

# TRANSPORTATION IMPROVEMENT PROGRAM (TIP)

2016 - 2019

FOR THE  
METROPOLITAN PLANNING ORGANIZATION  
PIONEER VALLEY REGION,  
MASSACHUSETTS

**Endorsed: June 23, 2015**



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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.

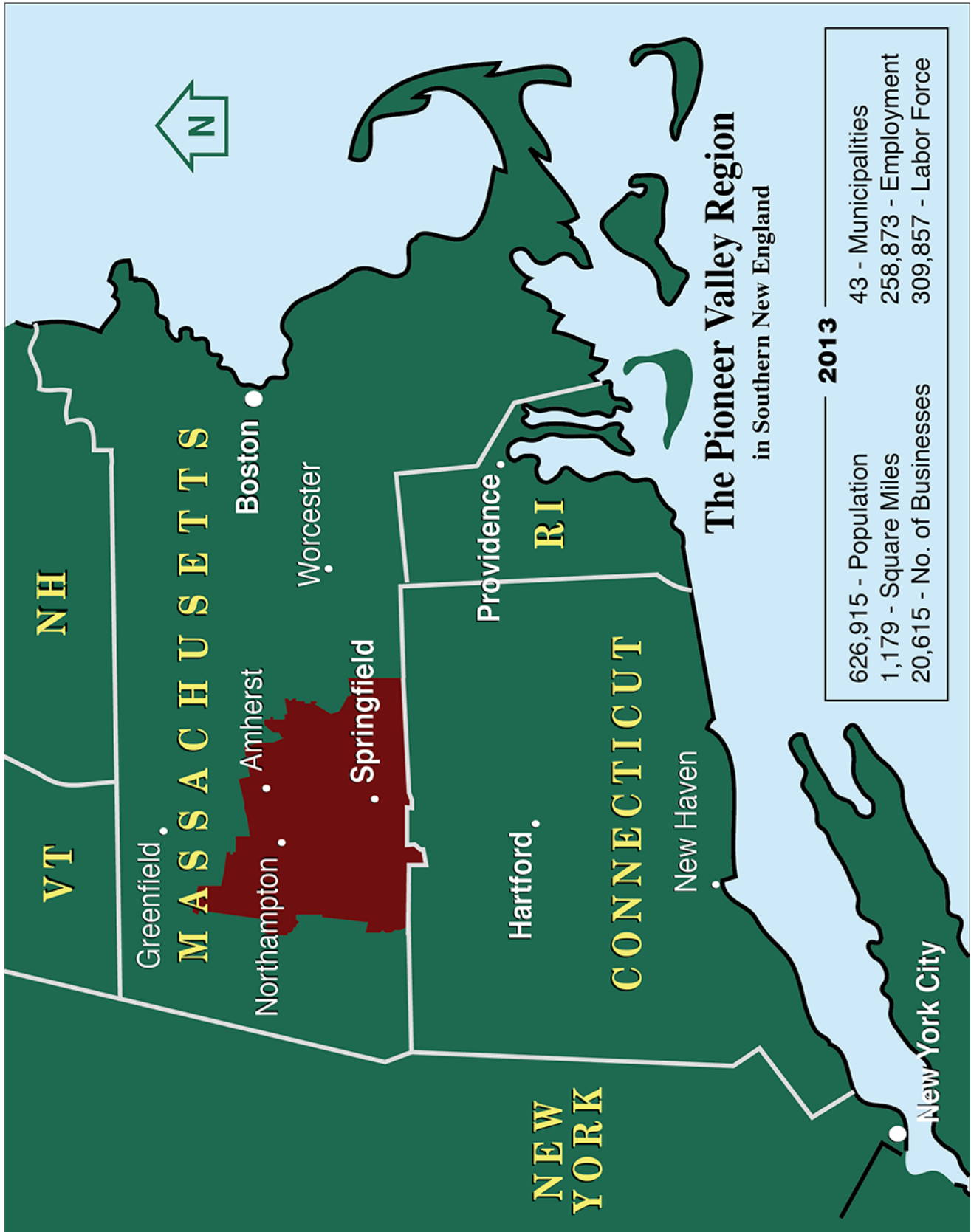
## **TIP Format and MPO Endorsement**

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 AUTHORIZATION

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.<sup>1</sup> (See Appendix E for additional information)

MAP-21 Performance Measures:

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<sup>1</sup> <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:

| <b>Name</b>           | <b>Title</b>   |
|-----------------------|--|
| 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 Archible       | 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 |
| 8   | 3   | 4   | 2   | 7  | 1   | 1   | 1  |
| Improves Intersection Operations                  | Provides multi-modal access to a downtown, village center, or employment center | Improves existing peak hour LOS                                       | Prioritizes transportation investments that support land use and economic development goals | Promotes safe and accessible pedestrian and bike environment | Promotes green infrastructure and low impact development to reduce stormwater impacts | Improves access to parks, open lands and open space | Improves transit for EJ populations                            |
| 6   | 2   | 6   | 1   | 5  | 2   | 1   | 2  |
| 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   | 2   | -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   |   | Improves intermodal Connections   |  | Supports Brownfield redevelopment   | Preserves prime agricultural land                   |  |
|   | 3   |   | 4   |  | 0.5   | 0.5   |  |
|   |   |   | Reduces congestion on freight routes  |  | Improves air quality  | Provides safe and reliable access to education      |  |
|   |   |   | 2   |  | 1   | 0.5   |  |
|   |   |   |   |  | Reduces CO2 emissions   | Supports designated scenic byways                   |  |
|   |   |   |   |  | 1   | 0.5   |  |
|   |   |   |   |  | Promotes mode shift   | Implements ITS Strategies                           |  |
|   |   |   |   |  | 1   | 2   |  |
|   |   |   |   |  | Improves fish and wildlife passage  | Improves Network Wayfinding                         |  |
|   |   |   |   |  | 1   | 1   |  |
|   |   |   |   |  | Supports Green Communities  | Health Impact Assessment                            |  |
|   |   |   |   |  | 0.5   | 1   |  |
|   |   |   |   |  | Improves storm resilience   |   |  |
|   |   |   |   |  | 3   |   |  |
| <b>Maximum Score</b>                              |   |   |   |  |   |   |  |
| 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**

| <b>Policy/Planning - Design a Multi-Modal Transportation System, Triple Mode Share of Bicycling, Transit, and Walking, &amp; Promote Healthy Transportation and Livable Communities</b> |  |
|---|--|
| <b>Associated Strategy</b>  | <b>RTP/TEC Integration</b>   |
| 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.  |
| <b>Air - Reduce Greenhouse Gas Emissions &amp; Improve Air Quality</b>  |  |
| <b>Associated Strategy</b>  | <b>RTP/TEC Integration</b>   |
| 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.)**

| <b>Energy - Consume Less Energy &amp; Increase Reliance on Renewable Energy</b>                               |   |
|---|---|
| <b>Associated Strategy</b>  | <b>RTP/TEC Integration</b>  |
| 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.  |
| <b>Land - Minimize Energy and Chemicals Used in Maintenance &amp; Enhance Ecological Performance</b>          |   |
| <b>Associated Strategy</b>  | <b>RTP/TEC Integration</b>  |
| 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.   |
| <b>Materials - Improve Lifecycle Impacts of Investments &amp; Purchase Environmentally Preferred Products</b> |   |
| <b>Associated Strategy</b>  | <b>RTP/TEC Integration</b>  |
| 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.   |
| <b>Waste - Achieve Zero Solid Waste Disposal</b>  |   |
| <b>Associated Strategy</b>  | <b>RTP/TEC Integration</b>  |
| Identifying projects with zero construction waste diversion goals   | Not specifically addressed.   |
| Implementing regional litter prevention programs with their respective municipalities                         | Not specifically addressed.   |
| <b>Water - Use Less Water &amp; Improve Ecological Function of Water Systems</b>                              |   |
| <b>Associated Strategy</b>  | <b>RTP/TEC Integration</b>  |
| 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 Areas<sup>1</sup> (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        |
| <b>Total of Regional Discretionary and Major Infrastructure</b> | <b>\$94,496,000</b> | <b>\$143,299,000</b> | <b>\$205,196,000</b> | <b>\$256,226,000</b> | <b>\$297,036,000</b> | <b>\$996,253,000</b> |

\*\*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 Formu                      | \$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           |
| <b>Available for Programming in Pioneer Valley RTP</b> | <b>\$232,257,563</b> | <b>\$250,063,907</b> | <b>\$275,290,194</b> | <b>\$321,011,284</b> | <b>\$338,263,139</b> | <b>\$1,416,886,088</b> |

|  | 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        |
| <b>TOTAL Transit Capital Funds Available for Programming in Pioneer Valley RTP</b> | <b>\$60,062,975</b> | <b>\$77,049,602</b> | <b>\$85,504,339</b> | <b>\$94,054,773</b> | <b>\$103,460,250</b> | <b>\$420,131,940</b> |

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 -<br>Director<br>Wilbraham<br>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,<br>2015  | Project was included in most recent MassDOT bridge list for FFY2016 funding. Responded to Wilbraham informing them of the project status |
| MassDOT –<br>OTP  | 607735                              | Add SOUTH HADLEY- SIGNAL & INTERSECTION IMPROVEMENTS AT ROUTE 202 (GRANBY ROAD) & ROUTE 33 (LYMAN STREET) to FFY 2016 (statewide HSIP)  | May 29,<br>2015  | Project Added to Section 1D  |
| Joseph D.<br>Giffune<br>President<br><br>Mechanical<br>Drive<br>Components,<br>Inc.<br>317 Meadow St.<br>Unit 6A<br>Chicopee, MA<br>01013 | Columbia<br>Greenways<br>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,<br>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 <i>entire</i> 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.<br>Diana<br>112 Park Drive<br>Westfield, MA | Columbia<br>Greenways<br>Rail Trail /<br>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,<br>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<br>Chair - Friends<br>of the<br>Southampton<br>Greenway | Columbia<br>Greenways<br>Rail Trail /<br>Western<br>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"> <li>* <i>Columbia Greenway North</i></li> <li>* <i>Columbia Greenway Central Section</i>, and</li> <li>* <i>Western Avenue</i> (Phases I &amp; II)</li> </ul> <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,<br>2015 | Comment Noted |
| Chris Steger<br>Westfield, MA                                     | Columbia<br>Greenways<br>Rail Trail /<br>Western<br>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 &amp; 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,<br>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 &amp; 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<br>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 &amp; 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. 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. 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<br>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,<br>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:<br>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<br>Re: 180525 (608236) - project is not funded with HSIP funds<br>Re: 180525 (608236) - updated Project Description should be:<br>NORTHAMPTON- RECCTION OF DAMON ROAD, FROM ROUTE 9 TO ROUTE 5, IONSTRUNCLUDES 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)<br>\$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<br>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<br>Non-Federal Funds should be \$550,808<br>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"> <li>• 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.</li> <li>• 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.</li> <li>• 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.</li> <li>• 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.</li> <li>• Preface- page 1: In the last paragraph please strike the reference to the MassHighway Department.</li> <li>• General Support Information section Page 4: in the first</li> </ul> | 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"> <li>• 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</li> </ul>   |               |               |
| 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"> <li>• Highway Projects</li> <li>• 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.</li> <li>• Please ensure that the template is properly formatted so all project descriptions and additional comments are visible.</li> <li>• 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.</li> <li>• 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.</li> </ul> | June 22, 2015 | Comment Noted |
| MassDOT-OTP | 604968       | <p>2016- Section 1 C</p> <ul style="list-style-type: none"> <li>• 604968- this project does not have its project ID listed. Please add the project ID number to the template.</li> </ul>  | June 22, 2015 | Updated       |
| MassDOT-OTP | 607736       | <p>2017- Section 1 D- Statewide HSIP Program</p> <ul style="list-style-type: none"> <li>• 607736- please update the project cost to \$4,100,000</li> </ul>  | 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"> <li>• 607474- please move to 2018 per the statewide project lists distributed by MassDOT</li> </ul>  | 2015          |                        |
| MassDOT-OTP                           | FFY 2018 CMAQ | <ul style="list-style-type: none"> <li>o 2018- Section 1A<br/>With the available regional CMAQ funding please consider creating a regional bicycle parking program.</li> </ul>  | June 22, 2015 | Comment Noted          |
| MassDOT-OTP                           | 607560        | <p>2018- Section 1 D- Statewide Infrastructure</p> <ul style="list-style-type: none"> <li>• 607560 and 608207- please move these projects to Section 1 D Statewide Interstate Maintenance Program</li> </ul>  | June 22, 2015 | Updated                |
| MassDOT-OTP                           | 607474        | <ul style="list-style-type: none"> <li>o Section 1 D- Statewide NHS Preservation Program</li> <li>• 607474- please update the project cost to \$1 ,988,064</li> </ul>   | June 22, 2015 | Updated                |
| MassDOT-OTP                           | 602811        | <p>2019- Section 1 D</p> <ul style="list-style-type: none"> <li>• 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 <b>TIP</b>.</li> </ul>  | June 22, 2015 | Updated                |
| MassDOT-OTP                           | TIP Document  | <p>Appendices</p> <ul style="list-style-type: none"> <li>• Please update the tables on pages 104 and 1 05 with the tables provided by MassDOT on June 9, 2015.</li> </ul>   | June 22, 2015 | Updated                |
| MassDOT-OTP                           | TIP Document  | <ul style="list-style-type: none"> <li>• 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.</li> </ul>  | June 22, 2015 | Comment Noted          |
| Federal Highway Administration (FHWA) | TIP Document  | <p><b>MAP-21 Performance Measures</b> – 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><b>Amendments/Adjustments</b> – 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><b>Operation and Maintenance Cost</b> – 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 reasonability 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 | <b>Public Participation Summary</b> – 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 | <b>Federal Aid Financial Constraint</b> – 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 |

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

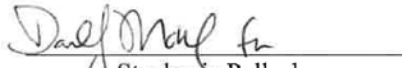
## PIONEER VALLEY MPO ENDORSEMENT SHEET

The signatures below signify that all members of the Pioneer Valley Region's Metropolitan Planning Organization, or their designees, have met on June 23, 2015 and discussed the following item for endorsement: The Pioneer Valley Region's Federal Fiscal Year 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.

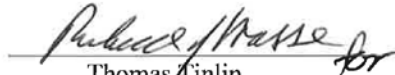
  
Stephanie Pollack  
Secretary & CEO Mass DOT

6/23/15  
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.

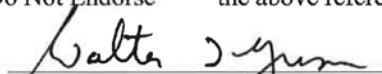
  
Thomas Anlin  
Acting Highway Administrator, Mass DOT

6/23/15  
Date

### Pioneer Valley Planning Commission (PVPC)

I, Chair of the Pioneer Valley Planning Commission, hereby

Endorse       Do Not Endorse      the above referenced item.

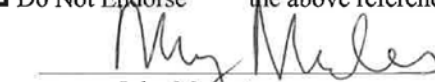
  
Walter Gunn  
Chair - PVPC

6/23/15  
Date

### Pioneer Valley Transit Authority (PVTA)

I, Administrator of the Pioneer Valley Transit Authority, hereby

Endorse       Do Not Endorse      the above referenced item.

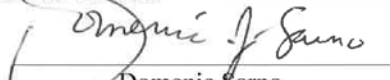
  
For John Musante  
Chair - PVTA

June 23 2015  
Date

### City of Springfield

I, Mayor of the City of Springfield, hereby

Endorse       Do Not Endorse      the above referenced item.

  
Domenic Sarno  
Mayor-Springfield

6/23/15  
Date




FFY 2016-2019 Transportation Improvement Program

**Town of Agawam**

I, Mayor of the Town of Agawam, hereby

Endorse  Do Not Endorse the above referenced item.

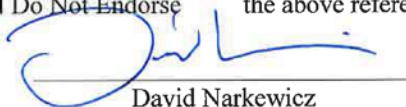
  
Richard Cohen  
Mayor-Agawam

23 JUNE 2015  
Date

**City of Northampton**

I, Mayor of the City of Northampton, hereby

Endorse  Do Not Endorse the above referenced item.

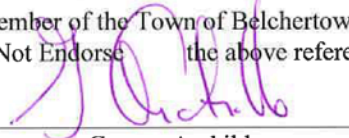
  
David Narkewicz  
Mayor-Northampton

6/23/15  
Date

**Town of Belchertown**

I, Board of Selectmen member of the Town of Belchertown, hereby

Endorse  Do Not Endorse the above referenced item.

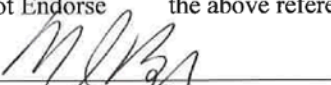
  
George Archible  
Selectman-Belchertown

6/23/15  
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

23 JUN 15  
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.

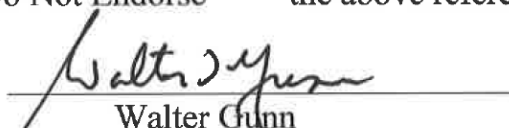
  
Frank DePaola  
Highway Administrator, Mass DOT

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.

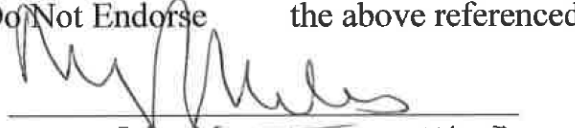
  
Walter Gunn  
Chair - PVPC

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.

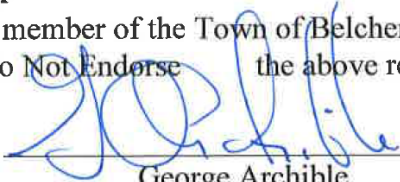
\_\_\_\_\_  
Richard Cohen  
Mayor-Agawam

\_\_\_\_\_  
Date

**Town of Belchertown**

I, Board of Selectmen member of the Town of Belchertown, hereby

Endorse       Do Not Endorse      the above referenced item.

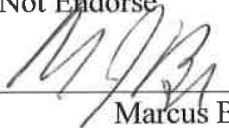
  
\_\_\_\_\_  
George Archible  
Selectman-Belchertown

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**

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

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**

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

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 PVRTA website.

[www.pvta.com](http://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

| Appendix<br>ID/Adjustment<br>Type                                       | MassDOT Project ID | MPO            | Municipality Name | MassDOT<br>Project Description   | MassDOT<br>District | Funding Source            | Total Programmed<br>Funds | Federal Funds | Non-Federal Funds | Additional<br>Information   |
|---|--------------------|----------------|-------------------|--|---------------------|---------------------------|---------------------------|---------------|-------------------|---|
| <b>Section 1A / Federal Aid Target Projects</b>                         |                    |                |                   |  |                     |                           |                           |               |                   |   |
| <b>HSIP - Highway Safety Improvement Program</b>                        |                    |                |                   |  |                     |                           |                           |               |                   |   |
| 605385  | Pioneer Valley     | Pioneer Valley | Springfield       | SPRINGFIELD- SIGNAL & INTERSECTION IMPROVEMENTS @ ROOSEVELT AVENUE & ISLAND POND ROAD, ROOSEVELT AVENUE & ALDEN STREET   | 2                   | HSIP                      | \$ 1,080,982              | \$ 972,893    | \$ 108,089        | 62.5 TEC Score 25% (YOE \$2,297,372) CMAQ, HSIP   |
|   |                    |                |                   | HSIP Subtotal  |                     | HSIP                      | \$ 1,080,982              | \$ 972,893    | \$ 108,089        | ◀ 90% Federal + 10% Non-Federal   |
| <b>CMAQ - Congestion Mitigation and Air Quality Improvement Program</b> |                    |                |                   |  |                     |                           |                           |               |                   |   |
| 604968  | Pioneer Valley     | Pioneer Valley | Springfield       | SPRINGFIELD- SIGNAL & INTERSECTION IMPROVEMENTS @ ROOSEVELT AVENUE & ISLAND POND ROAD, ROOSEVELT AVENUE & ALDEN STREET   | 2                   | CMAQ                      | \$ 1,216,380              | \$ 973,104    | \$ 243,276        | 62.5 TEC Score 25% (YOE \$2,297,372) CMAQ, HSIP   |
| 604968  | Pioneer Valley     | 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) | 2                   | CMAQ                      | \$ 300,000                | \$ 240,000    | \$ 60,000         | 38.63 TEC 75% HPP funds remaining (HPP -1656) \$1,857,506 (Federal) (Total Cost \$2,696,964). Total funding available \$2,321,883. city will scale back project to the funding available. HPP, CMAQ |
|   |                    |                |                   | SPRINGFIELD - UNION STATION REDEVELOPMENT  | 2                   | CMAQ                      | \$ 750,873                | \$ 600,698    | \$ 150,175        | \$1.7M CMAQ commitment over 3 years toward Phase I of project \$65.7 total  |
|   |                    |                |                   | CMAQ Subtotal  |                     | CMAQ                      | \$ 2,267,253              | \$ 1,813,802  | \$ 453,451        | ◀ 80% Federal + 20% Non-Federal   |
| <b>TAP - Transportation Alternatives Program</b>                        |                    |                |                   |  |                     |                           |                           |               |                   |   |
| 604446  | Pioneer Valley     | Pioneer Valley | Westfield         | WESTFIELD- RECONSTRUCTION OF ROUTE 187 (LITTLE RIVER ROAD) AND SHAKER ROAD   | 2                   | TAP                       | \$ 947,878                | \$ 758,302    | \$ 189,576        | 46.5 TEC 100% \$6,206,561 STP, TAP The City of Westfield is the project proponent   |
|   |                    |                |                   | TAP Subtotal   |                     | TAP                       | \$ 947,878                | \$ 758,302    | \$ 189,576        | ◀ 80% Federal + 20% Non-Federal   |
| <b>Non-CMAQ/HSIP/TAP (Other)</b>  |                    |                |                   |  |                     |                           |                           |               |                   |   |
| 606445  | Pioneer Valley     | Pioneer Valley | Longmeadow        | LONGMEADOW- RESURFACING & RELATED WORK ON CONVERSE STREET, FROM LAUREL STREET TO DWIGHT STREET (2.04 MILES)  | 2                   | STP                       | \$ 2,742,048              | \$ 2,193,638  | \$ 548,410        | 36.4 TEC Score 25%/75% ( \$2,742,048) STP   |
| 604446  | Pioneer Valley     | Pioneer Valley | Westfield         | WESTFIELD- RECONSTRUCTION OF ROUTE 187 (LITTLE RIVER ROAD) AND SHAKER ROAD   | 2                   | STP                       | \$ 5,258,663              | \$ 4,206,946  | \$ 1,051,737      | 46.5 TEC 100% \$6,206,561 STP, TAP  |
| 607869  | Pioneer Valley     | Pioneer Valley | Wilbraham         | WILBRAHAM- RECONSTRUCTION OF BOSTON ROAD (ROUTE 20) FROM DUDLEY STREET TO 400FT. EAST OF DUMANE STREET (0.28MILES)   | 2                   | STP                       | \$ 1,292,428              | \$ 1,033,942  | \$ 258,486        | 40 TEC Score 100% \$1,292,428 STP   |
| 608022  | Pioneer Valley     | Pioneer Valley | Multiple          | BRIMFIELD, STURBRIDGE- RESURFACING & RELATED WORK ON ROUTE 20, BEGINNING EAST OF NEW HOLLAND ROAD (MM 87.8), ENDING WEST OF GALILEO DRIVE (MM 91.9)                                      | 2                   | STP                       | \$ 3,500,000              | \$ 2,800,000  | \$ 700,000        | 22.5 TEC Score 75% \$3,500,000 STP  |
|   |                    |                |                   | Non-CMAQ/HSIP/TAP (Other) Subtotal   |                     | Non-CMAQ/HSIP/TAP (Other) | \$ 12,793,159             | \$ 10,234,527 | \$ 2,558,632      | ◀ 80% Federal + 20% Non-Federal   |
| <b>Section 1A / Fiscal Constraint Analysis</b>                          |                    |                |                   |  |                     |                           |                           |               |                   |   |
|   |                    |                |                   | <b>Total Federal Aid Target Funds Programmed</b>   |                     |                           | \$ 17,089,282             | \$ 18,871,416 | \$ 1,782,134      | <b>Target Funds Available</b>   |
|   |                    |                |                   | Total Non-CMAQ/HSIP/TAP (Other) Programmed   |                     |                           | \$ 12,793,159             | \$ 13,464,446 | \$ 671,287        | Non-CMAQ/HSIP/TAP (Other) Av  |
|   |                    |                |                   | Total HSIP Programmed  |                     |                           | \$ 1,080,982              | \$ 1,080,982  | \$ -              | HSIP Minimum Met  |
|   |                    |                |                   | Total CMAQ Programmed  |                     |                           | \$ 2,267,253              | \$ 3,378,100  | \$ 1,110,847      | CMAQ Minimum Not Met  |
|   |                    |                |                   | Total TAP Programmed   |                     |                           | \$ 947,878                | \$ 947,878    | \$ -              | TAP Minimum Met   |

**Table 5: Federally Funded Projects Year 2016 (Continued)**

| Section 1B / Federal Aid Bridge Projects                 |                |              |  |                  |            |            |            |            |            |   |
|--|----------------|--------------|--|------------------|------------|------------|------------|------------|------------|---|
| Project ID   | Program        | Location     | Description  | Program Subtotal | FY 2016    | FY 2017    | FY 2018    | FY 2019    | FY 2020    | Funding Source  |
| Statewide Bridge Maintenance Program                     |                |              |  |                  |            |            |            |            |            |   |
| No Projects Programmed                                   |                |              |  | \$ -             | \$ -       | \$ -       | \$ -       | \$ -       | \$ -       | 80% Federal + 20% Non-Federal   |
| No Projects Programmed                                   |                |              |  | \$ -             | \$ -       | \$ -       | \$ -       | \$ -       | \$ -       | 80% Federal + 20% Non-Federal   |
| Statewide Bridge Maintenance Program Subtotal            |                |              |  |                  |            |            |            |            |            |   |
| On System  |                |              |  | \$ -             | \$ -       | \$ -       | \$ -       | \$ -       | \$ -       | 80% Federal + 20% Non-Federal   |
| 605282   | Pioneer Valley | Multiple     | LUDLOW - WILBRAHAM - BRIDGE REHABILITATION, L-16-002-W-35-002, EAST STREET OVER THE CHICOPEE RIVER   | 2                | 1,000,000  | 800,000    | 200,000    | 200,000    | 200,000    | 75%   |
| On System Subtotal                                       |                |              |  | \$ -             | \$ -       | \$ -       | \$ -       | \$ -       | \$ -       | 80% Federal + 20% Non-Federal   |
| Off-System   |                |              |  |                  |            |            |            |            |            |   |
| 607524   | Pioneer Valley | Multiple     | BELCHERTOWN - WARREN BRIDGE DEMOLITION, B-05-023, W-07-012, (EAST MAIN STREET/NAULTAUG BROOK)  | 2                | 1,982,190  | 1,982,190  | 485,548    | 485,548    | 485,548    | 25%   |
| Off-System Subtotal                                      |                |              |  | \$ -             | \$ -       | \$ -       | \$ -       | \$ -       | \$ -       | 80% Federal + 20% Non-Federal   |
| Statewide Bridge Inspection Program                      |                |              |  |                  |            |            |            |            |            |   |
| No Projects Programmed                                   |                |              |  | \$ -             | \$ -       | \$ -       | \$ -       | \$ -       | \$ -       | 80% Federal + 20% Non-Federal   |
| No Projects Programmed                                   |                |              |  | \$ -             | \$ -       | \$ -       | \$ -       | \$ -       | \$ -       | 80% Federal + 20% Non-Federal   |
| Statewide Bridge Inspection Program Subtotal             |                |              |  | \$ -             | \$ -       | \$ -       | \$ -       | \$ -       | \$ -       | 80% Federal + 20% Non-Federal   |
| Section 1C / Federal Aid Non-Target Projects             |                |              |  |                  |            |            |            |            |            |   |
| Other Federal Aid  |                |              |  |                  |            |            |            |            |            |   |
| 604968   | Pioneer Valley | Westfield    | WESTFIELD - COLUMBIA GREENWAY RAIL TRAIL CONSTRUCTION, NORTH SECTION - FROM COWLES COURT ACCESS RAMP TO THE WESTFIELD RIVER BRIDGE INCLUDES REHAB OF W-25-036 (WESTFIELD RIVER CROSSING) | 2                | 2,321,883  | 1,857,506  | 464,377    | 464,377    | 464,377    | 38.83 TEC 75% HPP funds remaining (HPP - 1656) \$1,857,506 (Federal) (Total Cost \$2,696,964) Total funding available \$2,321,883, city will scale back project to the funding available. HPP, CMAQ |
| Other Federal Aid Subtotal                               |                |              |  | \$ -             | \$ -       | \$ -       | \$ -       | \$ -       | \$ -       | Funding Split Varies by Funding Source  |
| Section 1D / Federal Aid Major & State Category Projects |                |              |  |                  |            |            |            |            |            |   |
| Statewide Infrastructure Program                         |                |              |  |                  |            |            |            |            |            |   |
| 607731   | Pioneer Valley | Springfield  | SPRINGFIELD - VIADUCT DECK REPLACEMENT OF S-24-061 ON I-91 (EARLY ACTION)  | 2                | 84,493,750 | 67,595,000 | 16,898,750 | 16,898,750 | 16,898,750 | 100% Design, Funds will be disbursed from FFY 2014 through FFY 2017, Decrease from  |
| Statewide Infrastructure Program Subtotal                |                |              |  | \$ -             | \$ -       | \$ -       | \$ -       | \$ -       | \$ -       | 80% Federal + 20% Non-Federal   |
| Statewide HSIP Program                                   |                |              |  |                  |            |            |            |            |            |   |
| 607735   | Pioneer Valley | South Hadley | SOUTH HADLEY - SIGNAL & INTERSECTION IMPROVEMENTS AT ROUTE 202 (GRANBY ROAD) & ROUTE 33 (LYMAN STREET)   | 2                | 550,000    | 495,000    | 55,000     | 55,000     | 55,000     | 90% Federal + 10% Non-Federal   |
| Statewide HSIP Program Subtotal                          |                |              |  | \$ -             | \$ -       | \$ -       | \$ -       | \$ -       | \$ -       | 90% Federal + 10% Non-Federal   |
| Statewide Safe Routes to Schools Program                 |                |              |  |                  |            |            |            |            |            |   |
| 607453   | Pioneer Valley | Southampton  | SOUTHAMPTON - SOUTHAMPTON SAFE ROUTES TO SCHOOL - NORRIS ELEMENTARY SCHOOL (75%)   | 2                | 832,000    | 685,600    | 166,400    | 166,400    | 166,400    | 80% Federal + 20% Non-Federal   |
| Statewide Safe Routes to Schools Program Subtotal        |                |              |  | \$ -             | \$ -       | \$ -       | \$ -       | \$ -       | \$ -       | Funding Split Varies by Funding Source  |
| Statewide CMAQ   |                |              |  |                  |            |            |            |            |            |   |
| 603477   | Pioneer Valley | Southwick    | SOUTHWICK - INTERSECTION IMPROVEMENTS AT FOUR LOCATIONS ON ROUTE 57 (FEEDING HILLS ROAD)   | 2                | 3,551,223  | 2,840,978  | 710,245    | 710,245    | 710,245    | 47 TEC Score 25% (\$3,551,223)  |
| Statewide CMAQ   |                |              |  | \$ -             | \$ -       | \$ -       | \$ -       | \$ -       | \$ -       | 80% Federal + 20% Non-Federal   |

Table 5: Federally Funded Projects Year 2016 (Continued)

|  |   | No Projects Programmed   | No Projects Programmed | \$                    | -              | -           | -              | -                                      | - | ◀ 80% Federal + 20% Non-Federal          |
|--|---|--|------------------------|-----------------------|----------------|-------------|----------------|--|---|--|
| ▶ Statewide Transportation Enhancements              |   | No Projects Programmed   | No Projects Programmed | \$                    | -              | -           | -              | -                                      | - | ◀ 80% Federal + 20% Non-Federal          |
|  | Statewide Transportation Enhancements Subtotal ▶    |  |                        | \$                    | -              | -           | -              | -                                      | - | ◀ 80% Federal + 20% Non-Federal          |
| ▶ Statewide ITS                                      |   | No Projects Programmed   | No Projects Programmed | \$                    | -              | -           | -              | -                                      | - | ◀ 80% Federal + 20% Non-Federal          |
|  | Statewide ITS Subtotal ▶                            |  |                        | \$                    | -              | -           | -              | -                                      | - | ◀ 80% Federal + 20% Non-Federal          |
| ▶ Statewide Interstate Maintenance Program<br>606577 | Hatfield  | HATFIELD-WHAILEY-INTERSTATE MAINTENANCE & RELATED WORK ON I-91   | 2                      | \$                    | 10,620,000     | 9,558,000.0 | 1,062,000.0    |  |   | 75%                                      |
|  |   | No Projects Programmed   |                        | \$                    | -              | -           | -              | -                                      | - |  |
|  | Statewide Interstate Maintenance Program Subtotal ▶ |  |                        | \$                    | 10,620,000     | 9,558,000   | 1,062,000      |  |   | ◀ 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 Retrofits<br>608136           | South Hadley  | SOUTH-HADLEY - STORMWATER IMPROVEMENTS ALONG ROUTE 116   | 2                      | \$                    | 169,400        | 135,520.0   | 33,880.0       |  |   |  |
|  |   | No Projects Programmed   |                        | \$                    | -              | -           | -              | -                                      | - | ◀ 80% Federal + 20% Non-Federal          |
|  | Statewide Stormwater Retrofits Subtotal ▶           |  |                        | \$                    | 169,400        | 135,520     | 33,880         |  |   | ◀ 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 CANS Repayment Award Adjustments, Change Orders, Project Value Changes, Etc.<br>DBEs, FAPO, Pavement Lab Retrofits, and Misc. Programs<br>Planning<br>Statewide Design and Right of Way<br>Statewide Recreational Trails |                        | \$                    | -              | -           | -              | -                                      | - | ◀ Funding Split Varies by Funding Source |
|  | 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   |  |                        | \$                    | -              | -           | -              | -                                      | - |  |
|  | Non-Federal Aid Subtotal ▶                          |  |                        | \$                    | -              | -           | -              | -                                      | - | ◀ 100% Non-Federal                       |
| ▶ Section 2B / Non-Federal Bridge Projects           |   | No Projects Programmed   | No Projects Programmed | \$                    | -              | -           | -              | -                                      | - |  |
|  | NFA   |  |                        | \$                    | -              | -           | -              | -                                      | - |  |
|  | Section 2B / Non-Federal Bridge Projects Subtotal ▶ |  |                        | \$                    | -              | -           | -              | -                                      | - | ◀ 100% Non-Federal                       |
| <b>2016 Pioneer Valley TIP Summary</b>               |   |  |                        |                       |                |             |                |  |   |  |
|  |   | TIP Section 1: ▼   | TIP Section 2: ▼       | Total of All Projects |                |             |                |  |   |  |
|  |   | Total ▶  | Total ▶                | Total ▶               | \$ 123,105,276 | \$ -        | \$ 123,105,276 | ◀ Total Spending in Region             |   |  |
|  |   | Federal Funds ▶  | Federal Funds ▶        | Federal Funds ▶       | \$ 99,709,320  | \$ -        | \$ 99,709,320  | ◀ Total Federal Spending in Region     |   |  |
|  |   | Non-Federal Funds ▶  | Non-Federal Funds ▶    | Non-Federal Funds ▶   | \$ 23,395,956  | \$ -        | \$ 23,395,956  | ◀ Total Non-Federal Spending in Region |   |  |

**Table 6: Federally Funded Projects 2017**

| Amendment/<br>Adjustment<br>Type  | MassDOT Project ID | IPO            | Municipality Name | MassDOT<br>Project Description   | MassDOT<br>District | Funding Source                                   | Total Programmed<br>Funds | Federal Funds | Non-Federal Funds | Additional<br>Information  |
|---|--------------------|----------------|-------------------|--|---------------------|--|---------------------------|---------------|-------------------|--|
| <b>Section 1A / Federal Aid Target Projects</b>                               |                    |                |                   |  |                     |  |                           |               |                   |  |
| <b>Section 1A - Highway Safety Improvement Program</b>                        |                    |                |                   |  |                     |  |                           |               |                   |  |
|   | 604203             | Pioneer Valley | Agawam            | AGAWAM- INTERSECTION<br>IMPROVEMENTS AT ROUTE 187 & ROUTE<br>57  | 2                   | HSIP   | \$ 1,080,992              | \$ 972,893    | \$ 108,099        | 58.5 Pre 25% (YOE \$1,620,000) HSIP, CMAQ  |
|   |                    |                |                   |  |                     | HSIP Subtotal                                    | \$ 1,080,992              | \$ 972,893    | \$ 108,099        | 90% Federal + 10% Non-Federal  |
| <b>Section 1A - Congestion Mitigation and Air Quality Improvement Program</b> |                    |                |                   |  |                     |  |                           |               |                   |  |
|   | 608236             | Pioneer Valley | Northampton       | NORTHAMPTON- RECONSTRUCTION OF<br>DAMON ROAD, FROM ROUTE 9 TO ROUTE<br>5. INCLUDES DRAINAGE SYSTEM,<br>REPAIRS & SLOPE STABILIZATION AT THE<br>NORWOTTUCK RAIL TRAIL | 2                   | CMAQ   | \$ 1,766,592              | \$ 1,413,274  | \$ 353,318        | 61.5 TEC Score 25% ( YOE \$5,200,000) STP,<br>CMAQ   |
|   | 604203             | Pioneer Valley | Agawam            | AGAWAM- INTERSECTION<br>IMPROVEMENTS AT ROUTE 187 & ROUTE<br>57  | 2                   | CMAQ   | \$ 539,008                | \$ 431,206    | \$ 107,802        | 58.5 Pre 25% (YOE \$1,620,000) HSIP, CMAQ  |
|   | 606903             | Pioneer Valley | Holyoke           | HOLYOKE - IMPROVEMENTS TO LOWER<br>WESTFIELD ROAD ON I-91 (INTERCHANGE<br>15)  | 2                   | CMAQ   | \$ 1,072,500              | \$ 858,000    | \$ 214,500        | 37.5 Pre 25% (YOE \$1,072,500) CMAQ  |
|   |                    |                |                   |  |                     | CMAQ Subtotal                                    | \$ 3,378,100              | \$ 2,702,480  | \$ 675,620        | 80% Federal + 20% Non-Federal  |
| <b>Section 1A - Transportation Alternatives Program</b>                       |                    |                |                   |  |                     |  |                           |               |                   |  |
|   | 605011             | Pioneer Valley | Ludlow            | LUDLOW- RECONSTRUCTION OF CENTER<br>STREET (ROUTE 21) - FROM 35' WEST OF<br>BEACHSIDE DRIVE WESTERLY TO GAS<br>LINE BESIDE MTA OVERPASS (3,500<br>FEET)              | 2                   | TAP  | \$ 615,889                | \$ 492,711    | \$ 123,178        | 40 TEC Score 25% (YOE \$4,918,051) STP, TAP<br>The town of Ludlow is the project proponent |
|   |                    |                |                   |  |                     | TAP Subtotal                                     | \$ 615,889                | \$ 492,711    | \$ 123,178        | 80% Federal + 20% Non-Federal  |
| <b>Section 1A - Non-CMAQ/HSIP/TAP (Other)</b>                                 |                    |                |                   |  |                     |  |                           |               |                   |  |
|   | 605011             | Pioneer Valley | Ludlow            | LUDLOW- RECONSTRUCTION OF CENTER<br>STREET (ROUTE 21) - FROM 35' WEST OF<br>BEACHSIDE DRIVE WESTERLY TO GAS<br>LINE BESIDE MTA OVERPASS (3,500<br>FEET)              | 2                   | STP  | \$ 4,302,162              | \$ 3,441,730  | \$ 860,432        | 40 TEC Score 25% (YOE \$4,918,051) STP, TAP  |
|   | 604033             | Pioneer Valley | Southwick         | SOUTHWICK- RECONSTRUCTION<br>CONGAMOND ROAD (ROUTE 188) - FROM<br>COLLEGE HIGHWAY & ENDS 250 FEET<br>SHORT OF STATE LINE (1.2 MILES)                                 | 2                   | STP  | \$ 4,980,256              | \$ 3,984,205  | \$ 996,051        | 38 TEC Score 25% (YOE \$4,980,256) STP   |
|   | 608236             | Pioneer Valley | Holyoke           | NORTHAMPTON- RECONSTRUCTION OF<br>DAMON ROAD, FROM ROUTE 9 TO ROUTE<br>5. INCLUDES DRAINAGE SYSTEM,<br>REPAIRS & SLOPE STABILIZATION AT THE<br>NORWOTTUCK RAIL TRAIL | 2                   | STP  | \$ 3,433,408              | \$ 2,746,726  | \$ 686,682        | 61.5 TEC Score 25% (\$5,200,000) STP, CMAQ   |
|   |                    |                |                   |  |                     | Non-CMAQ/HSIP/TAP (Other) Subtotal               | \$ 12,715,826             | \$ 10,172,661 | \$ 2,543,165      | 80% Federal + 20% Non-Federal  |
| <b>Section 1A / Fiscal Constraint Analysis</b>                                |                    |                |                   |  |                     |  |                           |               |                   |  |
|   |                    |                |                   |  |                     | <b>Total Federal Aid Target Funds Programmed</b> | \$ 17,790,807             | \$ 22,330,590 | \$ 4,539,783      | <b>Target Funds Available</b>  |
|   |                    |                |                   |  |                     | Total Non-CMAQ/HSIP/TAP (Other) Programmed       | \$ 12,715,826             | \$ 17,255,609 | \$ 4,539,783      | Non-CMAQ/HSIP/TAP (Other) Ave  |
|   |                    |                |                   |  |                     | Total HSIP Programmed                            | \$ 1,080,992              | \$ 1,080,992  | \$ -              | HSIP Minimum Met   |
|   |                    |                |                   |  |                     | Total CMAQ Programmed                            | \$ 3,378,100              | \$ 3,378,100  | \$ -              | CMAQ Minimum Met   |
|   |                    |                |                   |  |                     | Total TAP Programmed                             | \$ 615,889                | \$ 615,889    | \$ -              | TAP Minimum Met  |

Table 6: Federally Funded Projects Year 2017 (Continued)

| ▶ Section 1B / Federal Aid Bridge Projects                 |                          |                          |  |    |            |    |            |    |                                 |    |           |
|--|--------------------------|--------------------------|--|----|------------|----|------------|----|---------------------------------|----|-----------|
| ▶ Statewide Bridge Maintenance Program                     |                          |                          |  |    |            |    |            |    |                                 |    |           |
|  | No Projects Programmed   | No Projects Programmed   |  |    |            |    |            |    |                                 |    |           |
|  | (No Projects Programmed) | (No Projects Programmed) |  |    |            |    |            |    |                                 |    |           |
|  |                          |                          | Statewide Bridge Maintenance Program Subtotal ▶  | \$ | \$         | \$ | \$         | \$ | ◀ 80% Federal + 20% Non-Federal |    |           |
| ▶ On System  |                          |                          |  |    |            |    |            |    |                                 |    |           |
| 605384   | Pioneer Valley           | Agawam                   | AGAWAM- WEST SPRINGFIELD- BRIDGE RECONSTRUCTION, A-05-002-W-24-014, ROUTE 147 OVER THE WESTFIELD RIVER & INTERSECTION & SIGNAL IMPROVEMENTS @ 3 LOCATIONS.   | 2  | NHPP       | \$ | 14,757,120 | \$ | 11,805,696                      | \$ | 2,951,424 |
|  |                          |                          | On System Subtotal ▶   | \$ | \$         | \$ | 14,757,120 | \$ | 11,805,696                      | \$ | 2,951,424 |
| ▶ Off-System   |                          |                          |  |    |            |    |            |    |                                 |    |           |
| 607528   | Pioneer Valley           | Amherst                  | AMHERST- BRIDGE REPLACEMENT, A 08- 009- MILL STREET OVER MILL RIVER.   | 2  | STP-BR-OFF | \$ | 2,754,040  | \$ | 2,203,232                       | \$ | 550,808   |
| 607549   | Pioneer Valley           | Chesterfield             | CHESTERFIELD - IRELAND STREET OVER WEST BRANCH OF WESTFIELD RIVER.   | 1  | STP-BR-OFF | \$ | 3,649,520  | \$ | 2,919,616                       | \$ | 729,904   |
|  |                          |                          | Off-System Subtotal ▶  | \$ | \$         | \$ | 6,403,560  | \$ | 5,122,848                       | \$ | 1,280,712 |
| ▶ Statewide Bridge Inspection Program                      |                          |                          |  |    |            |    |            |    |                                 |    |           |
|  |                          |                          | No Projects Programmed   |    | \$         | \$ | -          | \$ | -                               | \$ | -         |
|  |                          |                          | No Projects Programmed   |    | \$         | \$ | -          | \$ | -                               | \$ | -         |
|  |                          |                          | No Projects Programmed   |    | \$         | \$ | -          | \$ | -                               | \$ | -         |
|  |                          |                          | No Projects Programmed   |    | \$         | \$ | -          | \$ | -                               | \$ | -         |
|  |                          |                          | Statewide Bridge Inspection Program Subtotal ▶   | \$ | \$         | \$ | -          | \$ | -                               | \$ | -         |
| ▶ 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 LLEWELLYN DRIVE EASTERLY TO LLOYDS HILL ROAD (PHASE I)  | 2  | HPP        | \$ | 2,503,688  | \$ | 2,002,950                       | \$ | 500,738   |
|  |                          |                          | Other Federal Aid Subtotal ▶   | \$ | \$         | \$ | 2,503,688  | \$ | 2,002,950                       | \$ | 500,738   |
| ▶ Section 1D / Federal Aid Major & State Category Projects |                          |                          |  |    |            |    |            |    |                                 |    |           |
| ▶ Statewide Infrastructure Program                         |                          |                          |  |    |            |    |            |    |                                 |    |           |
| 607731   | Pioneer Valley           | Springfield              | SPRINGFIELD- VIADUCT DECK REPLACEMENT OF S24-061 ON I91 (EARLY ACTION)   | 2  | NHPP       | \$ | 9,000,000  | \$ | 7,200,000                       | \$ | 1,800,000 |
|  |                          |                          | Statewide Infrastructure Program Subtotal ▶  | \$ | \$         | \$ | 9,000,000  | \$ | 7,200,000                       | \$ | 1,800,000 |
| ▶ Statewide HSIP Program                                   |                          |                          |  |    |            |    |            |    |                                 |    |           |
| 607736   | Pioneer Valley           | Chicopee                 | CHICOPEE- SIGNAL & INTERSECTION IMPROVEMENTS AT I1 INTERSECTIONS ALONG ROUTE 33 (MEMORIAL DRIVE), FROM FULLER ROAD TO BRITTON STREET   | 2  | HSIP       | \$ | 4,100,000  | \$ | 3,690,000                       | \$ | 410,000   |
|  |                          |                          | Statewide HSIP Program Subtotal ▶  | \$ | \$         | \$ | 4,100,000  | \$ | 3,690,000                       | \$ | 410,000   |
| ▶ Statewide Safe Routes to Schools Program                 |                          |                          |  |    |            |    |            |    |                                 |    |           |
|  |                          |                          | No Projects Programmed   |    | \$         | \$ | -          | \$ | -                               | \$ | -         |
|  |                          |                          | No Projects Programmed   |    | \$         | \$ | -          | \$ | -                               | \$ | -         |
|  |                          |                          | Statewide Safe Routes to Schools Program Subtotal ▶  | \$ | \$         | \$ | -          | \$ | -                               | \$ | -         |
| ▶ Statewide CMAQ   |                          |                          |  |    |            |    |            |    |                                 |    |           |
| 606450   | Pioneer Valley           | Holyoke                  | HOLYOKE- TRAFFIC SIGNAL UPGRADES AT 6 INTERSECTIONS ALONG HIGH & 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       | \$ | 1,564,867  | \$ | 1,251,884                       | \$ | 312,973   |
| 603783   | Pioneer Valley           | Westfield                | WESTFIELD- CONSTRUCTION OF ROUNDABOUT AT INTERSECTION OF ROUTES 57/10 (NORTH KING STREET) & HATFIELD STREET.   | 2  | CMAQ       | \$ | 6,532,896  | \$ | 5,226,316                       | \$ | 1,306,579 |
| 606555   | Pioneer Valley           | Northampton              | CONSTRUCTION AT INTERSECTION OF ROUTES 57/10 (NORTH KING STREET) & HATFIELD STREET.  | 2  | CMAQ       | \$ | 2,989,892  | \$ | 2,391,914                       | \$ | 597,978   |
| 602911   | Pioneer Valley           | Chicopee                 | CHICOPEE- CONNECTICUT RIVER WALK & BIKEWAY CONSTRUCTION, FROM BOAT RAMP NEAR I-90 TO WASH FIELD (2.5 MILES)  | 2  | CMAQ       | \$ | 3,902,850  | \$ | 3,122,280                       | \$ | 780,570   |
|  |                          |                          | Statewide CMAQ ▶   | \$ | \$         | \$ | 14,960,504 | \$ | 11,992,403                      | \$ | 2,968,101 |
|  |                          |                          | Statewide CMAQ ▶   | \$ | \$         | \$ | 14,960,504 | \$ | 11,992,403                      | \$ | 2,968,101 |
|  |                          |                          | Statewide CMAQ ▶   | \$ | \$         | \$ | 14,960,504 | \$ | 11,992,403                      | \$ | 2,968,101 |
|  |                          |                          | Statewide CMAQ ▶   | \$ | \$         | \$ | 14,960,504 | \$ | 11,992,403                      | \$ | 2,968,101 |

**Table 6: Federally Funded Projects Year 2017 (Continued)**

|  |   |  |               |               |               |  |
|--|---|--|---------------|---------------|---------------|--|
| ▶ Statewide Transportation Enhancements    | No Projects Programmed<br>No Projects Programmed  |  | \$ -          | \$ -          | \$ -          | ◀ 80% Federal + 20% Non-Federal          |
|  | Statewide Transportation Enhancements Subtotal ▶  |  | \$ -          | \$ -          | \$ -          |  |
| ▶ Statewide ITS                            | No Projects Programmed<br>No Projects Programmed  |  | \$ -          | \$ -          | \$ -          | ◀ 80% Federal + 20% Non-Federal          |
|  | Statewide ITS Subtotal ▶  |  | \$ -          | \$ -          | \$ -          |  |
| ▶ Statewide Interstate Maintenance Program | No Projects Programmed<br>No Projects Programmed  |  | \$ -          | \$ -          | \$ -          | ◀ 90% Federal + 10% Non-Federal          |
|  | Statewide Interstate Maintenance Program Subtotal ▶   |  | \$ -          | \$ -          | \$ -          |  |
| ▶ Statewide NHS Preservation Program+      | No Projects Programmed<br>No Projects Programmed  |  | \$ -          | \$ -          | \$ -          | ◀ 80% Federal + 20% Non-Federal          |
|  | Statewide NHS Preservation Program Subtotal ▶   |  | \$ -          | \$ -          | \$ -          |  |
| ▶ Statewide RR Grade Crossings             | No Projects Programmed<br>No Projects Programmed  |  | \$ -          | \$ -          | \$ -          | ◀ 80% Federal + 20% Non-Federal          |
|  | Statewide RR Grade Crossings Subtotal ▶   |  | \$ -          | \$ -          | \$ -          |  |
| ▶ Statewide Stormwater Retrofits<br>608192 | Pioneer Valley<br>Multiple  | AGAWAM-CHICOPEE-HOLYOKE<br>SPRINGFIELD-WEST SPRINGFIELD -<br>STORMWATER IMPROVEMENTS ALONG I-<br>91, I-291, I-95I, AND ROUTE 5 | 2             | 1,872,000     | 1,487,600     | 374,400                                  |
|  | Statewide Stormwater Retrofits Subtotal ▶   |  | \$ -          | \$ 1,872,000  | \$ 1,487,600  | \$ 374,400                               |
| ▶ Statewide ADA Implementation Plan        | No Projects Programmed<br>No Projects Programmed  |  | \$ -          | \$ -          | \$ -          | ◀ 80% Federal + 20% Non-Federal          |
|  | Statewide ADA Implementation Plan Subtotal ▶  |  | \$ -          | \$ -          | \$ -          |  |
| ▶ Other Statewide Items                    | ASB GANS Repayment<br>Award Adjustments, Change Orders, Project<br>Value Changes, Etc.<br>DBES, FAPO, Pavement Lab Retrofits, and<br>Misc. Programs<br>Planning<br>Statewide Design and Right of Way<br>Statewide Recreational Trails<br>Other Statewide Items Subtotal ▶ |  | \$ -          | \$ -          | \$ -          | ◀ Funding Split Varies by Funding Source |
| ▶ Section 2A / Non-Federal Projects        |   |  |               |               |               |  |
| ▶ Non Federal Aid                          | No Projects Programmed<br>No Projects Programmed  |  | \$ -          | \$ -          | \$ -          | ◀ 100% Non-Federal                       |
|  | Non-Federal Aid Subtotal ▶  |  | \$ -          | \$ -          | \$ -          |  |
| ▶ Section 2B / Non-Federal Bridge Projects | No Projects Programmed<br>No Projects Programmed  |  | \$ -          | \$ -          | \$ -          | ◀ 100% Non-Federal                       |
|  | Section 2B / Non-Federal Bridge Projects Subtotal ▶   |  | \$ -          | \$ -          | \$ -          |  |
| <b>2017 Pioneer Valley TIP Summary</b>     |   |  |               |               |               |  |
|  | Total   |  | \$ 71,417,679 | \$ 71,417,679 | \$ 71,417,679 | ◀ Total Spending in Region               |
|  | Federal Funds   |  | \$ 57,652,242 | \$ 57,652,242 | \$ 57,652,242 | ◀ Total Federal Spending in Region       |
|  | Non-Federal Funds   |  | \$ 13,765,437 | \$ 13,765,437 | \$ 13,765,437 | ◀ Total Non-Federal Spending in Region   |



**Table 7: Federally Funded Projects 2018**

| Amendment/Adjustment Type   | MassDOT Project ID | MPO            | Municipality Name | MassDOT Project Description  | MassDOT District | Funding Source                             | Total Programmed Funds | Federal Funds | Non-Federal Funds | Additional Information  |
|---|--------------------|----------------|-------------------|--|------------------|--|------------------------|---------------|-------------------|---|
| <b>Section 1A / Federal Aid Target Projects</b>                               |                    |                |                   |  |                  |  |                        |               |                   |   |
| <b>Section 1A - Highway Safety Improvement Program</b>                        |                    |                |                   |  |                  |  |                        |               |                   |   |
|   | 604597             | Pioneer Valley | Northampton       | NORTHAMPTON-I-91 INTERCHANGE 19 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<br>◀ 90% Federal + 10% Non-Federal        |
|   |                    |                |                   |  |                  | HSIP Subtotal                              | \$ 1,080,992           | \$ 972,893    | \$ 108,099        |   |
| <b>Section 1A - Congestion Mitigation and Air Quality Improvement Program</b> |                    |                |                   |  |                  |  |                        |               |                   |   |
|   | 607502             | Pioneer Valley | Northampton       | NORTHAMPTON - INTERSECTION IMPROVEMENTS AT KING STREET, NORTH STREET & SUMMER STREET AND AT KING STREET & FINN STREET                  |                  |  | \$ 1,512,774           | \$ 1,210,219  | \$ 302,555        | 57 TEC Score Pre 25% (YOE \$1,763,802) CMAQ, STP  |
|   | 604597             | Pioneer Valley | Northampton       | NORTHAMPTON-I-91 INTERCHANGE 19 IMPROVEMENTS AT ROUTE 9 AND DAMON RD   |                  |  | \$ 1,800,000           | \$ 1,440,000  | \$ 360,000        | 61 TEC Score 25% (YOE \$6,480,000) STP, CMAQ, HSIP, TAP<br>◀ 80% Federal + 20% Non-Federal        |
|   |                    |                |                   |  |                  | CMAQ Subtotal                              | \$ 3,312,774           | \$ 2,650,219  | \$ 662,555        |   |
| <b>Section 1A - Transportation Alternatives Program</b>                       |                    |                |                   |  |                  |  |                        |               |                   |   |
|   | 604597             | Pioneer Valley | Northampton       | NORTHAMPTON-I-91 INTERCHANGE 19 IMPROVEMENTS AT ROUTE 9 AND DAMON RD   | 2                | TAP  | \$ 615,889             | \$ 492,711    | \$ 123,178        | 61 TEC Score 25% (YOE \$6,480,000) STP, CMAQ, HSIP, TAP<br>◀ 80% Federal + 20% Non-Federal        |
|   |                    |                |                   |  |                  | TAP Subtotal                               | \$ 615,889             | \$ 492,711    | \$ 123,178        |   |
| <b>Section 1A - Non-CMAQ/HSIP/TAP (Other)</b>                                 |                    |                |                   |  |                  |  |                        |               |                   |   |
|   | 607502             | Pioneer Valley | Northampton       | NORTHAMPTON - INTERSECTION IMPROVEMENTS AT KING STREET, NORTH STREET & SUMMER STREET AND AT KING STREET & FINN 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-I-91 INTERCHANGE 19 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<br>Pre 25% 47.6 TEC (YOE \$6,706,800) STP |
|   | 604434             | Pioneer Valley | Chicopee          | CHICOPEE - RECONSTRUCTION & RELATED WORK ON FULLER ROAD, FROM MEMORIAL DR (RTE 33) TO SHAWINGAN DR (2.0 MILES)                         | 2                | STP  | \$ 6,706,800           | \$ 5,365,440  | \$ 1,341,360      | 34.4 TEC Score 75% (YOE \$2,380,407) STP  |
|   | 607430             | Pioneer Valley | Longmeadow        | LONGMEADOW-RESURFACING & RELATED WORK ON LONGMEADOW STREET (ROUTE 5) FROM THE CT S.L. TO CONVERSE STREET (2.88 MILES)                  | 2                | STP  | \$ 2,390,407           | \$ 1,912,326  | \$ 478,081        | 39 TEC Score 25% (YOE \$3,104,024) STP  |
|   | 607256             | Pioneer Valley | Holyoke           | HOLYOKE - RESURFACING & RELATED WORK ON HERITAGE STREET, FRONT STREET & DWIGHT STREET FROM MAPLE ST TO THE 1ST LEVEL CANAL (.94 MILES) | 2                | STP  | \$ 3,104,024           | \$ 2,483,219  | \$ 620,805        | 80% Federal + 20% Non-Federal   |
|   |                    |                |                   |  |                  | Non-CMAQ/HSIP/TAP (Other) Subtotal         | \$ 17,913,978          | \$ 14,331,182 | \$ 3,582,796      |   |
| <b>Section 1A / Fiscal Constraint Analysis</b>                                |                    |                |                   |  |                  |  |                        |               |                   |   |
|   |                    |                |                   |  |                  | Total Federal Aid Target Funds Programmed  | \$ 22,923,633          | \$ 23,303,483 | \$ 379,850        | Target Funds Available  |
|   |                    |                |                   |  |                  | Total Non-CMAQ/HSIP/TAP (Other) Programmed | \$ 17,913,978          | \$ 18,228,502 | \$ 314,524        | Non-CMAQ/HSIP/TAP (Other) Available   |
|   |                    |                |                   |  |                  | Total HSIP Programmed                      | \$ 1,080,992           | \$ 1,080,992  | \$ -              | HSIP Minimum Met  |
|   |                    |                |                   |  |                  | Total CMAQ Programmed                      | \$ 3,312,774           | \$ 3,378,100  | \$ 65,326         | CMAQ Minimum Not Met  |
|   |                    |                |                   |  |                  | Total TAP Programmed                       | \$ 615,889             | \$ 615,889    | \$ -              | TAP Minimum Met   |

### Table 7: Federally Funded Projects Year 2018 (Continued)

| Section  | Federal Aid Major & State Category | Project ID | Program     | County | Project Description   | NAEP | Funding       | Match         | Total        | Funding Source                           |
|--|------------------------------------|------------|-------------|--------|---|------|---------------|---------------|--------------|--|
| Section 1B / Federal Aid Bridge Projects                 |                                    |            |             |        |   | 1    |               |               |              |  |
| Statewide Bridge Maintenance Program                     | Pioneer Valley                     | 607939     | Cummington  |        | CUMMINGTON BRIDGE MAINTENANCE, C-21-025, ROUTE 9 OVER THE WESTFIELD RIVER   |      | \$ 300,000    | \$ 240,000    | \$ 60,000    |  |
|  |                                    |            |             |        | Statewide Bridge Maintenance Program Subtotal   |      | \$ 300,000    | \$ 240,000    | \$ 60,000    | ◀ 80% Federal + 20% Non-Federal          |
| On System  | Pioneer Valley                     | 600936     | Holyoke     |        | HOLYOKE BRIDGE REPLACEMENT, H-24-018, LYMAN STREET OVER FIRST LEVEL CANAL   | 2    | \$ 14,002,570 | \$ 11,202,566 | \$ 2,800,514 |  |
|  |                                    |            |             |        | On System Subtotal  |      | \$ 14,002,570 | \$ 11,202,566 | \$ 2,800,514 | ◀ 80% Federal + 20% Non-Federal          |
| Off System   |                                    |            |             |        | Off System Subtotal   |      | \$ -          | \$ -          | \$ -         | ◀ 80% Federal + 20% Non-Federal          |
| Statewide Bridge Inspection Program                      |                                    |            |             |        | No Projects Programmed  |      | \$ -          | \$ -          | \$ -         |  |
|  |                                    |            |             |        | 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  |                                    |            |             |        | 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                         | Pioneer Valley                     | 607560     | Multiple    |        | CHICOPEE-HOLYOKE INTERSTATE MAINTENANCE & RELATED WORK ON I-991   | 2    | \$ 11,989,555 | \$ 9,591,644  | \$ 2,397,911 | (\$12,961,555 NHPP, STP-TE)              |
|  | Pioneer Valley                     | 608207     | Multiple    |        | LONGMEADOW-SPRINGFIELD RESURFACING AND RELATED WORK ON I-91   | 2    | \$ 13,763,520 | \$ 11,010,816 | \$ 2,752,704 |  |
|  |                                    |            |             |        | Statewide Infrastructure Program Subtotal   |      | \$ 25,753,075 | \$ 20,602,460 | \$ 5,150,615 | ◀ 80% Federal + 20% Non-Federal          |
| Statewide HSIP Program                                   |                                    |            |             |        | No Projects Programmed  |      | \$ -          | \$ -          | \$ -         |  |
|  |                                    |            |             |        | No Projects Programmed  |      | \$ -          | \$ -          | \$ -         |  |
|  |                                    |            |             |        | Statewide HSIP Program Subtotal   |      | \$ -          | \$ -          | \$ -         | ◀ 90% Federal + 10% Non-Federal          |
| Statewide Safe Routes to Schools Program                 |                                    |            |             |        | No Projects Programmed  |      | \$ -          | \$ -          | \$ -         | Funding Split Varies by Funding Source   |
|  |                                    |            |             |        | No Projects Programmed  |      | \$ -          | \$ -          | \$ -         | Funding Split Varies by Funding Source   |
|  |                                    |            |             |        | Statewide Safe Routes to Schools Program Subtotal   |      | \$ -          | \$ -          | \$ -         | ◀ Funding Split Varies by Funding Source |
| Statewide CMAQ   |                                    |            |             |        |   |      |               |               |              |  |
|  | Pioneer Valley                     | 607569     | Springfield |        | SPRINGFIELD NORTH END PEDESTRIAN PATH CONSTRUCTION (UNDER PAN-AM RAILROAD), BETWEEN PLAINFIELD STREET AND BIRNIE AVENUE | 2    | \$ 4,326,400  | \$ 3,461,120  | \$ 865,280   |  |
|  | Pioneer Valley                     | 602912     | Chicopee    |        | CHICOPEE-CHICOPEE RIVER RIVERWALK MULTI-USE PATH CONSTRUCTION FROM GRAPE STREET TO FRONT STREET (NEAR ELLERTON STREET)  | 2    | \$ 3,947,840  | \$ 3,198,272  | \$ 749,568   | 27.9 TEC Score 25% (\$3,947,840)         |
|  |                                    |            |             |        | Statewide CMAQ  |      | \$ 8,274,240  | \$ 6,619,392  | \$ 1,654,848 | ◀ 80% Federal + 20% Non-Federal          |

Table 7: Federally Funded Projects Year 2018 (Continued)

| Project Category                                  | Project Name  | Program   | Funding Source | FY 2018              | FY 2019       | FY 2020              | Total          | Funding Split                          |                  |  |
|---|---|---|----------------|----------------------|---------------|----------------------|----------------|--|------------------|--|
| Statewide Transportation Enhancements             | No Projects Programmed  |   |                | \$ -                 | \$ -          | \$ -                 | \$ -           |  |                  |  |
|   | No Projects Programmed  |   |                | \$ -                 | \$ -          | \$ -                 | \$ -           | 80% Federal + 20% Non-Federal          |                  |  |
| Statewide Transportation Enhancements Subtotal    |   |   |                |                      |               |                      |                | \$ -                                   |                  |  |
| Statewide ITS                                     | No Projects Programmed  |   |                | \$ -                 | \$ -          | \$ -                 | \$ -           |  |                  |  |
|   | No Projects Programmed  |   |                | \$ -                 | \$ -          | \$ -                 | \$ -           | 80% Federal + 20% Non-Federal          |                  |  |
| Statewide ITS Subtotal                            |   |   |                |                      |               |                      |                | \$ -                                   |                  |  |
| Statewide Interstate Maintenance Program          | No Projects Programmed  |   |                | \$ -                 | \$ -          | \$ -                 | \$ -           |  |                  |  |
|   | No Projects Programmed  |   |                | \$ -                 | \$ -          | \$ -                 | \$ -           | 90% Federal + 10% Non-Federal          |                  |  |
| Statewide Interstate Maintenance Program Subtotal |   |   |                |                      |               |                      |                | \$ -                                   |                  |  |
| Statewide NHS Preservation Program+<br>607474     | Multiple  | GRANBY / SOUTH-HADLEY - RESURFACING AND RELATED WORK ON ROUTE 202 |                | 1,988,064            | 1,590,451.2   | 397,612.8            | 3,976,128      | Pre 25% (\$1,712,794) nhs              |                  |  |
|   |   | Statewide NHS Preservation Program                                |                | 1,988,064            | 1,590,451     | 397,613              | 3,976,128      | 80% Federal + 20% Non-Federal          |                  |  |
| Statewide NHS Preservation Program Subtotal       |   |   |                |                      |               |                      |                | \$ 3,976,128                           |                  |  |
| Statewide RR Grade Crossings                      | No Projects Programmed  |   |                | \$ -                 | \$ -          | \$ -                 | \$ -           |  |                  |  |
|   | No Projects Programmed  |   |                | \$ -                 | \$ -          | \$ -                 | \$ -           | 80% Federal + 20% Non-Federal          |                  |  |
| Statewide RR Grade Crossings Subtotal             |   |   |                |                      |               |                      |                | \$ -                                   |                  |  |
| Statewide Stormwater Retrofits<br>607560          | Multiple  | CHICOPEE- HOLYOKE- INTERSTATE MAINTENANCE & RELATED WORK ON I-391 |                | 972,000              | 777,600.0     | 194,400.0            | 1,944,000      | (\$12,961,555 NHPP, STP-TE)            |                  |  |
|   |   | Statewide Stormwater Retrofits                                    |                | 972,000              | 777,600       | 194,400              | 1,944,000      | 80% Federal + 20% Non-Federal          |                  |  |
| Statewide Stormwater Retrofits Subtotal           |   |   |                |                      |               |                      |                | \$ 1,944,000                           |                  |  |
| Statewide ADA Implementation Plan                 | No Projects Programmed  |   |                | \$ -                 | \$ -          | \$ -                 | \$ -           |  |                  |  |
|   | No Projects Programmed  |   |                | \$ -                 | \$ -          | \$ -                 | \$ -           | 80% Federal + 20% Non-Federal          |                  |  |
| Statewide ADA Implementation Plan Subtotal        |   |   |                |                      |               |                      |                | \$ -                                   |                  |  |
| Other Statewide Items                             | ABP GANS Repayment  |   |                | \$ -                 | \$ -          | \$ -                 | \$ -           |  |                  |  |
|   | Award Adjustments, Change Orders, Project Value Changes, Etc. |   |                | \$ -                 | \$ -          | \$ -                 | \$ -           |  |                  |  |
|   | DBEs, FAPO, Pavement Lab Retrofits, and Misc. Programs        |   |                | \$ -                 | \$ -          | \$ -                 | \$ -           |  |                  |  |
|   | Planning  |   |                | \$ -                 | \$ -          | \$ -                 | \$ -           |  |                  |  |
|   | Statewide Design and Right of Way                             |   |                | \$ -                 | \$ -          | \$ -                 | \$ -           |  |                  |  |
|   | Statewide Recreational Trails                                 |   |                | \$ -                 | \$ -          | \$ -                 | \$ -           |  |                  |  |
|   | Other Statewide Items Subtotal                                |   |                | \$ -                 | \$ -          | \$ -                 | \$ -           | Funding Split Varies by Funding Source |                  |  |
|   | Section 2A / Non-Federal Projects                             |   |                |                      |               |                      |                |  | \$ -             |  |
|   | Non-Federal Aid   | No Projects Programmed  |                |                      | \$ -          | \$ -                 | \$ -           | \$ -                                   |                  |  |
|   |   | No Projects Programmed  |                |                      | \$ -          | \$ -                 | \$ -           | \$ -                                   | 100% Non-Federal |  |
| Non-Federal Aid Subtotal                          |   |   |                |                      |               |                      |                | \$ -                                   |                  |  |
| Section 2B / Non-Federal Bridge Projects          |   |   |                |                      |               |                      |                | \$ -                                   |                  |  |
| Section 2B / Non-Federal Bridge Projects          | No Projects Programmed  |   |                | \$ -                 | \$ -          | \$ -                 | \$ -           |  |                  |  |
|   | No Projects Programmed  |   |                | \$ -                 | \$ -          | \$ -                 | \$ -           | 100% Non-Federal                       |                  |  |
| Section 2B / Non-Federal Bridge Projects Subtotal |   |   |                |                      |               |                      |                | \$ -                                   |                  |  |
| <b>2018 Pioneer Valley TIP Summary</b>            |   |   |                | <b>TIP Section 1</b> |               | <b>TIP Section 2</b> |                | <b>Total of All Projects</b>           |                  |  |
| Total   |   |   |                | \$ 74,213,582        | \$ 74,213,582 | \$ 74,213,582        | \$ 222,640,746 | Total Spending in Region               |                  |  |
| Federal Funds                                     |   |   |                | \$ 59,476,965        | \$ 59,476,965 | \$ 59,476,965        | \$ 178,430,900 | Total Federal Spending in Region       |                  |  |
| Non-Federal Funds                                 |   |   |                | \$ 14,736,617        | \$ 14,736,617 | \$ 14,736,617        | \$ 44,209,846  | Total Non-Federal Spending in Region   |                  |  |

Table 7: Federally Funded Projects Year 2019

| Amendment/Adjustment Type   | MassDOT Project ID | MPO            | Municipality Name | MassDOT Project Description  | MassDOT District | Funding Source                                   | Total Programmed Funds | Federal Funds | Non-Federal Funds | Additional Information   |
|---|--------------------|----------------|-------------------|--|------------------|--|------------------------|---------------|-------------------|--|
| <b>Section 1A / Federal Aid Target Projects</b>                               |                    |                |                   |  |                  |  |                        |               |                   |  |
| <b>Section 1A - Highway Safety Improvement Program</b>                        |                    |                |                   |  |                  |  |                        |               |                   |  |
|   | 606156             | Pioneer Valley | Holyoke           | HOLYOKE - RECONSTRUCTION OF I-91 INTERCHANGE 17 & ROUTE 141  |                  | HSP  | \$ 1,080,992           | \$ 972,893    | \$ 108,099        | 48 TEC Score Pre 25% (YOE \$2,812,000) HSP, CMAQ                                     |
|   |                    |                |                   |  |                  | HSP Subtotal                                     | \$ 1,080,992           | \$ 972,893    | \$ 108,099        | 90% Federal + 10% Non-Federal  |
| <b>Section 1A - Congestion Mitigation and Air Quality Improvement Program</b> |                    |                |                   |  |                  |  |                        |               |                   |  |
|   | 606156             | Pioneer Valley | Holyoke           | HOLYOKE - RECONSTRUCTION OF I-91 INTERCHANGE 17 & ROUTE 141  |                  |  | \$ 1,831,008           | \$ 1,464,806  | \$ 366,202        | 48 TEC Score Pre 25% (YOE \$2,812,000) HSP, CMAQ                                     |
|   | 607893             | Pioneer Valley | Northampton       | NORTHAMPTON - INTERSECTION IMPROVEMENTS @ ELM STREET, MAIN STREET, WEST STREET, STATE STREET & NEW SOUTH STREET  |                  | 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  |
| <b>Section 1A - Transportation Alternatives Program</b>                       |                    |                |                   |  |                  |  |                        |               |                   |  |
|   | 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                                      |
|   | 607893             | 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  |
| <b>Section 1A - Non-CMAQ/HSP/TAP (Other)</b>                                  |                    |                |                   |  |                  |  |                        |               |                   |  |
|   | 600513             | Pioneer Valley | Agawam            | AGAWAM - RECONSTRUCTION OF ROUTE 187 FROM 425 FT. SOUTH OF S. WESTFIELD STREET TO ROUTE 57 (0.3 MILES - PHASE I)   | 2                | STP  | \$ 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, COURT STREET & WESTERN AVENUE, LLOYDS HILL ROAD TO HIGH STREET/MILL STREET INTERSECTION (PHASE II)  | 2                | STP  | \$ 5,698,486           | \$ 4,558,789  | \$ 1,139,697      | 38.5 TEC Score 25% (YOE 5,698,486) STP, (HPP will be used for Phase I (\$2,500,000)) |
|   | 604209             | Pioneer Valley | Holyoke           | HOLYOKE - WEST SPRINGFIELD - REHABILITATION OF ROUTE 5 (RIVERDALE ROAD), FROM I-91 INTERCHANGE 13) TO MAIN STREET IN HOLYOKE & FROM ELM STREET TO NORTH ELM STREET IN WEST SPRINGFIELD (3.2 MILES) | 2                | 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/HSP/TAP (Other) Subtotal                | \$ 13,806,354          | \$ 11,045,083 | \$ 2,761,271      | 80% Federal + 20% Non-Federal  |
| <b>Section 1A / Fiscal Constraint Analysis</b>                                |                    |                |                   |  |                  |  |                        |               |                   |  |
|   |                    |                |                   |  |                  | <b>Total Federal Aid Target Funds Programmed</b> | \$ 18,739,385          | \$ 23,303,483 | \$ 4,564,098      | <b>Total Target</b>  |
|   |                    |                |                   |  |                  | Total Non-CMAQ/HSP/TAP (Other) Programmed        | \$ 13,806,354          | \$ 18,370,452 | \$ 4,564,098      | <b>Max Non-CMAQ/HSP/TAP</b>  |
|   |                    |                |                   |  |                  | Total HSP Programmed                             | \$ 1,080,992           | \$ 1,080,992  | \$ -              | <b>Min. HSP</b>  |
|   |                    |                |                   |  |                  | Total CMAQ Programmed                            | \$ 3,378,100           | \$ 3,378,100  | \$ -              | <b>Min. CMAQ</b>   |
|   |                    |                |                   |  |                  | Total TAP Programmed                             | \$ 473,939             | \$ 473,939    | \$ -              | <b>Min. TAP</b>  |

# Table 8: Federally Funded Projects Year 2019 (Continued)

| ▶ Section 1B / Federal Aid Bridge Projects                 |  |  |   |   |   |  |  |               |               |              |  |   |
|--|--|--|---|---|---|--|--|---------------|---------------|--------------|--|---|
| ▶ Statewide Bridge Maintenance Program                     |  |  |   |   |   |  |  |               |               |              |  |   |
| Statewide Bridge Maintenance Program Subtotal ▶            |  |  |   |   |   |  |  |               |               |              |  |   |
|  |  |  | No Projects Programmed  |   | \$  |  |  |               |               |              |  |   |
|  |  |  | No Projects Programmed  |   | \$  |  |  |               |               |              |  | 80% Federal + 20% Non-Federal                   |
| ▶ On System  |  |  |   |   |   |  |  |               |               |              |  |   |
|  |  |  | NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 52/MSR & N-19-060, I-91 OVER HOOGANUM ROAD | 2 | NHPP  |  |  | \$ 23,628,800 | \$ 23,628,800 | \$ 5,907,200 |  | Total Project Cost is \$53,000,000, A/C to 2020 |
|  |  |  | No Projects Programmed  |   | On System Subtotal ▶                                |  |  | \$ 23,628,800 | \$ 23,628,800 | \$ 5,907,200 |  | 80% Federal + 20% Non-Federal                   |
| ▶ Off System   |  |  |   |   |   |  |  |               |               |              |  |   |
|  |  |  | MIDDLEFIELD- BRIDGE REPLACEMENT, M-19-10, CHESTER ROAD OVER SMAR BROOK                                | 1 | STP-BR-OFF  |  |  | \$ 3,138,720  | \$ 2,510,976  | \$ 627,744   |  |   |
|  |  |  | No Projects Programmed  |   | Off System Subtotal ▶                               |  |  | \$ 3,138,720  | \$ 2,510,976  | \$ 627,744   |  | 80% Federal + 20% Non-Federal                   |
|  |  |  | No Projects Programmed  |   |   |  |  | \$ -          | \$ -          | \$ -         |  |   |
|  |  |  | No Projects Programmed  |   |   |  |  | \$ -          | \$ -          | \$ -         |  | 80% Federal + 20% Non-Federal                   |
|  |  |  | No Projects Programmed  |   |   |  |  | \$ -          | \$ -          | \$ -         |  |   |
| ▶ Section 1C / Federal Aid Non-Target Projects             |  |  |   |   |   |  |  |               |               |              |  |   |
|  |  |  | No Projects Programmed  |   |   |  |  | \$ -          | \$ -          | \$ -         |  |   |
|  |  |  | No Projects Programmed  |   |   |  |  | \$ -          | \$ -          | \$ -         |  | 80% Federal + 20% Non-Federal                   |
|  |  |  | No Projects Programmed  |   |   |  |  | \$ -          | \$ -          | \$ -         |  |   |
|  |  |  | No Projects Programmed  |   |   |  |  | \$ -          | \$ -          | \$ -         |  |   |
| ▶ Section 1D / Federal Aid Major & State Category Projects |  |  |   |   |   |  |  |               |               |              |  |   |
| ▶ Statewide Infrastructure Program                         |  |  |   |   |   |  |  |               |               |              |  |   |
|  |  |  | CHICOPEE - SPRINGSFIELD - RESURFACING AND RELATED WORK ON I-291                                       | 2 | NHPP  |  |  | \$ 9,236,398  | \$ 9,236,398  | \$ 2,309,100 |  |   |
|  |  |  | No Projects Programmed  |   | Statewide Infrastructure Program Subtotal ▶         |  |  | \$ 9,236,398  | \$ 9,236,398  | \$ 2,309,100 |  | 80% Federal + 20% Non-Federal                   |
|  |  |  | No Projects Programmed  |   |   |  |  | \$ -          | \$ -          | \$ -         |  |   |
|  |  |  | No Projects Programmed  |   | Statewide HSIP Program Subtotal ▶                   |  |  | \$ -          | \$ -          | \$ -         |  | 80% Federal + 10% Non-Federal                   |
|  |  |  | No Projects Programmed  |   |   |  |  | \$ -          | \$ -          | \$ -         |  |   |
|  |  |  | No Projects Programmed  |   |   |  |  | \$ -          | \$ -          | \$ -         |  |   |
|  |  |  | No Projects Programmed  |   | Statewide Safe Routes to Schools Program Subtotal ▶ |  |  | \$ -          | \$ -          | \$ -         |  | Funding Split Varies by Funding Source          |
|  |  |  | No Projects Programmed  |   |   |  |  | \$ -          | \$ -          | \$ -         |  | Funding Split Varies by Funding Source          |
|  |  |  | No Projects Programmed  |   |   |  |  | \$ -          | \$ -          | \$ -         |  | Funding Split Varies by Funding Source          |
|  |  |  | No Projects Programmed  |   | Statewide CMAQ                                      |  |  | \$ -          | \$ -          | \$ -         |  | 80% Federal + 20% Non-Federal                   |
|  |  |  | No Projects Programmed  |   | Statewide CMAQ ▶                                    |  |  | \$ -          | \$ -          | \$ -         |  |   |
|  |  |  |   |   | Other Federal Aid Subtotal ▶                        |  |  | \$ -          | \$ -          | \$ -         |  | Funding Split Varies by Funding Source          |

**Table 8: Federally Funded Projects Year 2019 (Continued)**

|  |   |   |                      |                              |  |
|--|---|---|----------------------|------------------------------|--|
| ▶ Statewide Transportation Enhancements    | No Projects Programmed<br>No Projects Programmed  | Statewide Transportation Enhancements Subtotal                  | \$ -                 | \$ -                         | ◀ 80% Federal + 20% Non-Federal          |
| ▶ Statewide ITS                            | No Projects Programmed<br>No Projects Programmed  | Statewide ITS Subtotal  | \$ -                 | \$ -                         | ◀ 80% Federal + 20% Non-Federal          |
| ▶ Statewide Interstate Maintenance Program | No Projects Programmed<br>No Projects Programmed  | Statewide Interstate Maintenance Program Subtotal               | \$ -                 | \$ -                         | ◀ 90% Federal + 10% Non-Federal          |
| ▶ Statewide NHS Preservation Program+      | No Projects Programmed<br>No Projects Programmed  | Statewide NHS Preservation Program Subtotal                     | \$ -                 | \$ -                         | ◀ 80% Federal + 20% Non-Federal          |
| ▶ Statewide RR Grade Crossings             | No Projects Programmed<br>No Projects Programmed  | Statewide RR Grade Crossings Subtotal                           | \$ -                 | \$ -                         | ◀ 80% Federal + 20% Non-Federal          |
| ▶ Statewide Stormwater / Retrofits         | No Projects Programmed<br>No Projects Programmed  | Statewide Stormwater Retrofits Subtotal                         | \$ -                 | \$ -                         | ◀ 80% Federal + 20% Non-Federal          |
| ▶ Statewide ADA Implementation Plan        | No Projects Programmed<br>No Projects Programmed  | Statewide ADA Implementation Plan Subtotal                      | \$ -                 | \$ -                         | ◀ 80% Federal + 20% Non-Federal          |
| ▶ Other Statewide Items                    | ABP GANS Repayment<br>Award Adjustments, Change Orders, Project<br>Value Changes, Etc.<br>DBES, FAPO, Pavement Lab Retrofits, and Misc.<br>Programs<br>Statewide Design and Right of Way<br>Statewide Recreational Trails<br>Other Statewide Items Subtotal |   | \$ -                 | \$ -                         | ◀ Funding Split Varies by Funding Source |
| ▶ Section 2A / Non-Federal Projects        | No Projects Programmed<br>No Projects Programmed  | NFA<br>NFA<br>Non-Federal Aid Subtotal                          | \$ -                 | \$ -                         | ◀ 100% Non-Federal                       |
| ▶ Section 2B / Non-Federal Bridge Projects | No Projects Programmed<br>No Projects Programmed  | NFA<br>NFA<br>Section 2B / Non-Federal Bridge Projects Subtotal | \$ -                 | \$ -                         | ◀ 100% Non-Federal                       |
| <b>2019 Pioneer Valley TIP Summary</b>     |   | <b>TIP Section 1</b>  | <b>TIP Section 2</b> | <b>Total of All Projects</b> |  |
|  |   | Total   | \$ 62,959,603        | \$ 62,959,603                | ◀ Total Spending in Region               |
|  |   | Federal Funds   | \$ 50,475,782        | \$ 50,475,782                | ◀ Total Federal Spending in Region       |
|  |   | Non-Federal Funds   | \$ 12,483,821        | \$ 12,483,821                | ◀ Total Non-Federal Spending in Region   |

**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 | AGAWAM- 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 A VENUE & ISLAND POND ROAD, ROOSEVELT A VENUE & 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 CMAQ       | 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    |
| Off TIP            | 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    |
| 2017 SW CMAQ       | 2016 SW CMAQ         | Northampton              | 606555 | NORTHAMPTON- ROUNDABOUT CONSTRUCTION AT INTERSECTION ROUTES 5/10 (NORTH KING STREET) & HAIFIELD STREET   | 25     | 42.5    | 7.18    | \$2,917,000    |
| 2016               | 2016                 | Ludlow                   | 605011 | RECONSTRUCTION OF CENTER STREET (ROUTE 21) - FROM 35' WEST OF BEACHSIDE DRIVE WESTERLY TO GAS LINE BESIDE MTA OVERPASS (3,500 FEET)                                    | 25     | 40.0    | 9.65    | \$4,728,895    |
| 2018               |                      | Holyoke                  | 607256 | RESURFACING & RELATED WORK ON HERITAGE STREET, FRONT STREET & DWIGHT STREET FROM MAPLE ST 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, LLOYDS 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 | 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 |
|      | A gawam                   | 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 T.L. 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 |
|      | Goshen                    | 602888 | Route 9 reconstruction   | 25 | 28.0 | 6.20 | \$7,500,000 |
| 2019 | A gawam                   | 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 | A gawam                   | 604203 | Route 187/57 Intersection Improvements   | 0  | 58.5 | 8.73 | \$1,600,000 |
| 2018 | 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 | 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 | \$2,880,000 |
| 2019 | Amherst                   | 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 11 INTERSECTIONS ALONG ROUTE 33 (MEMORIAL DRIVE), FROM FULLER ROAD TO BRITTON STREET            | 0 | 38.5 | 7.15 | \$4,016,980  |
| 2017         | Holyoke                | 606903 | IMPROVEMENTS TO LOWER WESTFIELD ROAD ON I-91 (INTERCHANGE 15)   | 0 | 37.5 | 6.67 | \$1,031,250  |
| 2017 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 AVENUE  | 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 H-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 Streater 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<br>NHPP | Cranby / South<br>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 /<br>Southampton | 608026 | SIDEWALK CONSTRUCTION & RELATED WORK ON ROUTE 10, FROM MM 19.9 NORTHERLY TO MM 20.9 (600' SOUTH OF SOUTH STREET)   | 0 | 13.0 |       | \$422,505    |
|              | Williamsburg                 | 607231 | Reconstruction of High Street and Mountain Street  | 0 | 12.5 | 4.42  | \$3,600,000  |
|              | Agawam                       | 607876 | Sidewalk Construction on Route 159 From CT Line to Woodcliff Ave and From South St to River Road   | 0 | 12.5 | 2.43  | \$450,265    |
|              | Wales                        | 605669 | PEDESTRIAN ACCESS IMPROVEMENTS & RELATED WORK ON ROUTE 19  | 0 | 10.0 | 4.30  | \$312,500    |
|              | Chicopee                     | 606892 | SLOPE PROTECTION IMPROVEMENTS AT I-391 BRIDGE OVER THE CONNECTICUT RIVER   | 0 | 5.5  | 0.00  | \$282,650    |
|              | Cumington                    | 606797 | Route 9 Retaining Wall   | 0 | 4.5  | 4.4   | \$1,660,000  |
|              | Longmeadow /<br>Springfield  | 606469 | RETAINING WALL REPLACEMENT/REHABILITATION ON I-91 (SB)   | 0 |      |       | \$6,143,750  |
| 2018<br>NHPP | Chicopee/Holyoke             | 607560 | INTERSTATE MAINTENANCE & RELATED WORK ON I-391   | 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 |      | 2.88  | \$900,000    |
|              | Coshen                       | 608126 | GOSHEN- RESURFACING AND RELATED WORK ON ROUTE 9 FROM CUMMINGTON T.L. TO ROUTE 112 (CAPE STREET)  | 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 | New TEC | Old TEC | Estimated Cost |
|--------------------|--------------------|--|--------|--|--------|---------|---------|----------------|
| 2017               | 2017               | Agawam                                     | 604203 | Route 187/57 Intersection Improvements   | 0      | 58.5    | 8.73    | \$1,500,000    |
| 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    | \$2,030,278    |
| 2017 SW CMAQ       | 2016 SW CMAQ       | Chicopee                                   | 602911 | CONNECTICUT RIVERWALK & BIKEWAY CONSTRUCTION, FROM BOAT RAMP NEAR I-90 TO NASH FIELD (2.5 MILES), INCL. NEW BRIDGE OVER OVERFLOW CHANNEL   | 25     | 27.0    | 4.85    | \$3,752,740    |
| 2018               | 2018               | Chicopee                                   | 604434 | RECONSTRUCTION & RELATED WORK ON FULLER ROAD, FROM MEMORIAL DR (RTE 33) TO SHAWINGAN DR (2.0 MILES)  | 0      | 47.6    | 8.57    | \$6,210,000    |
| 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    | \$4,016,980    |
| 2019               |                    | Granby                                     | 606895 | Route 202 Intersection Improvements 2 Locations @ 5 Corners and @ School Street  | 0      | 41.5    | 6.00    | \$500,000      |
| 2019               |                    | Holyoke                                    | 606156 | RECONSTRUCTION OF I-91 INTERCHANGE 17 & ROUTE 141  | 0      | 48      | 5.45    | \$2,600,000    |
| 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    |
| 2018               | 2018               | Northampton                                | 604597 | I-91 INTERCHANGE 19 IMPROVEMENTS AT ROUTE 9 AND DAMON RD   | 25     | 61      | 7.78    | \$4,500,000    |
| 2017 SW CMAQ       | 2016 SW CMAQ       | Northampton                                | 606555 | Roundabout Construction Route 5/10 (North King Street) @ Hatfield Street   | 25     | 42.5    | 7.18    | \$2,917,000    |
| 2018               | 2017               | Northampton                                | 607502 | INTERSECTION IMPROVEMENTS AT KING STREET, NORTH STREET & SUMMER STREET AND AT KING STREET & FINN STREET  | 0      | 57      | 7.40    | \$1,633,150    |
|                    |                    | Northampton                                | 607501 | INTERSECTION IMPROVEMENTS @ NORTH ELM STREET, ELM STREET & WOODLAWN AVENUE   | 0      | 28      | 5.55    | \$1,498,520    |
|                    |                    | Northampton, Amherst, Holyoke, Springfield |        | Pioneer Valley Regional Bike Share   | 0      | 30.0    |         | \$1,152,000    |
|                    |                    | South Hadley                               | 607735 | SOUTH HADLEY-SIGNAL & INTERSECTION IMPROVEMENTS AT ROUTE 202 (GRANBY ROAD) & ROUTE 33 (LYMAN STREET)   | 0      | 33      | 6.40    | \$500,000      |
|                    |                    | Southampton                                | 607823 | 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    | \$4,198,200    |
| 2016               | 2016 CMAQ          | Springfield                                | 605385 | SIGNAL & INTERSECTION IMPROVEMENTS @ ROOSEVELT AVENUE & ISLAND POND ROAD, ROOSEVELT AVENUE & ALDEN STREET  | 25     | 62.5    | 5.47    | \$2,297,372    |
| 2016               | 2016 HPP / CMAQ    | Ware                                       | 607987 | WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH STREET   | 0      | 46.0    |         | \$1,950,000    |
| 2016               |                    | Westfield                                  | 604968 | 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)***TFPC \$2,696,193 HPP\$1,857,506 (federal) \$2,250,000 total ***** | 75     | 38.83   | 6.98    | \$446,193      |
|                    |                    | 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   | 6.58    | \$3,720,000    |
|                    |                    | Westfield                                  | 608073 | WESTFIELD RIVER LEVEE MULTI-USE PATH CONSTRUCTION, FROM CONGRESS ST TO WILLIAMS RIDING WAY (NEAR MEADOW ST) (2 MILES)  | 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 | Westfield           | 603449                       | HPP-4287  | \$2,002,950 | \$500,738   | \$2,503,688        |   |                     |
| Route 32 Ware Road Reconstruction (\$22,854,850)  | Palmer              | 601504                       | HPP-4287  | \$2,303,744 | \$575,936   | \$2,879,680        | #602844 was advertised on 9/30/06; #604443 was advertised on 8/8/09 |                     |
| Design and construction of Southwick and Westfield Rail Trail   | Southwick/Westfield | 602844;<br>604443;<br>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          | #604447 was advertised on 9/22/07                                   |                     |
| *State St. Corridor Redevelopment Project (\$18,052,897)  | Springfield         | 604447                       | HPP-217   | \$899,056   | \$224,764   | \$1,123,820        | #602338 was advertised on 12/6/2008                                 |                     |
| *Design and construct 1.5 mile Red Stone Rail Trail(\$1,112,074)  | East Longmeadow     | 602338                       | HPP-578   | \$224,764   | \$56,191    | \$280,955          | #604822 was advertised on 9/8/2007                                  |                     |
| *Intersection improvements Memorial Park II - Roosevelt Ave. (\$2,310,853)  | Springfield         | 604822                       | HPP-836   | \$149,843   | \$37,461    | \$187,304          |   |                     |
| 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                                 |                     |
| <b>Total Project Cost</b>   |                     |                              |           |             |             | <b>\$8,049,320</b> | <b>\$2,012,330</b>  | <b>\$10,061,650</b> |
| Earmarks located in Appendix Z will remain un-programmed until full project funding is available  |                     |                              |           |             |             |                    |   |                     |

Projects list 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)<br>Project List (FY2016) |                                  |                        |  |                             |               |             |     |     |     |     |             |             |
|---|----------------------------------|------------------------|--|-----------------------------|---------------|-------------|-----|-----|-----|-----|-------------|-------------|
| 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 | 114220                 | Communications Sys, Including ITS (Match for FY15) |                             | \$372,800     | \$1,208,936 | \$0 | \$0 | \$0 | \$0 | \$0         | \$1,581,736 |
|   |                                  |                        | <b>Subtotal</b>                                    |                             | \$372,800     | \$1,208,936 | \$0 | \$0 | \$0 | \$0 | \$0         | \$1,581,736 |
| 5309  |                                  |                        |  |                             | \$0           | \$0         | \$0 | \$0 | \$0 | \$0 | \$0         | \$0         |
| 5310  |                                  |                        |  |                             | \$0           | \$0         | \$0 | \$0 | \$0 | \$0 | \$0         | \$0         |
| 5311  |                                  |                        |  |                             | \$0           | \$0         | \$0 | \$0 | \$0 | \$0 | \$0         | \$0         |
| 5337  |                                  |                        |  |                             | \$0           | \$0         | \$0 | \$0 | \$0 | \$0 | \$0         | \$0         |
| 5339  |                                  |                        |  |                             | \$0           | \$0         | \$0 | \$0 | \$0 | \$0 | \$0         | \$0         |
| 5339  | Pioneer Valley Transit Authority | 114220                 | Communications Sys, Including ITS (Match for FY15) |                             | \$12,055      | \$3,014     | \$0 | \$0 | \$0 | \$0 | \$0         | \$15,069    |
|   |                                  |                        | <b>Subtotal</b>                                    |                             | \$12,055      | \$3,014     | \$0 | \$0 | \$0 | \$0 | \$0         | \$15,069    |
| 5320  |                                  |                        |  |                             | \$0           | \$0         | \$0 | \$0 | \$0 | \$0 | \$0         | \$0         |
|   |                                  |                        | <b>Subtotal</b>                                    |                             | \$0           | \$0         | \$0 | \$0 | \$0 | \$0 | \$0         | \$0         |
|   |                                  |                        | <b>Subtotal</b>                                    |                             | \$0           | \$0         | \$0 | \$0 | \$0 | \$0 | \$0         | \$0         |
|   |                                  |                        | <b>Other Federal</b>                               |                             | \$0           | \$0         | \$0 | \$0 | \$0 | \$0 | \$0         | \$0         |
|   |                                  |                        | <b>Other Non-Federal</b>                           |                             | \$0           | \$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 Emmts: 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 | Pioneer Valley Transit Authority | 119308 | Transit Emmts: Signs/Lighting (Match for FY15)    | \$0             | \$20,000    | \$0         | \$0 | \$0       | \$0       | \$0 | \$0 | \$20,000     |
| Other Non-Federal | Pioneer Valley Transit Authority | 117A00 | Preventive Maintenance (Match for FY15)           | \$0             | \$0         | \$0         | \$0 | \$425,895 | \$0       | \$0 | \$0 | \$425,895    |
| Other Non-Federal | Pioneer Valley Transit Authority | 117C00 | NON FIXED ROUTE ADA PARA SERV - (Match for FY15)  | \$0             | \$0         | \$0         | \$0 | \$298,853 | \$0       | \$0 | \$0 | \$298,853    |
| Other Non-Federal | Pioneer Valley Transit Authority | 114211 | ACQUIRE - SUPPORT VEHICLES, (1) (Match for FY15)  | \$0             | \$20,000    | \$0         | \$0 | \$0       | \$0       | \$0 | \$0 | \$20,000     |
| Other Non-Federal | Pioneer Valley Transit Authority | 114402 | Environmental Compliance (Match for FY15)         | \$0             | \$20,000    | \$0         | \$0 | \$0       | \$0       | \$0 | \$0 | \$20,000     |
| Other Non-Federal | Pioneer Valley Transit Authority | 114303 | CONSTRUCT - Springfield O& M FACILITY             | \$0             | \$3,150,000 | \$0         | \$0 | \$0       | \$0       | \$0 | \$0 | \$3,150,000  |
| Other Non-Federal | Pioneer Valley Transit Authority | 111301 | BUY 40-FT BUS FOR EXPANSION (4) - Match for FY 15 | \$0             | \$395,640   | \$0         | \$0 | \$0       | \$0       | \$0 | \$0 | \$395,640    |
| Other Non-Federal | Pioneer Valley Transit Authority | 111201 | BUY REPLACEMENT 40-FT BUS (6) Match for FY 15     | \$0             | \$593,460   | \$0         | \$0 | \$0       | \$0       | \$0 | \$0 | \$593,460    |
| Other Non-Federal | Pioneer Valley Transit Authority | 111202 | BUY REPLACEMENT 35-FT BUS (5) - Match for FY15    | \$0             | \$489,549   | \$0         | \$0 | \$0       | \$0       | \$0 | \$0 | \$489,549    |
| Other Non-Federal | Pioneer Valley Transit Authority | 442301 | Planning (Match for FY15)                         | \$0             | \$0         | \$0         | \$0 | \$54,000  | \$0       | \$0 | \$0 | \$54,000     |
| Other Non-Federal | Pioneer Valley Transit Authority | 111301 | BUY 40-FT BUS FOR EXPANSION (2) (Match for FY15)  | \$0             | \$203,195   | \$0         | \$0 | \$0       | \$0       | \$0 | \$0 | \$203,195    |
| Other Non-Federal | Pioneer Valley Transit Authority | 111216 | BUY REPL SEDAN/STA WGN (3) (Match for FY15)       | \$0             | \$16,800    | \$0         | \$0 | \$0       | \$0       | \$0 | \$0 | \$16,800     |
| Other Non-Federal | Pioneer Valley Transit Authority | 113303 | TERMINAL, INTERMODAL (TRANSIT) - WESTFIELD        | \$0             | \$154,063   | \$0         | \$0 | \$0       | \$0       | \$0 | \$0 | \$154,063    |
| Other Non-Federal | Pioneer Valley Transit Authority | 114402 | REHAB/RENOVATE - SATCO MAINTENANCE FACILITY       | \$0             | \$175,000   | \$0         | \$0 | \$0       | \$0       | \$0 | \$0 | \$175,000    |
| Other Non-Federal | Pioneer Valley Transit Authority | 114402 | Rehab/Renovations: Northampton (Match for FY15)   | \$0             | \$5,000     | \$0         | \$0 | \$0       | \$0       | \$0 | \$0 | \$5,000      |
| Other Non-Federal | Pioneer Valley Transit Authority | 111301 | BUY 40-FT BUS FOR EXPANSION (2) (Match for FY15)  | \$0             | \$196,805   | \$0         | \$0 | \$0       | \$0       | \$0 | \$0 | \$196,805    |
|                   |                                  |        |   | <b>Subtotal</b> | \$384,855   | \$9,565,162 | \$0 | \$0       | \$778,748 | \$0 | \$0 | \$9,131,960  |
|                   |                                  |        |   | <b>Total</b>    | \$384,855   | \$9,565,162 | \$0 | \$0       | \$778,748 | \$0 | \$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          |
|-----------------|----------------------------------|------------------------|---|-----------------------------|---------------------|--------------------|------------|------------|------------|------------------|-------------|---------------------|
|                 |                                  |                        |   |                             |                     |                    |            |            |            |                  |             |                     |
| 5307            | Pioneer Valley Transit Authority | 114406                 | Purchase/Renovate Shop Equipment                  | 2016                        | \$80,000            | \$20,000           | \$0        | \$0        | \$0        | \$0              | \$0         | \$100,000           |
| 5307            | Pioneer Valley Transit Authority | 119302                 | Transit Enhancements: Shelters, benches, etc.     | 2016                        | \$60,000            | \$15,000           | \$0        | \$0        | \$0        | \$0              | \$0         | \$75,000            |
| 5307            | Pioneer Valley Transit Authority | 119308                 | Transit Enhancements: Signs/Lighting              | 2016                        | \$8,000             | \$2,000            | \$0        | \$0        | \$0        | \$0              | \$0         | \$10,000            |
| 5307            | Pioneer Valley Transit Authority | 114220                 | Rehab/Renovation: Communications Systems (ITS)    | 2016                        | \$3,000,785         | \$1,164,877        | \$0        | \$0        | \$0        | \$0              | \$0         | \$4,165,662         |
| 5307            | Pioneer Valley Transit Authority | 442301                 | Planning  | 2016                        | \$236,000           | \$0                | \$0        | \$0        | \$0        | \$59,000         | \$0         | \$295,000           |
| 5307            | Pioneer Valley Transit Authority | 117C00                 | ADA Operating Projects                            | 2016                        | \$1,207,364         | \$0                | \$0        | \$0        | \$0        | \$301,841        | \$0         | \$1,509,205         |
| 5307            | Pioneer Valley Transit Authority | 117A00                 | Preventive Maintenance                            | 2016                        | \$2,500,000         | \$0                | \$0        | \$0        | \$0        | \$625,000        | \$0         | \$3,125,000         |
| 5307            | Pioneer Valley Transit Authority | 111304                 | BUY <30-FT BUS FOR EXPANSION                      | 2016                        | \$456,000           | \$114,000          | \$0        | \$0        | \$0        | \$0              | \$0         | \$570,000           |
| 5307            | Pioneer Valley Transit Authority | 111216                 | BUY REPL SEDAN/STATION WAGON, (8)                 | 2016                        | \$192,000           | \$48,000           | \$0        | \$0        | \$0        | \$0              | \$0         | \$240,000           |
| 5307            | Pioneer Valley Transit Authority | 114402                 | REHAB/RENOVATE - Environmental Compliance         | 2016                        | \$120,000           | \$30,000           | \$0        | \$0        | \$0        | \$0              | \$0         | \$150,000           |
| 5307            | Pioneer Valley Transit Authority | 119306                 | CONSTRUCT BICYCLE ACCESS, FACIL & EQUIP ON BUSES  | 2016                        | \$6,400             | \$1,600            | \$0        | \$0        | \$0        | \$0              | \$0         | \$8,000             |
| 5307            | Pioneer Valley Transit Authority | 114402                 | REHAB/RENOVATE - MAINTENANCE FACILITY, SATCO      | 2016                        | \$480,000           | \$120,000          | \$0        | \$0        | \$0        | \$0              | \$0         | \$600,000           |
| 5307            | Pioneer Valley Transit Authority | 113303                 | TERMINAL, INTERMODAL (TRANSIT), Northampton, YR 1 | 2016                        | \$120,000           | \$30,000           | \$0        | \$0        | \$0        | \$0              | \$0         | \$150,000           |
| 5307            | Pioneer Valley Transit Authority | 111306                 | Purchase - Expansion: Buses (8)                   | 2016                        | \$3,296,000         | \$824,000          | \$0        | \$0        | \$0        | \$0              | \$0         | \$4,120,000         |
| 5307            | Pioneer Valley Transit Authority | 111216                 | BUY REPL SEDAN/Vans (non accessible) (5)          | 2016                        | \$112,000           | \$28,000           | \$0        | \$0        | \$0        | \$0              | \$0         | \$140,000           |
| <b>Subtotal</b> |                                  |                        |   |                             | <b>\$11,874,549</b> | <b>\$2,397,477</b> | <b>\$0</b> | <b>\$0</b> | <b>\$0</b> | <b>\$985,841</b> | <b>\$0</b>  | <b>\$15,257,867</b> |



**Table 13: FFY 2018 Transit Project Information**

| FTA Program | Transit Agency                   | FTA Activity Line Item | Project Description   | Carryover or Earmark Detail |             |     |     |     | Local Funds | Total Cost |              |
|-------------|----------------------------------|------------------------|---|-----------------------------|-------------|-----|-----|-----|-------------|------------|--------------|
|             |                                  |                        |   | Federal Funds               | RTACAP      | MAP | ICB | TDC |             |            | SCA          |
| 5307        | Pioneer Valley Transit Authority | 117A00                 | Preventive Maintenance  | \$0                         | \$0         | \$0 | \$0 | \$0 | \$625,000   | \$0        | \$3,125,000  |
| 5307        | Pioneer Valley Transit Authority | 117C00                 | ADA Operating Projects  | \$1,219,438                 | \$0         | \$0 | \$0 | \$0 | \$304,859   | \$0        | \$1,524,297  |
| 5307        | Pioneer Valley Transit Authority | 442301                 | Planning  | \$236,000                   | \$0         | \$0 | \$0 | \$0 | \$59,000    | \$0        | \$295,000    |
| 5307        | Pioneer Valley Transit Authority | 114406                 | Rehab/Renovation: Shop Equipment  | \$600,000                   | \$150,000   | \$0 | \$0 | \$0 | \$0         | \$0        | \$750,000    |
| 5307        | Pioneer Valley Transit Authority | 119302                 | Transit Enhancements: Shelters  | \$6,443                     | \$68,557    | \$0 | \$0 | \$0 | \$0         | \$0        | \$75,000     |
| 5307        | Pioneer Valley Transit Authority | 119308                 | Transit Enhancements: Signs/Lighting  | \$12,000                    | \$3,000     | \$0 | \$0 | \$0 | \$0         | \$0        | \$15,000     |
| 5307        | Pioneer Valley Transit Authority | 114220                 | Misc. Communications Systems and ITS  | \$3,129,215                 | \$782,304   | \$0 | \$0 | \$0 | \$0         | \$0        | \$3,911,519  |
| 5307        | Pioneer Valley Transit Authority | 111216                 | BUY REPLSE DAN/STATION WAGON, (6) REHAB/RENOVATE - Environmental Compliance | \$144,000                   | \$36,000    | \$0 | \$0 | \$0 | \$0         | \$0        | \$180,000    |
| 5307        | Pioneer Valley Transit Authority | 114402                 | CONSTRUCT BICYCLE ACCESS, FACIL & EQUIP ON BUSES                            | \$88,000                    | \$22,000    | \$0 | \$0 | \$0 | \$0         | \$0        | \$110,000    |
| 5307        | Pioneer Valley Transit Authority | 119306                 | TERMINAL, INTERMODAL (TRANSIT), Northampton, Yr 2                           | \$9,600                     | \$2,400     | \$0 | \$0 | \$0 | \$0         | \$0        | \$12,000     |
| 5307        | Pioneer Valley Transit Authority | 113303                 | BUY REPLACEMENT 40-FT BUS (10)  | \$640,000                   | \$160,000   | \$0 | \$0 | \$0 | \$0         | \$0        | \$800,000    |
| 5307        | Pioneer Valley Transit Authority | 111201                 | BUY <30-FT BUS FOR EXPANSION (2)  | \$3,029,003                 | \$757,250   | \$0 | \$0 | \$0 | \$0         | \$0        | \$3,786,253  |
| 5307        | Pioneer Valley Transit Authority | 111304                 | Subtotal  | \$11,765,699                | \$2,019,511 | \$0 | \$0 | \$0 | \$988,859   | \$0        | \$14,774,069 |

**Table 13: FFY 2018 Transit Project Information (Continued)**

|             |                                  |        |  |              |              |     |     |     |           |     |     |     |              |
|-------------|----------------------------------|--------|--|--------------|--------------|-----|-----|-----|-----------|-----|-----|-----|--------------|
| <b>5309</b> |                                  |        | <b>Subtotal</b>                            | \$0          | \$0          | \$0 | \$0 | \$0 | \$0       | \$0 | \$0 | \$0 | \$0          |
| <b>5310</b> |                                  |        | <b>Subtotal</b>                            | \$0          | \$0          | \$0 | \$0 | \$0 | \$0       | \$0 | \$0 | \$0 | \$0          |
| <b>5311</b> |                                  |        | <b>Subtotal</b>                            | \$0          | \$0          | \$0 | \$0 | \$0 | \$0       | \$0 | \$0 | \$0 | \$0          |
| <b>5337</b> |                                  |        | <b>Subtotal</b>                            | \$0          | \$0          | \$0 | \$0 | \$0 | \$0       | \$0 | \$0 | \$0 | \$0          |
| <b>5339</b> |                                  |        | <b>Subtotal</b>                            | \$0          | \$0          | \$0 | \$0 | \$0 | \$0       | \$0 | \$0 | \$0 | \$0          |
|             | Pioneer Valley Transit Authority | 111201 | BUY REPLACEMENT 40-FT BUS                  | \$829,117    | \$207,280    | \$0 | \$0 | \$0 | \$0       | \$0 | \$0 | \$0 | \$1,036,397  |
| <b>5320</b> |                                  |        | <b>Subtotal</b>                            | \$829,117    | \$207,280    | \$0 | \$0 | \$0 | \$0       | \$0 | \$0 | \$0 | \$1,036,397  |
|             | <b>Other Federal</b>             |        | <b>Subtotal</b>                            | \$0          | \$0          | \$0 | \$0 | \$0 | \$0       | \$0 | \$0 | \$0 | \$0          |
|             | <b>Other Non-Federal</b>         |        | <b>Subtotal</b>                            | \$0          | \$0          | \$0 | \$0 | \$0 | \$0       | \$0 | \$0 | \$0 | \$0          |
| Other       |                                  |        |  |              |              |     |     |     |           |     |     |     |              |
| Non-Federal | Pioneer Valley Transit Authority | 111216 | Purchase - Replacement: Vans (20)          | \$0          | \$1,827,000  | \$0 | \$0 | \$0 | \$0       | \$0 | \$0 | \$0 | \$1,827,000  |
| Other       |                                  |        |  |              |              |     |     |     |           |     |     |     |              |
| Non-Federal | Pioneer Valley Transit Authority | 114211 | ACQUIRE - SUPPORT VEHICLES, (5)            | \$0          | \$420,000    | \$0 | \$0 | \$0 | \$0       | \$0 | \$0 | \$0 | \$420,000    |
| Other       |                                  |        |  |              |              |     |     |     |           |     |     |     |              |
| Non-Federal | Pioneer Valley Transit Authority | 114302 | CONSTRUCT: MAINT FACILITY, Spfid.O&M, Yr-4 | \$0          | \$24,100,000 | \$0 | \$0 | \$0 | \$0       | \$0 | \$0 | \$0 | \$24,100,000 |
| Other       |                                  |        |  |              |              |     |     |     |           |     |     |     |              |
| Non-Federal | Pioneer Valley Transit Authority | 111202 | BUY REPLACEMENT 35-FT BUS (8)              | \$0          | \$3,710,000  | \$0 | \$0 | \$0 | \$0       | \$0 | \$0 | \$0 | \$3,710,000  |
| Other       |                                  |        |  |              |              |     |     |     |           |     |     |     |              |
| Non-Federal | Pioneer Valley Transit Authority | 111203 | BUY REPLACEMENT 30-FT BUS (9)              | \$0          | \$3,675,000  | \$0 | \$0 | \$0 | \$0       | \$0 | \$0 | \$0 | \$3,675,000  |
|             |                                  |        | <b>Subtotal</b>                            | \$0          | \$33,732,000 | \$0 | \$0 | \$0 | \$0       | \$0 | \$0 | \$0 | \$33,732,000 |
|             |                                  |        | <b>Total</b>                               | \$12,594,816 | \$35,958,791 | \$0 | \$0 | \$0 | \$988,859 | \$0 | \$0 | \$0 | \$49,542,466 |

**Table 14: FFY 2019 Transit Project Information**

| FTA Program     | Transit Agency                   | FTA Activity Line Item | Project Description                              | Earmark Detail | Federal Funds       | RTACAP             | MAP        | ICB        | TDC        | SCA              | Local Funds | Total Cost          |
|-----------------|----------------------------------|------------------------|--|----------------|---------------------|--------------------|------------|------------|------------|------------------|-------------|---------------------|
| 5307            | Pioneer Valley Transit Authority | 111306                 | BUY ARTIC BUS FOR EXPANSION (8)                  | 2018           | \$782,701           | \$2,706,487        | \$0        | \$0        | \$0        | \$0              | \$0         | \$3,489,188         |
| 5307            | Pioneer Valley Transit Authority | 111215                 | BUY REPLACEMENT VAN (20)                         | 2018           | \$1,672,000         | \$418,000          | \$0        | \$0        | \$0        | \$0              | \$0         | \$2,090,000         |
| 5307            | Pioneer Valley Transit Authority | 114211                 | ACQUIRE - SUPPORT VEHICLES, (1)                  | 2018           | \$60,000            | \$15,000           | \$0        | \$0        | \$0        | \$0              | \$0         | \$75,000            |
| 5307            | Pioneer Valley Transit Authority | 111216                 | BUY REPL SEDAN/STATION WAGON, (10)               | 2018           | \$240,000           | \$60,000           | \$0        | \$0        | \$0        | \$0              | \$0         | \$300,000           |
| 5307            | Pioneer Valley Transit Authority | 114406                 | REHAB/RENOVATE - SHOP EQUIPMENT                  | 2018           | \$240,000           | \$60,000           | \$0        | \$0        | \$0        | \$0              | \$0         | \$300,000           |
| 5307            | Pioneer Valley Transit Authority | 114402                 | REHAB/RENOVATE - Environmental Compliance        | 2018           | \$88,000            | \$22,000           | \$0        | \$0        | \$0        | \$0              | \$0         | \$110,000           |
| 5307            | Pioneer Valley Transit Authority | 119302                 | CONSTRUCTION - BUS SHELTERS                      | 2018           | \$60,000            | \$15,000           | \$0        | \$0        | \$0        | \$0              | \$0         | \$75,000            |
| 5307            | Pioneer Valley Transit Authority | 119308                 | CONSTRUCT SIGNAGE                                | 2018           | \$40,000            | \$10,000           | \$0        | \$0        | \$0        | \$0              | \$0         | \$50,000            |
| 5307            | Pioneer Valley Transit Authority | 119306                 | CONSTRUCT BICYCLE ACCESS, FACIL & EQUIP ON BUSES | 2018           | \$4,800             | \$1,200            | \$0        | \$0        | \$0        | \$0              | \$0         | \$6,000             |
| 5307            | Pioneer Valley Transit Authority | 116220                 | PURCHASE MISC COMMUNICATIONS EQUIP, IT systems   | 2018           | \$2,975,797         | \$743,949          | \$0        | \$0        | \$0        | \$0              | \$0         | \$3,719,746         |
| 5307            | Pioneer Valley Transit Authority | 442400                 | SHORT RANGE TRANSIT PLANNING                     | 2018           | \$232,000           | \$0                | \$0        | \$0        | \$0        | \$58,000         | \$0         | \$290,000           |
| 5307            | Pioneer Valley Transit Authority | 117C00                 | NON FIXED ROUTE ADA PARA SERV                    | 2018           | \$1,231,632         | \$0                | \$0        | \$0        | \$0        | \$307,908        | \$0         | \$1,539,540         |
| 5307            | Pioneer Valley Transit Authority | 117A00                 | PREVENTIVE MAINTENANCE                           | 2018           | \$2,500,000         | \$0                | \$0        | \$0        | \$0        | \$625,000        | \$0         | \$3,125,000         |
| <b>Subtotal</b> |                                  |                        |  |                | <b>\$10,126,930</b> | <b>\$4,051,636</b> | <b>\$0</b> | <b>\$0</b> | <b>\$0</b> | <b>\$990,908</b> | <b>\$0</b>  | <b>\$15,169,474</b> |

**Table 14: FFY 2019 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 Authority |   |          |              |             |          |     |     |           |     |     |     |     |              |
|      |  | 111301                           | BUY 40-FT BUS FOR EXPANSION (7)               | 2018     | \$3,026,800  | \$756,700   | \$0      | \$0 | \$0 | \$0       | \$0 | \$0 | \$0 | \$0 | \$3,783,500  |
|      |  |                                  |   | Subtotal | \$3,026,800  | \$756,700   | \$0      | \$0 | \$0 | \$0       | \$0 | \$0 | \$0 | \$0 | \$3,783,500  |
| 5320 |  |                                  |   |          |              |             | Subtotal | \$0 | \$0 | \$0       | \$0 | \$0 | \$0 | \$0 | \$0          |
|      |  | <b>Other Federal</b>             |   |          |              |             | Subtotal | \$0 | \$0 | \$0       | \$0 | \$0 | \$0 | \$0 | \$0          |
|      |  | <b>Other Non-Federal</b>         |   |          |              |             | Subtotal | \$0 | \$0 | \$0       | \$0 | \$0 | \$0 | \$0 | \$0          |
|      |  | Other Non-Federal                |   |          |              |             |          |     |     |           |     |     |     |     |              |
|      |  | 114403                           | REHAB/RENOVATE - Holyoke ADMIN/MAINT FACILITY |          | \$0          | \$250,000   | \$0      | \$0 | \$0 | \$0       | \$0 | \$0 | \$0 | \$0 | \$250,000    |
|      |  |                                  |   | Subtotal | \$0          | \$250,000   | \$0      | \$0 | \$0 | \$0       | \$0 | \$0 | \$0 | \$0 | \$250,000    |
|      |  |                                  |   | Total    | \$13,153,730 | \$5,058,336 | \$0      | \$0 | \$0 | \$990,908 | \$0 | \$0 | \$0 | \$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

### Americans with Disabilities Act and Stormwater Programs

| MassDOT Project ID  | MPO       | MassDOT Project Description                    | MassDOT District | Funding Source | Total Programmed Funds | Federal Funds | Non-Federal Funds |
|---|-----------|--|------------------|----------------|------------------------|---------------|-------------------|
| <b>► Section 1D / Federal Aid Major &amp; State Category Projects</b> |           |  |                  |                |                        |               |                   |
| <b>► Statewide ADA Retrofits Program</b>                              |           |  |                  |                |                        |               |                   |
| 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

### Americans with Disabilities Act and Stormwater Programs

| MassDOT Project ID  | MPO       | MassDOT Project Description                    | MassDOT District | Funding Source | Total Programmed Funds YOY | Federal Funds | Non-Federal Funds |
|---|-----------|--|------------------|----------------|----------------------------|---------------|-------------------|
| <b>► Section 1D / Federal Aid Major &amp; State Category Projects</b> |           |  |                  |                |                            |               |                   |
| <b>► Statewide ADA Retrofits Program</b>                              |           |  |                  |                |                            |               |                   |
| 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

### Americans with Disabilities Act and Stormwater Programs

| MassDOT Project ID  | MPO       | MassDOT Project Description                    | MassDOT District | Funding Source | Total Programmed Funds YOY | Federal Funds | Non-Federal Funds |
|---|-----------|--|------------------|----------------|----------------------------|---------------|-------------------|
| <b>► Section 1D / Federal Aid Major &amp; State Category Projects</b> |           |  |                  |                |                            |               |                   |
| <b>► Statewide ADA Retrofits Program</b>                              |           |  |                  |                |                            |               |                   |
| 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 ▼ |
|----------------------|-------|-------------------------------|--------------------|------------------|--------------------------|-----------------|---------------------|
|----------------------|-------|-------------------------------|--------------------|------------------|--------------------------|-----------------|---------------------|

### ► 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 EXT 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

### Highway Safety Improvement Program

| MassDOT Project ID ▼  | MPO ▼          | MassDOT Project Description ▼  | MassDOT District ▼ | Funding Source ▼ | Total Programmed Funds ▼ | Federal Funds ▼ | Non-Federal Funds ▼ |
|---|----------------|--|--------------------|------------------|--------------------------|-----------------|---------------------|
| <b>► Section 1D / Federal Aid Major &amp; State Category Projects</b> |                |  |                    |                  |                          |                 |                     |
| <b>► Statewide Highway Safety Improvement Program</b>                 |                |  |                    |                  |                          |                 |                     |
| 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   | MassDOT District | Funding Source | Total Programmed Funds | Federal Funds | Non-Federal Funds |
|---|--------------|---|------------------|----------------|------------------------|---------------|-------------------|
| <b>► Section 1D / Federal Aid Major &amp; State Category Projects</b> |              |   |                  |                |                        |               |                   |
| <b>► Statewide Highway Safety Improvement Program</b>                 |              |   |                  |                |                        |               |                   |
| 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    | ATTLEBORO 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       | SWAMPSCOTT- INTERSECTION & SIGNAL IMPROVEMENTS AT SR 1A (PARADISE ROAD) AT SWAMPSCOTT 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

## 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  | 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   | MERRIMAC K VALLEY | HAVERHILL- MERRIMAC- AMESBURY- TRAFFIC & GUIDE SIGN REPLACEMENT ON A SECTION OF I-495   | 4                  | HSIP             | \$ 2,100,000             | \$ 1,890,000    | \$ 210,000          |
| 608206   | BOSTON            | CHELSEA TO DANVERS - GUIDE AND TRAFFIC SIGN REPLACEMENT ON A SECTION OF US ROUTE 1  | 4                  | HSIP             | \$ 5,900,000             | \$ 5,310,000    | \$ 590,000          |
| 607756   | 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           |
| 607757   | 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 ATHONTON 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

## Interstate Maintenance and National Highway System Pr

| MassDOT Project ID  | IPO                | MassDOT Project Description  | MassDOT District | Funding Source | Total Programmed Funds | Federal Funds | Non-Federal Funds |
|---|--------------------|--|------------------|----------------|------------------------|---------------|-------------------|
| <b>► Section 1D / Federal Aid Major &amp; State Category Projects</b> |                    |  |                  |                |                        |               |                   |
| <b>► IM - Interstate Maintenance</b>                                  |                    |  |                  |                |                        |               |                   |
| 606577  | STATEWIDE          | HATFIELD- NORTHAMPTON- WHATLEY- 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  | SOUTHEAST ERN 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      |

|  |                   |   |   |      |                |               |               |
|--|-------------------|---|---|------|----------------|---------------|---------------|
| <b>► NHS - National Highway System</b> |                   |   |   |      |                |               |               |
| 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                                 | MERRIMAC K 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 |

# 2017

## Statewide Transportation Improvement Program

### Interstate Maintenance and National Highway System Pr

| MassDOT Project ID  | MPO               | MassDOT Project Description   | MassDOT District | Funding Source | Total Programmed Funds | Federal Funds | Non-Federal Funds |              |
|---|-------------------|---|------------------|----------------|------------------------|---------------|-------------------|--------------|
| <b>► Section 1D / Federal Aid Major &amp; State Category Projects</b> |                   |   |                  |                |                        |               |                   |              |
| <b>► IM - Interstate Maintenance</b>                                  |                   |   |                  |                |                        |               |                   |              |
| 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-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      |              |
|   |                   |   |                  |                | IM Subtotal            | \$ 70,862,332 | \$ 63,776,099     | \$ 7,086,233 |

### ► NHS - National Highway System

|        |                    |   |   |      |               |               |               |              |
|--------|--------------------|---|---|------|---------------|---------------|---------------|--------------|
| 607988 | STATEWIDE          | KINGSTON DUXBURY MARSHFIELD - 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 | \$ 8,657,417 |

Fiscal Constraint Analysis performed using Federal Funds amounts

IM + NHS \$ 98,405,769

# 2018

## Statewide Transportation Improvement Program

### Interstate Maintenance and National Highway System Pr

| 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 |                    |  |   |      |               |               |               |              |
|-------------------------------|--------------------|--|---|------|---------------|---------------|---------------|--------------|
| 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                        | SOUTHEAS TERN MASS | WAREHAM- ROCHESTER- MIDDLEBORO- INTERSTATE MAINTENANCE & RELATED WORK ON I-495 | 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                        | SOUTHEAS TERN MASS | SEEKONK- REHOBOTH- INTERSTATE MAINTENANCE & RELATED WORK ON I-195              | 5 | NHPP | \$ 10,959,840 | \$ 9,863,856  | \$ 1,095,984  |              |
|                               |                    |  |   |      | IM Subtotal ► | \$ 70,822,486 | \$ 63,740,237 | \$ 7,082,249 |

#### ► 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 |

Fiscal Constraint Analysis performed using Federal Funds amounts

IM + NHS \$ 91,324,371

# 2019 Statewide Transportation Improvement Program

## Interstate Maintenance and National Highway System Pr

| MassDOT Project ID ▼  | MPO ▼             | MassDOT Project Description ▼  | MassDOT District ▼ | Funding Source ▼ | Total Programmed Funds ▼ | Federal Funds ▼ | Non-Federal Funds ▼ |
|---|-------------------|--|--------------------|------------------|--------------------------|-----------------|---------------------|
| <b>► Section 1D / Federal Aid Major &amp; State Category Projects</b> |                   |  |                    |                  |                          |                 |                     |
| <b>► IM - Interstate Maintenance</b>                                  |                   |  |                    |                  |                          |                 |                     |
| 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    | CHICOPEE-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        |
| <b>► NHS - National Highway System</b>                                |                   |  |                    |                  |                          |                 |                     |
| 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

## Interstate Maintenance and National Highway System Pr

| MassDOT Project ID  | MPO                | MassDOT Project Description  | MassDOT District | Funding Source | Total Programmed Funds | Federal Funds | Non-Federal Funds |
|---|--------------------|--|------------------|----------------|------------------------|---------------|-------------------|
| <b>► Section 1D / Federal Aid Major &amp; State Category Projects</b> |                    |  |                  |                |                        |               |                   |
| <b>► IM - Interstate Maintenance</b>                                  |                    |  |                  |                |                        |               |                   |
| 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  | SOUTHEAST ERN 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.I. TO WHITE BAGLEY ROAD | 3 | NHPP | \$ 3,791,340   | \$ 3,033,072  | \$ 758,268    |
| 607476        | MERRIMAC K 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 |

Fiscal Constraint Analysis performed using Federal Funds amounts

IM + NHS \$ 89,536,583

### Interstate Maintenance and National Highway System Pr

| MassDOT Project ID  | MPO                | MassDOT Project Description   | MassDOT District | Funding Source | Total Programmed Funds | Federal Funds | Non-Federal Funds |              |
|---|--------------------|---|------------------|----------------|------------------------|---------------|-------------------|--------------|
| <b>► Section 1D / Federal Aid Major &amp; State Category Projects</b> |                    |   |                  |                |                        |               |                   |              |
| <b>► IM - Interstate Maintenance</b>                                  |                    |   |                  |                |                        |               |                   |              |
| 607478  | FRANKLIN           | DEERFIELD - GREENFIELD - WHATLEY - 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-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      |              |
|   |                    |   |                  |                | IM Subtotal            | \$ 70,862,332 | \$ 63,776,099     | \$ 7,086,233 |
| <b>► NHS - National Highway System</b>                                |                    |   |                  |                |                        |               |                   |              |
| 607988  | STATEWIDE          | KINGSTON DUXBURY MARSHFIELD - 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     | \$ 8,657,417 |

Fiscal Constraint Analysis performed using Federal Funds amounts

IM + NHS \$ 98,405,769

# 2018 Statewide Transportation Improvement Program

## Interstate Maintenance and National Highway System Pro

| 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

|        |                    |  |   |      |               |               |               |              |
|--------|--------------------|--|---|------|---------------|---------------|---------------|--------------|
| 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 | SOUTHEAS TERN MASS | WAREHAM- ROCHESTER- MIDDLEBORO- INTERSTATE MAINTENANCE & RELATED WORK ON I-495 | 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 | SOUTHEAS TERN MASS | SEEKONK- REHOBOTH- INTERSTATE MAINTENANCE & RELATED WORK ON I-195              | 5 | NHPP | \$ 10,959,840 | \$ 9,863,856  | \$ 1,095,984  |              |
|        |                    |  |   |      | IM Subtotal   | \$ 70,822,486 | \$ 63,740,237 | \$ 7,082,249 |

#### 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 |

Fiscal Constraint Analysis performed using Federal Funds amounts

IM + NHS \$ 91,324,371

# 2019

## Statewide Transportation Improvement Program

### Interstate Maintenance and National Highway System Pr

| MassDOT Project ID ▼  | MPO ▼             | MassDOT Project Description ▼  | MassDOT District ▼ | Funding Source ▼ | Total Programmed Funds ▼ | Federal Funds ▼ | Non-Federal Funds ▼ |              |
|---|-------------------|--|--------------------|------------------|--------------------------|-----------------|---------------------|--------------|
| <b>► Section 1D / Federal Aid Major &amp; State Category Projects</b> |                   |  |                    |                  |                          |                 |                     |              |
| <b>► IM - Interstate Maintenance</b>                                  |                   |  |                    |                  |                          |                 |                     |              |
| 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    | CHICOPEE-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 |
| <b>► NHS - National Highway System</b>                                |                   |  |                    |                  |                          |                 |                     |              |
| 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

### Intelligent Transportation Systems

| 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 Intelligent Transportation Systems

|                                |           |  |    |      |                |              |              |
|--------------------------------|-----------|--|----|------|----------------|--------------|--------------|
| 607424                         | Statewide | STATEWIDE- ITS ADVANCED TRANSPORTATION MANAGEMENT SYSTEM (ATMS) SOFTWARE               | SW | CMAQ | \$ 731,000     | \$ 584,800   | \$ 146,200   |
| 607483                         | Statewide | DISTRICT 5- ITS CAMERA & VMS CONSTRUCTION ON ROUTE 24, FROM RANDOLPH TO FALL RIVER (39 | SW | CMAQ | \$ 3,778,000   | \$ 3,022,400 | \$ 755,600   |
| 607484                         | Statewide | DISTRICT 3- INSTALLATION OF CCTV CAMERAS AND VMS ON I-290 BETWEEN I-495 AND I-90       | SW | CMAQ | \$ 4,040,000   | \$ 3,232,000 | \$ 808,000   |
| 607482                         | Statewide | DISTRICT 5&6- ITS CONSTRUCTION ON ROUTE 3, FROM BRAINTREE TO PLYMOUTH (42 MILES)       | SW | CMAQ | \$ 87,000      | \$ 69,600    | \$ 17,400    |
| 606927                         | Statewide | STATEWIDE- REPLACEMENT OF VARIABLE MESSAGE SIGNS (VMS)                                 | SW | CMAQ | \$ 3,464,000   | \$ 2,771,200 | \$ 692,800   |
| Statewide ITS Capital Subtotal |           |  |    |      | \$ 12,100,000  | \$ 9,680,000 | \$ 2,420,000 |
|                                |           |  |    |      | Fed Aid Target | \$ 9,680,000 |              |
|                                |           |  |    |      | Difference     | \$ -         |              |
|                                |           |  |    |      | Constrained?   | Yes          |              |

|                                   |           |  |    |     |                |            |            |
|-----------------------------------|-----------|--|----|-----|----------------|------------|------------|
| 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     | \$ 800,000 |            |
|                                   |           |  |    |     | Constrained?   | Yes        |            |

# 2017 Statewide Transportation Improvement Program

## Intelligent Transportation Systems

| 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

## Intelligent Transportation Systems

| 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

### Intelligent Transportation Systems

| MassDOT Project ID ▼ | MPO ▼ | MassDOT Project Description ▼ | MassDOT District ▼ | Funding Source ▼ | Total Programmed Funds with 12% adjustment for inflation ▼ | Federal Funds ▼ | Non-Federal Funds ▼ |
|----------------------|-------|-------------------------------|--------------------|------------------|--|-----------------|---------------------|
|----------------------|-------|-------------------------------|--------------------|------------------|--|-----------------|---------------------|

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

#### ► Statewide Intelligent Transportation Systems

|                                  |           |   |    |      |               |               |              |
|----------------------------------|-----------|---|----|------|---------------|---------------|--------------|
| 607487                           | Statewide | STATEWIDE ITS EXPANSION                                 | SW | CMAQ | \$ 19,375,000 | \$ 15,500,000 | \$ 3,875,000 |
| 608141                           | Statewide | DISTRICT 4 & 6 ITS I-95 SALISBURY TO PEABODY RT1 SAUGUS | SW | CMAQ | \$ 5,625,000  | \$ 4,500,000  | \$ 1,125,000 |
| Statewide ITS Capital Subtotal ► |           |   |    |      | \$ 25,000,000 | \$ 20,000,000 | \$ 5,000,000 |

## 2016 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 ▼ |
|---|--------|---|--------------------|------------------|--------------------------|-----------------|---------------------|
| <b>► Section 1D / Federal Aid Major &amp; State Category Projects</b> |        |   |                    |                  |                          |                 |                     |
| <b>► Statewide Infrastructure Program</b>                             |        |   |                    |                  |                          |                 |                     |
| 603917  | BOSTON | MEDFORD- STONEHAM- WOBURN- READING- HIGHWAY LIGHTING REHABILITATION ON I-93 (PHASE II)                        | 4                  | STP              | \$ 15,000,000            | \$ 12,000,000   | \$ 3,000,000        |
| 605733  | BOSTON | DISTRICT 6- HIGHWAY LIGHTING SYSTEM REPLACEMENT ON I-93, FROM SOUTHAMPTON STREET TO NEPONSET AVENUE IN BOSTON | 6                  | STP              | \$ 2,500,000             | \$ 2,000,000    | \$ 500,000          |
| Statewide Infrastructure Subtotal ▲                                   |        |   |                    |                  | \$ 17,500,000            | \$ 14,000,000   | \$ 3,500,000        |

## 2017 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 ▼ |
|---|--------|---|--------------------|------------------|--------------------------|-----------------|---------------------|
| <b>► Section 1D / Federal Aid Major &amp; State Category Projects</b> |        |   |                    |                  |                          |                 |                     |
| <b>► Statewide Infrastructure Program</b>                             |        |   |                    |                  |                          |                 |                     |
| 603917  | BOSTON | MEDFORD- STONEHAM- WOBURN- READING- HIGHWAY LIGHTING REHABILITATION ON I-93 (PHASE II)                        | 4                  | STP              | \$ 2,500,000             | \$ 2,000,000    | \$ 500,000          |
| 605733  | 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    | \$ 900,000          |
| Statewide Infrastructure Subtotal ▲                                   |        |   |                    |                  | \$ 7,000,000             | \$ 5,600,000    | \$ 1,400,000        |



## 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 ▼ |
|---|--------|---|--------------------|------------------|--------------------------|-----------------|---------------------|
| <b>► Section 1D / Federal Aid Major &amp; State Category Projects</b> |        |   |                    |                  |                          |                 |                     |
| <b>► Statewide Infrastructure Program</b>                             |        |   |                    |                  |                          |                 |                     |
| 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 ►                                   |        |   |                    |                  | \$ 7,000,000             | \$ 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 ▼ |
|---|--------|--|--------------------|------------------|--------------------------|-----------------|---------------------|
| <b>► Section 1D / Federal Aid Major &amp; State Category Projects</b> |        |  |                    |                  |                          |                 |                     |
| <b>► Statewide Infrastructure Program</b>                             |        |  |                    |                  |                          |                 |                     |
| 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    | \$ 740,000          |

# 2016 Statewide Transportation Improvement Program

## Interstate Maintenance and National Highway System Pr

| MassDOT Project ID  | MPO                | MassDOT Project Description  | MassDOT District | Funding Source | Total Programmed Funds | Federal Funds | Non-Federal Funds |              |
|---|--------------------|--|------------------|----------------|------------------------|---------------|-------------------|--------------|
| <b>► Section 1D / Federal Aid Major &amp; State Category Projects</b> |                    |  |                  |                |                        |               |                   |              |
| <b>► IM - Interstate Maintenance</b>                                  |                    |  |                  |                |                        |               |                   |              |
| 606577  | STATEWIDE          | HATFIELD- NORTHAMPTON- WHATLEY- 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  | SOUTHEAST ERN 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 |

|  |                   |  |   |      |               |                |               |               |
|--|-------------------|--|---|------|---------------|----------------|---------------|---------------|
| <b>► NHS - National Highway System</b> |                   |  |   |      |               |                |               |               |
| 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.I. TO WHITE BAGLEY ROAD | 3 | NHPP | \$ 3,791,340  | \$ 3,033,072   | \$ 758,268    |               |
| 607476                                 | MERRIMAC K 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  | \$ 89,536,583 |               |

Fiscal Constraint Analysis performed using Federal Funds amounts

# 2017

## Statewide Transportation Improvement Program

### Interstate Maintenance and National Highway System Pr

| 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

|             |                   |   |   |      |               |               |              |
|-------------|-------------------|---|---|------|---------------|---------------|--------------|
| 607478      | FRANKLIN          | DEERFIELD - GREENFIELD - WHATLEY - 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-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 |
| IM Subtotal |                   |   |   |      | \$ 70,862,332 | \$ 63,776,099 | \$ 7,086,233 |

##### NHS - National Highway System

|              |                    |   |   |      |               |               |              |
|--------------|--------------------|---|---|------|---------------|---------------|--------------|
| 607988       | STATEWIDE          | KINGSTON DUXBURY MARSHFIELD - 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 | \$ 8,657,417 |

Fiscal Constraint Analysis performed using Federal Funds amounts

IM + NHS \$ 98,405,769

# 2018 Statewide Transportation Improvement Program

## Interstate Maintenance and National Highway System Pr

| MassDOT Project ID  | MPO                | MassDOT Project Description  | MassDOT District | Funding Source | Total Programmed Funds | Federal Funds | Non-Federal Funds |
|---|--------------------|--|------------------|----------------|------------------------|---------------|-------------------|
| <b>► Section 1D / Federal Aid Major &amp; State Category Projects</b> |                    |  |                  |                |                        |               |                   |
| <b>► IM - Interstate Maintenance</b>                                  |                    |  |                  |                |                        |               |                   |
| 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  | SOUTHEAS TERN MASS | WAREHAM- ROCHESTER- MIDDLEBORO- INTERSTATE MAINTENANCE & RELATED WORK ON I-495 | 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  | SOUTHEAS TERN MASS | SEEKONK- REHOBOTH- INTERSTATE MAINTENANCE & RELATED WORK ON I-195              | 5                | NHPP           | \$ 10,959,840          | \$ 9,863,856  | \$ 1,095,984      |
| IM Subtotal   |                    |  |                  |                | \$ 70,822,486          | \$ 63,740,237 | \$ 7,082,249      |

|  |                |  |   |      |               |               |              |
|--|----------------|--|---|------|---------------|---------------|--------------|
| <b>► NHS - National Highway System</b> |                |  |   |      |               |               |              |
| 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 |

Fiscal Constraint Analysis performed using Federal Funds amounts

IM + NHS \$ 91,324,371

# 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 |              |
|---|-------------------|--|------------------|----------------|------------------------|---------------|-------------------|--------------|
| <b>► Section 1D / Federal Aid Major &amp; State Category Projects</b> |                   |  |                  |                |                        |               |                   |              |
| <b>► IM - Interstate Maintenance</b>                                  |                   |  |                  |                |                        |               |                   |              |
| 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    | CHICOPEE-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 |
| <b>► NHS - National Highway System</b>                                |                   |  |                  |                |                        |               |                   |              |
| 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 ▼ |
|----------------------|-------|-------------------------------|--------------------|------------------|--------------------------|-----------------|---------------------|
|----------------------|-------|-------------------------------|--------------------|------------------|--------------------------|-----------------|---------------------|

### ► 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

### Highway Safety Improvement Program

| MassDOT Project ID   | MPO            | MassDOT Project Description  | MassDOT District | Funding Source | Total Programmed Funds | Federal Funds | Non-Federal Funds |
|--|----------------|--|------------------|----------------|------------------------|---------------|-------------------|
| <b>► Section 1D / Federal Aid Major &amp; State Category Projects</b>                                      |                |  |                  |                |                        |               |                   |
| <b>► Statewide Highway Safety Improvement Program</b>  |                |  |                  |                |                        |               |                   |
| <b>SHSP</b> STATEWIDE STATEWIDE- VARIOUS SAFETY STRATEGIES TO BE DETERMINED BASED ON 2013 SHSP AND UPDATES |                |  |                  |                |                        |               |                   |
| 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 ▼   | MassDOT District ▼ | Funding Source ▼ | Total Programmed Funds ▼ | Federal Funds ▼ | Non-Federal Funds ▼ |
|---|--------------|---|--------------------|------------------|--------------------------|-----------------|---------------------|
| <b>► Section 1D / Federal Aid Major &amp; State Category Projects</b> |              |   |                    |                  |                          |                 |                     |
| <b>► Statewide Highway Safety Improvement Program</b>                 |              |   |                    |                  |                          |                 |                     |
| 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    | ATTLEBORO 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       | SWAMPSCOTT- INTERSECTION & SIGNAL IMPROVEMENTS AT SR 1A (PARADISE ROAD) AT SWAMPSCOTT 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

### Highway Safety Improvement Program

| MassDOT Project ID  | MPO               | MassDOT Project Description  | MassDOT District | Funding Source | Total Programmed Funds | Federal Funds | Non-Federal Funds |
|---|-------------------|--|------------------|----------------|------------------------|---------------|-------------------|
| <b>Section 1D / Federal Aid Major &amp; State Category Projects</b> |                   |  |                  |                |                        |               |                   |
| <b>Statewide Highway Safety Improvement Program</b>                 |                   |  |                  |                |                        |               |                   |
| 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  | MERRIMAC K VALLEY | HAVERRILL- MERRIMAC- AMESBURY- TRAFFIC & GUIDE SIGN REPLACEMENT ON A SECTION OF I-495  | 4                | HSIP           | \$ 2,100,000           | \$ 1,890,000  | \$ 210,000        |
| 608206  | BOSTON            | CHELSEA TO DANVERS - GUIDE AND TRAFFIC SIGN REPLACEMENT ON A SECTION OF US ROUTE 1   | 4                | HSIP           | \$ 5,900,000           | \$ 5,310,000  | \$ 590,000        |
| 607756  | 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         |
| 607757  | 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 AHERTON 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

### Americans with Disabilities Act and Stormwater Programs

| MassDOT Project ID ▼  | MPO ▼     | MassDOT Project Description ▼                  | MassDOT District ▼ | Funding Source ▼ | Total Programmed Funds ▼ | Federal Funds ▼ | Non-Federal Funds ▼ |
|---|-----------|--|--------------------|------------------|--------------------------|-----------------|---------------------|
| <b>► Section 1D / Federal Aid Major &amp; State Category Projects</b> |           |  |                    |                  |                          |                 |                     |
| <b>► Statewide ADA Retrofits Program</b>                              |           |  |                    |                  |                          |                 |                     |
| 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          |

## 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 YOY ▼ | Federal Funds ▼ | Non-Federal Funds ▼ |
|---|-----------|--|--------------------|------------------|------------------------------|-----------------|---------------------|
| <b>► Section 1D / Federal Aid Major &amp; State Category Projects</b> |           |  |                    |                  |                              |                 |                     |
| <b>► Statewide ADA Retrofits Program</b>                              |           |  |                    |                  |                              |                 |                     |
| 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

### Americans with Disabilities Act and Stormwater Programs

| MassDOT Project ID ▼  | MPO ▼     | MassDOT Project Description ▼                  | MassDOT District ▼ | Funding Source ▼ | Total Programmed Funds YOE ▼ | Federal Funds ▼ | Non-Federal Funds ▼ |
|---|-----------|--|--------------------|------------------|------------------------------|-----------------|---------------------|
| <b>► Section 1D / Federal Aid Major &amp; State Category Projects</b> |           |  |                    |                  |                              |                 |                     |
| <b>► Statewide ADA Retrofits Program</b>                              |           |  |                    |                  |                              |                 |                     |
| 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

| 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 |                |   |                  |                         |                        |               |                   |                                 |  |
| ▶ Statewide Congestion Mitigation and Air Quality Program  |                |   |                  |                         |                        |               |                   |                                 |  |
| 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 |  |

## 2017 Statewide Transportation Improvement Program

| 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 |                |   |                  |                         |                        |               |                   |                                 |  |
| ▶ Statewide Congestion Mitigation and Air Quality Program  |                |   |                  |                         |                        |               |                   |                                 |  |
| 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           | \$ 3,122,280  | \$ 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  | 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

**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                    |
|---|----------------|--|------------------|----------------|------------------------|---------------|-------------------|---|
| <b>► Section 1D / Federal Aid Major &amp; State Category Projects</b> |                |  |                  |                |                        |               |                   |   |
| <b>► Statewide Congestion Mitigation and Air Quality Program</b>      |                |  |                  |                |                        |               |                   |   |
| 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 MULTI-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  | \$ 1,654,848      | 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    | Advised  |
| 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- WHATLEY- 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 CMAQ | \$ 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      |  |  |  |                     |  |                |             |            |
| 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             | 100% Complete                              |  |                     |  |                | \$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 Line Item | Project Description                                | Project Status                                      | Total Cost  |
|-------------|-------------------------------------|------------------------|--|---|-------------|
| 5307        | Pioneer Valley Transit Authority    | 111301                 | BUY 40-FT BUS FOR EXPANSION (4) Match in FY16      | Buses to be delivered Jul/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 Enmnts: 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 Enmnts: 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 Proured 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    | Pioneer Valley Transit Authority    | 113303                 | TERMINAL, INTERMODAL (TRANSIT), Westfield        | Construction substantially completed in 2016        | \$2,067,824         |
| 5339                                | Pioneer Valley Transit Authority    | 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    | 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 | Springfield Redevelopment Authority | 113303                 | TERMINAL, INTERMODAL (TRANSIT)                   | Ongoing   | \$832,224           |
| Other Non-Federal                   | Pioneer Valley Transit Authority    | 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    | Pioneer Valley Transit Authority    | 114403                 | REHAB/RENOVATE - ADMIN/MAINT FACILITY            | 100 % Complete by June 2015                         | \$641,471           |
| <b>46 Projects Total Investment</b> |                                     |                                     |                        |  |   | <b>\$35,656,041</b> |

## 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 (NO<sub>x</sub>), 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.
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## **GreenDOT Policy and Metropolitan Planning Organizations**

The Commonwealth's thirteen metropolitan planning organizations (MPOs) are integrally involved in helping to achieve the GreenDOT goals and supporting the GHG reductions mandated under the GWSA. The MPOs are most directly involved in helping to achieve the GHG emissions reductions under the second goal – to promote healthy transportation modes through prioritizing and programming an appropriate balance of roadway, transit, bicycle and pedestrian investments – and assist in the third goal by supporting smart growth development patterns through the creation of a balanced multi-modal transportation system. This will be realized through the transportation goals and policies espoused in the 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 CO<sub>2</sub> impacts. The data and analysis required for these calculations is available from functional design reports that should be submitted for projects that would produce a measurable GHG impact.

## Projects with Quantified Impacts

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

- **Quantified Decrease in Emissions** - Projects that would be expected to produce a measurable decrease in emissions. The approach for calculating these impacts is described below. These projects should be categorized in the following manner:
- **Quantified Decrease in Emissions from Traffic Operational Improvement** - An intersection reconstruction or signalization project that is projected to reduce delay and congestion.
- **Quantified Decrease in Emissions from Pedestrian and Bicycle Infrastructure** - A shared-use path that would enable increased walking and biking and decreased vehicle-miles traveled (VMT).
- **Quantified Decrease in Emissions from New/Additional Transit Service** - A bus or shuttle service that would enable increased transit ridership and decreased VMT
- **Quantified Decrease in Emissions from a Park and Ride Lot** A park-and-ride lot that would enable increased transit ridership/ increased ridesharing and decreased VMT
- **Quantified Decrease in Emissions from Bus Replacement**  
A bus replacement that would directly reduce GHG emissions generated by that bus service.
- **Quantified Decrease in Emissions from Complete Streets Improvements**  
Improvements to roadway networks that include the addition of bicycle and pedestrian accommodations where none were present before.
- **Quantified Decrease in Emissions from Other Improvement**

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

## Projects with Assumed Impact

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

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



increased travel by walking or bicycling, but there may be not data or analysis to support any projections of GHG impacts. These projects should be categorized 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 Authority  | \$550,000,000        |                                 |                                   |
| Redistribution, as Estimated by FHWA                                     | \$50,000,000         |                                 |                                   |
| <b>Total Estimated Obligation Authority Available:</b>                   | <b>\$600,000,000</b> |                                 |                                   |
| ABP GANS Repayment   | -44,440,000          |                                 |                                   |
| <b>Total Non-Earmarked Available Statewide - (Including State Match)</b> | <b>555,560,000</b>   | <b>124,528,769</b>              | <b>680,088,769</b>                |
| <b>Statewide Infrastructure Items:</b>                                   |                      |                                 |                                   |
| 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 Retrofits   | \$5,475,120          | \$1,368,780                     | \$6,843,900                       |
| Statewide ADA Implementation Plan  | \$3,200,000          | \$800,000                       | \$4,000,000                       |
| <b>Subtotal Statewide Infrastructure Items:</b>                          | <b>\$197,701,420</b> | <b>\$36,314,124</b>             | <b>\$234,015,544</b>              |
| <b>Other Statewide Items:</b>  |                      |                                 |                                   |
| 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                               |
| <b>Subtotal Other Statewide Items:</b>                                   | <b>\$40,619,720</b>  | <b>\$10,164,930</b>             | <b>\$50,774,650</b>               |
| <b>Regional Major Infrastructure Projects:</b>                           | <b>\$57,595,001</b>  | <b>\$14,398,750</b>             | <b>\$71,993,751</b>               |
| <b>Bridge Program:</b>   |                      |                                 |                                   |
| 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                       |
| <b>Subtotal Federal Aid Bridge Program:</b>                              | <b>\$118,983,859</b> | <b>\$29,745,965</b>             | <b>\$148,729,824</b>              |
| <b>Total Regional Targets:</b>   |                      |                                 |                                   |
| 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                     |
| <b>Total Regional Target</b>   | <b>\$140,660,000</b> | <b>\$33,915,000</b>             | <b>\$174,575,000</b>              |

| 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   | \$365,964  | \$1,112,389                                      | \$0                                     | \$6,214,248                            | \$4,745,895                        |
| Boston Region      | \$4,296,710                                      | \$13,427,220                                     | \$5,097,438                             | \$75,009,821                           | \$62,188,452                       |
| Cape Cod           | \$468,614  | \$1,432,857                                      | \$367,628                               | \$8,004,511                            | \$5,765,612                        |
| Central Mass       | \$869,013  | \$2,715,666                                      | \$852,078                               | \$15,170,796                           | \$10,734,039                       |
| Franklin Region    | \$263,976  | \$793,671  | \$0                                     | \$4,433,762                            | \$3,386,116                        |
| Martha's Vineyard  | \$30,997   | \$96,866   | \$0                                     | \$541,128                              | \$413,266                          |
| Merrimack Valley   | \$442,966  | \$1,384,237                                      | \$610,846                               | \$7,732,899                            | \$6,294,861                        |
| Montachusett       | \$445,965  | \$1,393,611                                      | \$149,980                               | \$7,795,266                            | \$5,795,721                        |
| Nantucket          | \$21,998   | \$68,743   | \$0                                     | \$384,027                              | \$293,286                          |
| Northern Middlesex | \$390,961  | \$1,221,753                                      | \$490,607                               | \$6,825,200                            | \$4,721,879                        |
| Old Colony         | \$465,964  | \$1,424,858                                      | \$600,019                               | \$7,959,824                            | \$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                                      | \$866,134                               | \$15,642,102                           | \$11,089,925                       |
| <b>Total:</b>      | <b>\$10,000,000</b>                              | <b>\$31,250,000</b>                              | <b>\$9,962,507</b>                      | <b>\$174,575,000</b>                   | <b>\$123,362,492</b>               |

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         |                                 |                                   |
| <b>Total Estimated Obligation Authority Available:</b>                   | <b>\$600,000,000</b> |                                 |                                   |
| ABP GANS Repayment   | 59,150,000           |                                 |                                   |
| <b>Total Non-Earmarked Available Statewide - (Including State Match)</b> | <b>540,850,000</b>   | <b>122,288,943</b>              | <b>663,138,943</b>                |
| <b>Statewide Infrastructure Items:</b>                                   |                      |                                 |                                   |
| 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                       |
| <b>Subtotal Statewide Infrastructure Items:</b>                          | <b>\$196,651,614</b> | <b>\$37,239,346</b>             | <b>\$233,890,960</b>              |
| <b>Other Statewide Items:</b>  |                      |                                 |                                   |
| 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                               |
| <b>Subtotal Other Statewide Items:</b>                                   | <b>\$52,400,000</b>  | <b>\$13,100,000</b>             | <b>\$65,500,000</b>               |
| <b>Regional Major Infrastructure Projects:</b>                           | <b>\$7,200,000</b>   | <b>\$1,800,000</b>              | <b>\$9,000,000</b>                |
| <b>Bridge Program:</b>   |                      |                                 |                                   |
| 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          | \$1,260,000                     | \$6,260,000                       |
| <b>Subtotal Federal Aid Bridge Program:</b>                              | <b>\$119,338,386</b> | <b>\$29,834,597</b>             | <b>\$149,172,983</b>              |
| <b>Total Regional Targets:</b>   |                      |                                 |                                   |
| 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                     |
| <b>Total Regional Target</b>   | <b>\$166,260,000</b> | <b>\$40,315,000</b>             | <b>\$206,575,000</b>              |

| 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   | \$365,964  | \$1,112,389                                      | \$0                                     | \$7,353,335                            | \$6,884,981                        |
| Boston Region      | \$4,296,710                                      | \$13,427,220                                     | \$3,312,089                             | \$88,769,294                           | \$67,723,276                       |
| Cape Cod           | \$458,514  | \$1,432,857                                      | \$232,306                               | \$9,471,756                            | \$7,348,079                        |
| Central Mass       | \$869,013  | \$2,715,666                                      | \$553,642                               | \$17,951,638                           | \$13,813,317                       |
| Franklin Region    | \$253,975  | \$793,671  | \$0                                     | \$5,246,480                            | \$4,198,835                        |
| Martha's Vineyard  | \$30,997   | \$96,865   | \$0                                     | \$640,318                              | \$512,456                          |
| Merrimack Valley   | \$442,956  | \$1,384,237                                      | \$396,901                               | \$9,150,357                            | \$8,926,265                        |
| Montachusett       | \$445,955  | \$1,393,811                                      | \$97,450                                | \$9,212,324                            | \$7,275,308                        |
| Nantucket          | \$21,998   | \$68,743   | \$0                                     | \$454,420                              | \$363,679                          |
| Northern Middlesex | \$390,961  | \$1,221,753                                      | \$318,775                               | \$8,076,275                            | \$6,144,787                        |
| Old Colony         | \$455,954  | \$1,424,858                                      | \$389,865                               | \$9,418,878                            | \$7,148,201                        |
| Pioneer Valley     | \$1,080,992                                      | \$3,378,100                                      | \$615,889                               | \$22,330,590                           | \$17,255,610                       |
| Southeastern Mass  | \$896,010  | \$2,800,033                                      | \$566,278                               | \$18,509,335                           | \$14,257,014                       |
| <b>Total:</b>      | <b>\$10,000,000</b>                              | <b>\$31,260,000</b>                              | <b>\$9,962,507</b>                      | <b>\$206,575,000</b>                   | <b>\$158,851,806</b>               |

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         |                     |                        |
| <b>Total Estimated Obligation Authority Available:</b>                   | <b>\$600,000,000</b> |                     |                        |
| ABP GANS Repayment   | 68,463,700           |                     |                        |
| <b>Total Non-Earmarked Available Statewide - (Including State Match)</b> | <b>\$31,536,300</b>  | <b>120,126,726</b>  | <b>651,663,026</b>     |
| <b>Statewide Infrastructure Items:</b>                                   |                      |                     |                        |
| 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            |
| <b>Subtotal Statewide Infrastructure Items:</b>                          | <b>\$188,212,914</b> | <b>\$35,545,879</b> | <b>\$224,558,793</b>   |
| <b>Other Statewide Items:</b>  |                      |                     |                        |
| 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                    |
| <b>Subtotal Other Statewide Items:</b>                                   | <b>\$51,400,000</b>  | <b>\$12,850,000</b> | <b>\$64,250,000</b>    |
| <b>Regional Major Infrastructure Projects:</b>                           | <b>\$0</b>           | <b>\$0</b>          | <b>\$0</b>             |
| <b>Bridge Program:</b>   |                      |                     |                        |
| 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            |
| <b>Subtotal Federal Aid Bridge Program:</b>                              | <b>\$118,463,386</b> | <b>\$29,615,847</b> | <b>\$148,079,233</b>   |
| <b>Total Regional Targets:</b>   |                      |                     |                        |
| CMAQ - Congestion Mitigation and Air Quality Improvement Progr           | \$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:                              | \$131,489,994        | \$32,872,499        | \$164,362,493          |
| <b>Total Regional Target</b>   | <b>\$173,460,000</b> | <b>\$42,115,000</b> | <b>\$215,575,000</b>   |

| 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                                     | \$7,673,703                            | \$6,205,349                        |
| Boston Region      | \$4,296,710                                      | \$13,427,220                                     | \$3,312,089                             | \$92,626,333                           | \$71,990,315                       |
| Cape Cod           | \$458,514  | \$1,432,857                                      | \$232,306                               | \$9,884,419                            | \$7,760,742                        |
| Central Mass       | \$869,013  | \$2,715,666                                      | \$553,642                               | \$18,733,750                           | \$14,595,428                       |
| Franklin Region    | \$253,975  | \$793,671  | \$0                                     | \$5,475,057                            | \$4,427,412                        |
| Martha's Vineyard  | \$30,997   | \$96,865   | \$0                                     | \$668,216                              | \$540,353                          |
| Merrimack Valley   | \$442,956  | \$1,384,237                                      | \$396,901                               | \$9,549,017                            | \$7,324,925                        |
| Montachusett       | \$445,955  | \$1,393,611                                      | \$97,450                                | \$9,613,684                            | \$7,676,667                        |
| Nantucket          | \$21,998   | \$68,743   | \$0                                     | \$474,218                              | \$383,477                          |
| Northern Middlesex | \$390,961  | \$1,221,753                                      | \$318,775                               | \$8,428,140                            | \$6,496,651                        |
| Old Colony         | \$455,954  | \$1,424,858                                      | \$389,865                               | \$9,829,237                            | \$7,558,560                        |
| Pioneer Valley     | \$1,080,992                                      | \$3,378,100                                      | \$615,889                               | \$23,303,483                           | \$18,228,502                       |
| Southeastern Mass  | \$896,010  | \$2,800,033                                      | \$556,278                               | \$19,315,744                           | \$15,063,424                       |
| <b>Total:</b>      | <b>\$10,000,000</b>                              | <b>\$31,250,000</b>                              | <b>\$9,962,507</b>                      | <b>\$215,575,000</b>                   | <b>\$167,951,806</b>               |

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        |                                 |                                   |
| <b>Redistribution, as Estimated by FHWA</b>                              | <b>\$50,000,000</b>  |                                 |                                   |
| <b>Total Estimated Obligation Authority Available:</b>                   | <b>\$600,000,000</b> |                                 |                                   |
| ABP GANS Repayment   | 73,525,150           |                                 |                                   |
| <b>Total Non-Earmarked Available Statewide - (Including State Match)</b> | <b>526,474,850</b>   | <b>130,368,713</b>              | <b>656,843,563</b>                |
| <b>Statewide Infrastructure Items:</b>                                   |                      |                                 |                                   |
| 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 Retrofits   | \$3,000,000          | \$750,000                       | \$3,750,000                       |
| Statewide ADA Implementation Plan  | \$0                  | \$0                             | \$0                               |
| <b>Subtotal Statewide Infrastructure Items:</b>                          | <b>\$185,809,626</b> | <b>\$46,452,407</b>             | <b>\$232,262,033</b>              |
| <b>Other Statewide Items:</b>  |                      |                                 |                                   |
| 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                               |
| <b>Subtotal Other Statewide Items:</b>                                   | <b>\$50,400,000</b>  | <b>\$12,600,000</b>             | <b>\$63,000,000</b>               |
| <b>Regional Major Infrastructure Projects:</b>                           | <b>\$0</b>           | <b>\$0</b>                      | <b>\$0</b>                        |
| <b>Bridge Program:</b>   |                      |                                 |                                   |
| Statewide Bridge Maintenance Program                                     | \$8,000,000          | \$2,000,000                     | \$10,000,000                      |
| Statewide Bridge Repl. / Rehab Program                                   | \$103,805,224        | \$26,951,306                    | \$129,756,530                     |
| Statewide Bridge Inspection Program                                      | \$5,000,000          | \$1,250,000                     | \$6,250,000                       |
| <b>Subtotal Federal Aid Bridge Program:</b>                              | <b>\$116,805,224</b> | <b>\$29,201,306</b>             | <b>\$146,006,530</b>              |
| <b>Total Regional Targets:</b>   |                      |                                 |                                   |
| 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          | \$1,319,639                     | \$6,598,194                       |
| Regional Maximum Non-CMAQ / HSIP Component:                              | \$134,181,445        | \$33,845,361                    | \$167,726,806                     |
| <b>Total Regional Target</b>   | <b>\$173,460,000</b> | <b>\$42,115,000</b>             | <b>\$215,575,000</b>              |

| 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                                     | \$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                                     | \$5,475,067                            | \$4,427,412                        |
| Martha's Vineyard  | \$30,997   | \$96,865   | \$0                                     | \$688,216                              | \$540,353                          |
| Memnock Valley     | \$442,956  | \$1,384,237                                      | \$305,423                               | \$9,549,018                            | \$7,416,402                        |
| Montachusett       | \$445,955  | \$1,393,611                                      | \$74,990                                | \$9,613,684                            | \$7,699,128                        |
| Nantucket          | \$21,988   | \$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                           | \$15,191,634                       |
| <b>Total:</b>      | <b>\$10,000,000</b>                              | <b>\$31,250,000</b>                              | <b>\$6,598,194</b>                      | <b>\$215,575,000</b>                   | <b>\$169,343,747</b>               |

## **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 |
|---|---------------------------------|---------------------------------|---------------------------------------|
| <b>01 - Bridge Repair &amp; Replacement</b> |                                 |                                 |                                       |
| 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                              |
| <b>02 - Bridge Painting</b>                 |                                 |                                 |                                       |
| Painting - Structural                       | \$0                             | \$0                             | \$0                                   |
| <b>03 - Roadway Reconstruction</b>          |                                 |                                 |                                       |
| 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              | \$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                                   |
| <b>04 - Roadway Resurfacing</b>             |                                 |                                 |                                       |
| Resurfacing                                 | \$55,975                        | \$0                             | \$1,701,780                           |
| <b>05 - Intersection &amp; Safety</b>       |                                 |                                 |                                       |
| Impact Attenuators                          | \$0                             | \$0                             | \$0                                   |
| Safety Improvements                         | \$0                             | \$0                             | \$0                                   |
| Traffic Signals                             | \$0                             | \$0                             | \$0                                   |
| <b>06 - Signs &amp; Lighting</b>            |                                 |                                 |                                       |
| Electrical                                  | \$716                           | \$6,724                         | \$0                                   |
| Sign Installation / Upgrading               | \$0                             | \$0                             | \$0                                   |
| Structural Signing                          | \$0                             | \$0                             | \$0                                   |
| <b>07 - Guardrail</b>                       |                                 |                                 |                                       |
| Guard Rail and Fencing                      | \$0                             | \$0                             | \$0                                   |
| <b>08 - Maintenance</b>                     |                                 |                                 |                                       |
| 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                                   |
| <b>09 - Facilities</b>                      |                                 |                                 |                                       |
| Chemical Storage Sheds                      | \$0                             | \$0                             | \$0                                   |
| Vertical Construction                       | \$1,355,990                     | \$4,324,162                     | \$0                                   |
| <b>10 - Bikeways (Excluded)</b>             | n/a                             | n/a                             | n/a                                   |
| <b>11 - Other</b>                           |                                 |                                 |                                       |
| 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                                   |
| <b>Section I Total:</b>                     | <b>\$20,988,135</b>             | <b>\$11,398,269</b>             | <b>\$4,915,470</b>                    |

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

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

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<br>Expenditures | Estimated SFY 2014<br>Expenditures | Current SFY 2015<br>Expenditures to Date |
|---|------------------------------------|------------------------------------|--|
| <b>01 - Bridge Repair &amp; Replacement</b> |                                    |                                    |  |
| 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                              |
| <b>02 - Bridge Painting</b>                 |                                    |                                    |  |
| Painting - Structural                       | \$0                                | \$0                                | \$0                                      |
| <b>03 - Roadway Reconstruction</b>          |                                    |                                    |  |
| 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                                      |
| <b>04 - Roadway Resurfacing</b>             |                                    |                                    |  |
| Resurfacing                                 | \$7,829,827                        | \$15,202,187                       | \$10,946,197                             |
| <b>05 - Intersection &amp; Safety</b>       |                                    |                                    |  |
| Impact Attenuators                          | \$0                                | \$0                                | \$0                                      |
| Safety Improvements                         | \$0                                | \$0                                | \$0                                      |
| Traffic Signals                             | \$571,607                          | \$789,459                          | \$0                                      |
| <b>06 - Signs &amp; Lighting</b>            |                                    |                                    |  |
| Electrical                                  | \$131,784                          | \$12,322                           | \$0                                      |
| Sign Installation / Upgrading               | \$39,551                           | \$0                                | \$0                                      |
| Structural Signing                          | \$603,820                          | \$2,263,775                        | \$0                                      |
| <b>07 - Guardrail</b>                       |                                    |                                    |  |
| Guard Rail and Fencing                      | \$11,483                           | \$0                                | \$0                                      |
| <b>08 - Maintenance</b>                     |                                    |                                    |  |
| 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                                      |
| <b>09 - Facilities</b>                      |                                    |                                    |  |
| Chemical Storage Sheds                      | \$0                                | \$0                                | \$0                                      |
| Vertical Construction                       | \$0                                | \$0                                | \$0                                      |
| <b>10 - Bikeways (Excluded)</b>             | n/a                                | n/a                                | n/a                                      |
| <b>11 - Other</b>                           |                                    |                                    |  |
| 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                                      |
| <b>Section I Total:</b>                     | <b>\$30,096,446</b>                | <b>\$32,451,950</b>                | <b>\$27,237,992</b>                      |

**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                 |
| <b>Section II Total</b>                                   | <b>\$0</b>          | <b>\$0</b>          | <b>\$0</b>          |
| <b>Grand Total Federal Aid:</b>                           | <b>\$30,096,446</b> | <b>\$32,451,950</b> | <b>\$27,237,992</b> |

## **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 |
| Columbia 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)]

| <b>Goal area</b>                       | <b>National goal</b>   |
|--|--|
| 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 |
|--|--|

### 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)]