10,923,307
607563	CAPE COD	WAREHAM - ROCHESTER - MIDDLEBORO - INTERSTATE MAINTENANCE AND RELATED WORK ON I-495	5	NHPP	\$ 12,604,694	\$ 11,344,225
				IM Subtotal ►	\$ 70,862,332	\$ 63,776,099
► NHS - National Highway System						
607988	STATEWIDE	KINGSTON DUXBURY MARSHFIELD - RESURFACING AND RELATED WORK ON ROUTE 3	5	NHPP	\$ 15,713,069	\$ 12,570,455
608201	CAPE COD	HARWICH - BREWSTER - ORLEANS - RESURFACING AND RELATED WORK ON RT. 6	5	NHPP	\$ 6,506,614	\$ 5,205,292
607475	MONTACHU SETT	WINCHENDON- RESURFACING & RELATED WORK ON ROUTE 12, FROM MILL STREET/BEGINNING OF STATE HIGHWAY TO NEW HAMPSHIRE STATE LINE (2.5 MILES)	2	NHPP	\$ 1,879,150	\$ 1,503,320
608176	SOUTHEAS TERN MASS	BERKLEY-RAYNHAM-TAUNTON- RESURFACING & RELATED WORK ON ROUTE 24	5	NHPP	\$ 11,466,711	\$ 9,173,369
607477	BOSTON	LYNNFIELD- PEABODY - RESURFACING & RELATED WORK ON ROUTE 1	4	NHPP	\$ 7,721,542	\$ 6,177,234
				NHS Subtotal ►	\$ 43,287,087	\$ 34,629,670
				IM + NHS	\$ 98,405,769	\$ 8,657,417
Fiscal Constraint Analysis performed using Federal Funds amounts						

2018 Statewide Transportation Improvement Program

Interstate Maintenance and National Highway System Projects

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼
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► Section 1D / Federal Aid Major & State Category Projects

► IM - Interstate Maintenance

MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼
► IM - Interstate Maintenance				
607560 PIONEER VALLEY	CHICOPEE-HOLYOKE- INTERSTATE MAINTENANCE & RELATED WORK ON I-391	2 NHPP	\$ 11,989,555	\$ 10,790,600
608203 STATEWIDE	MARLBORO - HUDSON - BERLIN RESURFACING AND RELATED WORK ON I-495	3 NHPP	\$ 15,292,800	\$ 13,763,520
608207 PIONEER VALLEY	LONGMEADOW - SPRINGFIELD - RESURFACING AND RELATED WORK ON I-91	2 NHPP	\$ 13,763,520	\$ 12,387,168
607563 SOUTHEASTERN MASS	WAREHAM- ROCHESTER- MIDDLEBORO- INTERSTATE MAINTENANCE & RELATED WORK ON I-495	5 NHPP	\$ 14,177,955	\$ 12,760,159
608219 BOSTON	READING-WAKEFIELD- INTERSTATE MAINTENANCE RESURFACING AND RELATED WORK ON I-95	4 NHPP	\$ 4,638,816	\$ 4,174,934
607566 SOUTHEASTERN MASS	SEEKONK- REHOBOTH- INTERSTATE MAINTENANCE & RELATED WORK ON I-195	5 NHPP	\$ 10,959,840	\$ 9,863,856
IM Subtotal ►		\$ 70,822,486	\$ 63,740,237	\$ 7,082,249

► NHS - National Highway System

MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼
► NHS - National Highway System				
608069 BOSTON	MARSHFIELD PEMBROKE NORWELL HANOVER ROCKLAND HINGHAM RESURFACING ON RT 3	5 NHPP	\$ 17,586,720	\$ 14,069,376
607474 PIONEER VALLEY	GRANBY- SOUTH HADLEY- RESURFACING & RELATED WORK ON ROUTE 202, FROM LYMAN STREET SOUTH HADLEY TO PLEASANT STREET GRANBY (2 MILES)	2 NHPP	\$ 1,988,064	\$ 1,590,451
605608 BOSTON	DEDHAM - RESURFACING AND RELATED WORK ON ROUTE 109	6 NHPP	\$ 2,523,312	\$ 2,018,650
608008 BOSTON	SAUGUS-RESURFACING AND RELATED WORK ON ROUTE 1	4 NHPP	\$ 10,597,910	\$ 8,478,328
608220 BOSTON	CONCORD - RESURFACING AND RELATED WORK ON ROUTE 2	4 NHPP	\$ 1,784,160	\$ 1,427,328
NHS Subtotal ►		\$ 34,480,166	\$ 27,584,133	\$ 6,896,033

Fiscal Constraint Analysis performed using Federal Funds amounts

IM + NHS \$ 91,324,371

2019 Statewide Transportation Improvement Program

MassDOT Project ID ▼			MassDOT Project Description ▼			Interstate Maintenance and National Highway System Projects		
MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	

► Section 1D / Federal Aid Major & State Category Projects

► IM - Interstate Maintenance							
608208	Boston	QUINCY - MILTON - BOSTON - INTERSTATE MAINTENANCE AND RELATED WORK ON I-93	6	NHPP	\$ 22,287,462	\$ 20,058,716	\$ 2,228,746
608209	Statewide	LITTLETON-WESTFORD- INTERSTATE MAINTENANCE AND RELATED WORK ON I-495	3	NHPP	\$ 15,986,074	\$ 14,387,466	\$ 1,598,607
608210	Boston	FOXBOROUGH-PLAINVILLE-WRENTHAM-FRANKLIN-INTERSTAE MAINTENANCE AND RELATED WORK ON I-495	5	NHPP	\$ 29,392,384	\$ 26,453,146	\$ 2,939,238
608211	Pioneer Valley	CHICOFFEE-SPRINGFIELD- RESURFACING AND RELATED WORK ON I-291	2	NHPP	\$ 11,545,498	\$ 10,390,948	\$ 1,154,550
				IM Subtotal ►	\$ 79,211,418	\$ 71,290,276	\$ 7,921,142
► NHS - National Highway System							
608221	Boston	MARLBORO RESURFACING AND RELATED WORK ON ROUTE 20	3	NHPP	\$ 6,126,938	\$ 4,901,550	\$ 1,225,388
608222	Statewide	BOURNE - WAREHAM RESURFACING AND RELATED WORK ON ROUTE 25	5	NHPP	\$ 11,672,371	\$ 9,337,897	\$ 2,334,474
608223	Southeastern Mass	FALL RIVER RESURFACING AND RELATED WORK ON ROUTE 24 (EXCLUDES MM 3.9-4.5)	5	NHPP	\$ 9,134,899	\$ 7,307,919	\$ 1,826,980
				NHS Subtotal ►	\$ 26,934,208	\$ 21,547,366	\$ 5,386,842

Fiscal Constraint Analysis performed using Federal Funds amounts

IM + NHS \$ 92,837,642

2016 Statewide Transportation Improvement Program

Highway Safety Improvement Program

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼
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► Section 1D / Federal Aid Major & State Category Projects

► Statewide Highway Safety Improvement Program

607495	STATEWIDE	STATEWIDE- RETROREFLECTIVE SIGN UPGRADE ON SECONDARY ROADS (PHASE I)	SW	HSIP	\$ 5,161,000	\$ 4,644,900	\$ 516,100
SHSP	STATEWIDE	STATEWIDE- VARIOUS SAFETY STRATEGIES TO BE DETERMINED BASED ON 2013 SHSP AND UPDATES	SW	HSIP	\$ 3,820,556	\$ 3,438,500	\$ 382,056
607960	MRPC	ASHBURNHAM- ROUTE 101 AT WILLIAMS AND COREY HILL ROAD, INTERSECTION IMPROVEMENTS	3	HSIPR	\$ 624,000	\$ 561,600	\$ 62,400
608024	STATEWIDE	STATEWIDE - CONVERSION OF INTERSTATE AND FREEWAY EXIT NUMBERS TO MILEPOST-BASED	SW	HSIP	\$ 2,000,000	\$ 1,800,000	\$ 200,000
608170	CENTRAL MASS	STURBRIDGE- REHABILITATION & RELATED WORK ON BROOKFIELD ROAD(ROUTE 148), FROM MAIN STREET (MM 0.0) TO TOWN LINE (MM 3.4)	3	HSIPR	\$ 1,750,000	\$ 1,575,000	\$ 175,000
608169	CENTRAL MASS	DUDLEY- REHABILITATION & RELATED WORK ON DRESSER HILL ROAD (ROUTE 31), FROM STATE LINE (MM 0.0) TO TOWN LINE (MM 4.1)	3	HSIPR	\$ 1,750,000	\$ 1,575,000	\$ 175,000
608168	CENTRAL MASS	DOUGLAS- REHABILITATION & RELATED WORK ON WEBSTER STREET (ROUTE 16), FROM T.L. (MM 2.8) TO MAIN STREET (MM 6.9)	3	HSIPR	\$ 1,750,000	\$ 1,575,000	\$ 175,000
607176	CENTRAL MASS	SHEREWSBURY- NORTHBOROUGH- WESTBOROUGH- RESURFACING AND RELATED WORK ON ROUTE 9	3	HSIP	\$ 350,000	\$ 315,000	\$ 35,000
607918	CAPE CODE	SANDWICH TO ORLEANS - GUIDE & TRAFFIC SIGN REPLACEMENT ON A SECTION OF US ROUTE 6 (MID CAPE HIGHWAY)	5	HSIP	\$ 4,100,000	\$ 3,690,000	\$ 410,000
607753	CAPE CODE	BARNSTABLE- INTERSECTION & SIGNAL IMPROVEMENTS AT SR 28 (FALMOUTH ROAD) AT STRAWBERRY HILL ROAD	5	HSIP	\$ 550,000	\$ 495,000	\$ 55,000
607745	BERKSHIRE	LENOX- INTERSECTION & SIGNAL IMPROVEMENTS AT US 7 & US 20 (VETERAN'S MEMORIAL HIGHWAY) @ SR 183 (WALKER STREET)	1	HSIP	\$ 550,000	\$ 495,000	\$ 55,000
607752	NORTHERN MIDDLESEX	LOWELL- INTERSECTION & SIGNAL IMPROVEMENTS AT 2 LOCATIONS: SR 113 (VARNUM AVENUE & VFW HIGHWAY) AT MAMMOTH ROAD & VFW AT AIKEN STREET	4	HSIP	\$ 1,100,000	\$ 990,000	\$ 110,000
607755	BOSTON	WEYMOUTH- INTERSECTION & SIGNAL IMPROVEMENTS AT 2 LOCATIONS: SR 53 (WASHINGTON STREET) AT MUTTON LANE & PLEASANT STREET	6	HSIP	\$ 550,000	\$ 495,000	\$ 55,000
607764	CMRPC	SHEREWSBURY- INTERSECTION & SIGNAL IMPROVEMENT AT US 20 (HARTFORD TURNPIKE) AT GRAFTON STREET	3	HSIP	\$ 550,000	\$ 495,000	\$ 55,000
606620	STATEWIDE	RAYNHAM TO BOLTON- GUIDE & TRAFFIC SIGN REPLACEMENT ON I-495	SW	HSIP	\$ 5,950,000	\$ 5,355,000	\$ 595,000

Statewide HSIP Subtotal ► \$ 30,555,556 \$ 27,500,000 \$ 3,055,556

2017 Statewide Transportation Improvement Program

Highway Safety Improvement Program

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼
► Section 1D / Federal Aid Major & State Category Projects							
► Statewide Highway Safety Improvement Program							
SHSP	STATEWIDE STATEWIDE- VARIOUS SAFETY STRATEGIES TO BE DETERMINED BASED ON 2013 SHSP AND UPDATES		SW	HSIP	\$ 5,470,444	\$ 4,923,400	\$ 547,044
607960	MONTACHU SETT ASHBURNHAM- ROUTE 101 AT WILLIAMS AND COREY HILL ROAD, INTERSECTION IMPROVEMENTS	3	HSIP	\$ 624,000	\$ 561,600	\$ 62,400	
607496	STATEWIDE STATEWIDE- RETROREFLECTIVE SIGN UPGRADE ON SECONDARY ROADS (PHASE II)		SW	HSIP	\$ 8,400,000	\$ 7,560,000	\$ 840,000
607916	STATEWIDE FALL RIVER TO RANDOLPH- GUIDE & TRAFFIC SIGN REPLACEMENT ON A SECTION OF ROUTE 24	5	HSIP	\$ 5,500,000	\$ 4,950,000	\$ 550,000	
607736	PIONEER VALLEY CHICOPEE- SIGNAL & INTERSECTION IMPROVEMENTS AT 11 INTERSECTIONS ALONG ROUTE 33 (MEMORIAL DRIVE), FROM FULLER ROAD TO BRITTON STREET	2	HSIP	\$ 4,100,000	\$ 3,690,000	\$ 410,000	
607754	BOSTON MILTON- INTERSECTION & SIGNAL IMPROVEMENTS AT GRANITE AVENUE & SQUANTUM STREET	6	HSIP	\$ 350,000	\$ 315,000	\$ 35,000	
Statewide HSIP Subtotal ►				\$ 24,444,444	\$ 22,000,000	\$ 2,444,444	

2018 Statewide Transportation Improvement Program

Highway Safety Improvement Program

MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	Highway Safety Improvement Program						
			MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼		
► Section 1D / Federal Aid Major & State Category Projects									
► Statewide Highway Safety Improvement Program									
HSIP	STATEWIDE	STATEWIDE - VARIOUS SAFETY STRATEGIES TO BE DETERMINED BASED ON 2013 SHSP AND UPDATES	SW	HSIP	\$ 2,883,223	\$ 2,594,901	\$ 288,322		
607917	CENTRAL MASS	AUBURN TO WORCESTER- GUIDE & TRAFFIC SIGN REPLACEMENT ON A SECTION OF INTERSTATE 290	SW	HSIP	\$ 4,200,000	\$ 3,780,000	\$ 420,000		
607919	STATEWIDE	BOLTON TO LOWELL- GUIDE & TRAFFIC SIGN REPLACEMENT ON A SECTION OF INTERSTATE 495	SW	HSIP	\$ 2,700,000	\$ 2,430,000	\$ 270,000		
607496	STATEWIDE	STATEWIDE- RETROREFLECTIVE SIGN UPGRADE ON SECONDARY ROADS (PHASE II)	SW	HSIP	\$ 9,333,444	\$ 8,400,100	\$ 933,344		
608204	STATEWIDE	ATLIEBORO TO NORWOOD - GUIDE AND TRAFFIC SIGN REPLACEMENT ON A SECTION OF INTERSTATE 95	5	HSIP	\$ 4,000,000	\$ 3,600,000	\$ 400,000		
607760	BERKSHIRE	PITTSFIELD- INTERSECTION & SIGNAL IMPROVEMENTS AT 3 LOCATIONS: SR 8 & SR 9 (DALTON AVENUE) @ MERRILL CHESHIRE ROAD, DALTON AVENUE @ CRANE AVENUE CONNECTOR & SR 9 (MERRILL ROAD) @ CRANE AVENUE CONNECTOR	1	HSIP	\$ 1,500,000	\$ 1,350,000	\$ 150,000		
607748	BOSTON	ACTON- INTERSECTION & SIGNAL IMPROVEMENTS ON SR 2 & SR 111 (MASSACHUSETTS AVENUE) AT PIPER ROAD & TAYLOR ROAD	3	HSIP	\$ 1,500,000	\$ 1,350,000	\$ 150,000		
607761	BOSTON	SWAMPSOFT- INTERSECTION & SIGNAL IMPROVEMENTS AT SR 1A (PARADISE ROAD) AT SWAMPSOFT MALL	4	HSIP	\$ 550,000	\$ 495,000	\$ 55,000		
Statewide HSIP Subtotal ►					\$ 26,666,667	\$ 24,000,000	\$ 2,666,667		

2019 Statewide Transportation Improvement Program

2016 Statewide Transportation Improvement Program

			Americans with Disabilities Act and Stormwater Programs			
MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds	Federal Funds ▼
► Section 1D / Federal Aid Major & State Category Projects						
► Statewide ADA Retrofits Program						
607035	STATEWIDE	DISTRICT 1- ADA RETROFITS AT VARIOUS LOCATIONS	1	STP-TE	\$ 340,000	\$ 272,000
607036	STATEWIDE	DISTRICT 2- ADA RETROFITS AT VARIOUS LOCATIONS	2	STP-TE	\$ 740,000	\$ 592,000
		Statewide ADA Subtotal ►		\$ 1,080,000	\$ 864,000	\$ 148,000
						216,000

2017 Statewide Transportation Improvement Program

			Americans with Disabilities Act and Stormwater Programs			
MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds	Federal Funds ▼
► Section 1D / Federal Aid Major & State Category Projects						
► Statewide ADA Retrofits Program						
607038	STATEWIDE	DISTRICT 3- ADA RETROFITS AT VARIOUS LOCATIONS	3	STP-TE	\$ 600,000	\$ 480,000
607039	STATEWIDE	DISTRICT 4- ADA RETROFITS AT VARIOUS LOCATIONS	4	STP-TE	\$ 600,000	\$ 480,000
607041	STATEWIDE	DISTRICT 5- ADA RETROFITS AT VARIOUS LOCATIONS	5	STP-TE	\$ 575,000	\$ 460,000
607042	STATEWIDE	DISTRICT 6- ADA RETROFITS AT VARIOUS LOCATIONS	6	STP-TE	\$ 500,000	\$ 400,000
		Statewide ADA Subtotal ►		\$ 2,275,000	\$ 1,820,000	\$ 683,000

2019 Statewide Transportation Improvement Program

Americans with Disabilities Act and Stormwater Programs

MassDOT Project ID	MPO ▼ Project Description ▼	MassDOT District ▼	Total			Federal Funds ▼ Programmed Funds YOE ▼	Non-Federal Funds ▼				
			MassDOT	Funding Source ▼	Total Programmed Funds						
► Section 1D / Federal Aid Major & State Category Projects											
► Statewide ADA Retrotfits Program											
608825	STATEWIDE DISTRICT 1- ADA RETROFITS AT VARIOUS LOCATIONS	1	STP-TE	\$ 600,000	\$ 480,000	\$ 120,000					
608826	STATEWIDE DISTRICT 2- ADA RETROFITS AT VARIOUS LOCATIONS	2	STP-TE	\$ 900,000	\$ 720,000	\$ 180,000					
			Statewide ADA Subtotal ►	\$ 1,500,000	\$ 1,200,000	\$ 300,000					

2016 Statewide Transportation Improvement Program

MassDOT Project ID ▼			MPO ▼			MassDOT Project Description ▼			Congestion Mitigation and Air Quality Program					
MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼						
► Section 1D / Federal Aid Major & State Category Projects														
603477	PIONEER VALLEY	SOUTHWICK- INTERSECTION IMPROVEMENTS AT FOUR LOCATIONS ON ROUTE 57 (FEEDING HILLS ROAD)	2	CMAQ	\$ 3,551,223	\$ 2,840,978	\$ 710,245							
		Statewide CMAQ Subtotal ►			\$ 3,551,223	\$ 2,840,978	\$ 710,245	▼ 80% Federal + 20% Non-Federal						

DRAFT FFY 2016-2019 STIP

2017 Statewide Transportation Improvement Program

MassDOT Project ID ▼			MPO ▼			MassDOT Project Description ▼			Congestion Mitigation and Air Quality Program					
MassDOT Project ID ▼	MPO ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼						
► Section 1D / Federal Aid Major & State Category Projects														
602911	PIONEER VALLEY	CHICOPEE- CONNECTICUT RIVERWALK & BIKEWAY CONSTRUCTION, FROM BOAT RAMP NEAR I-90 TO NASH FIELD (2.5 MILES)	2	CMAQ	\$ 3,902,850	\$ 3,122,290	\$ 780,570							
603783	PIONEER VALLEY	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	\$ 6,532,895	\$ 5,226,316	\$ 1,306,579							
606450	PIONEER VALLEY	HOLYOKE- TRAFFIC SIGNAL UPGRADES AT 15 INTERSECTIONS ALONG HIGH & MAPLE STREETS	2	CMAQ	\$ 1,564,867	\$ 1,251,894	\$ 312,973							
606555	PIONEER VALLEY	NORTHAMPTON- ROUNDABOUT CONSTRUCTION AT INTERSECTION ROUTES 5/10 (NORTH KING STREET) & HATFIELD STREET T	2	CMAQ	\$ 2,989,892	\$ 2,391,914	\$ 597,978							
		Statewide CMAQ Subtotal ►			\$ 14,990,504	\$ 11,992,403	\$ 2,998,101	▼ 80% Federal + 20% Non-Federal						

2018 Statewide Transportation Improvement Program

Statewide Transportation Improvement Program			Congestion Mitigation and Air Quality Program					
MPO ▼	MassDOT Project ID ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Non-Federal Funds ▼	Additional Information ▼
► Section 1D / Federal Aid Major & State Category Projects								
► Statewide Congestion Mitigation and Air Quality Program								
607589	PIONEER VALLEY	NORTH END PEDESTRIAN PATH UNDER PAN-AM RAILROAD BETWEEN PLAINFIELD ST. AND BIRNIE AVE.	2	CMAQ	\$ 4,326,400	\$ 3,461,120	\$ 865,280	
602912	PIONEER VALLEY	CHICOPEE- CHICOPEE RIVER RIVERWALK MULT-USE PATH CONSTRUCTION, FROM GRAPE STREET TO FRONT STREET (NEAR ELLERTON STREET)	2	CMAQ	\$ 3,947,840	\$ 3,158,272	\$ 789,568	Chicopee is on the BSG CT River corridor.
		Statewide CMAQ Subtotal ▶	\$ 8,274,240	\$ 6,619,392	\$ 1,654,843			► 80% Federal + 20% Non-Federal

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 18.

Table 15: Project Implementation

Year	Highway Project Description	SID	Funding	Programmed	Status
2014	BELCHERTOWN- PAVEMENT REHABILITATION & RELATED WORK ON ROUTE 181, FROM MAPLE ST TO BELCHERTOWN/PALMER TOWN LINE (5.5 MILES)	604433	STP	\$ 9,077,789	Under Construction
2014	NORTHAMPTON- RESURFACING AND RELATED WORK ON ROUTE 10, FROM MM 24.8 NORTHERLY TO MM 25.1 AT EARLE STREET	606665	STP	\$ 150,000	Under Construction
2014	EASTHAMPTON- HOLYOKE- RESURFACING & RELATED WORK ON ROUTE 5, MM 16.014 IN HOLYOKE TO MM 20.427 IN EASTHAMPTON (4.43 MILES)	605891	STP	\$ 2,556,996	Under Construction
2014	LONGMEADOW- RESURFACING & RELATED WORK ON ROUTE 5 (LONGMEADOW STREET), FROM EDGEWOOD STREET TO WARREN TERRACE, INCLUDES CULVERT REPAIRS AT COOLEY BROOK (.2 MILES)	605886	STP	\$ 770,000	Under Construction
2014	SPRINGFIELD- SIGNAL & INTERSECTION IMPROVEMENTS AT SUMNER AVENUE, ALLEN STREET, ABBOT STREET & HARKNESS AVENUE	605685	STP	\$ 1,486,364	Under Construction
2014	SPRINGFIELD- SIGNAL & INTERSECTION IMPROVEMENTS AT SUMNER AVENUE, ALLEN STREET, ABBOT STREET & HARKNESS AVENUE	605685	CMAQ	\$ 701,344	Under Construction
2014	CHICOPEE- SIGNAL & INTERSECTION IMPROVEMENTS AT MEMORIAL DRIVE (ROUTE 33) & BROADWAY	604435	CMAQ	\$ 3,100,000	Under Construction
2014	NORTHAMPTON - RAIL STATION		CMAQ	\$ 700,000	Advertised
2014	SPRINGFIELD - UNION STATION REDEVELOPMENT		CMAQ	\$ 633,368	Under Construction
2014	BELCHERTOWN- PAVEMENT REHABILITATION & RELATED WORK ON ROUTE 181, FROM MAPLE ST TO BELCHERTOWN/PALMER TOWN LINE (5.5 MILES)	604433	TAP	\$ 473,939	Under Construction
2014	PELHAM- BRIDGE REPLACEMENTS, P-04-006, MEETINGHOUSE ROAD OVER AMETHYST BROOK & P-04-007, MEETINGHOUSE ROAD OVER HARRIS BROOK	604429	BR	\$ 1,846,800	Awarded for Construction
2014	EASTHAMPTON- NORTHAMPTON- INTERSTATE MAINTENANCE & RELATED WORK ON I-91 FROM MM 21.2 TO MM 26.9 IN BOTH DIRECTIONS (6.1 MILES)	606582	IM	\$ 13,334,000	Under Construction
2014	CUMMINGTON- RESURFACING & RELATED WORK ON ROUTE 9, FROM WINDSOR T.L. TO GOSHEN T.L.	605582	NHPP	\$ 8,395,682	Under Construction
2014	SPRINGFIELD- VIADUCT DECK REPLACEMENT OF S-24-061 ON I-91 (EARLY ACTION)	607731	NHPP	\$ 1,000,000	Awarded, Notice to Proceed expected Late May or Early June
2014	AMHERST- HADLEY- NORTHAMPTON- SOUTHAMPTON- WEST BROOKFIELD- SIDEWALK & WHEELCHAIR RAMP CONSTRUCTION ON ROUTES 5, 9, & 10	605144	ST-TAP	\$2,082,538	Under Construction
2014	WEST SPRINGFIELD- HOLYOKE- EASTHAMPTON- NORTHAMPTON- HATFIELD- WHATELY- DEERFIELD- GREENFIELD- BERNARDSTON- GUIDE & TRAFFIC SIGN REPLACEMENT ON I-91	605833	A/C	\$3,111,000	Under Construction

Table 15: Project Implementation (Cont.)

Year	Highway Project Description	SID	Funding	Programmed	Status
2015	PELHAM- RECONSTRUCTION OF AMHERST ROAD, FROM 800 FEET EAST OF ENFIELD ROAD TO ROUTE 202 (2.5 MILES - PHASE II)	607207	STP	\$ 4,200,000	Letting 8/25/15
2015	SPRINGFIELD- NORTH END & BRIGHTWOOD INFRASTRUCTURE IMPROVEMENTS, FROM OSGOOD STREET TO THE CHICOPEE CITY LINE (NORTHERLY SEGMENT)	605222	STP	\$ 6,172,363	Not Advertised
2015	CUMMINGTON- RETAINING WALL REPLACEMENT ON ROUTE 9 ADJACENT TO C-21-023 OVER WESTFIELD BROOK	606417	STP	\$ 1,500,000	Letting 7/14/15
2015	HADLEY- SIDEWALK & WHEELCHAIR RAMP CONSTRUCTION ON ROUTE 9	608023	STP	\$ 1,300,000	Not Advertised
2015	HADLEY- SIGNAL & INTERSECTION IMPROVEMENTS AT ROUTE 9 (RUSSELL STREET) & ROUTE 47 (MIDDLE STREET)	604035	HSIP	\$ 3,038,060	Not Advertised
2015	SPRINGFIELD - UNION STATION REDEVELOPMENT		CMAQ	\$ 315,970	Under Construction
2015	DISTRICT 2- SYSTEMATIC BRIDGE MAINTENANCE AT VARIOUS LOCATIONS	607515	BR-SP	\$ 1,849,536	Under Construction
2015	DISTRICT 2- SYSTEMATIC BRIDGE MAINTENANCE AT VARIOUS LOCATIONS	607468	BR-SP	\$ 2,771,540	Under Construction
2015	SPRINGFIELD- VIADUCT DECK REPLACEMENT OF S-24-061 ON I-91 (EARLY ACTION)	607731	NHPP	\$ 136,506,250	Awarded, Notice to Proceed expected Late May or Early June
2015	NORTHAMPTON- INTERSECTION IMPROVEMENTS AT ROUTE 5 (PLEASANT STREET) AND CONZ STREET - Roundabout	605066	Statewide CMAC	\$ 2,106,590	Not Advertised
2015	BERNARDSTON - WEST SPRINGFIELD - TRAFFIC SIGN REPLACEMENT ON INTERSTATE 91	605833	A/C	\$4,064,580	Under Construction
2015	WEST SPRINGFIELD- CONNECTICUT RIVERWALK & BIKEWAY EXTENSION, FROM ELM STREET TO DOTY CIRCLE, INCLUDES PEDESTRIAN BRIDGE W-21-020	603730	Statewide TAP	\$ 1,840,736	Not Advertised
2015	DISTRICT 2 - Stormwater RETROFITS AT VARIOUS LOCATIONS	607001	Other	\$ 1,500,000	Letting 9/15/15

Table 15: Project Implementation (Cont.)

FTA Program	Transit Agency	FTA Activity		Project Description	Project Status	Total Cost
		Line Item	Line Item			
5307	Pioneer Valley Transit Authority	114402		Rehab/Renovations: Northampton	100% Complete	\$400,000
5307	Pioneer Valley Transit Authority	111202		BUY REPLACEMENT 35-FT BUS, (5)	100% Complete	\$2,017,556
5307	Pioneer Valley Transit Authority	111304		BUY <30-FT BUS FOR EXPANSION, (4)	100% Complete	\$380,000
5307	Pioneer Valley Transit Authority	114211		Rehab/Renovation: Support Vehicles (2)	Ongoing	\$125,032
5307	Pioneer Valley Transit Authority	114206		Rehab/Renovation: Shop Equipment	90% Complete	\$100,000
5307	Pioneer Valley Transit Authority	119302		Transit Enhancements: Shelters	99% Complete	\$20,047
5307	Pioneer Valley Transit Authority	119308		Transit Enhancements: Signs/Lighting		\$365,830
5307	Pioneer Valley Transit Authority	114220		Rehab/Renovation: Communications Systems (ITS)	100% Complete	\$1,753,661
5307	Pioneer Valley Transit Authority	442301		Planning	80% Complete	\$225,000
5307	Pioneer Valley Transit Authority	117C00		ADA Operating Projects	100% Complete	\$1,479,468
5307	Pioneer Valley Transit Authority	117A00		Preventive Maintenance	84% Estimated at 06/30/2015	\$3,125,000
5307	Pioneer Valley Transit Authority	116220		Rehab/Renovation: Misc. Communications	100% Complete	\$888,428
5307	Pioneer Valley Transit Authority	111216		Purchase - Replacement: Vans (6)	Delivery Expected June 2015	\$391,988
5307	Pioneer Valley Transit Authority	111301		Purchase - Buses for Expanded Service, 40' (8)	100% Complete	\$1,528,810
5307	Pioneer Valley Transit Authority	111204		BUY <30' mini bus, Replacements (4)	Will be procured in FY 16	\$380,000
5307	Pioneer Valley Transit Authority	119306		CONSTRUCT BICYCLE ACCESS, FACIL & EQUIP ON BUSES	Will be procured by June 2015	\$10,000
5307	Pioneer Valley Transit Authority	114402		REHAB/RENOVATE - Environmental Compliance	84% Complete	\$95,315
5307	Pioneer Valley Transit Authority	113303		Rehab/Renovations: Roof Designs	Will be completed by June 2015	\$350,000
5307	Pioneer Valley Transit Authority	113307		Rehab/Renovation: Surveillance Systems	100% Complete	\$143,749
5307	Pioneer Valley Transit Authority	112220		Farebox	Will be completed by September 2016	\$287,674
5307	Pioneer Valley Transit Authority	113303		Westfield Intermodal Center	72% Complete, all relocated by August 2016	\$1,700,000
5307	Pioneer Valley Transit Authority	111201		BUY REPLACEMENT 40-FT BUS (6) - Match in FY 16	Buses to be delivered Jul/Aug 2015	\$2,373,838
5307	Pioneer Valley Transit Authority	111202		BUY REPLACEMENT 35-FT BUS (5) - Match in FY16	Buses to be delivered Jul/Aug 2015	\$1,958,199

Table 15: Project Implementation (Cont.)

FTA Program	Transit Agency	FTA Activity		Project Description	Project Status	Total Cost
		Line Item	Item Description			
5307	Pioneer Valley Transit Authority	111301	BUY 40-FT BUS FOR EXPANSION (4) Match in FY16	Buses to be delivered Ju/Aug 2015		\$1,582,559
5307	Pioneer Valley Transit Authority	114206	Rehab/Renovation: Shop Equipment - Match in FY 16	To be Procured in FY 16, Still waiting on FTA Grant		\$40,000
5307	Pioneer Valley Transit Authority	119302	Transit Enmts: Shelters, etc - Match in FY 16	To be Procured in FY 16, Still waiting on FTA Grant		\$120,000
5307	Pioneer Valley Transit Authority	119308	Transit Enmts: Signs/Lighting - Match in FY 16	To be Procured in FY 16, Still waiting on FTA Grant		\$80,000
5307	Pioneer Valley Transit Authority	114211	ACQUIRE - SUPPORT VEHICLES (1) - Match in FY 16	To be Procured in FY 16, Still waiting on FTA Grant		\$80,000
5307	Pioneer Valley Transit Authority	114402	Environmental Compliance - Match in FY 16	To be Procured in FY 16, Still waiting on FTA Grant		\$80,000
5307	Pioneer Valley Transit Authority	111216	BUY REPL SEDAN/STATION WAGON (3) - Match in FY 16	To be Procured in FY 16, Still waiting on FTA Grant		\$67,200
5307	Pioneer Valley Transit Authority	111301	BUY 40-FT BUS FOR EXPANSION (2) - Match in FY 16	To be Procured in FY 16, Still waiting on FTA Grant		\$635,220
5307	Pioneer Valley Transit Authority	442301	Planning - Match in FY 16	To be Procured in FY 16, Still waiting on FTA Grant		\$216,000
5307	Pioneer Valley Transit Authority	117A00	PREVENTIVE MAINTENANCE - Match in FY 16	To be Procured in FY 16, Still waiting on FTA Grant		\$1,703,581
5307	Pioneer Valley Transit Authority	117C00	NON FIXED ROUTE ADA PARA SERV - Match in FY 16	To be Procured in FY 16, Still waiting on FTA Grant		\$1,138,689
5307	Pioneer Valley Transit Authority	114220	Communications Sys, Including ITS - Match in FY 16	To be Procured in FY 16, Still waiting on FTA Grant		\$1,311,607
5310	Pioneer Valley Transit Authority	114220	Rehab/Renovation: Communications System (ITS)	To be Procured in FY 16		\$126,078
5310	Human Resources Unlimited, Inc.	131215	PURCHASE REPL VAN (5)	Ongoing		\$320,925
5310	University of Massachusetts Amherst	441000	STATE PLANNING & RESEARCH	Ongoing		\$367,127
5339	Pioneer Valley Transit Authority	111216	Purchase - Replacement: Vans (18)	Delivery Expected June 2015		\$1,005,916
5339	Pioneer Valley Transit Authority	114103	REHAB/RENOVATE - Environmental Compliance & Misc.	Purchase estimate September 2016		\$32,055

Table 15: Project Implementation (Cont.)

FTA Program	Transit Agency	FTA Activity Line Item	Project Description	Project Status	Total Cost
5339	Pioneer Valley Transit Authority	113303	TERMINAL, INTERMODAL (TRANSIT), Westfield	Construction substantially completed in 2016	\$2,067,824
5339	Pioneer Valley Transit Authority	111301	BUY 40-FT BUS FOR EXPANSION (2) - Match in FY 16	To be Procured in FY 16, Still waiting on FTA Grant	\$757,970
5339	Pioneer Valley Transit Authority	114402	Rehab/Renovations: Northampton - Match in FY 16	To be Procured in FY 16, Still waiting on FTA Grant	\$20,000
5339	Springfield Redevelopment Authority	113303	TERMINAL, INTERMODAL (TRANSIT)	Ongoing	\$832,224
Other Non-Federal	Pioneer Valley Transit Authority	114303	Construction:Springfield O&M, Year 1	100% Complete by June 2015	\$2,330,000
Other Non-Federal	Pioneer Valley Transit Authority	114403	REHAB/RENOVATE - ADMIN/MAINT FACILITY	100 % Complete by June 2015	\$641,471
46 Projects Total Investment				\$35,656,041	

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 2016-2019 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 2016-2019 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.

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 2016 – 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.
-

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 2016 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 2016-19 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.
 - **Quantified Decrease in Emissions from Complete Streets Improvements**
Improvements to roadway networks that include the addition of bicycle and pedestrian accommodations where none were present before.
 - Quantified Decrease in Emissions from Other Improvement

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

Projects with Assumed Impact

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

Assumed Nominal Decrease in Emissions - Projects that would be expected to produce a minor decrease in emissions that cannot be calculated with any precision. Examples of such projects include roadway repaving or reconstruction projects that add a new sidewalk or new bike lanes. Such a project would enable

increased travel by walking or bicycling, but there may be no data or analysis to support any projections of GHG impacts. These projects should be categorized in the following manner:

- Assumed Nominal Decrease in Emissions from Sidewalk Infrastructure
- Assumed Nominal Decrease in Emissions from Bicycle Infrastructure
- Assumed Nominal Decrease in Emissions from Sidewalk and Bicycle Infrastructure
- Assumed Nominal Decrease in Emissions from Intelligent Transportation Systems (ITS) and/or Traffic Operational Improvements
- Assumed Nominal Decrease in Emissions from Other Improvements

Assumed Nominal Increase in Emissions - Projects that would be expected to produce a minor increase in emissions that cannot be calculated with any precision.

Regional Greenhouse Gas Impact Summary Tables for FFY 2016 – 2019 TIP

The following tables summarize the calculated quantitative and assumed qualitative impacts of the projects included in the regional FFY 2016 – 2019 TIP.

APPENDICES

APPENDIX A: MassDOT Targets

TITLE 23 - TRANSPORTATION FUNDING

**FEDERAL FISCAL YEAR 2016
FEDERAL REGIONAL TARGETS**

4/3/2015 - DRAFT

	Obligation Authority	Obl. Auth. Matching State Funds	Total Funding Based On Obl. Auth.		
Base Obligation AFthority	\$550,000,000				
Redistribution, as Estimated by FHWA	\$50,000,000				
Total Estimated Obligation AFthority Available:	\$600,000,000				
ABP GANS Repayment	44,440,000				
Total Non-Earmarked Available Statewide - (Including State Match)	555,560,000	124,528,769	680,088,769		
Statewide Infrastructure Items:					
Statewide Infrastructure Program	\$14,000,000	\$3,500,000	\$17,500,000		
Statewide HSIP Program	\$27,500,000	\$3,055,556	\$30,555,556		
Statewide Safe Routes to Schools Program	\$6,052,578	\$1,513,145	\$7,565,723		
Statewide CMAQ	\$29,844,908	\$7,461,227	\$37,306,135		
Statewide Transportation Enhancements	\$4,647,954	\$1,161,988	\$5,809,942		
Statewide ITS	\$10,480,000	\$2,620,000	\$13,100,000		
Statewide Interstate Maintenance Program	\$68,340,860	\$7,593,429	\$75,934,289		
Statewide NHS Preservation Program	\$21,360,000	\$5,340,000	\$26,700,000		
Statewide RR Grade Crossings	\$6,800,000	\$1,700,000	\$8,500,000		
Statewide Stormwater Retriffs	\$5,475,120	\$1,368,780	\$6,843,900		
Statewide ADA Implementation Plan	\$3,200,000	\$800,000	\$4,000,000		
Subtotal Statewide Infrastructure Items:	\$197,701,420	\$36,314,124	\$234,815,544		
Other Statewide Items:					
AWARD ADJUSTMENTS, CHANGE ORDERS, ETC	\$22,219,720	\$5,554,930	\$27,774,650		
Planning	\$16,800,000	\$4,200,000	\$21,000,000		
Recreational Trails	\$800,000	\$200,000	\$1,000,000		
DBEs, FAPO, Misc Programs	\$800,000	\$200,000	\$1,000,000		
Design and Right of Way	\$0	\$0	\$0		
Subtotal Other Statewide Items:	\$40,619,720	\$10,164,930	\$50,774,650		
Regional Major Infrastructure Projects:	\$57,595,001	\$14,398,750	\$71,993,751		
Bridge Program:					
Statewide Bridge Maintenance Program	\$8,000,000	\$2,000,000	\$10,000,000		
Statewide Bridge Repl. / Rehab Program	\$105,983,859	\$26,495,965	\$132,479,824		
Statewide Bridge Inspection Program	\$5,000,000	\$1,250,000	\$6,250,000		
Subtotal Federal Aid Bridge Program:	\$118,983,859	\$29,745,965	\$148,729,824		
Total Regional Targets:					
CMAQ - Congestion Mitigation and Air Quality Improvement Prog	\$25,000,000	\$6,250,000	\$31,250,000		
HSIP - Highway Safety Improvement Program	\$9,000,000	\$1,000,000	\$10,000,000		
TAP - Transportation Alternatives Program	\$7,970,006	\$1,992,501	\$9,962,507		
Regional Maximum Non-CMAQ / HSIP Component:	\$98,689,994	\$24,672,498	\$123,362,492		
Total Regional Target	\$140,660,000	\$33,915,000	\$174,575,000		
<hr/>					
Region	Regional Minimum HSIP Component With State Match	Regional Minimum 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	\$355,964	\$1,112,389	\$0	\$6,214,248	\$4,745,895
Boston Region	\$4,296,710	\$13,427,220	\$5,097,438	\$75,009,821	\$52,188,452
Cape Cod	\$458,514	\$1,432,857	\$357,528	\$8,004,511	\$5,755,612
Central Mass	\$869,013	\$2,715,666	\$862,078	\$15,170,796	\$10,734,039
Franklin Region	\$253,975	\$793,671	\$0	\$4,433,762	\$3,386,116
Martha's Vineyard	\$30,997	\$96,865	\$0	\$541,128	\$413,266
Merrimack Valley	\$442,956	\$1,364,237	\$610,846	\$7,732,899	\$6,294,861
Montachusetts	\$445,956	\$1,393,611	\$149,980	\$7,785,266	\$6,795,721
Nantucket	\$21,998	\$68,743	\$0	\$384,027	\$293,286
Northern Middlesex	\$390,961	\$1,221,753	\$490,607	\$6,826,200	\$4,721,879
Old Colony	\$455,954	\$1,424,858	\$600,019	\$7,969,824	\$6,478,993
Pioneer Valley	\$1,080,992	\$3,378,100	\$947,878	\$18,871,416	\$13,464,447
Southeastern Mass	\$896,010	\$2,800,033	\$856,134	\$15,642,102	\$11,089,925
Total:	\$10,000,000	\$31,250,000	\$9,962,507	\$174,575,000	\$123,362,492

TITLE 23 - TRANSPORTATION FUNDING

**FEDERAL FISCAL YEAR 2017
FEDERAL REGIONAL TARGETS**

4/3/2015 - DRAFT

	Obligation Authority	Obl. Auth. Matching State Funds	Total Funding Based On Obl. Auth.																																																																																												
Base Obligation Authority	\$550,000,000																																																																																														
Redistribution, as Estimated by FHWA	\$50,000,000																																																																																														
Total Estimated Obligation Authority Available:	\$600,000,000																																																																																														
ABP GANS Repayment	59,150,000																																																																																														
Total Non-Earmarked Available Statewide - (Including State Match)	\$40,850,000	122,288,943	663,138,943																																																																																												
Statewide Infrastructure Items:																																																																																															
Statewide Infrastructure Program	\$5,600,000	\$1,400,000	\$7,000,000																																																																																												
Statewide HSIP Program	\$22,000,000	\$2,444,444	\$24,444,444																																																																																												
Statewide Safe Routes to Schools Program	\$5,000,000	\$1,250,000	\$6,250,000																																																																																												
Statewide CMAQ	\$35,030,000	\$8,757,500	\$43,787,500																																																																																												
Statewide Transportation Enhancements	\$0	\$0	\$0																																																																																												
Statewide ITS	\$14,400,000	\$3,600,000	\$18,000,000																																																																																												
Statewide Interstate Maintenance Program	\$63,489,614	\$7,054,402	\$70,544,016																																																																																												
Statewide NHS Preservation Program	\$34,932,000	\$8,733,000	\$43,665,000																																																																																												
Statewide RR Grade Crossings	\$8,000,000	\$2,000,000	\$10,000,000																																																																																												
Statewide Stormwater Retrofits	\$4,000,000	\$1,000,000	\$5,000,000																																																																																												
Statewide ADA Implementation Plan	\$3,200,000	\$800,000	\$4,000,000																																																																																												
Subtotal Statewide Infrastructure Items:	\$195,651,614	\$37,239,346	\$233,690,960																																																																																												
Other Statewide Items:																																																																																															
AWARD ADJUSTMENTS, CHANGE ORDERS, ETC	\$25,000,000	\$6,250,000	\$31,250,000																																																																																												
Planning	\$25,800,000	\$6,450,000	\$32,250,000																																																																																												
Recreational Trails	\$800,000	\$200,000	\$1,000,000																																																																																												
DBEs, FAPO, Misc Programs	\$800,000	\$200,000	\$1,000,000																																																																																												
Design and Right of Way	\$0	\$0	\$0																																																																																												
Subtotal Other Statewide Items:	\$52,400,000	\$13,100,000	\$65,500,000																																																																																												
Regional Major Infrastructure Projects:	\$7,200,000	\$1,800,000	\$9,000,000																																																																																												
Bridge Program:																																																																																															
Statewide Bridge Maintenance Program	\$8,000,000	\$2,000,000	\$10,000,000																																																																																												
Statewide Bridge Repl. / Rehab Program	\$106,338,386	\$26,584,597	\$132,922,983																																																																																												
Statewide Bridge Inspection Program	\$5,000,000	\$1,250,000	\$6,250,000																																																																																												
Subtotal Federal Aid Bridge Program:	\$119,338,386	\$29,834,597	\$149,172,983																																																																																												
Total Regional Targets:																																																																																															
CMAQ - Congestion Mitigation and Air Quality Improvement Prog	\$25,000,000	\$6,250,000	\$31,250,000																																																																																												
HSIP - Highway Safety Improvement Program	\$9,000,000	\$1,000,000	\$10,000,000																																																																																												
TAP - Transportation Alternatives Program	\$7,970,006	\$1,992,501	\$9,962,507																																																																																												
Regional Maximum Non-CMAQ / HSIP Component:	\$124,289,994	\$31,072,499	\$155,362,493																																																																																												
Total Regional Target	\$166,260,000	\$40,315,000	\$206,575,000																																																																																												
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Region	Regional Minimum HSIP Component With State Match	Regional Minimum CMAQ Component With State Match	Regional TAP Component With State Match	Total Regional Target With State Match	NonCMAQ/ HSIP/TAP with State Match																																																																																										
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TITLE 23 - TRANSPORTATION FUNDING

**FEDERAL FISCAL YEAR 2018
FEDERAL REGIONAL TARGETS**

4/3/2015 - DRAFT

	Obligation Authority	Obl. Auth. Matching	Total Funding Based On																																																																																										
	State Funds		Obl. Auth.																																																																																										
Base Obligation Authority	\$550,000,000																																																																																												
Redistribution, as Estimated by FHWA	\$50,000,000																																																																																												
Total Estimated Obligation Authority Available:	\$600,000,000																																																																																												
ABP GANS Repayment	68,463,700																																																																																												
Total Non-Earmarked Available Statewide - (Including State Match)	\$31,536,300	120,126,726	651,663,026																																																																																										
Statewide Infrastructure Items:																																																																																													
Statewide Infrastructure Program	\$5,600,000	\$1,400,000	\$7,000,000																																																																																										
Statewide HSIP Program	\$24,000,000	\$2,666,667	\$26,666,667																																																																																										
Statewide Safe Routes to Schools Program	\$5,000,000	\$1,250,000	\$6,250,000																																																																																										
Statewide CMAQ	\$38,400,000	\$9,600,000	\$48,000,000																																																																																										
Statewide Transportation Enhancements	\$0	\$0	\$0																																																																																										
Statewide ITS	\$11,920,000	\$2,980,000	\$14,900,000																																																																																										
Statewide Interstate Maintenance Program	\$60,292,914	\$6,699,213	\$66,992,127																																																																																										
Statewide NHS Preservation Program	\$31,000,000	\$7,750,000	\$38,750,000																																																																																										
Statewide RR Grade Crossings	\$4,800,000	\$1,200,000	\$6,000,000																																																																																										
Statewide Stormwater Retrofits	\$4,000,000	\$1,000,000	\$5,000,000																																																																																										
Statewide ADA Implementation Plan	\$3,200,000	\$800,000	\$4,000,000																																																																																										
Subtotal Statewide Infrastructure Items:	\$188,212,914	\$35,545,879	\$224,558,793																																																																																										
Other Statewide Items:																																																																																													
AWARD ADJUSTMENTS, CHANGE ORDERS, ETC	\$25,000,000	\$6,250,000	\$31,250,000																																																																																										
Planning	\$24,800,000	\$6,200,000	\$31,000,000																																																																																										
Recreational Trails	\$800,000	\$200,000	\$1,000,000																																																																																										
DBEs, FAPO, Misc Programs	\$800,000	\$200,000	\$1,000,000																																																																																										
Design and Right of Way	\$0	\$0	\$0																																																																																										
Subtotal Other Statewide Items:	\$51,400,000	\$12,850,000	\$64,250,000																																																																																										
Regional Major Infrastructure Projects:	\$0	\$0	\$0																																																																																										
Bridge Program:																																																																																													
Statewide Bridge Maintenance Program	\$8,000,000	\$2,000,000	\$10,000,000																																																																																										
Statewide Bridge Repl. / Rehab Program	\$105,463,386	\$26,365,847	\$131,829,233																																																																																										
Statewide Bridge Inspection Program	\$5,000,000	\$1,250,000	\$6,250,000																																																																																										
Subtotal Federal Aid Bridge Program:	\$118,463,386	\$29,615,847	\$148,079,233																																																																																										
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CMAQ - Congestion Mitigation and Air Quality Improvement Prog:	\$25,000,000	\$6,250,000	\$31,250,000																																																																																										
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TAP - Transportation Alternatives Program	\$7,970,006	\$1,992,501	\$9,962,507																																																																																										
Regional Maximum Non-CMAQ / HSIP Component:	\$131,489,994	\$32,872,499	\$164,362,493																																																																																										
Total Regional Target	\$173,460,000	\$42,115,000	\$215,575,000																																																																																										
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Region	Regional Minimum HSIP Component With State Match	Regional Minimum CMAQ Component With State Match	Regional TAP Component With State Match	Total Regional Target With State Match	NonCMAQ/ HSIP/TAP with State Match																																																																																								
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TITLE 23 - TRANSPORTATION FUNDING

**FEDERAL FISCAL YEAR 2019
FEDERAL REGIONAL TARGETS**

4/3/2015 - DRAFT

	Obligation Authority	Obl. Auth. Matching State Funds	Total Funding Based On Obl. Auth.
Base Obligation Authority	\$550,000,000		
Redistribution, as Estimated by FHWA	\$50,000,000		
Total Estimated Obligation Authority Available:	\$600,000,000		
ABP GANS Repayment	73,525,150		
Total Non-Earmarked Available Statewide - (Including State Match)	526,474,850	130,368,713	656,843,563
Statewide Infrastructure Items:			
Statewide Infrastructure Program	\$0	\$0	\$0
Statewide HSIP Program	\$24,000,000	\$2,666,667	\$26,666,667
Statewide Safe Routes to Schools Program	\$5,000,000	\$1,250,000	\$6,250,000
Statewide CMAQ	\$44,363,162	\$11,090,791	\$55,453,953
Statewide Transportation Enhancements	\$0	\$0	\$0
Statewide ITS	\$20,000,000	\$5,000,000	\$25,000,000
Statewide Interstate Maintenance Program	\$57,646,464	\$14,411,616	\$72,058,080
Statewide NHS Preservation Program	\$28,000,000	\$7,000,000	\$35,000,000
Statewide RR Grade Crossings	\$3,800,000	\$950,000	\$4,750,000
Statewide Stormwater Retools	\$3,000,000	\$750,000	\$3,750,000
Statewide ADA Implementation Plan	\$0	\$0	\$0
Subtotal Statewide Infrastructure Items:	\$185,809,626	\$46,452,407	\$232,262,033
Other Statewide Items:			
AWARD ADJUSTMENTS, CHANGE ORDERS, ETC	\$25,000,000	\$6,250,000	\$31,250,000
Planning	\$23,800,000	\$5,950,000	\$29,750,000
Recreational Trails	\$800,000	\$200,000	\$1,000,000
DBEs, FAPO, Misc Programs	\$800,000	\$200,000	\$1,000,000
Design and Right of Way	\$0	\$0	\$0
Subtotal Other Statewide Items:	\$50,400,000	\$12,600,000	\$63,000,000
Regional Major Infrastructure Projects:	\$0	\$0	\$0
Bridge Program:			
Statewide Bridge Maintenance Program	\$8,000,000	\$2,000,000	\$10,000,000
Statewide Bridge Repl. / Rehab Program	\$103,805,224	\$25,951,306	\$129,756,530
Statewide Bridge Inspection Program	\$5,000,000	\$1,250,000	\$6,250,000
Subtotal Federal Aid Bridge Program:	\$116,805,224	\$29,201,306	\$146,006,530
Total Regional Targets:			
CMAQ - Congestion Mitigation and Air Quality Improvement Program	\$25,000,000	\$6,250,000	\$31,250,000
HSIP - Highway Safety Improvement Program	\$9,000,000	\$1,000,000	\$10,000,000
TAP - Transportation Alternatives Program	\$5,278,555	\$1,379,639	\$6,598,194
Regional Maximum Non-CMAQ / HSIP Component:	\$134,181,445	\$33,545,361	\$167,726,806
Total Regional Target	\$173,460,000	\$42,115,000	\$215,575,000

Region	Regional Minimum HSIP Component With State Match	Regional Minimum CMAQ Component With State Match	Regional TAP Component With State Match	Total Regional Target Wth State Match	NonCMAQ/ HSIP/TAP with State Match
Berkshire Region	\$355,964	\$1,112,389	\$0	\$7,673,703	\$6,205,349
Boston Region	\$4,296,710	\$13,427,220	\$2,548,719	\$92,626,333	\$72,353,684
Cape Cod	\$458,514	\$1,432,857	\$178,764	\$9,884,419	\$7,814,284
Central Mass	\$869,013	\$2,715,666	\$426,039	\$18,733,750	\$14,723,032
Franklin Region	\$253,975	\$793,671	\$0	\$5,475,057	\$4,427,412
Martha's Vineyard	\$30,997	\$96,865	\$0	\$668,216	\$540,363
Merrimack Valley	\$442,966	\$1,384,237	\$305,423	\$9,549,018	\$7,416,402
Montachusetts	\$445,956	\$1,393,611	\$74,990	\$9,613,684	\$7,699,128
Nantucket	\$21,998	\$68,743	\$0	\$474,218	\$383,477
Northern Middlesex	\$390,961	\$1,221,753	\$245,303	\$8,428,140	\$6,570,122
Old Colony	\$455,954	\$1,424,858	\$300,009	\$9,829,237	\$7,648,416
Pioneer Valley	\$1,080,992	\$3,378,100	\$473,939	\$23,303,483	\$18,370,452
Southeastern Mass	\$896,010	\$2,800,033	\$428,067	\$19,315,744	\$16,191,634
Total:	\$10,000,000	\$31,250,000	\$6,598,194	\$215,575,000	\$169,343,747

APPENDIX B: Summary of Operation and Maintenance Expenditures

Massachusetts Department of Transportation - Highway Division
 Summary of Operating and Maintenance Expenditures
 Pioneer Valley Region - Part 1: Non-Federal Aid
 as of May 31, 2015

Section I - Non Federal Aid Maintenance Projects - State Bondfunds

Program Group/Sub Group	Estimated SFY 2013 Expenditures	Estimated SFY 2014 Expenditures	Current SFY 2015 Expenditures to Date
01 - Bridge Repair & Replacement			
New Bridge (Excluded)	n/a	n/a	n/a
Bridge Replacement (Excluded)	n/a	n/a	n/a
Bridge Reconstruction/Rehab	\$17,535,478	\$7,002,668	\$3,120,910
Drawbridge Maintenance	\$0	\$0	\$0
Structures Maintenance	\$1,938,488	\$22,934	\$84,892
02 - Bridge Painting			
Painting - Structural	\$0	\$0	\$0
03 - Roadway Reconstruction			
Hwy Relocation (Excluded)	n/a	n/a	n/a
Hwy Recon. - Added Capacity (Excluded)	n/a	n/a	n/a
New Construction (Excluded)	n/a	n/a	n/a
Hwy Reconstr - Rest & Rehab	\$0	\$0	\$0
Hwy Reconstr - No Added Capacity	\$0	\$0	\$0
Hwy Reconstr - Minor Widening	\$0	\$37,516	\$7,888
Hwy Reconstr - Major Widening	\$0	\$0	\$0
04 - Roadway Resurfacing			
Resurfacing	\$55,975	\$0	\$1,701,780
05 - Intersection & Safety			
Impact Attenuators	\$0	\$0	\$0
Safety Improvements	\$0	\$0	\$0
Traffic Signals	\$0	\$0	\$0
06 - Signs & Lighting			
Electrical	\$716	\$6,724	\$0
Sign Installation / Upgrading	\$0	\$0	\$0
Structural Signing	\$0	\$0	\$0
07 - Guardrail			
Guard Rail and Fencing	\$0	\$0	\$0
08 - Maintenance			
Catch Basin Cleaning	\$0	\$0	\$0
Crack Sealing	\$0	\$0	\$0
Landscaping	\$0	\$0	\$0
Mowing and Spraying	\$0	\$0	\$0
Pavement Marking	\$0	\$0	\$0
Sewer and Water	\$101,488	\$3,820	\$0
Process/Recycle/Tmsprt Soils	\$0	\$0	\$0
Contract Hwy Maint.	\$0	\$0	\$0
09 - Facilities			
Chemical Storage Sheds	\$0	\$0	\$0
Vertical Construction	\$1,355,990	\$4,324,162	\$0
10 - Bikeways (Excluded)	n/a	n/a	n/a
11 - Other			
Demolition	\$0	\$445	\$0
Drilling & Boring	\$0	\$0	\$0
Highway Sweeping	\$0	\$0	\$0
Intelligent Transportation System	\$0	\$0	\$0
Marine Construction	\$0	\$0	\$0
Miscellaneous / No prequal	\$0	\$0	\$0
Reclamation	\$0	\$0	\$0
Underground Tank Removal Replace	\$0	\$0	\$0
Unknown	\$0	\$0	\$0
Section I Total:	\$20,988,135	\$11,398,269	\$4,915,470

Section II - Non Federal Aid Highway Operations - State Operating Budget Funding

12 - Snow and Ice Operations & Materials	n/a	n/a	n/a
13 - District Maintenance Payroll (Mowing, Litter Management, Sigh Distance Clearing, Etc.)	n/a	n/a	n/a
Section II Total:	\$0	\$0	\$0
Grand Total NFA:	\$20,988,135	\$11,398,269	\$4,915,470

Massachusetts Department of Transportation - Highway Division
 Summary of Operating and Maintenance Expenditures
 Pioneer Valley Region - Part 2: Federal Aid
 as of May 31, 2015

Section I - Federal Aid Maintenance Projects

Program Group/Sub Group	Estimated SFY 2013 Expenditures	Estimated SFY 2014 Expenditures	Current SFY 2015 Expenditures to Date
01 - Bridge Repair & Replacement			
New Bridge (Excluded)	n/a	n/a	n/a
Bridge Replacement (Excluded)	n/a	n/a	n/a
Bridge Reconstruction/Rehab	\$7,899,450	\$4,496,289	\$9,856,537
Drawbridge Maintenance	\$0	\$0	\$0
Structures Maintenance	\$7,587	\$76,277	\$1,338,546
02 - Bridge Painting			
Painting - Structural	\$0	\$0	\$0
03 - Roadway Reconstruction			
Hwy Relocation (Excluded)	n/a	n/a	n/a
Hwy Recon - Added Capacity (Excluded)	n/a	n/a	n/a
New Construction (Excluded)	n/a	n/a	n/a
Hwy Reconstr - Restr and Rehab	\$3,643,068	\$817,829	\$29,396
Hwy Reconstr - No Added Capacity	\$2,248,466	\$4,813,258	\$1,266,887
Hwy Reconstr - Minor Widening	\$4,537,040	\$3,539,103	\$3,800,430
Hwy Reconstr - Major Widening	\$0	\$0	\$0
04 - Roadway Resurfacing			
Resurfacing	\$7,829,827	\$15,202,187	\$10,946,197
05 - Intersection & Safety			
Impact Attenuators	\$0	\$0	\$0
Safety Improvements	\$0	\$0	\$0
Traffic Signals	\$571,607	\$789,459	\$0
06 - Signs & Lighting			
Electrical	\$131,784	\$12,322	\$0
Sign Installation / Upgrading	\$39,551	\$0	\$0
Structural Signing	\$603,820	\$2,263,775	\$0
07 - Guardrail			
Guard Rail and Fencing	\$11,483	\$0	\$0
08 - Maintenance			
Catch Basin Cleaning	\$0	\$0	\$0
Contract Highway Maintenance	\$0	\$0	\$0
Crack Sealing	\$0	\$0	\$0
Landscaping	\$0	\$0	\$0
Mowing and Spraying	\$0	\$0	\$0
Pavement Marking	\$0	\$0	\$0
Process/Recycle/Transport Soils	\$0	\$0	\$0
Sewer and Water	\$0	\$0	\$0
09 - Facilities			
Chemical Storage Sheds	\$0	\$0	\$0
Vertical Construction	\$0	\$0	\$0
10 - Bikeways (Excluded)	n/a	n/a	n/a
11 - Other			
Demolition	\$0	\$0	\$0
Drilling & Boring	\$0	\$0	\$0
Highway Sweeping	\$0	\$0	\$0
Intelligent Transportation System	\$2,572,763	\$441,452	\$0
Marine Construction	\$0	\$0	\$0
Miscellaneous / No prequal	\$0	\$0	\$0
Reclamation	\$0	\$0	\$0
Underground Tank Removal Replace	\$0	\$0	\$0
Unknown	\$0	\$0	\$0
Section I Total:	\$30,096,446	\$32,451,950	\$27,237,992

Section II - Federal Aid Highway Operations

ITS Operations - I-93 HOV Lane Operation and Towing	n/a	n/a	n/a
ITS Operations - Traffic Operations Center (South Boston)	n/a	n/a	n/a
Section II Total	\$0	\$0	\$0
Grand Total Federal Aid:	\$30,096,446	\$32,451,950	\$27,237,992

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 16: 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
Columbia Greenway Rail Trail Committee	Westfield

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

Table 17: Agencies Providing Consultation)

MassDOT - Office of Transportation Planning	Boston
FEDERAL HIGHWAY ADMIN	Cambridge
MassDOT Highway Division District 1& 2	Northampton/Lenox
Colubmia Greenway Rail Trail Committee	Westfield

APPENDIX D: MAP-21 Performance Management Information

Performance Management

Program purpose

A key feature of MAP-21 is the establishment of a performance- and outcome-based program. The objective of this performance- and outcome-based program is for States to invest resources in projects that collectively will make progress toward the achievement of the national goals.

Statutory citation(s): MAP-21 §§1106, 1112-1113, 1201-1203; 23 USC 119, 134-135, 148-150

National policy in support of performance management

“Performance management will transform the Federal-aid highway program and provide a means to the most efficient investment of Federal transportation funds by refocusing on national transportation goals, increasing the accountability and transparency of the Federal-aid highway program, and improving project decision-making through ”[§1203; 23 USC 150(a)]

National performance goals

Establishes national performance goals for the Federal-aid highway program in seven areas:

[§1203; 23 USC 150(b)]

Goal area	National goal
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 National Highway System
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
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Performance measures

Requires the Secretary, in consultation with States, metropolitan planning organizations (MPOs), and other stakeholders, to establish performance measures in the areas listed below. Provides for DOT to establish such measures within 18 months of enactment, and prohibits DOT from establishing additional performance measures. [§1203; 23 USC 150(c)]

- Pavement condition on the Interstate System and on remainder of the National Highway System (NHS)
- Performance of the Interstate System and the remainder of the NHS
- Bridge condition on the NHS
- Fatalities and serious injuries—both number and rate per vehicle mile traveled--on all public roads
- Traffic congestion
- On-road mobile source emissions
- Freight movement on the Interstate System

Performance targets

- *Setting of State targets.* Within one year of the DOT final rule on performance measures, requires States to set performance targets in support of those measures. States may set different performance targets for urbanized and rural areas. [§1203; 23 USC 150(d)]

To ensure consistency each State must, to the maximum extent practicable –

- coordinate with an MPO when setting performance targets for the area represented by that MPO; and
- coordinate with public transportation providers when setting performance targets in an urbanized area not represented by an MPO. [§1202; 23 USC 135(d)(2)(B)]
- *Setting of MPO targets.* Within 180 days of States or providers of public transportation setting performance targets, requires MPOs to set performance targets in relation to the performance measures (where applicable). To ensure consistency, each MPO must, to the maximum extent practicable, coordinate with the relevant State and public transportation providers when setting performance targets. [§1201; 23 USC 134(h)(2)].
- *Plans requiring targets.* Requires the following plans to include State targets (and/or MPO targets, as appropriate):
 - Metropolitan transportation plans. [§1201; 23 USC 134(i)(2)(B)]
 - Metropolitan Transportation Improvement Program (TIP). [§1201; 23 USC 134(j)(2)(D)]

- Statewide Transportation Improvement Program (STIP). [§1202; 23 USC 135(g)(4)]
- State asset management plans under the National Highway Performance Program (NHPP). [§1106; 23 USC 119(e)]
- State performance plans under the Congestion Mitigation and Air Quality Improvement program. [§1113(b)(6); 23 USC 149(l)]

Additionally, State and MPO targets *should* be included in Statewide transportation plans. [§1202; 23 USC 135(f)(7)]

- *Reporting on progress.* Requires States to report on the condition and performance of the NHS; the effectiveness of the investment strategy document in the State asset management plan for the NHS; progress toward achieving performance targets; and the ways in which the State is addressing congestion at freight bottlenecks. [§1203; 23 USC 150(e)]

Thresholds for bridge and pavement condition

- *Establishment of thresholds.* Requires DOT to establish, as part of its rulemaking on performance measures, minimum thresholds for Interstate pavement condition. [§1203; 23 USC 150(c)(3)]

Requires each State to maintain minimum thresholds for Interstate pavement condition (the level set by DOT in its rulemaking) and NHS bridges (no more than 10% of total NHS bridge deck area may be on structurally deficient bridges). [§1106; 23 USC 119(f)]

- *Failure to meet thresholds.* Requires a State that fails to meet or maintain these thresholds over a statutorily-designated time period to reserve a specified portion of its NHPP funding for Interstate pavement and NHS bridge projects. In some cases also requires the State to transfer a specified portion of its Surface Transportation Program (STP) funding to NHPP. (See NHPP fact sheet for detail) [§1106; 23 USC 119(f)]

Trends in safety performance

Imposes additional requirements on a State in relation to specified measures of highway safety: [§1112; 23 USC 148(g)]

- *Rural road safety.* If the fatality rate on rural roads in a State increases over the most recent two year period, the State must dedicate a specified amount of funds under the Highway Safety Improvement Program for high risk rural road safety projects.
- *Older driver and pedestrian safety.* If the traffic fatalities and serious injuries per capita for drivers and pedestrians over the age of 65 in a State increase over the most recent two year period, the State must detail in its next Strategic Highway Safety Plan how it intends to address increases in those rates.

Other accountability measures

- *Target achievement under NHPP.* Requires a State that fails to achieve (or to make significant progress toward achieving) its performance targets for the NHS for two consecutive reports to describe in its next performance report to DOT (under amended 23 USC 150(e)) the actions it will take to achieve its targets. [§1106; 23 USC 119(e)(7)]
- *Target achievement under HSIP.* Requires a State that fails to achieve (or to make significant progress toward achieving) its HSIP performance targets within two years of the targets' establishment to –
 - dedicate a specified portion of its obligation authority to HSIP projects until the Secretary determines that the State has made significant progress toward or met the targets; and
 - annually submit to the Secretary an implementation plan that includes certain specified components related to highway safety until the Secretary determines that the State has made significant progress toward or met the targets. [§1112; 23 USC 148(i)]
- *Certification of planning process for Transportation Management Areas (TMAs).* Continues to require the Secretary to certify at least once every four years whether the metropolitan planning process of an MPO serving a TMA meets the requirements, including the requirements of 23 USC 134 and other applicable Federal law. One of these requirements is to include a performance-based approach in the metropolitan transportation planning process (see 23 USC 134(h)(2)). Absent this certification, DOT may withhold up to 20% of the funds attributable to the metropolitan planning area. [§1201; 23 USC 134(k)(5)]