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# **TRANSPORTATION IMPROVEMENT PROGRAM**



**FFY 2013 – 2016**

**METROPOLITAN PLANNING ORGANIZATION of the  
PIONEER VALLEY REGION, MASSACHUSETTS**

**Endorsed July 9, 2013**

# TRANSPORTATION IMPROVEMENT PROGRAM (TIP)

2013 - 2016

FOR THE  
METROPOLITAN PLANNING ORGANIZATION  
PIONEER VALLEY REGION,  
MASSACHUSETTS

**Endorsed on June 19, 2012**

**Amended on November 8, 2012**  
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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 600,000 residents, the Pioneer Valley is the fourth largest metropolitan area in New England. The map on the following page references the Pioneer Valley Region and displays an outline of the principle highways throughout.

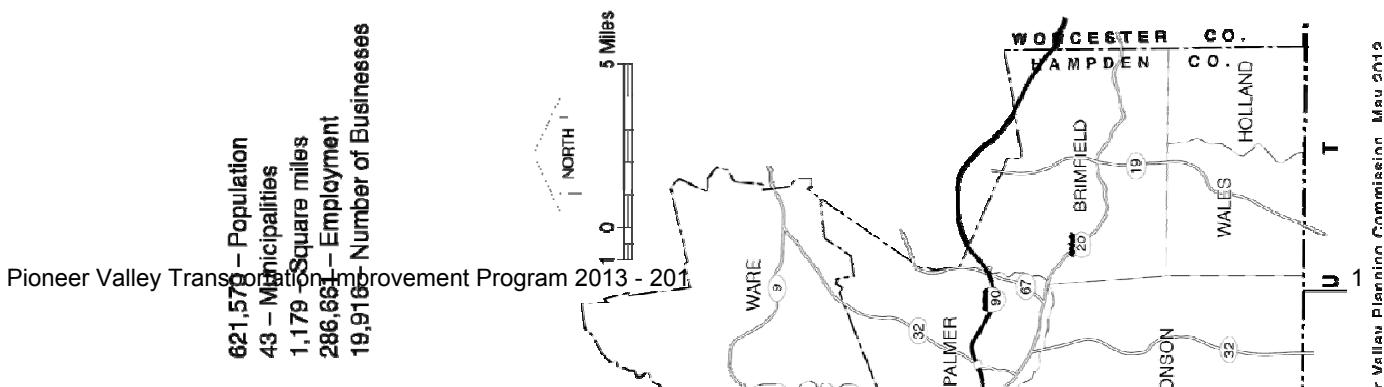
## TIP Format and MPO Endorsement

The FFY 2013-2016 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 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 2013-2016 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 2013 and beyond. In response to this commitment, Pioneer Valley local officials in cooperation with regional and state officials from the MassHighway department and 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 2013. 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.

All projects in the TIP come from the conforming 2012 Regional Transportation Plan. 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 2013 through 2016 (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. Therefore, this TIP, in combination with the TIPs from the other MPOs in the nonattainment area, is found to be in conformance.

## 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:

Massachusetts Department of Transportation (MassDOT);

MassDOT Highway Division (MHD);

Pioneer Valley Transit Authority (PVTA); and

Pioneer Valley Planning Commission (PVPC);

Mayor of Holyoke

Mayor of Springfield;

Mayor of Northampton

Mayor of Agawam

Selectboard member from Belchertown;

Selectboard member from Hatfield;

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 an evaluation criteria by MPO staff, JTC representatives, and MHD 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 project 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 endorses the STIP (on behalf of the Governor) and submits the STIP to federal agencies for review and approval

Federally approved STIP is ready for state implementation (project advertisement)

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

## **CONGESTION MANAGEMENT PROCESS (CMP)**

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 up to date 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**

The MassDOT developed a process and set of criteria to prioritize the region's TIP projects which was modified and endorsed by the MPO. All projects included in the TIP have been evaluated and assigned a priority value or rating (See Appendix D). This process is used as a management tool to identify projects of regional priority and program them accordingly in the TIP.

### **PRIORITY CRITERIA**

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 used by the 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 Information Form and a detailed outline of the project priority evaluation criteria are presented in Appendix D.

## **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.

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%.

**Surface Transportation Program Enhancements** (ENHMT) - A portion of the Surface Transportation Program funding for enhancement projects chosen by states and localities. 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%.

**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 System** (NHS) - The National Highway System (NHS) consists of major roads in the United States, including all Interstate routes, a large percentage of urban and principal arterials, the defense Strategic Highway Network (STRAHNET) and other strategic highway connectors. Typically, these facilities qualify for an 80 percent federal share, however, projects on Interstates may qualify for up to 90 percent federal share funds. Funding: federal - 80%, state - 20%.

Other Federal Aid - This category includes projects that received federal funding within the Federal-Aid Program and may include special demonstration project funding. Funding: federal - 80%, state - 20%.

In compliance with FHWA guidelines projects with federal earmarks are only programmed in the FY 2011 to FY 2014 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.

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

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

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

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

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

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

**Section 5309 Capital** (SEC.09) - A discretionary grant program funding capital projects in urban areas that are considered major capital investments in public transportation and facilities. Funding: Federal - 80%, State - 20%

**Section 5307 Capital** (SEC. 07-CAP) - Eligible projects for Section 5307 (Capital) funds include the planning, acquisition, construction, improvement and operating costs of facilities, equipment, and associated capital maintenance items for use in providing mass transit service. The Federal match for Planning and/or capital assistance under Section 5307 is 80 percent of the net project cost, but a recipient is permitted to provide additional local match at its option. There are three exceptions to 80 percent Federal match for capital projects:

1. Air Quality Benefit. If an air quality benefit can be forecast for a project such as a bus purchase, the federal match is 90 percent. Larger state and local matches are allowed.
2. Elderly and Disabled Projects. The federal match is 95 percent for any element of a capital project intended exclusively to enhance the accessibility and mobility of elderly and disabled persons and that is in excess of Federal requirements. All FTA-funded projects must be designed and implemented to meet the basic accessibility or mobility needs of elderly and disabled persons.
3. Additional Service. Capital expenditures for the increase in service can be funded with a 90% federal match.

**Section 5307 Operating** (SEC. 07-OPR) - Funds allocated under this category may be used to fund up to 50 percent of the operating cost associated with the provision of public mass transportation systems in urbanized areas.

**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 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.

**Section 20** - Section 20 provides financial assistance for projects which address the human resource needs and conditions of the public transit industry. The federal share of eligible capital and project administrative expenses is not to exceed 80 percent of the net cost of the project. The federal share for state administration and technical expenses is 100 percent, not to exceed 15 percent of the state's total apportionment.

## TRANSPORTATION SYSTEM OPERATING AND MAINTENANCE COSTS

The FFY 2013-2016 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 - 2015	2016 - 2020	2021 - 2025	2026 - 2030	2031-2035	GRAND TOTAL
	Total	Total	Total	Total	Total	Total
	\$339,286,000	\$402,127,000	\$559,458,000	\$682,197,000	\$790,853,000	\$2,773,921,000
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	\$44,597,000	\$47,792,000	\$71,737,000	\$87,557,000	\$101,503,000	\$353,186,000
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>

Source: Regional Transportation Plan, updated 2012

**Table 2 Transit Operating and Maintenance Expenditures**

	2012-2016	2017-2021	2022-2026	2027-2031	2032-2036	TOTAL
State Contract Assistance	\$86,740,473	\$82,703,345	\$82,703,345	\$99,244,014	\$82,703,345	\$434,094,522
Local Assessments	\$36,233,817	\$40,995,238	\$46,382,349	\$52,477,371	\$59,373,329	\$235,462,104
5307 Federal Urbanized Area Formula	\$60,423,930	\$70,047,895	\$81,204,709	\$94,138,514	\$109,132,338	\$414,947,386
5310 Federal Elderly & Disabled	\$2,241,520	\$2,596,747	\$3,005,991	\$3,481,331	\$4,032,407	\$15,357,996
5311 Federal InterCity Bus Program	\$3,832,915	\$4,440,550	\$5,143,370	\$5,958,004	\$6,902,350	\$26,277,189
5316 Federal JARC Program	\$1,875,643	\$2,166,000	\$2,496,000	\$2,878,000	\$3,322,000	\$12,737,643
5317 Federal New Freedom Program	\$1,243,108	\$1,435,000	\$1,651,000	\$1,901,000	\$2,193,000	\$8,423,108
Farebox	\$34,140,525	\$38,626,871	\$43,702,759	\$49,445,660	\$55,943,226	\$221,859,040
Advertising, other revenue	\$5,525,631	\$7,052,261	\$9,000,671	\$11,487,391	\$14,661,145	\$47,727,099
<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</b>						
<b>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 2013-2016 TIP underwent a public review and comment period consistent with the Pioneer Valley Metropolitan Planning Organizations Public Participation Process. This began May 14, 2012 and continued for 30 days until June 13, 2012. During this time, comments were received from communities, JTC, PVTA, PVPC, MHD District offices and MassDOT. Below is a summary of the comments received during the public review and comment period

<b>Comments by</b>	<b>Projis</b>	<b>Comment</b>	<b>Action</b>	<b>Date</b>
PVPC	605815	In order to make FFY 2015 element of the TIP fiscally constrained Westhampton Route 66 project was move FFY2016	Project moved	5/14/12
MassDOT	HWY	Please include the provided text regarding Green House Gas monitoring and evaluation in the TIP Document	Text added to Document	06/7/2012
MassDOT	605065	605065 – Please note that this project is not within Belchertown.	Text deleted	06/13/2012
MassDOT	HWY	Please be sure to use the most recent Total Federal Participating Cost (TFPC) when calculating the Year of Expenditure inflation estimates.	Comment noted	06/13/2012
MassDOT	604435	604435 – Please note that the total cost for the project including Surface Transportation Program (STP) and Congestion Mitigation and Air Quality Improvement Program (CMAQ) funds is \$1,580,479 not \$1,519,691.	Cost updated	06/13/2012
MassDOT	605685	605685 – Please note that the total cost for the project including Highway Safety Improvement Program (HSIP) and CMAQ funds is \$2,225,000 not \$2,057,600.	Cost updated	06/13/2012
MassDOT	HWY	Please reduce STP funding and CMAQ funding in order to maintain fiscal constraint. The current total amount of programmed STP funds based on Year of Expenditure inflation estimates is \$16,690,013, which is \$34,631 over the STP allocation for FY2014. Also, the current total amount of programmed CMAQ funds based on Year of Expenditure inflation estimates is \$2,308,368, which is \$146,384 over the CMAQ allocation for FY2014.	Comment noted	06/13/2012
MassDOT	604435	604435 – Please note that this project is also listed on the FY2016 STIP under the Statewide CMAQ category.	Comment noted	06/13/2012
MassDOT	606582	606582 – Please remove the “K” from the I-91 description.	Text deleted	06/13/2012
MassDOT	HWY	Please be sure to use the most recent TFPC when calculating the Year of Expenditure inflation estimates.	Comment noted	06/13/2012
MassDOT	607207	607207 – Please add Pelham to the project description.	Text Added	06/13/2012
MassDOT	604035	604035 – Please note that the total cost for the project including STP, HSIP and CMAQ funds is \$3,543,593 not \$3,291,105.	Cost updated	06/13/2012
MassDOT	HWY	Please be sure to use the most recent TFPC when calculating the Year of Expenditure inflation estimates.	Comment noted	06/13/2012
MassDOT	HWY	\$6,009,950 in STP funds are currently available in FY2016. Please work with District 1 and District 2 to identify STP eligible projects.	Comment noted	06/13/2012
MassDOT	HWY	Please include Greenhouse Gas Monitoring and Evaluation language provided by the MassDOT Office of Transportation Planning as well as the GHG Tracking spreadsheet updated to include	Text added to Document	06/13/2012

		information for FY2016 projects.		
PVPC	605222	Springfield North end at Brightwood Improvements added to FY 2016 section 1A in order to spend the down the STP balance as requested by MassDOT	Project added	06/13/2012
District 2	604442	2013 Section 1A - 604442 - TFPC is from 2011; with inflation to 2013, TFPC would be \$5,885,855	Comment noted	06/13/2012
District 2	602486	2013 Section 1A - 602486 - TFPC shown is from 2010; with inflation to 2013, TFPC would be \$3,105,715	Comment noted	06/13/2012
District 2	604339	2013 Section 1B - 604339 - Design is at 25% Resubmission	Comment noted	06/13/2012
District 2	605065	2013 Section 1C - 605065 - 1) Design is at 25% 2) Project is not within Belchertown	Comment noted	06/13/2012
District 2	603731	2013 Section 1D, 603731 - Design is at 100%	Comment noted	06/13/2012
District 2	604446	2014 Section 1A, 604446 - Orig TFPC is from 2009; Updated TFPC would be \$6,201,597	Comment noted	06/13/2012
District 2	604435	2014 Section 1A, 604435 - 1) the total amount (added in all categories) is \$1,580,479 2) the orig TFPC of \$1,461,241 is from 2010; if inflated to 2014, the TFPC would be \$1,709,445 3) this would mean \$545,585 in STP funds	Comment noted	06/13/2012
District 2	605886	2014 Section 1A, 605886 - 1) Design is at 25% resubmission 2) Updated TFPC (from 2012) is \$607,235 3) Suggest move to 2015 as required by adjustment of cost of 604446 above; TFPC to 2015 would be \$683,057	Comment noted	06/13/2012
District 2	605685	2014 Section 1A, 605685 - 1) Design is at 25% 2) Total amount (added in all categories shown) is \$2,225,500	Comment noted	06/13/2012
District 2	604968	2014 Section 1C, 604968 - Design is at 25%	Comment noted	06/13/2012
District 2	606582	2014 Section 1D, 606582 - typo of "K" in I-91	Comment noted	06/13/2012
District 2	605144	2014 Section 1D, Project # is 605144, Project Description should be: Amherst-Northampton-Southampton-West Brookfield, Sidewalk & Wheelchair Ramp Construction on Routes 5, 9 and 10	Comment noted	06/13/2012
District 2	607207	2015 Section 1A, 607207 - Add Pelham to Description	Text updated	06/13/2012
District 2	604035	2015 Section 1A, 604035 - 1) Design is at 25% Resubmission 2) Total cost is \$3,543,593 (as shown in individual categories)	Comment noted	06/13/2012
District 2		2016 Section 1A, NORTHAMPTON- DRAINAGE SYSTEM REPAIRS & SLOPE STABILIZATION AT OLD WATER STREET, for \$1.45M	Comment noted	06/13/2012
District 2	606903	2016 Section 1A, Add Project #606903, HOLYOKE- IMPROVEMENTS TO LOWER WESTFIELD ROAD ON I-91 (INTERCHANGE 15), for \$1.1M	Comment noted	06/13/2012
District 2	606904	2016 Section 1A - Add Project #606904, HOLYOKE- SIGNAL INSTALLATION & IMPROVEMENTS ON CHERRY STREET @ I-91 (INTERCHANGE 16), for \$1.1M	Comment noted	06/13/2012

District 2	606005	2016 Section 1A, Add Project #606005, AGAWAM- RESURFACING & RELATED WORK ON SR57, FROM ROUTE 187 TO ROUTE 75, for \$3.57M	Comment noted	06/13/2012
District 2	605213	2016 Section 1A, 605213 - 1) Orig TFPC from 2010 = \$7,547,587; w/inflation to 2016, TFPC = \$9,550,105 2) Total cost shown is \$10,892,683	Comment noted	06/13/2012
District 2	606034	2016 Section 1A, 606034 - 1) Design is at PS&E 2) TFPC in 2012 = \$700,680; w/inflation to 2016, TFPC would be \$819,696	Comment noted	06/13/2012
District 2	605815	2016 Section 1A, 605815 - Design is at PS&E	Comment noted	06/13/2012
District 2	603730	2016 Section 1D, 603730 - Design is at 100%	Comment noted	06/13/2012
District 2	603783	2016 Section 1D, 603783 - Design is at 75%	Comment noted	06/13/2012
District 2	Appendix Z	603731 - is currently listed in Draft 2013 for Statewide TE	Removed from Appendix	06/13/2012
District 2	Appendix Z	606005 - 2012 TFPC is \$3,078,241	Removed from Appendix	06/13/2012
District 2	Appendix Z	82250 is fully funded on FY2012 TIP	Removed from Appendix	06/13/2012
District 2	Appendix Z	602653 is fully funded in 2012 TIP	Removed from Appendix	06/13/2012
District 2	Appendix Z	606229 - Project advertised in 2011 and currently under construction	Removed from Appendix	06/13/2012
District 2	Appendix Z	605685 - Project fully funded in FY2013 with earmark	Removed from Appendix	06/13/2012
District 2	Appendix Z	605676 - Project deactivated; work completed by Town	Removed from Appendix	06/13/2012
District 2	Appendix Z	605556 - Project fully funded on FY12 TIP; advertised in January 2012; Contract awarded in May	Removed from Appendix	06/13/2012
District 2	Appendix Z	604433 - Project currently listed in FY14	Removed from Appendix	06/13/2012
District 2	Appendix Z	604692 - TFPC in 2012 would be \$3,809,660	Comment noted	06/13/2012
District 2	Appendix Z	604819 - 2012 TPFC is \$4,500,000	Comment noted	06/13/2012
District 2	Appendix Z	606013 - Project has been deactivated	Removed from Appendix	06/13/2012
District 2	Appendix Z	602911 - Project currently listed in Draft 2016	Removed from Appendix	06/13/2012
District 2	Appendix Z	604435 - Project currently listed in Draft 2014 (but appearNumber: 6 on Boston Planning's 2016 Statewide CMAQ list)	Removed from Appendix	06/13/2012
District 2	Appendix Z	606034 - Project currently listed in Draft 2016	Removed from Appendix	06/13/2012
District 2	Appendix Z	606012 - Project advertised in Nov/2011; NTP issued under construction	Removed from Appendix	06/13/2012
District 2	Appendix Z	601672 - Project has been deactivated	Removed from Appendix	06/13/2012
District 2	Appendix Z	601350 - Project has been deactivated	Removed from Appendix	06/13/2012
	Appendix Z	602486 - project currently appears in	Removed from Appendix	06/13/2012
District 2	Appendix Z	605891 - Project currently appears in	Removed from Appendix	06/13/2012

District 2	Appendix Z	Easthampton/X00047 - Drop project; work being done in bridge project	Removed from Appendix	06/13/2012
District 2	Appendix Z	604614 - Project # shown is incorrect for Project Description shown; it should be 606582, which is currently listed in FY2014	Removed from Appendix	06/13/2012
District 2	Appendix Z	605682 - Project has been deactivated	Removed from Appendix	06/13/2012
District 2	Appendix Z	604035 - Project is currently listed in FY2015	Removed from Appendix	06/13/2012
District 2	Appendix Z	605032 - 2012 TFPC is \$4,525,144	Comment noted	06/13/2012
District 2	Appendix Z	603263 - project is currently listed in	Removed from Appendix	06/13/2012
	Appendix Z	606045 - project is currently listed in FY2013	Removed from Appendix	06/13/2012
	Appendix Z	Holyoke, I-91 Exit 15 project # is 606903; Current TFPC is \$1,031,250	Comment noted	06/13/2012
District 2	Appendix Z	Project # is 606156 for Holyoke, I-91 Exit 17 improvements; 2012 TFPC is \$2,441,580	Comment noted	06/13/2012
District 2	Appendix Z	605594 - Project was advertised in March/2012	Removed from Appendix	06/13/2012
District 2	Appendix Z	605886 - Project is listed in Draft	Removed from Appendix	06/13/2012
District 2	Appendix Z	605442 - Project was advertised in Dec/2011	Removed from Appendix	06/13/2012
District 2	Appendix Z	605687 - Project has been deactivated	Removed from Appendix	06/13/2012
District 2	Appendix Z	180525 - 2012 TFPC is \$3,080,339	Comment noted	06/13/2012
District 2	Appendix Z	Northampton, Glendale Road - "Road" is misspelled	Comment noted	06/13/2012
District 2	Appendix Z	Northampton, Hatfield St at Route 5/10 - Project # is 606555; 2012 TFPC is \$1,089,006	Comment noted	06/13/2012
District 2	Appendix Z	605143 - 2012 TFPC is \$1,249,369	Comment noted	06/13/2012
District 2	Appendix Z	"Improvements" is misspelled	Comment noted	06/13/2012
District 2	Appendix Z	606375 - Project is currently listed in FY 2013	Removed from Appendix	06/13/2012
District 2	Appendix Z	604452 - Project has been deactivated	Removed from Appendix	06/13/2012
District 2	Appendix Z	605066 - Project is currently listed in Draft 2016	Removed from Appendix	06/13/2012
District 2	Appendix Z	603783 - 2012 TFPC is \$1,200, 000	Comment noted	06/13/2012
District 2	Appendix Z	601504 - 2012 TFPC is \$27,425,820	Comment noted	06/13/2012
District 2	Appendix Z	601154 - Project has been split into two phases; this phase currently appears in Draft 2013	Project updated	06/13/2012
District 2	Appendix Z	605760 - Project has been deactivated	Removed from Appendix	06/13/2012
District 2	Appendix Z	606141 - 2012 TFPC is \$4,080,000	Comment noted	06/13/2012
District 2	Appendix Z	603477 - Project currently appears in Draft 2016	Removed from Appendix	06/13/2012
District 2	Appendix Z	605817 - Project is currently listed in FY12	Removed from Appendix	06/13/2012
District 2	Appendix Z	604821 - Project was advertised in March/2012	Removed from Appendix	06/13/2012
District 2	Appendix Z	604448 - Project has been deactivated	Removed from	06/13/2012

			Appendix	
District 2	Appendix Z	605385 - 2012 TFPC is \$1,705,575	Comment noted	06/13/2012
District 2	Appendix Z	605685 - Project currently appears in FY2014	Removed from Appendix	06/13/2012
District 2	Appendix Z	605213 - Project is currently listed in Draft 2016	Removed from Appendix	06/13/2012
District 2	Appendix Z	604210 - Project was advertised in Aug/2010	Removed from Appendix	06/13/2012
District 2	Appendix Z	603730 - Project is currently listed in FY2016	Removed from Appendix	06/13/2012
District 2	Appendix Z	603783 - Project is currently listed in Draft 2016	Removed from Appendix	06/13/2012
District 2	Appendix Z	604968 - Project currently appears in FY2014	Removed from Appendix	06/13/2012
District 2	Appendix Z	604442 - Project is currently listed in FY2013	Removed from Appendix	06/13/2012
District 2	Appendix Z	604446 - Project is currently listed in Draft 2014	Removed from Appendix	06/13/2012
District 2	Appendix Z	603330 - Project has been deactivated	Removed from Appendix	06/13/2012
District 2	Appendix Z	606046 - Project has been deactivated	Removed from Appendix	06/13/2012
District 2	Appendix Z	602387 - Project has been deactivated	Removed from Appendix	06/13/2012
District 2	Appendix Z	602822 - Project has been deactivated	Removed from Appendix	06/13/2012
District 2	Appendix Z	605815 - Project is currently listed in Draft 2016	Removed from Appendix	06/13/2012
District 2	Appendix Z	602386 - This project has been deactivated	Removed from Appendix	06/13/2012
District 2	Appendix Z	Totals need to be adjusted to reflect corrections above	Comment noted	06/13/2012
MassDOT	Transit	Add \$6,000,000 (fed) with 20% in Toll Credits (5309 Livability) for Springfield Redevelopment Authority (SRA) for Union Station for a total \$7,500,000	Project Added	6/18/2012
MassDOT	Transit	Add 5309 Funds with 20% State match for Union Station for a total \$1,900,000	Project Added	6/18/2012
MassDOT	Transit	Add (HPP 1155) 1998 with 20% State match \$1,675,509 for Union Station (Grant # 90-x34-01)	Project Added	6/18/2012
MassDOT	Transit	Add (HPP-1155) 1998 with 20% state match \$5,618,475 for Union Station (Grant # 03-0267)	Project Added	6/18/2012
MassDOT D2	82611	On behalf of Secretary Richard A. Davey, I am writing to inform you that the advance construction (AC) balances for the Willimansett bridge in Chicopee and Holyoke, have been paid in full. This includes the AC balance for federal fiscal year (FFY) 2013 and 2014 of the FFY 2013-2016 (TIP)	AC Funding Removed	10/30/2012
MassDOT D2	602912	On June 12, 2012, MassDOT Highway Division District 2 submitted a comment on a proposed amendment to the FFY 2012 Transportation	Funding added	11/2/2012

		Improvement Program (TIP), requesting to add Project No. 6029 12 Chicopee Riverwalk Multi-use Path to Part IA under STP for Total Cost of \$129,316. The request was approved by the PVMPO and the amendment including these STP funds was endorsed on June 19.2012. Approval of the design agreement to make use of the STP funds was delayed beyond the end of FFY 2012 for audit of the contract overhead rate. The design agreement is now ready for FHWA obligation and MassDOT requests that PVMPO amend the FFY 2013 TIP to list Project 602912 design in Part 1A under STP for a total cost of \$129,316.		
MassDOT	604442	Decrease cost of Westfield Project (604442) from \$5,138,400 to \$4,530,820 in section 1A	Cost Decreased	4/1/2013
MassDOT	602486	Increase the cost of Easthampton (602486) Intersection Improvements from \$2,760,969 to \$2,948,040 in section 1A	Cost Increased	4/1/2013
MassDOT	601154	Increase cost of Pelham (601154) Amherst Road Reconstruction from \$3,077,338 to \$3,249,274 in section 1A	Cost Increased	4/1/2013
MassDOT	606045	Increase Cost of Holyoke (606045) Intersection Lower Westfield Road at Homestead Ave from \$1,352,827 to \$1,518,237. This causes CMAQ to overfunded, \$156,253 of the project move to STP and will be funded as STP to CMAQ in section 1A	Cost Increased	4/1/2013
MassDOT	604271	Increase Chester (604721) Bridge Replacement from \$1,055,423 to \$1,240,420 in section 1B	Cost Increased	4/1/2013
MassDOT	602994	Decrease Cost of Huntington (602994) from \$3,837,101 to \$3,429,501	Cost Decreased	4/1/2013
MassDOT	605618	Remove Ludlow (605618) Bridge Rehabilitation, project will be funded in later year in section 1B	Project Removed	4/1/2013
MassDOT	604339	Reduce Westhampton (604339) Bridge Rehabilitation from \$1,093,834 to \$891,051 in section 1B	Cost Decreased	4/1/2013
MassDOT	603731	Increase the Cost of Agawam(603731) Bike Loop from \$2,506,021 to	Cost Increased	4/1/2013

		\$2,725,447 in section 1D		
MassDOT	605353	Add West Springfield (605353) Superstructure Replacement as ABP-GANS for \$4,401,550 to section 2B	Project Added	4/1/2013
MassDOT	606345	Increase Springfield (606345) Bridge Preservation from \$3,125,400 to \$3,750,480	Cost Increased	4/1/2013
MassDOT OTP	Scenic Byway Funds	<p>The first two PVPC Scenic Byways projects below should not have a problem meeting the September 30 deadline. The “new” project in FRCOG should meet the deadline as well, as long as we receive an updated scope in time. The Jacob’s Ladder project is not as likely to meet the deadline because of the environmental issues and revised scope. I will get an additional update on that next week.</p> <ul style="list-style-type: none"> <li>• Route 112/Jacob’s Ladder Trail – Trail Linkages Project: The funds have been obligated and the contract package has been completed. The only thing we are waiting on is a final ok from FHWA. Hopefully, the contract package will go out next week.</li> <li>• CT River - Recreation Enhancement: The Scope and Budget are still at FHWA awaiting final approval. We will try and get an update from them next week.</li> <li>• CT River – Corridor Management Plan: Awaiting the final scope and budget with updated Title VI language from FRCOG.</li> </ul>		6/21/2013
MassDOT OTP	605353	West Springfield Superstructure Replacement from the ABP-GANs list for \$4,401,550 needs to be removed from the amendment as the funds this project and several others across the state had to be reallocated.	Project Removed	6/25/2013
MassDOT District 1	604721	Chester Bridge Replacement – the current TFPC for this project is \$1,369,736 (TIP amendment was for cost increase from \$1,055,423 to \$1,240,420)	Cost Updated	7/2/2013
MassDOT District 1	602994	Huntington Bridge Replacement – the current TFPC for this project is \$4,431,503 (TIP amendment was for cost decrease	Cost Updated	7/2/2013

	from \$3,837,101 to \$3,429,501)		
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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**

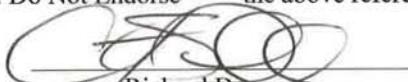
## PIONEER VALLEY MPO ENDORSEMENT SHEET

The signatures below signify that all members of the Pioneer Valley Region's Metropolitan Planning Organization, or their designees, have met on July 9, 2013 and discussed the following item for endorsement: Amendments to the Pioneer Valley Region's Federal Fiscal Years 2013 – 2016 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.



Richard Davey  
Secretary & CEO Mass DOT

7/9/13

Date

### Massachusetts Department of Transportation Highway Division

I, Administrator of the Highway Division of MassDOT, hereby

Endorse       Do Not Endorse      the above referenced item.



Frank DePaola  
Highway Administrator, Mass DOT

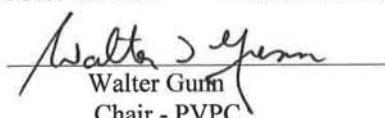
07/09/13

Date

### Pioneer Valley Planning Commission (PVPC)

I, Chair of the Pioneer Valley Planning Commission, hereby

Endorse       Do Not Endorse      the above referenced item.



Walter Gurn  
Chair - PVPC

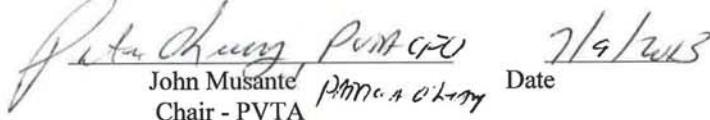
7/9/13

Date

### Pioneer Valley Transit Authority (PVTA)

I, Chair of the Pioneer Valley Transit Authority, hereby

Endorse       Do Not Endorse      the above referenced item.



John Musante  
Chair - PVTA

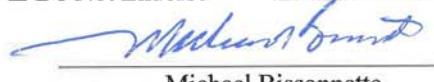
7/9/13

Date

### City of Chicopee

I, Mayor of the City of Chicopee, hereby

Endorse       Do Not Endorse      the above referenced item.



Michael Bissonnette  
Mayor-Chicopee

7/9/13

Date

FFY 2013 – 2016 Transportation Improvement Program Amendments

**City of Holyoke**

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

Alex Morse  
Mayor-Holyoke

Date

**City of Northampton**

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

David Narkewicz  
Mayor-Northampton

Date

**City of Agawam**

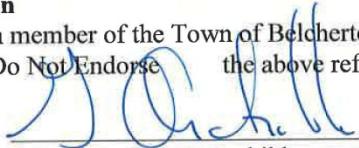
I, Mayor of the Town of Agawam, hereby  
 Endorse       Do Not Endorse      the above referenced item.

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

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

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 2004. 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 19, 2012 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:

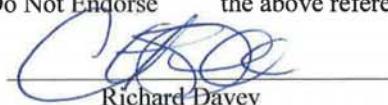
1. 23 U.S.C. 134, 49 U.S.C. 5303, and this subpart;
2. In non-attainment and maintenance areas, sections 174 and 176 (c) and (d) of the Clean Air Act, as amended (42 U.S.C. 7504, 7506 (c) and (d)) and 40 CFR part 93;
3. Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d-1) and 49 CFR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

2013 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

19Jun12  
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

06/19/12  
Date

**Pioneer Valley Planning Commission (PVPC)**

I, Chair of the Pioneer Valley Planning Commission, hereby

Endorse       Do Not Endorse      the above referenced item.

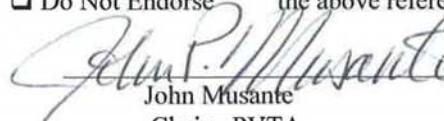
  
Walter Gunn  
Chair - PVPC

6-19-12  
Date

**Pioneer Valley Transit Authority (PVTA)**

I, Administrator of the Pioneer Valley Transit Authority, hereby

Endorse       Do Not Endorse      the above referenced item.

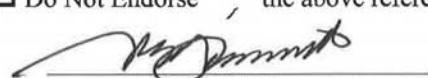
  
John Musante  
Chair - PVTA

6/19/12  
Date

**City of Chicopee**

I, Mayor of the City of Chicopee, hereby

Endorse       Do Not Endorse      the above referenced item.

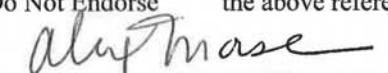
  
Michael Bissonnette  
Mayor-Chicopee

6/19/12  
Date

**City of Holyoke**

I, Mayor of the City of Holyoke, hereby

Endorse       Do Not Endorse      the above referenced item.

  
Alex Morse  
Mayor-Holyoke

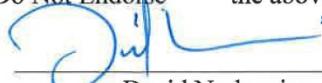
6-19-12  
Date

2013 3C Self Certification

**City of Northampton**

I, Mayor of the City of Northampton, hereby

Endorse       Do Not Endorse      the above referenced item.



David Narkewicz  
Mayor-Northampton

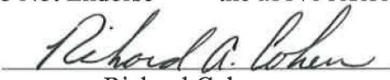
6-19-12

Date

**City of Agawam**

I, Mayor of the Town of Agawam, hereby

Endorse       Do Not Endorse      the above referenced item.



Richard Cohen  
Mayor-Agawam

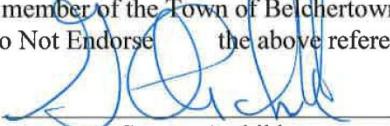
19 JUNE 2012

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

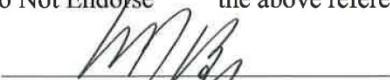
19 June 2012

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

19 JUN 12

Date

## **FUNDING INFORMATION**

### **Federal Aid Funding Targets**

The MassDOT provided the revised PVPC federal aid highway funding targets and CMAQ targets for the region on March 14, 2012. The targets are provided for FFYs 2013 through 2016 and represent both the federal aid portion and respective state match.

Federal financial resources for transit are projected using appropriated amounts provided by the FTA for the funding categories of Sections 5307 and 5311. Sections 5309 and 20 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 2013-2016. 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 2013 – 2016.

Project using Target funds were inflated 4% per year starting in FFY2014 in order to reflect year of construction cost.

**Table 3**  
**Federal Highway Financial Plan**

Fiscal Year	Federal Target	Federal Aid Programed	CMAQ Target	CMAQ Funded	HSIP Target	HSIP Funded	Total Available Funds	Total Programmed Funds
2013	\$13,300,065	*\$13,234,981	\$2,161,984	\$2,152,827	\$1,080,992	\$1,080,992	\$16,543,041	\$16,468,800
2014	\$16,655,382	\$16,499,503	\$2,161,984	\$2,161,984	\$1,080,992	\$1,080,992	\$19,898,358	\$19,749,479
2015	\$11,680,117	\$11,715,151	\$2,161,984	\$2,161,984	\$1,080,992	\$1,080,992	\$14,923,093	\$14,958,127
2016	\$15,898,688	\$15,252,842	\$2,161,984	\$2,161,984	\$1,080,992	\$1,080,992	\$19,141,664	\$18,495,818

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 consist 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**

Fiscal Year	Total Programmed
2013	\$26,685,088
2014	\$18,682,110
2015	\$98,313,799
2016	\$16,133,799

The transit projects programmed focus on maintaining and operating the present system and reflect little to no expansion. The present transit system is being evaluated in order to service the same area more efficiently.

## IV. TRANSPORTATION PROJECT PRIORITIES

### ORGANIZATION OF PROJECT LISTINGS

Each project in the TIP contains the following information:

**SID** - Project identification numbers given by the Massachusetts Highway Department.

**City/Town** - Town or city in which a project is located.

**Project Description** - A brief description of work to be funded under the project.

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

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

**State Funds** - The amount of state dollars allocated to the project.

**Total Cost** - The total dollar amount that the project is expected to cost.

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

**TEC Score** – Transportation Evaluation Criteria (TEC) is used by the TIP sub-committee to rank each potential TIP project

Year	Community	SID	Project Name	Design	Estimated Cost	TEC Score	Notes
\$1,367,356 (Sec 125 =							
2013	Springfield	605817	Spring, Elliot, and Edward St intersection improvements	75	\$0	9.00	8.7
2014	Westfield	604446	Route 187 - Little River Road reconstruction	75	\$5,504,386	8.00	7.87
2013	Westfield	604442	Route 187 - Feeding Hills Road reconstruction	100	\$5,441,804	8.00	7.78
2014	Belchertown	604433	Route 181 (Design Exception) Reconstruction	100	\$11,145,181	8.00	7.73
	Westfield	604445	Route 187 - Sherman's Mill Bridge reconstruction	75	\$6,926,210	8.00	7.6
2013	Easthampton	602486	West St./Glendale St./Loudville/PomeroyMeadow Intersection Improvements	75	\$2,760,969	6.00	6.47 HSIP
2013	Pelham	601154	Amherst Rd. Reconstruction Phase I	100	\$2,511,038	6.00	5.55
2015	Pelham	601154	Amherst Rd. Reconstruction Phase II	100	\$2,601,492	6.00	5.55
2013	Holyoke / West Springfield	606643	I-91/Route 57-90 Connector Improvements	75	\$1,006,395	5.00	4.73 HSIP
2013	Plainfield	604825	Route 116 (Main St.) Rehabilitation 1.9 miles	75	\$1,683,000	5.00	4.68
2015	Easthampton/Holyoke	605891	Route 5 resurfacing Oxbow Bridge SB to end of State Highway	100	\$2,838,128	5.00	4.62 PS&E
2015 Enh	Cummington	605582	Route 9 Pavement Preservation	100	\$8,493,542	4.00	3.9 PS&E
2015	Huntington	605615	Route 112 Resurfacing	100	\$3,900,000	4.00	3.85 PS&E
	Blandford/Russell	605614	Resurfacing Route 23	100	\$5,700,000	4.00	3.65 PS&E
2015	Westhampton	605815	Route 66 4.5 miles through Westhampton	100	\$1,395,214	4.00	3.53 PS&E
	Agawam	606605	Route 57 EB and WB Resurfacing	100	\$3,978,241	3.00	2.73 PS&E
2016	Chicopee	606034	Montgomery Road improvements Granby Rd to Dale Street 0.78 miles	75	\$653,750	2.00	2.03
	Springfield	605222	North end and Brightwood Infrastructure Improvements (North)	25	\$4,789,378	10.00	10.3
2016	Springfield/Wilbraham	605213	Boston Rd Reconstruction (Route 20)	25	\$8,683,580	10.00	10.2 HSIP
2013	Holyoke	606045	Homestead Ave @ Lower Westfield Rd improvements	25	\$1,352,827	10.00	10
2014	Chicopee	604435	Memorial Drive (Rt 33) T traffic signal improvement	25	\$1,461,241	10.00	10
	Ludlow	605011	Center Street (Route 21) reconstruction	25	\$4,728,895	10.00	9.65
	Springfield	605685	Signal and Intersection Improvements Summer Ave, Allen Street, Abbott Street, and Harkness Ave	25	\$2,057,600	9.00	8.82 HSIP
2015	Hadley	604035	Route 9 at Route 47 intersection improvements	25	\$3,038,060	8.00	8.02 HSIP
	Hadley	605032	Route 9 reconstruction near Hampshire Mall	25	\$4,428,122	8.00	7.83
	Northampton	180525	Damon Rd. Safety Improvement	25	\$3,080,339	7.00	7.28
2016 SW-CMAQ	Southwick	603477	Route 57 Reconstruction 0.5 mile section between Powder Mill Road and Hudson Drive	25	\$2,910,000	7.00	7.17
	Agawam	600513	N. Westfield St. / S. Westfield St. (Rte. 187) improvements	25	\$12,547,650	7.00	7.05
	Southwick	604033	Congamond Rd. (Rte. 168) Reconstruction	25	\$5,104,596	7.00	6.52
	Longmeadow	606445	Resurfacing and related work on Converse Street from Lourell Street to Dwight Street	25	\$1,585,760	6.00	6.05
	Southampton	604653	East St. Reconstruction	25	\$5,022,200	6.00	6.03
	Belchertown	604692	N. Washington St. Reconstruction	25	\$3,740,430	6.00	5.63
	Goshen	602888	Roosevelt Ave. @ Island Pond Rd and Roosevelt Ave @ Alden Street intersection	25	\$6,500,000	6.00	5.62
	Springfield	605585	improvements	25	\$1,529,817	5.00	5.47
	Chesterfield	605813	Route 143 Resurfacing and Related Work	25	\$6,000,000	4.00	4.38
2014	Longmeadow	605886	Route 5 Resurfacing and Related Work	25	\$615,993	4.00	4

Year	Community	SID	Project Name	Project Name	Design		Estimated Cost		TEC Score		Notes
					Design	Estimated Cost	TEC Score	Cost	Consultation		
2014 Enh	West Springfield	605150	West Street Reclamation		25	\$2,513,272	3.00	2.9			
	Goshen	603730	604748 Sidewalk and Bike Lanes and improvements		100	\$2,600,000	\$500,000,000	11.00	[ ] 1.1		
	Agawam	603372	Connector, Rte 5 to Rte 57/rotary		0	\$11,670,939	9.00	9.1			
2016	Westfield, Palmer	605213	West Avenue Highway Improvement HPP Funding available		75	\$8,533,580	\$3,360,000	9.00	[ ] 8.97		
	Chicopee	603449	West Avenue Highway Improvement		0	\$6,210,000	9.00	8.57			
2015	Hadley	605881	Route 9 reconstruction Middle Street to Lowes		22	\$1,212,027	\$6,900,000	8.00	[ ] 8.12		
	Holyoke/West Springfield	604209	Route 5 Reconstruction from I-91 Exit 13 to Main Street in Holyoke		0	\$3,000,000	8.00	7.82			
2014	Southwick/Northampton	604508	Roundabout improvements summer ave, main street, exit 18 highway interchange		25	\$2,827,600	\$8,000	8.00	[ ] 7.78		
	Palmer	601504	Rte. 32 (Ware Road)		0	\$27,425,820	8.00	7.58			
2015	Northampton	604452	Intersection improvements at Route 9/Route 5/Route 202		22	\$2,518,000	\$200,000	7.00	[ ] 7.17		
		605066	Roundabout Route 5 @ Conz Street		0	\$1,000,000	7.00	7.17			
2016 SW-CMAQ	Northampton	604067	604203 Rte 9/Route 187/57/HIgway/West/Southern Section		25	\$1,916,000	\$1,500,000	7.00	[ ] 6.78		
	Agawam	604448	Main St, Front, Route 141 Improvements (Indian Orchard)		0	\$1,000,000	7.00	6.73			
	Springfield	605048	Mountain Rd (Route 5) improvements		22	\$1,200,000	\$1,200,000	6.00	[ ] 5.82		
	Northampton	604155	Routes 10/202 resurfacing (northerly)		0	\$2,000,000	6.00	5.8			
	Southwick	604153	Routes 10/202 resurfacing (southerly)		0	\$2,600,000	\$6,000	6.00	[ ] 5.77		
	Southwick/Granby	604819	Route 202 Resurfacing		0	\$4,500,000	6.00	5.63			
2015 CMAQ	Northampton	606555	Roundabout Route 5/10 @ Hatfield Street		22	\$1,089,000	\$1,089,000	6.00	[ ] 5.58		
	Holyoke	604434	604504 Rte 9 SB interchange 17 at Route 141		0	\$6,000,000	\$1,000,000	5.00	[ ] 5.45		
		606450	High Street and Maple Street Intersection Improvements		0	\$4,080,000	5.00	5.13			
2016 SW-CMAQ	Southwick	606141	Feeding Hills Road Reconstruction (Route 57)		0	\$1,000,000	\$500,000	5.00	[ ] 4.93		
	W. Hadley	603454	6027Wgus\$RtMmNphsPrcfthPrfgh		0	\$1,200,000	4.00	4.4			
	Palmer	603873	Route 20 improvements		0	\$312,500	4.00	4.3			
20	Northampton	605896	Route 5 improvements I-91 NB on ramp to Holyoke Street/Bike/Ped Total		222,684,371	\$21,600,000	4.00	4.33			
	Wales	605669	Sidewalk improvements		0	\$1,630,070	4.00	4.22			
2016 Southwick	Amherst / Pelham	606230	Resurfacing and Related Work on Route 9		0	\$1,800,000	4.00	4.1			
		606452	Route 11A Resurfacing		0	\$80,051,644	4.00	3.7			
	Monson - Palmer	606663	Route 32 Resurfacing		0	\$1,800,000	4.00	3.52			
2012 Enh	West Springfield	606412	Route 9 Retaining Wall Repair		0	\$1,000,000	\$250,000,000	3.00	[ ] 3.07		
	Cummington	606664	Route 116 Resurfacing		0	\$1,000,000	3.00	3.07			
	Granby/South Hadley	603874	Resurfacing and Related Work Route 9 Training		100	\$1,012,957	\$300,000	3.00	[ ] 3.03		
	Deerfield/Enfield	606662	Route 10 Resurfacing and Related Work		0	\$150,000	1.00	0.7			
	W. Ware	604962	Brimfield Road Resurfacing		0	\$1,300,000	0.00	0			
2012 Enh	Northampton	604962	Route 10 Resurfacing and Related Work		0	\$1,300,000	0.00	0			
	Holland	605066	Route 10 Resurfacing and Related Work		0	\$1,300,000	0.00	0			

## **V. FEDERAL AID REGIONAL PROJECT LISTINGS**

The following is a complete listing of the Pioneer Valley Federally Funded Transportation Improvement Projects for Fiscal Years 2013 - 2016.

## Federally Funded Projects Year 2013 (Continued)

**Table 5: Federally Funded Projects Year 2013**

MassDOT Project ID ▼	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>► STP - Surface Transportation Program</b>							
604442	WESTFIELD- RECONSTRUCTION OF ROUTE 187 (FEEDING HILLS ROAD)	2	STP	\$ 4,796,145	\$ 3,836,916	\$ 959,229	7.78 TEC 100% Needs ROW and Env. Work
602486	EASTHAMPTON- INTERSECTION IMPROVEMENTS @ POMEROY MEADOW ROAD, LOUDVILLE ROAD, GLENDALE STREET T, WEST STREET	2	STP	\$ 2,739,871	\$ 2,191,897	\$ 547,974	6.47 TEC Advertised 6/22/13 Letting 8/13/13
604825	PLAINFIELD- REHABILITATION OF ROUTE 116 PELHAM- RECONSTRUCTION OF AMHERST ROAD, FROM THE AMHERST T.L. TO 800 FEET EAST OF ENFIELD ROAD (1.7 MILES) - PHASE 1	1	STP	\$ 1,478,066	\$ 1,182,453	\$ 295,613	4.68 TEC Awarded 1/15/2013 Palmer
601154		2	STP	\$ 3,312,778	\$ 2,650,222	\$ 662,556	5.55 TEC P.S.& E Adv. Letting 7/2/13
606643	WEST SPRINGFIELD- IMPROVEMENTS & RELATED WORK ON I-91/ROUTE 5/I-90 CONNECTOR ROAD	2	STP	\$ 166,958	\$ 133,566	\$ 33,392	4.73 TEC 75% (Adv. 4/6/13, Letting 6/11/13 \$1,183,000)
602912	CHICOPEE- CHICOPEE RIVER RIVERWALK MULTIEUSE PATH CONSTRUCTION, FROM GRAPE STREET T TO FRONT STREET (NEAR ELLERTON STREET) - Design	2	STP	\$ 129,316	\$ 103,453	\$ 25,863	Design Only
			STP Subtotal ▶	\$ 12,623,134	\$ 10,098,507	\$ 2,524,627	► 80% Federal + 20% Non-Federal
606643	► HSIP - Highway Safety Improvement Program WEST SPRINGFIELD- IMPROVEMENTS & RELATED WORK ON I-91/ROUTE 5/I-90 CONNECTOR ROAD	2	HSIP	\$ 1,080,992	\$ 972,893	\$ 108,099	4.73 TEC 75% (Awarded 6/11/2013)
			HSIP Subtotal ▶	\$ 1,080,992	\$ 972,893	\$ 108,099	► Funding Split Varies by Project Specifications
<b>► CMAQ - Congestion Mitigation and Air Quality Improvement Program</b>							
606375	NORTHAMPTON- PARK & RIDE CONSTRUCTION AT THE VA MEDICAL CENTER	2	CMAQ	\$ 800,000	\$ 640,000	\$ 160,000	5.77 TEC Awarded 4/17/2013 \$757,070
606045	HOLYOKE- SIGNAL & INTERSECTION IMPROVEMENTS AT HOMESTEAD AVENUE & LOWER WESTFIELD ROAD (2,029,157)	2	CMAQ	\$ 2,029,157	\$ 1,623,326	\$ 405,831	10.02 TEC 100%
			CMAQ Subtotal ▶	\$ 2,829,157	\$ 2,263,326	\$ 565,831	► 80% Federal + 20% Non-Federal
<b>► Section 1A / Fiscal Constraint Analysis</b>							
<b>Total Federal Aid Target Funds Programmed</b>							
				\$ 16,533,283	\$ 16,543,041	► Total Target \$ 9,758 Target Funds Available	
	Total STP Programmed	►		\$ 12,623,134	\$ 13,300,065	► Max. STP \$ 676,331 STP Available	
	Total HSIP Programmed	►		\$ 1,080,992	\$ 1,080,992	► Min. HSIP \$ - HSIP Minimum Met	
	Total CMAQ Programmed	►		\$ 2,829,157	\$ 2,161,984	► Min. CMAQ \$ (667,173) CMAQ Minimum Met	
<b>► Section 1B / Federal Aid Bridge Projects</b>							
604721	CHESTER - BRIDGE REPLACEMENT, C-11-020, GEORGE MILLER ROAD OVER THE MIDDLE BRANCH OF THE WESTFIELD RIVER	2	BR - Off	\$ 1,369,736	\$ 1,095,789	\$ 273,947	25%
602994	HUNTINGTON - BRIDGE REPLACEMENT ROUTE 112 OVER THE WESTFIELD RIVER & CSX RAILROAD	1	BR - Off	\$ 4,431,503	\$ 3,545,202	\$ 886,301	25%
604339	WESTHAMPTON - BRIDGE REHABILITATION, W-27-015, NORTH ROAD OVER ROBERTS MEADOW BROOK	2	BR - Off	\$ 905,990	\$ 724,792	\$ 181,198	1%
606345	SPRINGFIELD - BRIDGE REHABILITATION, S-24-077, ROUTE 1-291 OVER PAGE BOULEVARD	2	BR - On	\$ 3,750,480	\$ 3,000,384	\$ 750,096	Pre 25%
			BR Subtotal ▶	\$ 10,457,709	\$ 8,366,167	\$ 2,091,542	► 80% Federal + 20% Non-Federal

► Section 1C / Federal Aid Non-Target Projects						
► Earmarks						
603263	HOLYOKE- CANAL WALK EXTENSION (2ND LEVEL CANAL), FROM APPLETON STREET TO DWIGHT STREET (PHASE II)	2	HPP (2005)	\$ 4,381,454	\$ 3,505,163	\$ 876,291 HPP-4274 100% ROW work needed
605065	AMHERST- HADLEY- NORTHAMPTON- NORWOTTUCK RAIL TRAIL IMPROVEMENTS	2	HPP (2005)	\$ 4,449,450	\$ 3,559,560	\$ 889,890 HPP-1773 Awarded
	Earmarks Subtotal ►	\$ 8,830,904		\$ 7,064,723	\$ 1,766,181	► Funding Split Varies by Earmark
► Other						
	CT River Scenic Byway PVPC FFY2011 Access and Interpretation	2 Other	\$203,364	\$ 162,691	\$ 40,673 NSBG	
	PVPC FFY2010 Trails Linkages project for Route 112 and JLT	1 Other	\$68,375	\$ 54,700	\$ 13,675 NSBG	
	PVTA SERVICE AREA - SIGNAGE PROJECT	2 Other	\$450,000	\$ 450,000	\$ - Repurposed Federal Earmark Funds	
	Other Subtotal ►	\$ 721,739		\$ 667,391	\$ 54,348	► Funding Split Varies by Funding Source
► Section 1D / Federal Aid Major & State Category Projects						
► IM - Interstate Maintenance						
	No Projects Programmed	IM Subtotal ►	\$ -	\$ -	\$ -	► 90% Federal + 10% Non-Federal
► NHS - National Highway System						
	No Projects Programmed	NHS Subtotal ►	\$ -	\$ -	\$ -	► 80% Federal + 20% Non-Federal
► Other						
603731	AGAWAM- CONSTRUCTION OF BIKEWAY LOOP CONNECTING CONNECTICUT RIVERWALK WITH MAIN STREET	2 Other	\$ 3,190,620	\$ 2,552,496.0	\$ 638,124.0 P,S,&E ROW word needed	
	Other Subtotal ►	\$ 3,190,620		\$ 2,552,496	\$ 638,124	► Funding Split Varies by Funding Source
► Section 2A / Non-Federal Projects						
	No Projects Programmed	Non-Federal Projects Subtotal ►	\$ -	\$ -	\$ -	► 100% Non-Federal
► Section 2B / Non-Federal Bridge Projects						
	Non-Federal Bridge Projects Subtotal ►	\$ -		\$ -	\$ -	► 100% Non-Federal
► TIP Section 1: TIP Section 2: Total of All Projects ▼						
Total	\$ 39,734,255	\$ -	\$ 39,734,255	\$ -	\$ 39,734,255	► Total Spending in Region
Federal Funds	\$ 31,985,503	\$ -	\$ 31,985,503	\$ -	\$ 31,985,503	► Total Federal Spending in Region
Non-Federal Funds	\$ 7,748,752	\$ -	\$ 7,748,752	\$ -	\$ 7,748,752	► Total Non-Federal Spending in Region

## 2013 Pioneer Valley MPO TIP Summary

**Table 7: Federally Funded Projects 2014**

MassDOT Project ID ▼	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>► STP - Surface Transportation Program</b>							
604433	BELCHERTOWN- PAVEMENT REHABILITATION & RELATED WORK ON ROUTE 181	2	STP	\$ 9,908,200	\$ 7,926,560	\$ 1,981,640	7.73 TEC 100%
604446	WESTFIELD- RECONSTRUCTION OF ROUTE 187 (LITTLE RIVER ROAD) AND SHAKER ROAD	2	STP	\$ 6,028,800	\$ 4,823,040	\$ 1,205,760	7.87% TEC 75% Updated Cost from Consultant
604435	CHICOPEE- SIGNAL & INTERSECTION IMPROVEMENTS AT MEMORIAL DRIVE (ROUTE 33) & BROADWAY (\$1,580,479 YOE)	2	STP	\$ 562,503	\$ 450,002	\$ 112,501	10 TEC 25%
			STP Subtotal ►	\$ 16,499,503	\$ 13,199,602	\$ 3,299,901	► 80% Federal + 20% Non-Federal
<b>► HSIP - Highway Safety Improvement Program</b>							
605685	SPRINGFIELD- SIGNAL & INTERSECTION IMPROVEMENTS AT SUMNER AVENUE, ALLEN STREET, ABBOT STREET & HARKNESS AVENUE (\$2,225,000 YOE)	2	HSIP	\$ 1,080,992	\$ 864,794	\$ 216,198	8.8 TEC 0% \$1,087,600
			HSIP Subtotal ►	\$ 1,080,992	\$ 864,794	\$ 216,198	► Funding Split Varies by Project Specifications
<b>► CMAQ - Congestion Mitigation and Air Quality Improvement Program</b>							
605685	SPRINGFIELD- SIGNAL & INTERSECTION IMPROVEMENTS AT SUMNER AVENUE, ALLEN STREET, ABBOT STREET & HARKNESS AVENUE (\$2,225,000 YOE)	2	CMAQ	\$ 1,144,008	\$ 915,206	\$ 228,802	8.8 TEC 0% \$1,087,600
604435	CHICOPEE- SIGNAL & INTERSECTION IMPROVEMENTS AT MEMORIAL DRIVE (ROUTE 33) & BROADWAY (\$1,580,479 YOE)	2	CMAQ	\$ 1,017,976	\$ 814,381	\$ 203,595	10 TEC 25%
			CMAQ Subtotal ►	\$ 2,161,984	\$ 1,729,587	\$ -	► 80% Federal + 20% Non-Federal
<b>► Section 1A / Fiscal Constraint Analysis</b>							
<b>Total Federal Aid Target Funds Programmed ►</b>							
				\$ 19,742,479	\$ 19,898,358	► Total Target	\$ 155,879 Target Funds Available
Total STP Programmed ►				\$ 16,499,503	\$ 16,655,382	► Max. STP	\$ 155,879 STP Available
Total HSIP Programmed ►				\$ 1,080,992	\$ 1,080,992	► Min. HSIP	\$ - HSIP Minimum Met
Total CMAQ Programmed ►				\$ 2,161,984	\$ 2,161,984	► Min. CMAQ	\$ - CMAQ Minimum Met
<b>► Section 1B / Federal Aid Bridge Projects</b>							
604429	PELHAM- BRIDGE REPLACEMENTS, P-04-006, MEETINGHOUSE ROAD OVER AMETHYST BROOK & P-04-007, MEETINGHOUSE ROAD OVER HARRIS BROOK	1	BR	\$ 2,184,000	\$ 1,747,200	\$ 436,800	► 80% Federal + 20% Non-Federal
			BR Subtotal ►	\$ 2,184,000	\$ 1,747,200	\$ 436,800	► 80% Federal + 20% Non-Federal

Table 5: Federally Funded Projects Year 2014 (Continued)

► Section 1C / Federal Aid Non-Target Projects						
► Earmarks						
604968	WESTFIELD-COLUMBIA GREENWAY RAIL TRAIL CONSTRUCTION, NORTH SECTION - FROM COWLES COURT ACCESS RAMPS TO THE WESTFIELD RIVER BRIDGE. INCLUDES REHAB OF W-25-036 (WESTFIELD RIVER CROSSING)	2	HPP (2005)	\$ 2,275,104	\$ 1,785,506	\$ 489,598
No Projects Programmed				\$ -	\$ -	\$ -
► Other	No Projects Programmed		Earmarks Subtotal ►	\$ 2,275,104	\$ 1,785,506	\$ 489,598
			Other Subtotal ►	\$ -	\$ -	► Funding Split Varies by Eammark
				\$ -	\$ -	► Funding Split Varies by Funding Source
► Section 1D / Federal Aid Major & State Category Projects						
► IM - Interstate Maintenance						
600582	Easthampton/Northampton - Interstate Maintenance and Related Work I-91	2	IM	\$ 11,228,880	\$ 10,105,992	\$ 1,122,888
No Projects Programmed			IM Subtotal ►	\$ 11,228,880	\$ 10,105,992	\$ 1,122,888
No Projects Programmed			NHS Subtotal ►	\$ -	\$ -	► 90% Federal + 10% Non-Federal
► Other	SOUTHAMPTON - SOUTHAMPTON SAFE ROUTES TO SCHOOL - NORRIS ELEMENTARY SCHOOL	2	Other	\$372,940	\$572,940	\$0
	SPRINGFIELD - SAFE ROUTES TO SCHOOL - ALICE BEAL SCHOOL	2	Other	\$404,560	\$404,560	\$0
606513	NORTHAMPTON - TRANSIT SIGNAL PRIORITY SYSTEM INSTALLATION ON ROUTE 9	2	Other	\$231,853	\$185,482	\$46,371
603144	Amherst-Northampton-Southampton-West Brookfield, Sidewalk & Wheelchair Ramp Construction on Routes 5, 9 and 10	2	Other	\$1,600,000	\$1,280,000	\$320,000
			Other Subtotal ►	\$ 2,809,353	\$ 2,442,982	\$ 366,371
						► Funding Split Varies by Funding Source
► Section 2A / Non-Federal Projects						
No Projects Programmed			Non-Federal Projects Subtotal ►	\$ -	\$ -	► 100% Non-Federal
► Section 2B / Non-Federal Bridge Projects						
No Projects Programmed			Non Federal Bridge Projects Subtotal ►	\$ -	\$ -	►100% Non-Federal
TIP Section 1: TIP Section 2: Total of All Projects ▼						
Total ►	\$ 38,239,816	\$ -	\$ 38,239,816	\$ -	\$ 38,239,816	► Total Spending in Region
Federal Funds ►	\$ 31,875,664	\$ -	\$ 31,875,664	\$ -	\$ 31,875,664	► Total Federal Spending in Region
Non-Federal Funds ►	\$ 6,364,152	\$ -	\$ 6,364,152	\$ -	\$ 6,364,152	► Total Non-Federal Spending in Region

**Table 9: Federally Funded Projects 2015**

MassDOT Project ID ▼	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>► STP - Surface Transportation Program</b>							
607207	Pelham - Amherst Road Reconstruction from 800 feet east of Enfield Road to Route 202 (2.5 miles) - Phase 2	2	STP	\$ 3,481,542	\$ 2,785,234	\$ 696,308	5.55 TEC 100%
605891	EASTHAMPTON- HOLYOKE- RESURFACING & RELATED WORK ON ROUTE 5	2	STP	\$ 3,065,178	\$ 2,452,142	\$ 613,036	4.62 TEC PSE
604035	HADLEY- SIGNAL & INTERSECTION IMPROVEMENTS AT ROUTE 9 (RUSSELL STREET) & ROUTE 47 (MIDDLE STREET) (\$3,543,593 YOE)	2	STP	\$ 300,617	\$ 240,494	\$ 60,123	8.017 TEC 25%
605615	HUNTINGTON- RESURFACING & RELATED WORK ON ROUTE 112, FROM MM 0.11 TO MM 8.52	2	STP	\$ 4,212,000	\$ 3,369,600	\$ 842,400	3.85 TEC PSE
605886	LONGMEADOW- RESURFACING & RELATED WORK ON ROUTE 5 (LONGMEADOW STREET), FROM EDGEWOOD STREET TO WARREN TERRACE, INCLUDES CULVERT REPAIRS AT COOLEY BROOK	2	STP	\$ 655,814	\$ 524,651	\$ 131,163	4 TEC 25%
	STP Subtotal ►	\$ 11,715,151	\$ 9,372,121	\$ 2,343,030	► 80% Federal + 20% Non-Federal		
<b>► HSIP - Highway Safety Improvement Program</b>							
604035	HADLEY- SIGNAL & INTERSECTION IMPROVEMENTS AT ROUTE 9 (RUSSELL STREET) & ROUTE 47 (MIDDLE STREET) (\$3,543,593 YOE)	2	HSIP	\$ 1,080,992	\$ 972,893	\$ 108,099	8.017 TEC 25%
	No Projects Programmed			\$ -	\$ -	\$ -	
	HSIP Subtotal ►	\$ 1,080,992	\$ 972,893	\$ 108,099	► Funding Split Varies by Project Specifications		
<b>► CMAQ - Congestion Mitigation and Air Quality Improvement Program</b>							
604035	HADLEY- SIGNAL & INTERSECTION IMPROVEMENTS AT ROUTE 9 (RUSSELL STREET) & ROUTE 47 (MIDDLE STREET) (\$3,543,593 YOE)	2	CMAQ	\$ 2,161,984	\$ 1,729,587	\$ 432,397	8.017 TEC 25%
	No Projects Programmed			\$ -	\$ -	\$ -	
	CMAQ Subtotal ►	\$ 2,161,984	\$ 1,729,587	\$ 432,397	► 80% Federal + 20% Non-Federal		
<b>► Section 1A / Fiscal Constraint Analysis</b>							
<b>Total Federal Aid Target Funds Programmed</b> ►							
				\$ 14,958,127	\$ 14,923,093	► Total Target:	\$ (35,034) Funds Over Programmed
Total STP Programmed				\$ 11,715,151	\$ 11,680,117	► Max. STP	\$ (35,034) STP Exceeds Maximum
Total HSIP Programmed				\$ 1,080,992	\$ 1,080,992	► Min. HSIP	\$ - HSIP Minimum Met
Total CMAQ Programmed				\$ 2,161,984	\$ 2,161,984	► Min. CMAQ	\$ - CMAQ Minimum Met
<b>► Section 1B / Federal Aid Bridge Projects</b>							
<b>No Projects Programmed</b>							
	1	BR Subtotal ►	\$ -	\$ -	\$ -	\$ -	► 80% Federal + 20% Non-Federal

**Table 5: Federally Funded Projects Year 2015 (Continued)**

► Section 1C / Federal Aid Non-Target Projects	
► Earmarks	No Projects Programmed
	Earmarks Subtotal ► \$ - - - -
► Other	No Projects Programmed
	Other Subtotal ► \$ - - - -
► Section 1D / Federal Aid Major & State Category Projects	
► IM - Interstate Maintenance	No Projects Programmed
	IM Subtotal ► \$ - - - -
► NHS - National Highway System	CUMMINGTON RESURFACING & RELATED WORK ON ROUTE 9, FROM WINDSOR T.L. TO GOSHEN T.L.
605582	NHS Subtotal ► \$ 9,067,723 7,254,178.4 1,813,544.6
► Other	No Projects Programmed
	Other Subtotal ► \$ - - - -
► Section 2A / Non-Federal Projects	
► No Projects Programmed	
	Non-Federal Projects Subtotal ► \$ - - - -
► Section 2B / Non-Federal Bridge Projects	
► No Projects Programmed	
	Non-Federal Bridge Projects Subtotal ► \$ - - - -
TIP Section 1: TIP Section 2: Total of All Projects ▼	
Total ►	\$ 24,025,850 \$ - \$ 24,025,850 ▲ Total Spending in Region
Federal Funds ►	\$ 19,328,779 \$ - \$ 19,328,779 ▲ Total Federal Spending in Region
Non-Federal Funds ►	\$ 4,697,071 \$ - \$ 4,697,071 ▲ Total Non-Federal Spending in Region

## 2015 Pioneer Valley MPO TIP Summary

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

<b>Table 11: Federally Funded Projects 2016</b>									
► Section 1C / Federal Aid Non-Target Projects									
► Earmarks		No Projects Programmed							
MassDOT Other Project ID	Non-Federal Aid Projects Programmed	MassDOT Funding District	Earmarks Subtotal	Total Programmed Funds	Federal Funds	\$ Non-Federal Funds	\$ Non-Federal Funds	\$ Non-Federal Funds	\$ Non-Federal Funds
		Source	Source	▼ Funds	▼ Funds	▼ Funds	▼ Funds	▼ Funds	▼ Funds
		Other Subtotal	\$	-	\$	-	\$	-	\$
<b>► Section 1A / Federal Aid Target Projects</b>									
► Section 1D / Federal Aid Major & State Category Projects									
605213 SPRINGFIELD- WILBRAHAM - RECONSTRUCTION OF MONTGOMERY AVENUE 201 (\$9,725,610)	STP	\$ 7,649,707	\$ 6,119,766	\$ 1,529,941					10.15 TEC 25% \$8,683,580
606034 CHICOPEE- RESURFACING & RELATED WORK ON MONTGOMERY STREET, FRONT OF GRANBY ROAD AT DALE STREET	STP IM	\$ 11,732,200	\$ 10,704,960	\$ 585,776	\$ 1,189,440				2.03 TEC 100%
606577 MONTGOMERY STREET, FRONT OF GRANBY ROAD AT DALE STREET	IM Subtotal	\$ 11,894,400	\$ 10,704,960	\$ 1,189,440					
605815 NHS- WILBRAHAM HIGHWAY SYSTEM RACING & RELATED WORK ON ROADWAYS Programmed	STP	\$ 1,566,831	\$ 1,210,465	\$ 301,366					► 90% Federal + 10% Non-Federal Moved from 2015 in order to achieve fiscal constraint
605222 SPRINGFIELD- NORTH END & BRIGHTWOOD INFRASTRUCTURE IMPROVEMENTS, FROM OSGOOD STREET TO THE CHICOPEE CITY LINE (NORTHERLY 603730 SEGMENT)	NHS Subtotal	\$ 5,364,-	\$ 4,291,283	\$ 1,072,818					► 20% Federal + 20% Non-Federal 25%
► Other Street to Street Improvements, From Osgood Street to the Chicopee City Line (Northerly 603730 Segment)	Other	\$ 1,579,678	\$ 1,263,742.4	\$ 315,935.6					Statewide TE
606450 HOLYOKE- TRAFFIC SIGNAL UPGRADES AT 15 INTERSECTIONS ALONG HIGH & MAPLE STREETS	STP Subtotal	\$ 1,252,912	\$ 1,202,273	\$ 337,348.2					► 90% Federal + 20% Non-Federal CMAQ
► HSIP- BIKeway System Improvements at Four Locations on Route 57 (Feeding Hills Springfield) & Wilbraham- Reconstruction of Circle, Includes Pedestrian Bridge W-21-020	HSIP	\$ 1,080,992	\$ 972,893	\$ 108,099					10.15 TEC 25% \$8,683,580
605066 BOSTON NORTHRAM (ROUTE 20) INTERSECTION IMPROVEMENTS AT ROUTE 5 (PLEASANT STREET) AND CONN STREET	HSIP Subtotal	\$ 910,000	\$ 728,000.0	\$ 182,000.0					CMAQ
► CMAQ - Congestion Mitigation and Reduction Program	HSIP	\$ 1,080,992	\$ 972,893	\$ 108,099					► Funding Split Varies by Project Specifications
603783 WESTFIELD- COLUMBIA GREENWAY RAIL TRAIL FROM COLUMBIA MFG SPUR TO COWLES COURT	Other	\$ 7,035,426	\$ 5,628,340.8	\$ 1,407,085.2					TE
605213 602912 SPRINGFIELD- RIVER & RIVERFRONT CONSTRUCTION, FROM GRAPE STREET TO FRONT STREET (NEAR ELLERTON STREET)	Other	\$ 12,141,538.2	\$ 291,059,253.87	\$ 322,914,428.397					10.15 TEC 25% \$8,683,580
► Section 1A / Fiscal Constraint Analysis	CMAQ Subtotal	\$ 2,161,984	\$ 1,729,587	\$ 432,397					► 80% Federal + 20% Non-Federal
► Section 2A / Non-Federal Projects	Other Subtotal	\$ 15,244,119	\$ 12,195,295	\$ 3,048,824					► Funding Split Varies by Funding Source
<b>► Section 2B / Non-Federal Bridge Projects</b>									
► Section 1B / Federal Aid Bridge Projects									
No Projects Programmed	Non-Federal Bridge Projects Subtotal	\$ 15,22,34	\$ 1,060,892	\$ 1,060,892	\$ 1,060,892	\$ 1,060,892	\$ 1,060,892	\$ 1,060,892	\$ 1,060,892
	Total HSIP Programmed	\$ 1,060,892	\$ 2,161,984	\$ 2,161,984	\$ 2,161,984	\$ 2,161,984	\$ 2,161,984	\$ 2,161,984	\$ 2,161,984
600936 HOI YOKE- BRIDGE REPAIR, H-21-018, LYMAN STREET OVER FIRST FIVE CANAL	RR	\$ 5,511,520	\$ 5,511,520	\$ 5,511,520					► Max. STP 100% Non-Federal
603024 2016 Pioneer Valley MPO TIP Summary	TIP Section 1: TIP Section 2: Total of All Projects	\$ 6,723,276	\$ 6,723,276	\$ 6,723,276					► Min. HSIP Minimum Mei
	Federal Funds	\$ 44,528,279	\$ 44,528,279	\$ 44,528,279					► Total Federal Spending in Region
	Non-Federal Funds	\$ 9,510,146	\$ 9,510,146	\$ 9,510,146					► Total Non-Federal Spending in Region

## **Appendix Z: Other projects within the Region**

**Table 13: Appendix Z Other Regional Significant Projects**

Project Name	Project Description	Community	SID	Total Cost
Bikeway Loop	Main Street to Robinson State Park Via Water works ROW	Agawam	X000003	\$635,000
N. Westfield St. / S. Westfield St. (Rte. 187)	Reconstruction: Pine Street to Westfield TL	Agawam	600513	\$12,875,077
Resurfacing and Related Work	Route 57 from Route 187 to Route 75	Agawam	606005	\$3,078,241
Route 187/ 57 Intersection Improvements	Intersection Improvement	Agawam	604203	\$1,500,000
Rte 5 to Rte 57/rotary	Construction of interchange improvements at Route 5/Route 57 Rotary	Agawam	603372	\$13,651,080
Sidewalk Construction	Route 159 (Main Street) from CT S.L.. to South Street	Agawam	606160	\$330,000
Truck Access Improvements	Rt 5 to Merrick Neighborhood Access improvements	Agawan/West Springfield		Further Study
Nowottuck Improvements	Rail Trail Improvements	Amherst / Northampton / Hadley / Belchertown	605065	\$5,304,500
N. Washington Street Reconstruction	Reconstruction: S. Main St. to North Liberty Street	Belchertown	604692	\$3,809,660
Route 202 Resurfacing	Resurfacing and related work on Route 202	Belchertown / Granby	604819	\$4,500,000
Landscape/Roadside Development	Wildflower Bed Establishment	Bernardston/Deerfield/ Hatfield/Northampton/Holyoke	604491	\$1,456,756
Resurfacing Route 23	Resurfacing and Related work on Route 23 from Blandford TL to Route 20 in Russell	Russell	605614	\$3,500,000
Keystone Arch Bridge Project	Restoration of two historic Keystone Arch Bridges to a condition for public access	Chester		\$1,500,000
Resurfacing and Related Work on Route 143	From Worthington TL to Williamsburg TL	Chesterfield	602967	
Connecticut Riverwalk	Construction: Plainfield St. to Nash Fld.	Chicopee	605813	\$6,000,000
Fuller Rd. Corridor Improvements	Reconstruction: From Rte. 33 to Shawinigan Drive	Chicopee	602911	\$1,611,250
Route 9 Pavement Preservation	Route 9 Pavement Preservation from Windsor TL to Goshen TL	Cummington	604434	\$6,200,000
			605582	\$5,508,300

**Table 13: Appendix Z Other Regional Significant Projects (Cont.)**

Project Name	Project Description	Community	SID	Total Cost
Intersection Improvements	Reconstruct and signalized intersection of Main and South Street	Easthampton	X00046	\$416,268
Mountain Rd (Route 141)	Automated closure of Mountain Rd - Easthampton	Easthampton		\$540,800
Roadway Reconstruction	Pomeroy Meadow Road Southampton TL to Loudville Road	Easthampton	X00050	\$1,010,291
Route 9 reconstruction	Resurface: Rte. 112 to Williamsburg TL	Goshen	602888	\$4,500,000
West Street Reclamation	Resurfacing and related work on West Street from South Maple Street to Chesterfield TL 1.8 miles	Goshen	605150	\$2,300,000
Resurfacing Route 57	Resurface 8 miles from Sodium Street to Tolland TL	Granville	X00006	\$2,463,126
Route 9 reconstruction	Reconstruction of Route 9 near Hampshire Mall	Hadley	605032	\$4,428,000
Route 9 reconstruction	Reconstruction form Middle St to E/O Mill Valley Rd (Lowes)	Hadley	605881	\$6,900,000
South Maple Street	Reconstruction: South of Rte. 9 to Bay Rd.	Hadley	602796	\$4,402,839
Brimfield Road improvements	Resurfacing and related work from Brimfield Town Line to Stafford Road	Holland	604962	\$1,300,000
Bikeway/Bike path Construction	Canalwalk, Phase 3 (from Dwight St to Lyman St)	Holyoke	603264	\$2,800,000
Cabot Street Reconstruction	Reconstruct from Main Street to South Canal Street	Holyoke	X00073	\$532,824
I-91 Exit 15 improvements	Improvements to Exit 15 at Lower Westfield Road	Holyoke	606903	\$1,031,250
I-91 exit 17 at Route 141 intersection improvements	I-91 exit 17 at Route 141 intersection improvements	Holyoke	606156	\$2,441,580
Intersection Improvements	Linden Street improvements to 5 intersections signal coordination	Holyoke	X00072	\$666,029
Northampton Street Rehabilitation	Northampton Street Rehabilitation	Holyoke	X00075	\$2,960,489
Route 5 Reconstruction from Ashley Ave.	Reconstruct Route 5 from Ashley Ave to Main Street	Holyoke/West Springfield	604209	\$3,509,576
Resurfacing Structures Maintenance	Route 5 Resurfacing & Culvert work	Longmeadow	605886	\$750,000
Route 5 Traffic Improvements	Route 5 Traffic Signal Improvements	Longmeadow		\$4,605,761

**Table 13: Appendix Z Other Regional Significant Projects (Cont.)**

Project Name	Project Description	Community	SID	Total Cost
Center Street (Route 21) reconstruction	Center street reconstruction	Ludlow	605011	\$4,764,660
Damon Rd. Safety Improvement	Reconstruction: Rte. 9 to King St. (Rte. 5)	Northampton	180525	\$3,080,339
Glendale Road Reconstruction	From Route 66 to Easthampton TL	Northampton	X00088	\$1,601,032
Hatfield Street @ Route 5 and 10	Intersection Improvements (Round about or Signalization)	Northampton	606555	\$1,089,006
I-91 Ramps at Exit 19	This study is reviewing alternatives to relieve congestion and improve safety in the transportation network near Interchange 19	Northampton	604597	\$5,849,293
King Street Reconstruction and Related Improvements	Improvements: Diamond At King, King at Summer and North, and North and King at Finn	Northampton		
Landscape/Roadside Development	Drainage Repairs & Slope Stabilization at Old Water Street	Northampton	605143	\$9,000,000
Main Street (Route 9) Downtown Improvements	Roadway, Pedestrian, and Intersection Improvements at Main, Pleasant, King, and State Street	Northampton		
Mountain Rd (Route 5) improvements	Improvements to Mt. Tom Rd	Northampton	605048	\$5,000,000
Route 9 @ Old Ferry Road and Day Ave	Intersection Improvements and Signalization	Northampton		
Ryan Road Reconstruction	From West Farms Road to Brookside Circle	Northampton	X00089	\$2,561,961
Route 20 improvements	Resurfacing and related work	Palmer	603873	\$1,200,000
Rte. 32 (Ware Road)	Reconstruction: Stimson St. to Ware TL	Palmer	601504	\$27,452,820
Route 116 (Main St)	Resurfacing and Related work	Plainfield	604825	\$2,588,000
At Grade Rail Crossing Improvements	Regional Railroad Grade crossing improvements	Region wide		Further Study
I-291 congestion improvements		Region wide		Further Study

**Table 13: Appendix Z Other Regional Significant Projects (Cont.)**

Project Name	Project Description	Community	SID	Total Cost
Massachusetts Turnpike Off Ramp Congestion Project	Massachusetts Turnpike off ramp congestion improvements	Region wide		Further Study
Park and Ride	Regional Park and Ride Lot improvements	Region wide		\$1,731,676
Traffic Signal Coordination	Traffic signal coordination projects	Region wide		Further Study
East St. (Design Exception)	Reconstruction: Rte. 10 to Holyoke TL Route 10.	Southampton	604653	\$4,582,450
Glendale Rd. (Phase II)	Reconstruction: Pomeroy Meadow Road to	Southampton	604738	\$1,900,000
Congamond Rd. (Rte. 168) Reconstruction	Roadway reconstruction: From Route 202 to 250 ft before state line (before culvert)	Southwick	604033	\$4,500,000
Highway Reconstruction	FEEDING HILLS ROAD (ROUTE 57) FROM COLLEGE HIGHWAY TO THE AGAWAM TOWN LINE	Southwick	606141	\$4,080,000
Routes 10/202 resurfacing (northerly)	Routes 10/202 resurfacing (northerly)	Southwick	604155	\$2,000,000
Routes 10/202 resurfacing (southerly)	Routes 10/202 resurfacing (southerly)	Southwick	604153	\$2,600,000
SUPERSTRUCTURE REPLACEMENT, S-24-061, ROUTE I-91 VIADUCT	The work for the project involves the replacement of the superstructure of Bridge No. S-24-061	Springfield	606459	\$358,240,000
Connecticut Riverwalk	CT Riverwalk pedestrian access improvements	Springfield		\$2,000,000
Intersection Improvements	Allen Street and Cooley Street intersection improvements	Springfield		\$1,665,074
Intersection Improvements	Bay St @ Berkshire Ave intersection improvements	Springfield		\$1,519,362
Intersection Improvements	Central Street at Hancock Street intersection improvements	Springfield		\$973,950
Intersection Improvements	St James @ St James blvd intersection improvements	Springfield		\$2,369,919
North end and Brightwood Infrastructure Improvements (North)	From Osgood Street to Chicopee City Line	Springfield	605222	\$4,988,935
Plumtree Rd Improvements	Resurfacing and related work from Allen St to Wilbraham Rd	Springfield	605683	\$2,000,000

**Table 13: Appendix Z Other Regional Significant Projects (Cont.)**

**Appendix Z, High Priority Project (HPP) List**

Project Name	Project Description	Community	SID	Total Cost
Project Roosevelt Ave. @ Island Pond Rd and Roosevelt Ave @ Avenue Street	Realignment of Roosevelt Pond Road at Roosevelt Avenue to create a three way signalized intersection.	State Funds	605385	\$1,705,577 Notes
Route 20 Access Improvements on Court Street & Western Avenue	Intersection signal upgrade #03449	HPP-4287	\$2,002,950	\$2,503,688
Route 32 Highway Surface Reconstruction (\$22,854,850)	From Palmerville TL to Sandusky TL HPP-4287	30383,744	\$575,936	\$2,879,680 12,500,000
Sidewalk improvements	Sidewalk reconstruction and surfacing at Wales	602844; 602844;	305669	\$309,000 #604443 was advertised
Design and construction of Southwick and Westfield Rail Trail from Southwick to Palmer Road over Route 32 (Palmer Road) over Route 32 (Warp River)	Route 32 (Palmer Road) over Route 32 (Warp River)	1,857,506	\$464,377	\$6,779 advertised on 8/8/09
*Construct Access Roads to Hospital Hill (\$1,652,818)	Route 32 (Palmer Road) over Route 32 (Warp River)	305126	\$75,716	\$363,547 was advertised on 9/7/2007
*State Hill Grade Reductions on Phillips Street (\$7,700,000)	Route 32 (Palmer Road) over Route 32 (Warp River)	305126	\$75,858	#604447 was advertised
*Design and Construction of New Bridge on Route 17 (\$1,112,000)	Route 17 at Warf River	Warr999,056	\$224,764	\$604447 on 7/8/2008
*Intersection improvements Memorial Park II - Roosevelt Ave	Roosevelt Ave at Union Road	Warr224,764	\$56,197	#602338 was advertised
(*2,300,000) Single Rail Crossing Improvements	Bridge Preservation Project	Warr224,764	\$20,955	#604447 on 7/8/2008
Design north and southbound ramps on I-91 at Exit 19 (\$15,000,000)	Improvement to 1st and 2nd single rail crossing	West Springfield	\$35,460	#604822 was advertised
Intersection improvements	Railroad crossing	West Springfield	\$167,304	\$167,304 \$167,304
Upgrade Route 9 - Calvin Coolidge bridge (1998) (\$31,840,000)	Morgan Road at Piper Cross intersection	West Springfield	\$224,764	\$224,764
Intersection improvements Total Project Cost	Intersection improvements - Amistown Road at Dewey Street	West Springfield	\$56,197	\$104,785 on 9/30/2000
Union Street Underpass	Reconstruct Union Street Underpass at Dewey Street	West Springfield	\$10,061,650	\$11,519,362
Columbia Greenway Rail trail and River Walk Phase II (South)	Southwick town line north to 1,200 ft south	Westfield	604746	\$15,000,000
Route 187 - Sherman's Mill Bridge reconstruction	East Silver Street, 1.66M (PHASE II)	Westfield	604967	\$6,458,277
Western Avenue Highway Improvement	Reconstruct Route 187 from 260ft north of Bridge to 800ft east of Pontoosic rd.	Westfield	604445	\$6,926,210
	Reconstruct and improvements From Bates Rd to Court St, and Court until Mill Street	Westfield	603449	\$5,180,855
			<b>Total Cost</b>	<b>\$634,526,446</b>
			<b>Total # of Projects</b>	<b>84</b>

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

## **VI. Transit Project Listing for FFY 2013-2016**

The following is a complete listing of programmed transit projects for FFY 2013-2016

**Table 14: FFY 2013 Transit Project Information**

FTA Program ▶	Regional Transit Authority ▶	Project Description ▶	FTA Scope & Activity Line Item Codes	Carryover or Earmark Details ▶		Federal Funds ▼	RTACAP ▼	MAP ▼	State Match Sources			RTA Funds ▼	Total Cost ▼
				Federal Funds ▼	RTACAP ▼				ITCCAP ▼	TDC ▼	SCA ▼		
5307 ▶	P/TA	ITS Implementation/Misc Support	11.42.20 2004, 90X425	\$513,831	\$128,458	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$642,289
	P/TA	ITS Implementation/Misc Support	11.42.20 2008, 90X541	\$300,000	\$75,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$375,000
	P/TA	ITS Implementation/Misc Support	11.42.20 2009, 90X567	\$1,087,352	\$271,838	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,359,190
	P/TA	ITS Implementation/Misc Support	11.42.10 2010, 90X594	\$39,118	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,779
	P/TA	Farebox Equipment	11.42.10 2009, 96X002	\$102,715	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$102,715
	P/TA	Farebox Equipment	11.42.10 2011, 90X612	\$3,760	\$940	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,700
	P/TA	Environmental Compliance	11.44.02 2011, 90X612	\$76,800	\$19,200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$96,000
	P/TA	Facility Rehab / Environmental Compliance	11.44.02 2008, 90X541	\$251,070	\$62,768	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$313,838
	P/TA	Facility Rehab / Environmental Compliance	11.44.02 2009, 90X567	\$96,154	\$24,038	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$120,192
	P/TA	Facility Rehab / SSI	11.34.01 2010, 90X594	\$58,296	\$0	\$0	\$0	\$0	\$11,659	\$0	\$0	\$0	\$58,296
	P/TA	Shop Equipment	11.42.20 2011, 90X612	\$76,800	\$19,200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$96,000
	P/TA	Shop Equipment	11.42.06 2009, 90X567	\$4,092	\$1,023	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,115
	P/TA	Shop Equipment	11.42.06 2008, 90X841	\$44,278	\$11,070	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$55,348
	P/TA	Computer Equipment	11.32.07 2011, 90X812	\$312,082	\$78,020	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$390,102
	P/TA	Computer Equipment	11.42.07 2009, 90X567	\$44,318	\$11,080	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$55,398
	P/TA	Surveillance Equipment	11.42.09 2010, 90X594	\$6,300	\$0	\$0	\$0	\$0	\$1,260	\$0	\$0	\$0	\$6,300
	P/TA	Surveillance Equipment	11.42.09 2010, 90X594	\$130,540	\$32,635	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$163,175
	P/TA	Surveillance Equipment	11.42.09 2008, 90X841	\$116,459	\$29,115	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$145,574
		Miscellaneous Communications Equipment	11.62.20 2008, 90X541	\$98,303	\$24,576	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$122,879
		Signal Priority Shelters	11.62.02 2011, 90X612	\$140,000	\$35,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$175,000
		Shelters	11.92.02 2010, 90X594	\$3,494	\$873	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,367
		Shelters	11.92.02 2009, 90X567	\$217,697	\$0	\$0	\$0	\$0	\$43,539	\$0	\$0	\$0	\$217,997
		Shelters	11.92.02 2008, 90X541	\$130,540	\$32,635	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$163,175
		Shelter Lighting	11.92.03 2010, 90X594	\$50,446	\$12,611	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$63,057
		Signage and Lighting	11.92.08 2011, 90X612	\$110,064	\$27,516	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$137,580
		Signage	11.92.08 2010, 90X594	\$27,804	\$0	\$0	\$0	\$0	\$5,561	\$0	\$0	\$0	\$27,804
		Preventive Maintenance Planning	MA90-X629	\$4,660,770	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,825,963
		ADA ADA	MA90-X629	\$200,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000
		ADA	MA90-X645	\$825,730	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,032,163
		Fuel Surcharge	MA90-X637	\$1,132,384	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,145,480
		Buses	11.12.01 MA90-X645	\$450,000	\$0	\$0	\$0	\$0	\$112,500	\$0	\$0	\$0	\$450,000
		Buses	11.12.06 MA90-X645	\$2,139,368	\$534,842	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,674,210
		Environmental Compliance	11.44.02 MA90-X645	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		Facility Rehab	11.44.02 MA90-X645	\$665,122	\$0	\$0	\$0	\$0	\$166,281	\$0	\$0	\$0	\$665,122
		Fareboxes	11.42.10 MA90-X645	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		Shop Equipment	11.42.06 MA90-X645	\$100,000	\$0	\$0	\$0	\$0	\$25,000	\$0	\$0	\$0	\$100,000
		Signage, Lighting, Shelters	11.92.08 MA90-X645	\$120,000	\$0	\$0	\$0	\$0	\$30,000	\$0	\$0	\$0	\$120,000
		Support/Spv Vehicles	11.42.11 MA90-X645	\$120,000	\$0	\$0	\$0	\$0	\$30,000	\$0	\$0	\$0	\$120,000
		Vans	11.12.15 MA90-X645	\$500,000	\$0	\$0	\$0	\$0	\$125,000	\$0	\$0	\$0	\$500,000
		<b>Subtotal ▶</b>		<b>\$15,406,545</b>	<b>\$1,432,438</b>	<b>\$0</b>	<b>\$557,040</b>	<b>\$0</b>	<b>\$1,819,415</b>	<b>\$0</b>	<b>\$18,655,398</b>		

Table 14: FFY 2013 Transit Project Information (cont.)

**Table 15: FFY 2014 Transit Project Information**

FTA Program ▼	Regional Transit Authority ▼	Project Description ▼	Carryover or Earmark Details ▼	Federal Funds ▼	State Match Sources				RTA Funds ▼	Total Cost ▼
					RTACAP ▼	MAP ▼	ITCCAP ▼	TDC ▼	SCA ▼	
5307 ►	PVTA	11.42.20 ITS	N/A	1,200,000	\$0	\$0	\$0	\$0	\$0	\$1,500,000
	PVTA	Transit Enhancements	N/A	116,198	29,050	\$0	\$0	\$0	\$0	\$0
	PVTA	11.44.02 Facility Rehab / Environmental Compliance	N/A	76,000	19,000	\$0	\$0	\$0	\$0	\$95,000
	PVTA	11.44.02 Facility Rehab / Environmental Compliance	N/A	28,000	7,000	\$0	\$0	\$0	\$0	\$35,000
	PVTA	11.42.06 Shop Equipment	N/A	80,000	20,000	\$0	\$0	\$0	\$0	\$100,000
	PVTA	11.12.01 Buses	N/A	2,795,123	-	\$0	\$0	\$0	\$0	\$2,795,123
	PVTA	11.92.03 Signage & Lighting	N/A	4,000	1,000	\$0	\$0	\$0	\$0	\$5,000
	PVTA	11.92.02 Shelter Pads & Lighting Installation	N/A	20,000	5,000	\$0	\$0	\$0	\$0	\$25,000
	PVTA	11.42.20 IT Infrastructure	N/A	714,913	178,728	\$0	\$0	\$0	\$0	\$893,641
	PVTA	11.12.15 Vans	N/A	1,380,000	345,000	\$0	\$0	\$0	\$0	\$1,725,000
	PVTA	11.12.01 Buses	N/A	1,306,889	326,722	\$0	\$0	\$0	\$0	\$1,633,611
	PVTA	11.42.06 Shop Equipment	N/A	143,751	35,938	\$0	\$0	\$0	\$0	\$179,689
	PVTA	11.42.20 ITS Implementation/Misc Support	N/A	660,000	165,000	\$0	\$0	\$0	\$0	\$825,000
	PVTA	Preventive Maintenance	2012 Section 5307	\$4,660,770	\$0	\$0	\$0	\$0	\$0	\$4,660,770
	PVTA	ADA	2012 Section 5307	\$1,137,300	\$0	\$0	\$0	\$0	\$0	\$1,137,300
	PVTA	Planning	2012 Section 5307	\$200,000	\$0	\$0	\$0	\$0	\$0	\$200,000
	PVTA	Fuel Surcharge	2012 Section 5307	\$200,000	\$0	\$0	\$0	\$0	\$0	\$200,000
		<b>5307 Subtotal ►</b>		<b>\$14,722,944</b>	<b>\$1,432,438</b>	<b>\$0</b>	<b>\$0</b>	<b>\$698,781</b>	<b>\$0</b>	<b>\$17,648,035</b>
5309 ►	PVTA	11.31.03 Westfield ITC	1999, 300230	827,260	-	\$0	\$206,815	\$0	\$0	\$1,034,075
		<b>5309 Subtotal ►</b>		<b>\$827,260</b>	<b>\$0</b>	<b>\$0</b>	<b>\$206,815</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,034,075</b>
5310 ►		(Do Not Enter Request - Part of Competitive Application)		\$0	\$0	\$0	\$0	\$0	\$0	\$0
		(application to be submitted from statewide allocation)		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
5311 ►		(Do Not Enter Request - Part of Competitive Application)		\$0	\$0	\$0	\$0	\$0	\$0	\$0
		(application to be submitted from statewide allocation)		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
5316 ►		(Do Not Enter Request - Part of Competitive Application)		\$0	\$0	\$0	\$0	\$0	\$0	\$0
		(application to be submitted from statewide allocation)		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

**Table 15: FFY 2014 Transit Project Information (cont.)**

		State Funding Source ▼		Programmed ▼		Available ▼		(+/ -) ▼	
<b>5317 ►</b>	(Do Not Enter Request - Part of Competitive Application)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	(application to be submitted from statewide allocation)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	<b>5317 Subtotal ►</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>SoGR ►</b>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Livability ►</b>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>TIGER ►</b>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	(for previously awarded competitive grants)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	<b>Grants Subtotal ►</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Other ►</b>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	<b>Subtotal ►</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Non-Federal (RTACAP)►</b>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Non-Federal (Other State &amp; Locally Funded Projects)►</b>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	<b>Subtotal ►</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
	<b>TOTAL PROGRAMMED ►</b>	<b>\$15,550,204</b>	<b>\$1,432,438</b>	<b>\$206,815</b>	<b>\$698,781</b>	<b>\$0</b>	<b>\$1,492,653</b>	<b>\$18,682,110</b>	
<b>Fiscal Constraint Analysis</b>									
Federal Funding Source ▼		Programmed ▼		Available ▼		(+/ -) ▼		State Funding Source ▼	
FFY 14 / 5307		\$ 14,722,944		\$ (14,722,944)		(\$ 1,432,438)		\$ 1,432,438	
FFY 14 / 5309		\$ 827,260		-\$ (827,260)		-\$ (206,815)		\$ 206,815	
								SCA \$ -	
								TDC \$ 698,781 n/a	
								n/a	
								n/a	
								n/a	

**Table 16: FFY 2015 Transit Project Information**

**Table 16: FFY 2015 Transit Project Information (cont.)**

		State Funding Source ▼		Programmed ▼		Available ▼		(+/-) ▼	
Federal Funding Source ▼	Programmed ▼	RTACAP	\$ 1,432,438	\$	-	\$ (1,432,438)		(+/-)	▼
FFY 15 / 5307	\$ 13,208,708	ITCCAP	\$ 2,100,000	\$	-	n/a	n/a		
FFY 15 / 5309	\$ 80,080,000	SCA	\$ -	\$ #REF!	n/a	n/a	n/a		
		TDC	\$ 256,177	n/a					
<b>5316 ▶</b>	(Do Not Enter Request - Part of Competitive Application)  (application to be submitted from statewide allocation)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	<b>5316 Subtotal ▶</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>5317 ▶</b>	(Do Not Enter Request - Part of Competitive Application)  (application to be submitted from statewide allocation)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	<b>5317 Subtotal ▶</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>SoGR ▶</b>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Livability ▶</b>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>TIGER ▶</b>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Grants Subtotal ▶</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Other ▶</b>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Non-Federal (RTACAP) ▶</b>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Non-Federal (Other State &amp; Locally Funded Projects) ▶</b>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	<b>Subtotal ▶</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
	<b>TOTAL PROGRAMMED</b>	<b>\$93,288,708</b>	<b>\$1,432,438</b>	<b>\$0</b>	<b>\$2,100,000</b>	<b>\$256,177</b>	<b>\$0</b>	<b>\$1,492,653</b>	<b>\$98,313,799</b>
<b>Fiscal Constraint Analysis</b>									

**Table 17: FFY2006 Transit Project Information (cont.)**

## **VII. STATEWIDE FEDERAL AID PROJECT LISTING**

The MassDOT provided each planning agency a listing of statewide items anticipated for FFY 2013 to 2016. These items are to be funded separately from the regional TIP program. This information is provided in the followingTables.

*MassDOT - NHS Preservation Program 2012 - 2016*

NHS Year	Route	Location	Proj. Num.	Dist	From	To	Lns+ Shd	Tot Mi	Prelim. Cost/lane mi	Prelim. Office Estimate	Program TFPCC	Inflation Adjusted (4%/YEAR)
2012	2 24	ACTION- BOXBOROUGH- LITTLETON- RESURFACING & RELATED WORK ON ROUTE 2 RANDOLPH- CANTON- RESURFACING & RELATED WORK ON ROUTE 24	604472 605607	3 6	114.0 37.8	119.8 40.1	6 8	34.8 18.6	147,000 264,000	5,115,600 4,908,831	6,087,564 5,890,415	
		<b>Total FFY2012:</b>						<b>53.4</b>		<b>10,024,431</b>		<b>11,977,979</b>
2013	3 114 6	WEYMOUTH- RESURFACING & RELATED WORK ON ROUTE 3 MIDDLETON BOURNE SANDWICH RESURFACING OF ROUTE 6 (MID CAPE HIGHWAY)	605602 606126 606286	6 4 5	36.0 7.9 12.1	38.0 3.0 4	8 9.0 35.0	16.0 155,000 150,000	175,000 1,395,000 150,000	2,800,000 1,769,976 5,250,000	3,552,640 1,769,976 6,661,200	
		<b>Total FFY2013:</b>						<b>60.0</b>		<b>9,445,000</b>		<b>11,983,816</b>
2014	20 28 9 3	NORTHBOROUGH- RESURFACING & RELATED WORK ON ROUTE 20 BOURNE- RESURFACING AND RELATED WORK ON RT 28 (OTIS ROTARY) WESTBOROUGH- SOUTHBOROUGH RESURFACING AND RELATED WORK ON ROUTE 9 WEYMOUTH - BRAINTREE - QUINCY - RESURFACING AND RELATED WORK ON ROUTE 3	605610 606178 TBD TBD	3 5 3 6	122.0 56.5 113.0 38.0	126.5 62.9 108.0 43.0	4 6 6 8	18.0 38.4 30.0 40.0	160,000 160,000 220,000 200,000	2,880,000 6,144,000 6,600,000 8,000,000	3,398,400 7,495,680 7,788,000 9,440,000	\$3,534,336 \$7,795,507 \$8,099,520 \$9,817,600
		<b>Total FFY2014:</b>						<b>126.4</b>		<b>23,624,000</b>		<b>25,122,080</b>
												<b>\$79,246,963</b>
2015	7 7 1 9	SHEFFIELD- GREAT BARRINGTON - RESURFACING AND RELATED WORK ON US RT. 7 LENOX - PITTSFIELD RESURFACING AND RELATED WORK ROUTE 7 CHELSEA - REVERE - RESURFACING AND RELATED WORK ON ROUTE 1 CUMMINGTON RESURFACING AND RELATED WORK ON US ROUTE 9	605687 606544 TBD 605682	1 1 6 1	0.0 25.7 50.4 16.7	7.8 28.7 54.3 27.8	4 4.5 6 4	31.2 13.5 23.4 44.4	155,000 155,000 250,000 155,000	4,836,000 2,092,500 5,850,000 6,882,000	5,899,920 2,469,150 6,903,000 8,396,040	\$6,371,914 \$2,567,916 \$7,455,240 \$9,067,723
		<b>Total FFY2015:</b>						<b>112.5</b>		<b>19,660,500</b>		<b>23,968,110</b>
												<b>\$25,492,793</b>
2016	3 6 9	PLYMOUTH- KINGSTON RESURFACING AND RELATED WORK ON ROUTE 3 DENNIS - HAWTHORPE- BREWSTER- ORLEANS - RESURFACING AND RELATED WORK ON RT. 6 SHREWSBURY - WESTBOROUGH RESURFACING AND RELATED WORK ON ROUTE 9	TBD 606179 TBD	5 5 3	7.8 78.5 100.3	12.4 90.9 108.0	6 2.5 6	27.9 31.0 46.2	150,000 150,000 220,000	4,185,000 4,650,000 10,164,000	4,938,300 5,487,000 12,000,080	\$5,530,896 \$6,145,440 \$13,888,090
		<b>Total FFY2016:</b>						<b>105.1</b>		<b>18,999,000</b>		<b>22,825,380</b>
												<b>\$25,564,426</b>

## MassDOT - Interstate Maintenance Resurfacing Program 2012 - 2016

Year	Route	Location	Proj. File Numb.	TFPCC	Dist.	From To	Est. Total Cost (est. +18%)	4% FACTOR INFLATION	8% FACTOR INFLATION	12% FACTOR INFLATION
2012	I-91 I-495 I-95 I-93 I-495	HOLYOKE- WEST SPRINGFIELD- INTERSTATE MAINTENANCE & RELATED WORK ON I-91 BELLINGHAM- MEDWAY - MILFORD - INTERSTATE RESURFACING AND RELATED WORK ON I-495 HAVERHILL- INTERSTATE MAINTENANCE & RELATED WORK ON I-495 BOSTON - SOMERVILLE- INTERSTATE MAINTENANCE RESURFACING AND RELATED WORK ON I-95 MANSFIELD- MORTON - INTERSTATE MAINTENANCE & RELATED WORK ON I-495 WESTFORD- INTERSTATE MAINTENANCE & RELATED WORK ON I-495	6055944 6061659 6055986 6061657 6055941	\$16,452,096 \$15,104,755 \$17,794,400 \$10,738,000 \$12,838,400	2 3 4 4 5	10.8 44.5 110.2 18.5 25.2	15.0 50.4 111.0 19.8 32.0	16,452,096 15,104,755 17,794,400 10,738,000 12,838,400		
	Total FFY2012:		6055986	\$3,776,000	3	83.1	85.1	3,776,000	<b>\$76,703,651</b>	<b>76,703,651</b>
	I-495 I-95 I-95 I-95	FRANKLIN- INTERSTATE MAINTENANCE AND RELATED WORK ON I-495 LYNNFIELD- WAKEFIELD- INTERSTATE MAINTENANCE & RELATED WORK ON I-95 FOXBOROUGH- INTERSTATE MAINTENANCE & RELATED WORK ON I-95 WILMINGTON- WOBURN- INTERSTATE MAINTENANCE & RELATED WORK ON ROUTE I-93 LEXINGTON - BURLINGTON - INTERSTATE RESURFACING AND RELATED WORK ON I-95	TED 605597 605596 604879 606170	\$5,154,240 \$12,685,000 \$9,440,000 \$14,480,960 \$33,205,200	3 4 5 4 4	42.4 56.6 12.5 39.7 44.7	44.5 60.9 16.5 35.6 51.4	5,154,240 12,685,000 9,440,000 14,480,960 33,205,200		
	Total FFY2013:			\$74,985,400				<b>74,985,400</b>		
	I-91 I-91 I-190 I-95 I-95	EASTHAMPTON NORTHAMPTON- INTERSTATE MAINTENANCE AND RELATED WORK ON BERNARDSTON - INTERSTATE MAINTENANCE RESURFACING AND RELATED WORK ON WORCESTER- INTERSTATE MAINTENANCE & RELATED WORK ON I-190 (NB) SHARON WAPOLE- INTERSTATE RESURFACING AND RELATED WORK ON I-95 CHELMSFORD- INTERSTATE MAINTENANCE RESURFACING AND RELATED WORK NEW BEDFORD- FAIRHAVEN - INTERSTATE MAINTENANCE RESURFACING AND RELATED WORK	6065832 606173 6055988 6061711 6061714 606172	\$10,797,000 \$7,985,000 \$11,044,800 \$9,912,000 \$12,488,120 \$10,384,000	2 2 3 5 4 5	20.8 50.4 0.0 16.5 35.1 24.8	26.9 54.9 0.0 20.7 90.0 29.2	10,797,000 7,985,000 \$11,486,800 \$10,308,480 \$12,488,120 \$10,384,000		
2014	I-84 I-95 I-495	STURBRIDGE- HOLLAND- INTERSTATE MAINTENANCE & RELATED WORK ON I-84 GEORGETOWN/NEWBURY WEST NEWBURY/PORT SALISBURY- INTERSTATE R (SALISBURY 3080 FEET TO STATE LINE) LOWELL/TEWKSBURY ANDOVER	6055942 6065499 -	\$14,331,000 \$28,674,000 -	3 4 4	0.0 77.4 90.2	7.5 86.4 90.82	11,228,880 8,283,600 11,486,592 10,308,480 12,488,685 10,759,390		
	Total FFY2014:		606574	\$20,390,400	4	92.0	100.0	18,880,000	<b>\$62,591,920</b>	<b>65,095,597</b>
	I-84 I-95 I-495	HATFIELD WHATELY NORTHBORO- MARLBORO FRANKLIN INTERSTATE AND RELATED WORK STERLING/LEICESTER/LANCASTER FOXBOROUGH - PLAINVILLE - WRENTHAM - I. M. RESURFACING AND RELATED WORK ON I-495 GREENFIELD BERNARDSTON	606577 TBD 606546 606575 606176	\$11,894,400 \$8,923,443 \$10,149,888 \$16,493,568 \$12,475,904 \$3,068,755	2 3 3 3 5 2	25.9 16.1 39.7 8.7 32.4 48.6	34.4 20.3 44.5 19.1 38.3 50.4	10,620,000 7,987,380 9,082,400 14,726,400 11,159,200 2,739,960		
	Total FFY2015:			<b>\$63,401,400</b>				<b>\$58,705,000</b>		
	I-91 I-290 I-495 I-190 I-495 I-91	Resurfacing Work Being Performed Outside of MA Resurfacing Projects (Add-A-Lane & Design Build)	Route	Resurfacing \$						
2016	I-91 I-95 I-95 I-93	Derefield Bridge (mm 37.7-40.0) Whitter Bridge (Mm 88.4 - 90.2) Canton - Wellesley (mm 22.58 - 30.0) Canton - Milton (mm 0.0 - 3.4)	TBD \$10,149,888 \$16,493,568 \$12,475,904 \$3,068,755	\$ 3,582,480 \$ 9,664,800 \$ 19,14,240 \$ 8,326,400						
	Total			<b>\$ 41,587,920</b>				<b>\$ 63,005,968</b>		

**MassDOT Statewide TE FFY 2013 - 2016**

**4/6/2012**

Year	Region	Location	Proj Num.	District	Design Status	TPPCC	Inflation Adj.
2013	Pioneer Valley	AGAWAM- CONSTRUCTION OF BIKEWAY LOOP CONNECTING CONNECTICUT RIVERWALK WITH MAIN STREET BEVERLY- CONSTRUCTION OF A WALKWAY ON BEVERLY HARBORFRONT	603731	2	100% Design	\$2,506,021.08	-
	Boston	FRANLIGHAM- BIKE PATH CONSTRUCTION & IMPROVEMENTS ON COCHITIUTE RAIL TRAIL, FROM SCHOOL STREET TO ROUTE 30 SALEM- CAUSEWAY PARK CONSTRUCTION	602514	4	75% Design	\$570,665.00	-
	Boston	METHUEN- INTERCHANGE RECONSTRUCTION ON I-93 AT ROUTE 110/113 ROTARY, INCLUDING REMOVAL OF M-17-017 & M-17-018, REHAB OF M-17-007 & NEW BRIDGE CONSTRUCTION OF M-17-040	606137	3	25% Design	\$792,731.25	-
	Nemimack Valley		605121	4	25% Design	\$1,441,650.00	-
	Statewide		605181	4	75% Design	\$188,500.00	-
		Mass DOT Enhancements Incentive Program (\$2 gets you \$1)	N/A	N/A	N/A	\$2,000,000.00	-
					FFY2013 TOTAL	<b>\$7,499,567.33</b>	-
					Approved	\$2,208,000.00	\$1,748,199.00
2014	Hennimack Valley	HAVERHILL- RIVERWALK CONSTRUCTION (BRADFORD SECTION) FROM ROUTE 125 TO COUNTY ROAD	605720	4	100% Design	\$1,519,199.55	\$1,579,367.53
	Pioneer Valley	WEST SPRINGSFIELD- CONNECTICUT RIVERWALK & BIKEWAY EXTENSION, FROM ELM STREET TO DOTY CIRCLE, INCLUDES PEDESTRIAN BRIDGE W-21-020	603730	2	100% Design	\$1,519,199.55	
	Boston	ACTION- CARLISLE- WESTFORD- BRUCE FREEMAN RAIL TRAIL (PHASE II-A)	604532	3	25% Design	\$8,450,000.00	\$8,768,000.00
	Nemimack Valley	METHUEN- INTERCHANGE RECONSTRUCTION ON I-93 AT ROUTE 110/113 ROTARY, INCLUDING REMOVAL OF M-17-017 & M-17-018, REHAB OF M-17-007 & NEW BRIDGE CONSTRUCTION OF M-17-040	605181	4	75% Design	\$366,667.00	\$366,667.00
					FFY2014 TOTAL	<b>\$12,543,866.55</b>	<b>\$12,482,833.53</b>
					Approved	\$3,000,000.00	\$3,240,000.00
	NPEDC	NANTUCKET- CONSTRUCTION OF IN TOWN SHARED USE PATH (WASHINGTON STREET TO ORANGE STREET) PITTSFIELD - ASHUMWELL/TICOOK RAIL TRAIL EXTENTION	606503	4	Approved	\$1,000,000.00	\$1,060,000.00
	Berkshire	FALL RIVER- BIKE PATH CONSTRUCTION ALONG THE QUEQUECHAN RIVER, FROM BRAYTON AVENUE TO PLYMOUTH AVENUE	606533	5	Initial	\$1,800,000.00	\$1,944,000.00
2015	SE Mass	NORTH ADAMS / WILLIAMSTOWN - MOHAWK BIKE TRAIL PROJECT	606591	1	Pre-PRC	\$1,200,000.00	\$1,296,000.00
	Berkshire	METHUEN- INTERCHANGE RECONSTRUCTION ON I-93 AT ROUTE 110/113 ROTARY, INCLUDING REMOVAL OF M-17-017 & M-17-018, REHAB OF M-17-007 & NEW BRIDGE CONSTRUCTION OF M-17-040	N/A	1	Initial	\$4,200,000.00	\$4,536,000.00
	Nemimack Valley		605181	4	75% Design	\$366,667.00	\$366,667.00
					FFY2015 TOTAL	<b>\$11,566,667.00</b>	<b>\$12,482,667.00</b>
					Approved	\$26,270,246.00	\$3,850,000.00
2016	Pioneer Valley	BOXFORD- GEORGETOWN- NEWBURY- SALTBURY- MULTI-USE TRAIL EXTENSION (BORDERS TO BOSTON TRAIL) "Salisbury section" WESTFIELD- COLUMBIA GREENWAY RAIL TRAIL CONSTRUCTION (CENTER DOWNTOWN SECTION), FROM COLUMBIA MFG SPUR TO COWLES COURT	606107	2	75% Design	\$6,281,630.65	\$7,035,426.33
	Pioneer Valley	CHICOPPEE- CONNECTICUT RIVERWALK & BIKEWAY CONSTRUCTION, FROM THE SPRINGFIELD CL. TO NASH FIELD	606026	2	25% Design	\$1,398,100.00	\$1,565,872.00
					FFY2016 TOTAL	<b>\$33,949,978.33</b>	<b>\$12,451,298.33</b>

**MassDOT Statewide CMAQ FFY 2013-16**

4/4/2012

Year	Region	Location	Proj Num.	District	Design Status	TFPCC	Inflation Adj.
2013	Statewide	MASSRIDES -- TRAVEL OPTIONS PROGRAM	N/A	N/A	N/A	\$2,549,806.00	-
	Statewide	VANPOOLS	N/A	N/A	N/A	\$490,000.00	-
	Statewide	ALTERNATIVE FUEL VEHICLES	N/A	N/A	N/A	\$3,210,194.00	-
	Statewide	ADMINISTRATIVE CONSENT ORDER (ACO) PROJECTS	N/A	N/A	N/A	\$12,791,948.00	-
	Merrimack Valley	METHIEN- INTERCHANGE RECONSTRUCTION ON I-93 AT ROUTE 110/113 ROTARY, INCLUDING REMOVAL OF M-17-017 & M-17-018, REHAB OF M-17-007 & NEW BRIDGE CONSTRUCTION OF M-17-040	605181	4	75% Design	\$17,700,000	-
		<b>FFY 2013 TOTAL</b>				\$35,741,948.00	-
2014	Statewide	MASSRIDES -- TRAVEL OPTIONS PROGRAM	N/A	N/A	N/A	\$2,618,805.00	-
	Statewide	VANPOOLS	N/A	N/A	N/A	\$452,000.00	-
	Statewide	TRUCK STOP ELECTRIFICATION	N/A	N/A	N/A	\$500,000.00	-
	Statewide	ALTERNATIVE FUEL VEHICLES	N/A	N/A	N/A	\$1,141,195.00	-
	Boston	DUXBURY- INTERSECTION IMPROVEMENTS @ KINGSTOWN WAY (ROUTE 53) & WINTER STREET	603462	5	75% Design	\$1,097,698.00	\$1,141,605.92
	Pioneer Valley	NORTHAMPTON- TRANSIT SIGNAL PRIORITY SYSTEM INSTALLATION ON ROUTE 9	606513	2	100% Design	\$222,936.00	\$231,633.44
	Merrimack Valley	NORTH ANDOVER- TRAFFIC SIGNAL BETTERMENT @ 8 LOCATIONS ALONG ROUTE 125	605730	4	Final Design	\$1,005,943.75	\$1,046,181.50
	Merrimack Valley	SALTSBURG- TRAFFIC SIGNAL BETTERMENTS AT 4 LOCATIONS	605735	4	Final Design	\$1,159,487.50	\$1,205,867.00
	Boston	WINCHESTER- SIGNAL & IMPROVEMENTS AT 4 LOCATIONS ON CHURCH STREET & ROUTE 3 (CAMBRIDGE- STREET)	601019	4	100% Design	\$3,985,902.51	\$4,145,338.61
	Statewide	DISTRICT 5- TRAFFIC SIGNAL SYSTEMS UPDATES & REPAIRS AT VARIOUS LOCATIONS (AREAS ABCD)	6086927	5	100% Design	\$650,000.00	\$676,000.00
	Merrimack Valley	METHIEN- INTERCHANGE RECONSTRUCTION ON I-93 AT ROUTE 110/113 ROTARY, INCLUDING REMOVAL OF M-17-017 & M-17-018, REHAB OF M-17-007 & NEW BRIDGE CONSTRUCTION OF M-17-040	605181	4	75% Design	\$17,700,000	-
		<b>FFY 2014 TOTAL</b>				\$32,643,967.76	\$3,446,346.47
2015	Statewide	MASSRIDES -- TRAVEL OPTIONS PROGRAM	N/A	N/A	N/A	\$2,669,512.00	-
	Statewide	VANPOOLS	N/A	N/A	N/A	\$500,000.00	-
	Statewide	DISTRICT 5- TRAFFIC SIGNAL CONTROLLER CABINET & MISCELLANEOUS MATERIALS PURCHASE 8	606055	5	Approved	\$1,450,000.00	\$1,544,400.00
	Statewide	DISTRICT 4- TRAFFIC SIGNAL CONTROLLER CABINET & MISCELLANEOUS MATERIALS PURCHASE 8	606054	4	75% Design	\$1,238,085.00	\$1,337,131.80
	Merrimack Valley	INSTALLATION- METHIEN- INTERCHANGE RECONSTRUCTION ON I-93 AT ROUTE 110/113 ROTARY, INCLUDING REMOVAL OF M-17-017 & M-17-018, REHAB OF M-17-007 & NEW BRIDGE CONSTRUCTION OF M-17-040	605181	4	75% Design	\$17,700,000	-
		<b>FFY 2015 TOTAL</b>				\$23,557,597.00	\$2,681,531.80
2016	Statewide	MASSRIDES -- TRAVEL OPTIONS PROGRAM	N/A	N/A	N/A	\$2,762,128.00	-
	Statewide	DISTRICT 6- SCHEDULED & EMERGENCY TRAFFIC SIGNAL REPAIRS AT VARIOUS LOCATIONS	606107	6	Approved	\$500,250.00	\$560,280.00
	Statewide	DISTRICT 4- TRAFFIC SIGNAL REPLACEMENT & FIBER-OPTIC LED CONVERSION AT VARIOUS LOCATIONS	6061026	4	Approved	\$1,500,000.00	\$1,660,000.00
	Pioneer Valley	CHICOPEE- SIGNAL & INTERSECTION IMPROVEMENTS AT MEMORIAL DRIVE (ROUTE 33) & BROADWAY	604435	2	25% Design	\$1,378,995.60	\$1,544,475.07
	Pioneer Valley	HOLYOKE- TRAFFIC SIGNAL UPGRADES AT 15 INTERSECTIONS ALONG HIGH & MARBLE STREETS	6061450	2	Approved	\$1,504,680.00	\$1,685,241.60
	Boston	WAYLAND- SIGNAL & INTERSECTION IMPROVEMENTS AT ROUTE 27 (MAIN STREET) AND ROUTE 30 (COMMONWEALTH ROAD)	601572	3	25% Design	\$1,833,903.60	\$2,053,972.03
	Boston	STONEHAM- SIGNAL & INTERSECTION IMPROVEMENTS AT ROUTE 28(NORTH STREET)	602165	4	25% Design	\$3,142,660.00	\$3,519,779.20
	SE Mass	TAUNTON- INTERSECTION IMPROVEMENTS @ ROUTE 140 (COUNTY STREET) & HART STREET	605679	5	25% Design	\$1,680,680.00	\$1,882,361.60
	Pioneer Valley	SOUTHWICK- INTERSECTION IMPROVEMENTS AT FOUR LOCATIONS ON ROUTE 57 (FEEDING HILLS ROAD)	603472	2	Approved	\$2,160,000.00	\$2,419,200.00
	Pioneer Valley	NORTHAMPTON- INTERSECTION IMPROVEMENTS AT PLEASANT STREET (STATE ROUTE 5) AND CONZ STREET	605066	2	Approved	\$812,500.00	\$910,000.00
	Boston	HOLLISTON- SIGNAL INSTALLATION AT ROUTE 161/26 AND OAK STREET	602462	3	25% Design	\$1,000,000.00	\$1,120,000.00
	Central MA	WORCESTER- SIGNAL & INTERSECTION IMPROVEMENTS @ HOLDEN STREET, DRUMMOND AVENUE & SLOBOE DRIVE	603251	3	Approved	\$433,125.00	\$485,100.00
	SE Mass	TAUNTON- INTERSECTION IMPROVEMENTS AT THE HON. GORDON M. OWEN RIVERWAY & WILLIAMS STREET	605362	5	Approved	\$1,500,000.00	\$1,680,000.00
	Central MA	NORTHRIDGE- SIGNAL & INTERSECTION IMPROVEMENTS AT ROUTE 122 (PROVIDENCE ROAD) & CALIFORNIA STREET	604116	3	25% Design	\$616,876.50	\$690,901.68
		<b>FFY 2016 TOTAL</b>				\$20,825,798.70	\$20,231,311.18

MassDOT - OTIP

April 4, 2012

## FFY 2013 THROUGH 2016 MASSDOT HIGHWAY DIVISION Safe Routes To Schools PROJECTS

### FFY 2013 - 2016 Statewide HSIP (Safety) Program

FF Year	Project Number	Location/Description	TFPCC	HSIP	Comments
2013	606466	Statewide Systematic Low Cost Intersection Improvements - Phase II - Statewide	Unknown	\$ 1,000,000.00	All projects yet to be determined - SHSP update draft should be available by summer 2012
2013	607069	Statewide- Various Safety Strategies To Be Determined Based On 2012 Shsp And Updates	Unknown	\$ 2,000,000.00	
2013	607070	Statewide- Implementation (Phase I) Of The Flashing Yellow Arrow At Signalized Intersections -One Of The "Rhwa Nine Proven Countermeasures	\$	1,300,000.00	Development of project scope and PNF underway
2013	605442	Longmeadow - Northampton: Traffic Sign Replacement On I-91 - District 2	\$700,000.00	\$ 700,000.00	AC 2 of 2, TFPCC \$4.4M.
			\$	5,000,000.00	

FF Year	Project Number	Location/Description	TFPCC	HSIP	Comments
2014	607069	Various Safety Strategies To Be Determined Based On 2012 Shsp And Updates	10/11/7156	\$ 2,000,000.00	All projects yet to be determined - SHSP update draft should be available by summer 2012
2014	605668	Raynham-Signal And Intersection Improvement At Route 44, Orchard Street And Route 24 Nb Off Ramp- District 5	\$2,769,200.00	\$ 1,000,000.00	funded through a variety of sources, fully funded
2014	604964	Lowell- Signal & Intersection Improvements At Vfw Highway, Bridge Street & Lakeview Avenue - District 4	\$2,139,120.00	\$ 1,000,000.00	funded through a variety of sources, fully funded
2014	607071	Statewide- Implementation (Phase II) Of The Flashing Yellow Arrow At Signalized Intersections -One Of The "Rhwa Nine Proven Countermeasures"	Unknown	\$ 1,000,000.00	
2014	606733	Attleboro - Improvements To I-95 Sb / I-295 Sb Ramps Which Is One Of The Highest Truck Rollover Locations In The State District 5	\$2,800,000.00	\$ 1,000,000.00	
			\$	6,000,000.00	

FF Year	Project Number	Location/Description	TFPCC	HSIP	Comments
2015	607072	Implementation (Phase Iii) Of The Flashing Yellow Arrow At Signalized Intersections -One Of The "Rhwa Nine Proven Countermeasures" - Statewide	Unknown	\$ 1,000,000.00	All projects yet to be determined - SHSP update draft should be available by summer 2012
2015	607069	Various Safety Strategies To Be Determined Based On 2012 Shsp And Updates	Unknown	\$ 4,000,000.00	
			\$	5,000,000.00	

FF Year	Project Number	Location/Description	TFPCC	HSIP	Comments
2016	607069	Various Safety Strategies to be determined based on 2012 SHSP and updates	Unknown	\$ 5,000,000.00	All projects yet to be determined - SHSP update draft should be available by summer 2012

**FFY2013 - 2016 Statewide Infrastructure Program**

FF Year	Project	Location/Description	TFPCC	YOE	STP-Infrastructure	Comments
2013	604937	Lexington- Newton- Waltham- Wellesley- Weston- Traffic Sign Replacement On I-95. From Wellesley (Route 9) To Lexington (Routes 4/225). Approx. 13 Miles	\$2,800,000.00		\$2,800,000.00	AC 2 of 2. TFPCC \$3M.
2013	606092	District 4- Highway Lighting Upgrades On The Lowell Connector, From The I-495 Ramps To Gorham Street	\$2,800,000.00		\$2,800,000.00	AC 2 of 2. TFPCC \$4.1M.
2013	605444	Seekonk- Dartmouth- Guide & Traffic Sign Replacement On I-195 & State Route 24	\$5,300,000.00		\$400,000.00	AC 1 of 2. TFPCC \$5.3M.
					\$ 6,000,000.00	
FF Year	Project	Location/Description	TFPCC	YOE	STP-Infrastructure	Comments
2014	605444	Seekonk- Dartmouth- Guide & Traffic Sign Replacement On I-195 & State Route 24	\$4,900,000.00	\$1,900,000.00	\$4,900,000.00	AC 2 of 2. TFPCC \$5.3M with 0% YOE.
2014	603917	Stoneham- Woburn- Lighting Upgrades On I-93	\$1,100,000.00	\$1,100,000.00	\$1,100,000.00	AC 1 of 4. TFPCC \$17.16M with 4% YOE.
					\$ 6,000,000.00	
FF Year	Project	Location/Description	TFPCC	YOE	STP-Infrastructure	Comments
2015	603917	Stoneham- Woburn- Lighting Upgrades On I-93	\$5,400,000.00	\$5,400,000.00	\$5,400,000.00	AC 2 of 4. TFPCC \$17.16M with 4% YOE.
2015	605733	Boston- Highway Lighting System Replacement On I-93, From Southampton Street To Neponset Avenue	\$600,000.00	\$600,000.00	\$600,000.00	AC 1 of 3. TFPCC \$2,106,000 with 8% YOE.
					\$ 6,000,000.00	
FF Year	Project	Location/Description	TFPCC	YOE	STP-Infrastructure	Comments
2016	605733	Boston- Highway Lighting System Replacement On I-93, From Southampton Street To Neponset Avenue	\$1,350,000.00	\$1,350,000.00	\$1,350,000.00	AC 2 of 3. TFPCC \$2,106,000 with 8% YOE.
2016	603917	Stoneham- Woburn- Lighting Upgrades On I-93	\$3,600,000.00	\$3,600,000.00	\$3,600,000.00	AC 3 of 4. TFPCC \$17.16M with 4% YOE.
2016	605703	Lowell- Methuen- Traffic Sign Replacement & Related Work On I-495	\$1,050,000.00	\$1,050,000.00	\$1,050,000.00	AC 1 of 2. TFPCC \$4.256M with 12% TFPCC.
					\$ 6,000,000.00	

## **VIII. 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 2011-2012 TIP projects are identified in the table 18.

**Table 18: Project Implementation**

Year	Highway Project Description	Municipality	SID	Funding	Programmed	Status
2011	North end and Brightwood Infrastructure Improvements (South) (\$3,384,690)	Springfield	604449	STP	\$3,205,372	Under Construction
2011	*Westfield Street: Route 20 reconstruction (\$5,906,720)	West Springfield	604737	STP	\$5,606,720	Under Construction
2011	*Westfield Street: Route 20 reconstruction (\$5,906,720)	West Springfield	604737	STP-E	\$300,000	Under Construction
2011	*Main St. (Rte. 20) and Park Square Hwy Improvement (\$15,000,000)	Westfield	603318	A/C STP	\$3,137,585	Under Construction
2011	MORGAN ST. FROM RT.116 to SO.HADLEY T.L. and ROUTE 202 FROM CT. RIVER TO RT.116	South Hadley	606218	STP	\$2,521,602	Under Construction
2011	*Pleasant Street (\$1,650,000)	Holyoke	602925	STP	\$1,650,000	Under Construction
2011	**Chicopee Riverwalk - Design only	Chicopee	602912	CMAQ	\$212,500	Design only
2011	*Main St. (Rte. 20) and Park Square Hwy Improvement (\$15,000,000)	Westfield	603318	A/C STP	\$1,138,740	Under Construction
2011	Westfield Street: Route 20 reconstruction	West Springfield	604737	A/C HSIP	\$1,080,992	Under Construction
2011	*Westfield Street: Route 20 reconstruction (\$5,906,720)	West Springfield	604737	STP-E	\$150,000	Under Construction
2011	Bridge Replacement River Road over Mill River	Northampton	603729	BR	\$2,277,760	Under Construction
2011	Bridge Replacement Pochassic Street over PV RR & Access Road	Westfield	160045	BR	\$5,615,460	Under Construction
2011	Bridge replacement Roosevelt Ave over Contrail Spur & Main (Double Stack) Line	Springfield	602600	BR	\$14,695,385	Under Construction
2011	Great River Bridge	Westfield	600933	A/C Bridge	\$1,000,000	Under Construction
2011	Bridge Rehabilitation Route 116 Chicopee/Cabot St. over Conn. River and PVRR (\$33,000,000)	Chicopee/Holyoke	82611	A/C Bridge	\$8,000,000	Under Construction
2011	I-91 Interstate Pavement rehabilitation	West Springfield	605587	IM	\$7,095,381	Under Construction
2012	Improvements to Allen Street and Bicentennial Highway (\$2,400,000)	Springfield	604821	STP	\$3,189,211	Letting 5/30/2012
2012	Route 116 (Notch) Reconstruction \$4,006,890	Amherst	82250	STP	\$3,302,908	Not Advertised
2012	Route 116 (Notch) Reconstruction \$4,006,890	Amherst	82250	STP-E	\$528,000	Not Advertised
2012	Route 159 (Main Street) Reconstruction (\$4,239,802)	Agawam	602653	STP	\$2,350,830	Not Advertised
2012	Route 159 (Main Street) Reconstruction (\$4,239,802)	Agawam	602653	STP-E	\$606,000	Not Advertised
2012	Main @ Maple and Jabish Intersection Improvements	Belchertown	605556	CMAQ	\$1,004,769	Awarded
2012	Route 202 Resurfacing Douglas Street to Route 33	South Hadley	606471	STP	\$1,000,000	Awarded
2012	Route 159 (Main Street) Reconstruction (\$4,152,422)	Agawam	602653	HSIP	\$1,080,992	Not Advertised
2012	Route 116 (Notch) Reconstruction \$4,006,890	Amherst	82250	TE	\$175,982	Not Advertised
2012	Route 159 (Main Street) Reconstruction (\$4,239,802)	Agawam	602653	TE	\$201,980	Not Advertised
2012	Bridge Rehabilitation Route 116 Chicopee/Cabot St. over Conn. River and PVRR	Chicopee/Holyoke	82611	A/C Bridge	\$8,000,000	Not Advertised
2012	Bridge Replacement Kennedy Rd over Roberts Meadow Brook	Northampton	604242	BR	\$1,094,187	Awarded 3/13/2012
2012	Bridge Rehab, Pelham Rd over Fort River	Amherst	604023	BR	\$1,247,190	Not Advertised
2012	*Spring, Elliot, and Edwards St Intersection Improvement (\$1,228,668)	Springfield (MA259)	605817	Sec. 125	\$700,000	Not Advertised
2012	*Spring, Elliot, and Edwards St Intersection Improvement (\$1,228,668)	Springfield (MA240)	605817	Sec. 129	\$735,000	Not Advertised
2012	Replacement of Northampton Street bridge over the Manhan River	Easthampton	604048	IBRD	\$300,000	Not Advertised
2012	FY 2002-TCSP (008), West Springfield, Pioneer Valley Planning Commission Region		TCSP		\$207,459	Not Advertised
2012	PVPC FFY2011 Access and Interpretation	CT River Scenic Byway		NSBG	\$203,364	Not Advertised
2012	PVPC FFY2011 Blanche Barlow Acres/Goose Pond Recreational Access	JLT Scenic Byway		NSBG	\$170,100	Not Advertised
2012	PVPC FFY 2010 Trails Linkages project for Route 112 and JLT	Rt112/JLT Scenic Byway		NSBG	\$68,375	Not Advertised
2012	I-91 Interstate Pavement rehabilitation	West Springfield/Holyoke	605594	IM	\$16,452,094	Letting 5/16/2012
2012	Traffic Sign Replacement on I-91 District 2	Longmeadow -	605442	HSIP	\$700,000	Under Construction
2012	Interstate Maintenance and Related work on I-91	Holyoke/West Springfield	605594	IM	\$16,452,096	Under Construction

## **IX. Air Quality Conformity Determination**

### **Pioneer Valley Metropolitan Planning Organization**

#### **FFY 2013-2016 Transportation Improvement Program**

### **Background**

The Commonwealth of Massachusetts is classified as serious nonattainment for ozone, and is divided into two nonattainment areas. The Eastern Massachusetts ozone nonattainment area includes Barnstable, Bristol, Dukes, Essex, Middlesex, Nantucket, Norfolk, Plymouth, Suffolk, and Worcester counties. Berkshire, Franklin, Hampden, and Hampshire counties comprise the Western Massachusetts ozone nonattainment area. With these classifications, the 1990 Clean Air Act Amendments (CAA) required the Commonwealth to reduce its emissions of volatile organic compounds (VOCs) and nitrogen oxides (NOx), the two major precursors to ozone formation to achieve attainment of the ozone standard. In April 2002, the City of Springfield was re-designated to attainment for carbon monoxide with an EPA-approved limited maintenance plan (see the 2012 Transportation Plan for more details).

The CAAA also required Metropolitan Planning Organizations (MPOs) within nonattainment areas to perform conformity determinations prior to the approval of their Regional Transportation Plans (RTPs) and Transportation Improvement Programs (TIPs). Periodically, air quality analyses are conducted on all the RTPs, the purposes of which are to evaluate the RTPs' air quality impacts on the SIP. Conformity determinations are then performed to ensure that all regionally significant projects are included in the RTPs and the TIPs, and that they meet the air quality goals of the SIP. The Federal Highway Administration (FHWA) – in consultation with the Environmental Protection Agency (EPA New England) and the Massachusetts Department of Environmental Protection (DEP) – confirm and approve these conformity determinations (more details and background of major conformity milestones in recent years are provided in the Pioneer Valley MPO 2012 Regional Transportation Plan).

Previously, the Massachusetts Department of Transportation found the emission levels from the 2012 Regional Transportation Plans – as well as from the 2012-2015 TIPs – to be in conformance with the SIP. Each MPO had certified (and continues to certify) that all activities outlined in its RTP and its TIP:

- will not cause or contribute to any new violation of any standard in any area;
- will not increase the frequency or severity of any existing violation of any standard in any area; and,
- will not delay the timely attainment of any standard or any required interim emission reductions or other milestones in any area.

Key elements of this FY 2013–2016 TIP related to air quality conformity are as follows:

- This TIP is financially constrained, and all projects in the TIP come from the conforming Pioneer Valley MPO 2012 Regional Transportation Plan.

- All regionally significant RTP projects for 2013 through 2016 (both Federal and Non-Federal Aid) are programmed in the TIP.
- All regionally significant projects included in the TIP have been included in the air quality analysis for the conforming Plan. These projects are of the same design and concept as presented in the 2012 conforming RTP (projects in the TIP come from the conforming Plan).
- In the Western Massachusetts Ozone Non-Attainment Area, all regionally significant transportation projects programmed in each regional 2013-2016 TIP (and included in the transportation models) do not substantially change their projected completion timeframe by crossing any milestone years used (2016, 2020, 2025, 2035) for the most recently performed and approved conformity analyses done in 2011.
- All other of the latest planning assumptions relative to conformity analyses (latest emission rates, latest socio-economic projections, etc.) remain unchanged from the previously completed and approved conformity analyses on each 2012-2015 TIP.
- Therefore, with no changes to any of the assumptions, project timelines, or model inputs, the same conformity analysis performed and approved for last year's TIPs can be used once again with the 2013-2016 TIPs for the determination of air quality conformity.
- Therefore, this TIP, in combination with the TIPs from the other MPOs in the Western Massachusetts Ozone Non-Attainment Area, demonstrates air quality conformity.

### **Timely Implementation of Transportation Control Measures**

Transportation Control Measures (TCMs) have been required in the SIP in revisions submitted to EPA in 1979 and 1982. All SIP TCMs have been accomplished through construction or through implementation of ongoing programs. All of the projects have been included in the Region's Transportation Plan (present or past) as recommended projects or projects requiring further study.

DEP submitted to EPA its strategy of programs to show Reasonable Further Progress of a 15% reduction of VOCs in 1996 and the further 9% reduction of NOx toward attainment of the National Ambient Air Quality Standards (NAAQS) for ozone in 1999. Within that strategy there are no specific TCM projects. The strategy does call for traffic flow improvements to reduce congestion and, therefore, improve air quality. Other transportation-related projects that have been included in the SIP control strategy are listed below:

- *Enhanced Inspection and Maintenance Program*
- *California Low Emission Vehicle Program*
- *Reformulated Gasoline for On- and Off-Road Vehicles*
- *Stage II Vapor Recovery at Gasoline Refueling Stations*
- *Tier I Federal Vehicle Standards*

### **Air Quality Conformity Analysis**

On April 2, 2008, EPA found that the 2008 and 2009 motor vehicle emissions budgets (MVEBs) in the January 31, 2008 Massachusetts 8-hour ozone State Implementation Plan revision were adequate for

transportation conformity purposes. The submittal included 2008 and 2009 MVEBs for the Boston-Lawrence-Worcester (Eastern Massachusetts) and Springfield (Western Massachusetts) 8-hour ozone nonattainment areas. Massachusetts submitted these budgets as part of the 8-hour ozone attainment demonstration and reasonable further progress plan for both nonattainment areas, and as a result of EPA's adequacy finding, these budgets were required to be used for conformity determinations. EPA later determined (in 2010) that only the most recent MVEBs - 2009 - be used for future conformity determinations.

In 2011, air quality analyses were conducted on behalf of all the 2012-2015 Regional Transportation Improvement Programs (TIPs), the purposes of which were to evaluate the TIPs' air quality impacts on the SIP. Conformity determinations were performed to ensure that all regionally significant projects were included in the TIPs. The Massachusetts Department of Transportation found the emission levels from the 2012-2015 TIPs to be in conformance with the SIP. On November 8, 2011, EPA confirmed that both the Eastern and Western Massachusetts Non-Attainment areas collectively demonstrated transportation conformity, with concurrence on the conformity analyses from Massachusetts DEP on 11/2/11. On November 30, 2011, FHWA and FTA determined that the TIPs were in conformity with the Clean Air Act and the EPA conformity regulations (40 CFR Part 51).

The conformity test is to show consistency with the emissions budgets set forth in the SIP. Additional specific information regarding the analysis and modeling methods, latest planning assumptions, and consultation procedures are all detailed in the Pioneer Valley MPO 2012 RTP (and appendix B). The emissions from the following MPOs have been combined to show conformity with the SIP for the Western Massachusetts Nonattainment Area:

- Berkshire Region MPO
- Franklin Regional Council of Governments\*
- Pioneer Valley MPO

\* This region does not contain any official urbanized areas, but is considered to be an MPO for planning purposes.

The milestone and analysis year transportation model networks are composed of projects proposed in this 2013-2016 TIP. Projects in these networks consist of all in-place "regionally significant" projects that can reasonably be expected to be completed by a given analysis/horizon year with consideration of available funding commitments. This project group would include, but not be limited to, regionally significant projects where at least one of the following steps has occurred within the past three years:

- Comes from the first year of a previously conforming TIP,
- Completed the NEPA process, or
- Currently under construction or are undergoing right-of-way acquisition

A complete listing of future regionally significant projects for the entire Western Massachusetts Ozone Non-Attainment Area is provided below:

## Regionally Significant Projects Included in the Transportation Models for the Western Massachusetts Ozone Non-Attainment Area

<b>Analysis Year</b>	<b>Community</b>	<b>Project Description – Pioneer Valley Region</b>
2016	Chicopee	Deady Bridge signal coordination: Broadway/Montgomery, Main, and Belcher Streets
2016	Hadley	Route 9 widening Home Depot to Lowes.
2016	Holyoke, W.Springfield	Route 5 signal coordination from Ashley Ave. to Main St.
2016	Springfield,Wilbraham	Boston Rd. signal coordination Pasco Rd. to Stony Hill Rd.
2016	Westfield	Route 10/202 Great River Bridge - two bridges acting as one-way pairs.
2016	West Springfield	Improve the Union Street Railroad Underpass. Construct a truck bypass road.
2016	Through Region	Additional “Vermonter” passenger rail service
2020	Chicopee/South Hadley	Route 33 signal coordination and upgrades from Abbey St. to Fuller Rd.
2020	Hadley	Route 9 widening Middle Street to Lowes.
2020	Ludlow	Route 21 Center Street reconstruction and widening with center turn lane
2020	Northampton	Damon Rd. widening, improvements from Rte 9 to King St.
2020	Through Region	New Commuter Rail Service: Hartford, CT to Greenfield, MA
2025	Agawam	Connector, Route 5 to Route 57, eliminate rotary.
2025	Holyoke	Linden St. signal coordination and improvements at 5 intersections.
2025	Longmeadow	Route 5 signal coordination, improvements Converse St to Springfield city line.
2025	Westfield	Route 10/202 Elm Street, North Elm Street signal coordination.
2035	Agawam, Longmeadow, Springfield	South End Bridge improvements, including related work on I-91 between Exits 1-3.
2035	Agawam, West Springfield	Improvement to Route 5 access ramps for truck routing, route into CSX railyard.
<b>Analysis Year</b>	<b>Community</b>	<b>Project Description – Berkshire Region</b>
2016	Great Barrington	Main St .intersection improvements, signalization upgrades and add turning lanes
2020	Pittsfield	Intersection widening, turning lane improvements First/Tyler & Tyler/Stoddard Ave
2025	Great Barrington	Realign & widen State Rd., including new bridge to replace the current Brown Bridge
2025	Lanesboro/Cheshire	Construct passing lanes on Route 8 between Mall Road and truck weighing station
2025	Pittsfield	Safety and capacity improvements on East St. between Elm St. and Merrill Road
2035	Pittsfield	Construct connector street from W. Housatonic St. to West St. near CSX yard
<b>Analysis Year</b>	<b>Community</b>	<b>Project Description - Franklin Region</b>
2016	Through Region	Additional “Vermonter” passenger rail service
2020	Greenfield, Deerfield, Whately	New Commuter Rail Service: Hartford, CT to Greenfield, MA

Using the latest planning assumptions, the Massachusetts Department of Transportation, Office of Transportation Planning, in coordination with MPO staff, estimated the emissions for VOC and NOx for all MPOs in Western Massachusetts through the statewide travel demand model. The VOC mobile source emission budget for 2009 for the Western Massachusetts Nonattainment Area has been set at 10.73 tons per summer day and the 2009 mobile source budget for NOx is 27.73 tons per summer day. As shown in Tables 1 and 2, the results of the air quality analysis demonstrate that the VOC and NOx emissions from all Action scenarios are less than the VOC and NOx emissions budgets for the Western Massachusetts Nonattainment Area:

**TABLE 1**  
**VOC Emissions Estimates for the Western Massachusetts Ozone Nonattainment Area**  
**(all emissions in tons per summer day)**

<b>Year</b>	<b>Pioneer Valley Action Emissions</b>	<b>Western MA Action Emissions</b>	<b>Budget</b>	<b>Difference (Action – Budget)</b>
2010	n/a	10.947	n/a	n/a
2016	4.3623	6.832	10.73	-3.898
2020	3.8353	5.979	10.73	-4.751
2025	3.5568	5.534	10.73	-5.196
2035	3.5888	5.602	10.73	-5.128

**TABLE 2**  
**NOx Emissions Estimates for the Western Massachusetts Ozone Nonattainment Area**  
(all emissions in tons per summer day)

<b>Year</b>	<b>Pioneer Valley Action Emissions</b>	<b>Western MA Action Emissions</b>	<b>Budget</b>	<b>Difference (Action – Budget)</b>
2010	n/a	27.736	n/a	n/a
2016	7.5545	11.751	27.73	-15.979
2020	4.8899	7.732	27.73	-19.998
2025	3.6575	5.774	27.73	-21.956
2035	3.1062	5.018	27.73	-22.712

In summary, this TIP is derived from the conforming 2012 Regional Transportation Plan, and the conformity determination analysis has been prepared in accordance with EPA's final conformity regulations. The air quality analyses outlined in this document demonstrate that the implementation of the TIP satisfies the conformity criteria where applicable and is consistent with the air quality goals in the Massachusetts SIP.

Specifically, the Pioneer Valley MPO has found the emission levels from this FY 2013-2016 TIP – in combination with the emission levels from the other MPOs in its nonattainment area – demonstrate conformity with the SIP, the Clean Air Act, and the EPA conformity regulations (40 CFR part 51).

## **APPENDICES**

## **APPENDIX A: MassDOT Targets**

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**Summary of Proposed FFY 2013 - 2016 MPO Targets**  
March 14, 2012

	Current 2013	Proposed 2013	Current 2014	Proposed 2014	Current 2015	Proposed 2015	Proposed 2016
<b>Base Obligation Authority</b> Redistribution, as Estimated by FHWA	\$560,000,000 \$0	\$550,000,000 \$50,000,000	\$560,000,000 \$0	\$550,000,000 \$50,000,000	\$560,000,000 \$0	\$550,000,000 \$50,000,000	\$550,000,000 \$50,000,000
<b>Total Estimated Obligation Authority Available:</b> Central Artery/Tunnel or ABP GANS Obligation Authority	<b>\$560,000,000</b> -\$170,710,000	<b>\$600,000,000</b> -\$141,005,000	<b>\$560,000,000</b> -\$178,390,000	<b>\$600,000,000</b> -\$122,840,000	<b>\$560,000,000</b> -\$150,000,000	<b>\$600,000,000</b> -\$150,000,000	<b>\$600,000,000</b> -\$150,000,000
<b>Total Non-Earmarked OIA Available Statewide</b>	<b>\$389,290,000</b>	<b>\$458,995,000</b>	<b>\$381,610,000</b>	<b>\$477,160,000</b>	<b>\$410,000,000</b>	<b>\$450,000,000</b>	<b>\$450,000,000</b>
<b>Total Non-Earmarked Available Statewide ( Including State Match )</b>	<b>\$475,737,500</b>	<b>\$561,443,750</b>	<b>\$466,137,500</b>	<b>\$584,493,750</b>	<b>\$501,625,000</b>	<b>\$551,450,000</b>	<b>\$551,455,000</b>
<b>Statewide Infrastructure Items:</b>							
Statewide Infrastructure Program	\$6,000,000	\$6,000,000	\$6,000,000	\$6,000,000	\$6,000,000	\$6,000,000	\$6,000,000
Statewide HSIP Program	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000
Statewide Safe Routes to Schools Program	\$3,500,000	\$4,200,000	\$3,500,000	\$5,200,000	\$3,500,000	\$5,200,000	\$5,180,000
Statewide CMAQ	\$6,250,000	\$37,000,000	\$6,250,000	\$33,000,000	\$6,250,000	\$24,000,000	\$23,000,000
Statewide Transportation Enhancements	\$3,500,000	\$7,500,000	\$3,500,000	\$12,500,000	\$3,500,000	\$12,500,000	\$12,500,000
Statewide Recreational Trails	\$783,000	\$783,000	\$783,000	\$1,000,000	\$783,000	\$1,000,000	\$1,000,000
Statewide ITS	\$6,250,000	\$15,750,000	\$6,250,000	\$15,700,000	\$6,250,000	\$12,700,000	\$12,700,000
Statewide Design and Right of Way	\$2,000,000	\$0	\$2,000,000	\$0	\$2,000,000	\$0	\$0
Statewide Interstate Maintenance Program	\$75,000,000	\$75,000,000	\$75,000,000	\$65,250,000	\$75,000,000	\$63,000,000	\$63,000,000
Statewide NHS Preservation Program	\$12,000,000	\$12,000,000	\$12,000,000	\$29,218,750	\$12,000,000	\$25,500,000	\$25,500,000
Statewide Railroad Grade Crossings	\$500,000	\$10,000,000	\$500,000	\$10,000,000	\$500,000	\$2,500,000	\$2,500,000
Statewide Stormwater Retrofits	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000
Statewide ADA Implementation Plan	\$3,000,000	\$186,233,000	\$3,000,000	\$130,783,000	\$4,000,000	\$4,000,000	\$4,000,000
<b>Subtotal Statewide Infrastructure Items:</b>	<b>\$130,783,000</b>	<b>\$197,868,750</b>	<b>\$130,783,000</b>	<b>\$130,783,000</b>	<b>\$169,400,000</b>	<b>\$170,380,000</b>	<b>\$170,380,000</b>
<b>Other Statewide Items:</b>							
Award Adjustments, Change Orders, Project Value Changes, Etc.							
Planning	\$43,750,000	\$42,750,000	\$43,750,000	\$41,750,000	\$43,750,000	\$41,750,000	\$41,750,000
DBEs, CEPo, Pavement, Lab Retros., and Misc. Programs	\$23,000,000 \$0						
<b>Subtotal Other Statewide Items:</b>	<b>\$66,750,000</b>						
<b>Regional Major Infrastructure Projects:</b>							
<b>Bridge Program:</b>							
Statewide Bridge Maintenance Program							
Statewide Bridge Repl. / Rehab Program	\$121,483,328	\$139,175,000	\$121,483,328	\$99,175,000	\$121,483,328	\$10,000,000	\$10,000,000
Statewide Bridge Inspection Program	\$6,250,000	\$6,250,000	\$6,250,000	\$6,250,000	\$6,250,000	\$6,250,000	\$6,250,000
<b>Subtotal Federal Aid Bridge Program:</b>	<b>\$121,733,328</b>	<b>\$155,425,000</b>	<b>\$127,733,328</b>	<b>\$115,425,000</b>	<b>\$127,733,328</b>	<b>\$138,250,000</b>	<b>\$138,250,000</b>
<b>Regional Targets:</b>							
Minimum Regional CMAQ Component:	\$20,000,000	\$20,000,000	\$20,000,000	\$20,000,000	\$20,000,000	\$20,000,000	\$20,000,000
Maximum Regional HSIP Component:	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000
Maximum Regional Non-CMAQ / HSIP Component:	\$98,596,173	\$123,035,750	\$95,246,173	\$154,075,000	\$108,358,673	\$147,075,000	\$147,075,000
<b>Total Regional Target</b>	<b>\$128,596,173</b>	<b>\$153,035,750</b>	<b>\$125,246,173</b>	<b>\$184,075,000</b>	<b>\$136,358,673</b>	<b>\$138,050,000</b>	<b>\$177,075,000</b>

## TITLE 23 - TRANSPORTATION FUNDING

**FEDERAL FISCAL YEAR 2013  
FEDERAL REGIONAL TARGETS  
March 14, 2012**

	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>				
Central Artery/Tunnel Obligation Authority	(141,005,000)				
<b>Total Non-Earmarked Available Statewide - (Including State Match)</b>	<b>455,995,000</b>	<b>102,448,750</b>	<b>561,443,750</b>		
<b>Statewide Infrastructure Items:</b>					
Statewide Infrastructure Program	\$4,800,000	\$1,200,000	\$6,000,000		
Statewide HSIP Program	\$4,500,000	\$500,000	\$5,000,000		
Statewide Safe Routes to Schools Program	\$4,200,000	\$0	\$4,200,000		
Statewide CMAQ	\$29,600,000	\$7,400,000	\$37,000,000		
Statewide Transportation Enhancements	\$6,000,000	\$1,500,000	\$7,500,000		
Statewide Recreational Trails	\$626,400	\$156,600	\$783,000		
Statewide ITS	\$12,600,000	\$3,150,000	\$15,750,000		
Statewide Design and Right of Way	\$0	\$0	\$0		
Statewide Interstate Maintenance Program	\$67,500,000	\$7,500,000	\$75,000,000		
Statewide NHS Preservation Program	\$9,600,000	\$2,400,000	\$12,000,000		
Statewide Railroad Grade Crossings	\$8,000,000	\$2,000,000	\$10,000,000		
Statewide Stormwater retrofits	\$8,000,000	\$2,000,000	\$10,000,000		
Statewide ADA Implementation Plan	\$2,400,000	\$600,000	\$3,000,000		
<b>Subtotal Statewide Infrastructure Items:</b>	<b>\$157,826,400</b>	<b>\$28,406,600</b>	<b>\$186,233,000</b>		
<b>Other Statewide Items:</b>					
Award Adjustments, Change Orders, Project Value Changes, Etc.	\$34,200,000	\$8,550,000	\$42,750,000		
Planning	\$18,400,000	\$4,600,000	\$23,000,000		
DBEs, FAPO, Pavement Lab Retrofits, and Misc. Programs	\$800,000	\$200,000	\$1,000,000		
<b>Subtotal Other Statewide Items:</b>	<b>\$53,400,000</b>	<b>\$13,350,000</b>	<b>\$66,750,000</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	\$111,340,000	\$27,835,000	\$139,175,000		
Statewide Bridge Inspection Program	\$5,000,000	\$1,250,000	\$6,250,000		
<b>Subtotal Federal Aid Bridge Program:</b>	<b>\$124,340,000</b>	<b>\$31,085,000</b>	<b>\$155,425,000</b>		
<b>Total Regional Targets:</b>					
Minimum Regional CMAQ Component:	\$16,000,000	\$4,000,000	\$20,000,000		
Minimum Regional HSIP Component:	\$9,000,000	\$1,000,000	\$10,000,000		
Maximum Regional Non-CMAQ / HSIP Component:	\$98,428,600	\$24,607,150	\$123,035,750		
<b>Total Regional Target</b>	<b>\$123,428,600</b>	<b>\$29,607,150</b>	<b>\$153,035,750</b>		
<hr/>					
Region	Regional Share (%)	Regional Minimum HSIP Component With State Match	Regional Minimum CMAQ Component With State Match	Total Regional Target With State Match	STP with State Match
Berkshire Region	3.5596	\$355,964	\$711,929	\$5,447,528	\$4,379,635
Boston Region	42.9671	\$4,296,710	\$8,593,421	\$65,755,029	\$52,864,898
Cape Cod	4.5851	\$458,514	\$917,028	\$7,016,906	\$5,641,363
Central Mass	8.6901	\$869,013	\$1,738,026	\$13,299,007	\$10,691,968
Franklin Region	2.5397	\$253,975	\$507,949	\$3,886,719	\$3,124,796
Martha's Vineyard	0.3100	\$30,997	\$61,994	\$474,363	\$381,373
Merrimack Valley	4.4296	\$442,956	\$885,911	\$6,778,806	\$5,449,939
Montachusetts	4.4596	\$446,955	\$891,911	\$6,824,712	\$5,486,846
Nantucket	0.2200	\$21,998	\$43,996	\$336,645	\$270,652
Northern Middlesex	3.9096	\$390,961	\$781,922	\$5,983,099	\$4,810,217
Old Colony	4.5595	\$465,954	\$911,909	\$6,977,732	\$5,609,869
Pioneer Valley	10.8099	\$1,080,992	\$2,161,984	\$16,543,041	\$13,300,065
Southeastern Mass	8.9601	\$896,010	\$1,792,021	\$13,712,162	\$11,024,131
<b>Total:</b>	<b>100.00</b>	<b>\$10,000,000</b>	<b>\$20,000,000</b>	<b>\$153,035,750</b>	<b>\$123,035,750</b>

Note 1: Base Obligation Authority includes Estimated Equity Bonus Exempt from Limitation

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**TITLE 23 - TRANSPORTATION FUNDING**

**FEDERAL FISCAL YEAR 2014  
FEDERAL REGIONAL TARGETS  
March 14, 2012**

	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>				
Central Artery/Tunnel Obligation Authority	(122,840,000)		Final CAT/GANS		
<b>Total Non-Earmarked Available Statewide - (Including State Match)</b>	<b>477,160,000</b>	<b>107,833,750</b>	<b>584,993,750</b>		
<b>Statewide Infrastructure Items:</b>					
Statewide Infrastructure Program	\$4,800,000	\$1,200,000	\$6,000,000		
Statewide HSIP Program	\$5,400,000	\$600,000	\$6,000,000		
Statewide Safe Routes to Schools Program	\$5,200,000	\$0	\$5,200,000		
Statewide CMAQ	\$26,400,000	\$8,600,000	\$33,000,000		
Statewide Transportation Enhancements	\$10,000,000	\$2,500,000	\$12,500,000		
Statewide Recreational Trails	\$800,000	\$200,000	\$1,000,000		
Statewide ITS	\$12,580,000	\$3,140,000	\$15,700,000		
Statewide Design and Right of Way	\$0	\$0	\$0		
Statewide Interstate Maintenance Program	\$58,725,000	\$8,525,000	\$65,250,000		
Statewide NHS Preservation Program	\$23,375,000	\$5,843,750	\$29,218,750		
Statewide Railroad Grade Crossings	\$8,000,000	\$2,000,000	\$10,000,000		
Statewide Stormwater retrofits	\$8,000,000	\$2,000,000	\$10,000,000		
Statewide ADA Implementation Plan	\$3,200,000	\$800,000	\$4,000,000		
<b>Subtotal Statewide Infrastructure Items:</b>	<b>\$166,460,000</b>	<b>\$31,408,750</b>	<b>\$197,868,750</b>		
<b>Other Statewide Items:</b>					
Award Adjustments, Change Orders, Project Value Changes, Etc.	\$33,400,000	\$8,350,000	\$41,750,000		
Planning	\$18,400,000	\$4,600,000	\$23,000,000		
DBEs, FAPO, Pavement Lab Retrofits, and Misc. Programs	\$800,000	\$200,000	\$1,000,000		
<b>Subtotal Other Statewide Items:</b>	<b>\$52,600,000</b>	<b>\$13,150,000</b>	<b>\$65,750,000</b>		
<b>Regional Major Infrastructure Projects:</b>					
<b>Bridge Program:</b>					
Statewide Bridge Maintenance Program	\$8,000,000	\$2,000,000	\$10,000,000		
Statewide Bridge Repl. / Rehab Program	\$79,340,000	\$19,836,000	\$99,176,000		
Statewide Bridge Inspection Program	\$6,000,000	\$1,260,000	\$6,260,000		
<b>Subtotal Federal Aid Bridge Program:</b>	<b>\$92,340,000</b>	<b>\$23,086,000</b>	<b>\$116,426,000</b>		
<b>Total Regional Targets:</b>					
Minimum Regional CMAQ Component:	\$16,000,000	\$4,000,000	\$20,000,000		
Minimum Regional HSIP Component:	\$9,000,000	\$1,000,000	\$10,000,000		
Maximum Regional Non-CMAQ / HSIP Component:	\$123,260,000	\$30,816,000	\$154,076,000		
<b>Total Regional Target</b>	<b>\$148,260,000</b>	<b>\$35,815,000</b>	<b>\$184,075,000</b>		
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Region	Regional Share (%)	Regional Minimum HSIP Component With State Match	Regional Minimum CMAQ Component With State Match	Total Regional Target With State Match	STP with State Match
Berkshire Region	3.5596	\$355,964	\$711,929	\$6,552,415	\$5,484,521
Boston Region	42.9671	\$4,296,710	\$8,593,421	\$79,091,696	\$66,201,565
Cape Cod	4.5851	\$458,514	\$817,028	\$8,440,099	\$7,064,557
Central Mass	8.6901	\$869,013	\$1,738,026	\$15,996,359	\$13,389,319
Franklin Region	2.5397	\$253,975	\$507,949	\$4,675,037	\$3,913,114
Martha's Vineyard	0.3100	\$30,997	\$81,994	\$570,575	\$477,585
Merrimack Valley	4.4296	\$442,956	\$885,911	\$8,153,707	\$6,824,840
Montachusett	4.4596	\$445,956	\$881,911	\$8,208,924	\$6,871,058
Nantucket	0.2200	\$21,998	\$43,996	\$404,925	\$338,931
Northam Middlesex	3.9096	\$390,961	\$781,922	\$7,196,613	\$6,023,730
Old Colony	4.5595	\$455,954	\$911,909	\$8,392,981	\$7,025,117
Pioneer Valley	10.8099	\$1,080,992	\$2,161,984	\$19,898,358	\$16,655,383
Southeastern Mass	8.9601	\$896,010	\$1,792,021	\$16,493,311	\$13,805,280
Total:	100.00	\$10,000,000	\$20,000,000	\$184,075,000	\$154,075,000

Note 1: Base Obligation Authority includes Estimated Equity Bonus Exempt from Limitation

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**TITLE 23 - TRANSPORTATION FUNDING**  
**TITLE 23 - TRANSPORTATION FUNDING**

**FEDERAL FISCAL YEAR 2016  
FEDERAL REGIONAL TARGETS**  
March 14, 2012

	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>	\$50,000,000		
<b>Total Estimated Obligation Authority Available:</b>	<b>\$600,000,000</b>		
ABP GANS Repayment	(150,000,000)		
<b>Total Non-Earmarked Available Statewide - (Including State Match)</b>	<b>450,000,000</b>	<b>101,455,000</b>	<b>551,455,000</b>
<b>Statewide Infrastructure Items:</b>			
Statewide Infrastructure Program	\$4,800,000	\$1,200,000	\$6,000,000
Statewide HSIP Program	\$4,500,000	\$500,000	\$5,000,000
Statewide Safe Routes to Schools Program	\$5,180,000	\$0	\$5,180,000
Statewide CMAQ	\$18,400,000	\$4,600,000	\$23,000,000
Statewide Transportation Enhancements	\$10,000,000	\$2,500,000	\$12,500,000
Statewide Recreational Trails	\$800,000	\$200,000	\$1,000,000
Statewide ITS	\$10,160,000	\$2,540,000	\$12,700,000
Statewide Design and Right of Way	\$0	\$0	\$0
Statewide Interstate Maintenance Program	\$56,700,000	\$6,300,000	\$63,000,000
Statewide NHS Preservation Program	\$20,400,000	\$5,100,000	\$25,500,000
Statewide Railroad Grade Crossings	\$2,000,000	\$500,000	\$2,500,000
Statewide Stormwater retrofits	\$8,000,000	\$2,000,000	\$10,000,000
Statewide ADA Implementation Plan	\$3,200,000	\$800,000	\$4,000,000
<b>Subtotal Statewide Infrastructure Items:</b>	<b>\$144,140,000</b>	<b>\$26,240,000</b>	<b>\$170,380,000</b>
<b>Other Statewide Items:</b>			
Award Adjustments, Change Orders, Project Value Changes, Etc.	\$33,400,000	\$8,350,000	\$41,750,000
Planning	\$18,400,000	\$4,600,000	\$23,000,000
DBEs, FAPO, Pavement Lab Retrofits, and Misc. Programs	\$800,000	\$200,000	\$1,000,000
<b>Subtotal Other Statewide Items:</b>	<b>\$52,600,000</b>	<b>\$13,160,000</b>	<b>\$65,760,000</b>
<b>Regional Major Infrastructure Projects:</b>	<b>\$32,000,000</b>	<b>\$8,000,000</b>	<b>\$40,000,000</b>
<b>Bridge Program:</b>			
Statewide Bridge Maintenance Program	\$9,000,000	\$2,000,000	\$10,000,000
Statewide Bridge Repl. / Rehab Program	\$66,600,000	\$16,400,000	\$82,000,000
Statewide Bridge Inspection Program	\$5,000,000	\$1,250,000	\$6,250,000
<b>Subtotal Federal Aid Bridge Program:</b>	<b>\$78,600,000</b>	<b>\$19,650,000</b>	<b>\$98,250,000</b>
<b>Total Regional Targets:</b>			
Minimum Regional CMAQ Component:	\$16,000,000	\$4,000,000	\$20,000,000
Minimum Regional HSIP Component:	\$9,000,000	\$1,000,000	\$10,000,000
Maximum Regional Non-CMAQ / HSIP Component:	\$117,660,000	\$29,415,000	\$147,075,000
<b>Total Regional Target</b>	<b>\$142,660,000</b>	<b>\$34,415,000</b>	<b>\$177,075,000</b>

Region	Regional Share (%)	Regional Minimum HSIP Component	Regional Minimum CMAQ Component	Total Regional Target With State Match	STP with State Match	TP : ch
		With State Match	With State Match			
Berkshire Region	3.5696	\$366,964	\$711,929	\$6,303,240	\$5,236,346	95
Boston Region	42.9671	\$4,296,710	\$8,593,421	\$76,083,999	\$63,193,867	65
Cape Cod	4.5851	\$468,514	\$917,028	\$8,119,139	\$6,743,697	45
Central Mass	8.6901	\$869,013	\$1,738,026	\$15,388,049	\$12,781,010	87
Franklin Region	2.5397	\$253,975	\$507,949	\$4,497,255	\$3,735,331	96
Martha's Vineyard	0.3100	\$30,997	\$61,994	\$548,878	\$455,887	22
Merrimack Valley	4.4296	\$442,956	\$886,911	\$7,843,638	\$6,614,771	36
Montachusett	4.4596	\$446,955	\$891,911	\$7,898,755	\$6,558,889	48
Nantucket	0.2200	\$21,998	\$43,996	\$389,626	\$323,533	86
Northern Middlesex	3.9096	\$390,961	\$781,922	\$6,922,940	\$5,760,057	33
Old Colony	4.5595	\$456,954	\$911,909	\$8,073,813	\$6,705,949	87
Pioneer Valley	10.8099	\$1,080,992	\$2,161,984	\$19,141,664	\$15,898,688	17
Southeastern Mass	8.9601	\$896,010	\$1,792,021	\$15,866,104	\$13,178,073	92
<b>Total:</b>	<b>100.00</b>	<b>\$10,000,000</b>	<b>\$20,000,000</b>	<b>\$177,076,000</b>	<b>\$147,076,000</b>	<b>10</b>

Note 1: Base Obligation Authority includes Estimated Equity Bonus Exempt from Limitation

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**APPENDIX B: GREENHOUSE GASS MONITORING AND EVALUATION AND AIR QUALITY DETERMINATION TABLES**

## **Introduction**

This section summarizes the greenhouse gas (GHG) impacts that are anticipated to result from the projects that are included in this FFY 2013 – 2016 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 Governor Deval Patrick 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*. This implementation plan establishes targets for overall, statewide GHG emissions:

- By 2020: 25 percent reduction below statewide 1990 GHG emission levels
- By 2050: 80 percent reduction below statewide 1990 GHG emission levels

## **GreenDOT Policy**

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

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

## **GreenDOT Policy and Metropolitan Planning Organizations**

The Commonwealth's thirteen metropolitan planning organizations (MPOs) are integrally involved in helping to achieve the GreenDOT goals and supporting the GHG reductions mandated under the GWSA. The MPOs are most directly involved in helping to achieve the GHG emissions reductions under the second goal – to promote healthy transportation modes through prioritizing and programming an appropriate balance of roadway, transit, bicycle and pedestrian investments – and assist in the third goal by supporting smart growth development patterns through the creation of a balanced multi-modal transportation system. This will be realized through the transportation goals and policies espoused in the 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.

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 2035 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.

- Projects with Quantified Impacts
  - **RTP Projects** - Major capacity expansion projects (e.g. Green Line Extension, I-95 Whittier Bridge Replacement) 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 Other Improvement**
  - **Quantified Increase in Emissions** – Projects that would be expected to produce a measurable increase in emissions.
  - **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 Assumed Impacts
  - **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 2013 – 2016 TIP

The following tables summarize the calculated quantitative and assumed qualitative impacts of the projects included in the regional FFY 2013 – 2016 TIP.

### 2013 Regional Project Tracking

#### 2013 Pioneer Valley TIP GHG Tracking

MassDOT Project ID ▼	MassDOT Project Description ▼	Funding Source ▼	Total Programmed Funds ▼	GHG Analysis Type ▼	GHG Impact by the Numbers ▼
604442	WESTFIELD- RECONSTRUCTION OF ROUTE 187 (FEEDING HILLS ROAD)	STP	\$ 5,567,581	Qualitative	0
602486	EASTHAMPTON- INTERSECTION IMPROVEMENTS @ POMEROY MEADOW	STP	\$ 2,871,408	Qualitative	0
604825	PLAINFIELD- REHABILITATION OF ROUTE 116	STP	\$ 1,300,000	Qualitative	0
602912	CHICOPEE- CHICOPEE RIVER RIVERWALK MULTI-USE PATH CONSTRUCTI	STP	\$ 277,177	Quantified	-23,397.7
606045	HOLYOKE- SIGNAL & INTERSECTION IMPROVEMENTS AT HOMESTEAD A	HSIP	\$ 1,080,992	Quantified	-248,204.851
606375	NORTHAMPTON- PARK & RIDE CONSTRUCTION AT THE VA MEDICAL CE	CMAQ	\$ 719,521	Quantified	-183.956
602912	CHICOPEE- CHICOPEE RIVER RIVERWALK MULTI-USE PATH CONSTRUCTI	CMAQ	\$ 1,442,463	Quantified	-23,397.7

### 2014 Regional Project Tracking

#### 2014 Pioneer Valley TIP GHG Tracking

MassDOT Project ID ▼	MassDOT Project Description ▼	Funding Source ▼	Total Programmed Funds ▼	GHG Analysis Type ▼	GHG Impact by the Numbers ▼
604433	BELCHERTOWN- RECLAMATION & RELATED WORK ON ROUTE 181	STP	\$ 10,052,757	Qualitative	0
605685	SPRINGFIELD- SIGNAL & INTERSECTION IMPROVEMENTS AT SUMNER AV	STP	\$ 253,888	Quantified	-80,188.273
605685	SPRINGFIELD- SIGNAL & INTERSECTION IMPROVEMENTS AT SUMNER AV	HSIP	\$ 1,080,992	Quantified	-80,188.273
604968	WESTFIELD- COLUMBIA GREENWAY RAIL TRAIL CONSTRUCTION, NORTH	CMAQ	\$ 130,725	Quantified	-2,267.7

### 2015 Regional Project Tracking

#### 2015 Pioneer Valley TIP GHG Tracking

MassDOT Project ID ▼	MassDOT Project Description ▼	Funding Source ▼	Total Programmed Funds ▼	GHG Analysis Type ▼	GHG Impact by the Numbers ▼
604446	WESTFIELD- RECONSTRUCTION OF ROUTE 187 (LITTLE RIVER ROAD) AN	STP	\$ 6,180,142	Qualitative	0
605891	EASTHAMPTON- HOLYOKE- RESURFACING & RELATED WORK ON ROUTE	STP	\$ 3,178,802	Qualitative	0
605815	WESTHAMPTON- RESURFACING & RELATED WORK ON ROUTE 66	STP	\$ 1,675,666	Qualitative	0
604035	HADLEY- SIGNAL & INTERSECTION IMPROVEMENTS AT ROUTE 9 (RUSSE	HSIP	\$ 1,080,992	Quantified	41,710.728
604035	HADLEY- SIGNAL & INTERSECTION IMPROVEMENTS AT ROUTE 9 (RUSSE	CMAQ	\$ 2,321,635	Quantified	41,710.728

## 2016 Regional Project Tracking

### 2016 Pioneer Valley TIP GHG Tracking

MassDOT Project ID ▼	MassDOT Project Description▼	Funding Source ▼	Total Programmed Funds ▼	GHG Analysis Type ▼	GHG Impact by the Numbers▼
606034	CHICOPEE- RESURFACING & RELATED WORK ON MONTGOMERY STREET	STP	\$ 732,200	Qualitative	0
605815	WESTHAMPTON- RESURFACING & RELATED WORK ON ROUTE 66	STP	\$ 1,506,831	Qualitative	0
605213	SPRINGFIELD- WILBRAHAM- RECONSTRUCTION OF BOSTON ROAD (ROUTE 146)	HSIP	\$ 1,080,992	Quantified	0
605213	SPRINGFIELD- WILBRAHAM- RECONSTRUCTION OF BOSTON ROAD (ROUTE 146)	CMAQ	\$ 2,161,984	Quantified	0

### REGIONAL EMISSIONS FOR 2012 - 2015 TIPs and 2012 RTPs DETERMINATION OF AQ CONFORMITY: 7/21/11 (TPSD)

Pollutant and year	Berkshire	Franklin	Pioneer Valley	Off-Model (don't use)	Western Mass. Emissions	Budget (official 2009)	Difference
<b>TABLE 1</b>							
VOC 2010	n/a	n/a	n/a		10.947	n/a	n/a
2016	1.4613	1.0069	4.3623	0.001	6.832	10.73	-3.898
2020	1.2664	0.8876	3.8353	-0.011	5.979	10.73	-4.751
2025	1.1687	0.8204	3.5568	-0.012	5.534	10.73	-5.196
2035	1.1680	0.8606	3.5888	-0.016	5.602	10.73	-5.128
<b>TABLE 2</b>							
NOx 2010	n/a	n/a	n/a		27.736	n/a	n/a
2016	2.3931	1.7615	7.5545	0.042	11.751	27.73	-15.979
2020	1.5348	1.1442	4.8899	0.163	7.732	27.73	-19.998
2025	1.1501	0.8521	3.6575	0.115	5.774	27.73	-21.956
2035	0.9743	0.8902	3.1062	0.047	5.018	27.73	-22.712

ENTER THESE NUMBERS FOR YOUR REGION  
UNDER THE REGIONAL EMISSIONS COLUMN  
OF THE AQ TABLES IN YOUR TIP and RTP

ENTER THESE NUMBERS  
IN THE REST OF THE TABLES

## **APPENDIX C: Transit Funding**

Regional Transit Authority	Project Name	Status	Federal Formula Funds				State Match Sources				Total State Cost	Total Toll Credit	Total Cost
			TIP Year		MPO/RP	Formula Program	Funds (\$)	Total Federal Cost	State Fund	Funds (\$)	Toll Credits		
			A										
PVTA	Buses Rolling Stock	Pending	2012	5307	\$ 3,906,694	\$ 76,800	\$ 3,906,694	RTACAP	\$ 976,673	N/A	\$ -	\$ 976,673	\$ -
PVTA	Environmental Service Compliance Improvements	Pending	2012	5307	\$ 307,200	\$ 307,200	\$ 307,200	RTACAP	\$ 19,200	N/A	\$ -	\$ 19,200	\$ -
PVTA	Facility Rehab	Pending	2012	5307	\$ 230,646	\$ 230,646	\$ 230,646	RTACAP	\$ 76,800	N/A	\$ -	\$ 76,800	\$ -
PVTA	Farebox Service Improvement	Pending	2012	5307	\$ 200,934	\$ 200,934	\$ 200,934	RTACAP	\$ 57,661	N/A	\$ -	\$ 57,661	\$ -
PVTA	IT Infrastructure Service Improvement	Pending	2012	5307	\$ 76,800	\$ 76,800	\$ 76,800	RTACAP	\$ 50,234	N/A	\$ -	\$ 50,234	\$ -
PVTA	Shop Equipment	Pending	2012	5307	\$ 254,064	\$ 254,064	\$ 254,064	RTACAP	\$ 19,200	N/A	\$ -	\$ 19,200	\$ -
PVTA	Transit Enhancements	Pending	2012	5307	\$ 307,200	\$ 307,200	\$ 307,200	RTACAP	\$ 63,516	N/A	\$ -	\$ 63,516	\$ -
<b>PVTA</b>	<b>Vans Rolling Stock</b>	<b>Pending</b>	<b>2012</b>	<b>5307</b>	<b>\$ 307,200</b>	<b>\$ 307,200</b>	<b>\$ 307,200</b>	<b>RTACAP</b>	<b>\$ 76,800</b>	<b>N/A</b>	<b>\$ -</b>	<b>\$ 76,800</b>	<b>\$ -</b>
PVTA	Buses Carryover	90% Complete	2012	5307	\$ 6,425,925	\$ 6,425,925	\$ 6,425,925	N/A	\$ -	TDC	\$ 1,285,185	\$ -	\$ 1,285,185
PVTA	Buses/Mini Buses Carryover	Complete	2012	5307	\$ 2,500,000	\$ 2,500,000	\$ 2,500,000	N/A	\$ -	N/A	\$ -	\$ -	\$ 2,500,000
PVTA	Buses-Hybrid Carryover	90% Complete	2012	5307	\$ 6,200,000	\$ 6,200,000	\$ 6,200,000	N/A	\$ -	TDC	\$ 1,240,000	\$ -	\$ 1,240,000
PVTA	Facility Rehab Carryover	Pending	2012	5307	\$ 100,000	\$ 100,000	\$ 100,000	N/A	\$ -	TDC	\$ 20,000	\$ -	\$ 20,000
PVTA	Facility Rehab Carryover	Pending	2012	5307	\$ 250,000	\$ 250,000	\$ 250,000	RTACAP	\$ 50,000	N/A	\$ -	\$ 50,000	\$ -
PVTA	Facility Rehab Carryover (EEI)	Pending	2012	5307	\$ 100,000	\$ 100,000	\$ 100,000	N/A	\$ -	TDC	\$ 20,000	\$ -	\$ 20,000
PVTA	Farebox Carryover	Pending	2012	5307	\$ 3,064,676	\$ 3,064,676	\$ 3,064,676	N/A	\$ -	N/A	\$ -	\$ -	\$ 3,064,676
PVTA	ITS Carryover	Pending	2012	5307	\$ 60,000	\$ 60,000	\$ 60,000	RTACAP	\$ 15,000	N/A	\$ -	\$ 15,000	\$ -
PVTA	ITS Carryover	Pending	2012	5307	\$ 400,000	\$ 400,000	\$ 400,000	N/A	\$ -	TDC	\$ 80,000	\$ -	\$ 80,000
PVTA	Shelters Carryover	Pending	2012	5307	\$ 200,000	\$ 200,000	\$ 200,000	N/A	\$ -	TDC	\$ 40,000	\$ -	\$ 40,000
PVTA	Shop Equipment Carryover	Pending	2012	5307	\$ 80,000	\$ 80,000	\$ 80,000	N/A	\$ -	TDC	\$ 16,000	\$ -	\$ 16,000
PVTA	Shop Equipment Carryover	Pending	2012	5307	\$ 117,192	\$ 117,192	\$ 117,192	RTACAP	\$ 29,298	N/A	\$ -	\$ 29,298	\$ -
PVTA	Support Vehicle Carryover	Pending	2012	5307	\$ 65,000	\$ 65,000	\$ 65,000	N/A	\$ -	N/A	\$ -	\$ 15,000	\$ -
PVTA	Support Vehicle Carryover	Pending	2012	5307	\$ 78,675	\$ 78,675	\$ 78,675	RTACAP	\$ 13,000	N/A	\$ -	\$ 13,000	\$ -
PVTA	Transit Enhancements Carryover	Pending	2012	5307	\$ 65,000	\$ 65,000	\$ 65,000	N/A	\$ -	TDC	\$ 13,000	\$ -	\$ 13,000
PVTA	Vans Carryover	Pending	2012	5307	\$ 336,918	\$ 336,918	\$ 336,918	RTACAP	\$ 84,230	N/A	\$ -	\$ 84,230	\$ -
PVTA	ITS Customer Information Carryover	Pending	2012	5309	\$ 800,000	\$ 800,000	\$ 800,000	N/A	\$ -	TDC	\$ 160,000	\$ -	\$ 160,000
PVTA	IVR Livability Projects Carryover	Pending	2012	5309	\$ 596,511	\$ 596,511	\$ 596,511	N/A	\$ -	TDC	\$ 149,138	\$ -	\$ 149,138
PVTA	Holyoke Multimodal Center (Carryover)	Pending	2012	5309	\$ 125,000	\$ 125,000	\$ 125,000	N/A	\$ -	N/A	\$ -	\$ -	\$ 125,000
PVTA	Holyoke Multimodal Center (Carryover)	Pending	2012	5309	\$ 85,000	\$ 85,000	\$ 85,000	ITCCAP	\$ 17,000	N/A	\$ -	\$ 17,000	\$ -
PVTA	Westfield Multimodal Center (Carryover)	Pending	2012	5309	\$ 1,998,000	\$ 1,998,000	\$ 1,998,000	ITCCAP	\$ 333,000	N/A	\$ -	\$ 333,000	\$ -
PVTA	Westfield Multimodal Center (Carryover)	Pending	2012	5309	\$ 1,300,000	\$ 1,300,000	\$ 1,300,000	N/A	\$ -	N/A	\$ -	\$ -	\$ 1,300,000
PVTA	Lift Equipped Vans	Pending	2012	5310	\$ 333,720	\$ 333,720	\$ 333,720	MAP	\$ 433,866	N/A	\$ -	\$ 511,459	\$ -
PVTA	Lift Equipped Minibuses	Pending	2012	5310	\$ 78,280	\$ 78,280	\$ 78,280	MAP	\$ 98,936	N/A	\$ -	\$ 116,629	\$ -
PVTA	New Freedom (Livability)	Pending	2012	5317	\$ 232,942	\$ 232,942	\$ 232,942	N/A	\$ -	TDC	\$ 58,236	\$ -	\$ 149,138
					\$ 30,953,177	\$ 30,940,177	\$ 30,940,177		\$ 2,414,414		\$ 3,081,559	\$ 2,611,172	\$ 3,172,461
													\$ 34,009,625

## **APPENDIX D: Project Priority Evaluation Criteria Sample Sheet**

## TRANSPORTATION EVALUATION CRITERIA

### Community Highway-funded Roadway Improvement/Expansion Projects

PROJECT TYPE	TRANSPORTATION CRITERIA				OTHER IMPACT CRITERIA			
	Condition	Mobility	Safety	Cost Effectiveness	Community Effects and Support	Land Use and Economic Development	Environmental Effects	
Roadways	Magnitude of pavement condition improvement	Effect on magnitude and duration of congestion	Effect on crash rate compared to state average	Cost per Unit Change in Condition	Residential effects: right-of-way, noise, aesthetics, cut-through traffic, other	Business effects: right-of-way, access, noise, traffic, parking, freight access other	Air Quality/Climate effects	
	<b>0</b>	<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	
	Magnitude of improvement of other infrastructure elements	Effect on travel time and connectivity/access	Effect on bicycle and pedestrian safety	Cost per lane Mile	Effect on service to minority or low income neighborhoods	Sustainable development effects	Water quality/supply effects; wetlands effects	
	<b>0</b>	<b>0</b>	<b>0</b>	\$	<b>0</b>	<b>0</b>	<b>0</b>	
	Effect on other modes using facility	Effect on transportation security and evacuation routes		Cost per AADT	Other impact/benefits to minority or low income neighborhoods	Consistent with regional land-use and economic development plans	Historic and cultural resource effects	
	<b>0</b>	<b>0</b>		\$	<b>0</b>	<b>0</b>	<b>0</b>	
	Effect on regional and local traffic			Cost per AADT per lane mile	Public, local government, legislative, and regional support	Effect on job creation.	Effect on wildlife habitat and endangered species	
	<b>0</b>			\$	<b>0</b>	<b>0</b>	<b>0</b>	
					Effect on development and redevelopment of housing stock.		Effect on Green House Gas Emissions	
					<b>0</b>	<b>0</b>	<b>0</b>	
	Avg. Score to +3)	(-3 Avg. Score to +3)	(-3 Avg. Score to +3)	(-3 Avg. Score to +3)	Avg. Score to +3)	(-3 Avg. Score to +3)	(-3 Avg. Score to +3)	(-3 Avg. Score to +3)
	<b>0</b>	<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
					Total Score (-18 to +18)			
					<b>0</b>			

## **APPENDIX E: Summary of Operationg and Maintenance Expenditures**

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

### Section I - Non Federal Aid Maintenance Projects - State Bondfunds

4/26/2012

Program Group/Sub Group	SFY 2010 NFA Expenditures	SFY 2011 NFA Expenditures	Estimated SFY 2012 NFA Expenditures
<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	\$0	\$770,280	\$3,415,864
Drawbridge Maintenance	\$393,901	\$422,457	\$261,747
Structure Maintenance	\$24,986,293	\$14,873,667	\$9,571,064
<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	\$24,610	\$1,910	\$30,491
Hwy Reconstr - No Added Capacity	\$176,851	\$730,412	\$0
Hwy Reconstr - Minor Widening	\$40,359	\$0	\$78,122
Hwy Reconstr - Major Widening	\$0	\$0	\$0
<b>04 - Roadway Resurfacing</b>			
Resurfacing	\$2,838,592	\$1,830,419	\$1,266,989
<b>05 - Intersection &amp; Safety</b>			
Impact Attenuators	\$34,913	\$32,510	\$41,116
Safety Improvements	\$0	\$0	\$0
Traffic Signals	\$127,872	\$78,911	\$75,897
<b>06 - Signs &amp; Lighting</b>			
Lighting and Electrical	\$289,319	\$424,840	\$160,463
Sign Installation / Upgrading	\$132,942	\$118,222	\$117,059
Structural Signing	\$0	\$359	\$951
<b>07 - Guardrail</b>			
Guard Rail and Fencing	\$305,368	\$351,864	\$175,113
<b>08 - Maintenance</b>			
Catch Basin Cleaning	\$734,486	\$550,586	\$729,368
Crack Sealing	\$0	\$49,256	\$179,202
Landscape and Roadside Develop	\$0	\$59,787	\$100,688
Mowing and Spraying	\$0	\$14,084	\$16,619
Pavement Marking	\$396,609	\$320,883	\$439,915
Sewer and Water	\$0	\$48,808	\$13,359
Process/Recycle/Tmsprt Soils	\$0	\$0	\$307
Contract Hwy Maint.	\$0	\$518,351	\$776,661
<b>09 - Facilities</b>			
Chemical Storage Sheds	\$0	\$23,505	\$5,221
Vertical Construction	\$367,726	\$305,933	\$177,470
<b>10 - Bikeways (Excluded)</b>	n/a	n/a	n/a
<b>11 - Other</b>			
Miscellaneous / No Prequal	\$178,623	\$140,775	\$180,699
Asbestos Removal	\$0	\$0	\$0
Demolition	\$0	\$0	\$0
Drilling and Boring	\$0	\$11,724	\$1,664
Hazardous Waste Remediation	\$0	\$3,235	\$1,254
Utilities	\$0	\$0	\$0
Change in Project Value	\$0	\$0	\$0
Highway Sweeping	\$0	\$0	\$28,068
Intelligent Transportation Sys	\$0	\$0	\$0
Unknown	\$0	\$30,389	\$0
Underground Tank Removal Replace	\$0	\$0	\$0
<b>Section I Total:</b>	<b>\$31,028,464</b>	<b>\$21,713,168</b>	<b>\$17,845,369</b>

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

<b>12 - Snow and Ice Operations &amp; Materials</b>	\$7,541,516	\$11,536,743	\$4,746,650
<b>13 - District Maintenance</b> ( Mowing, Litter Management, Sight Distance Clearing, Etc. )	\$1,945,782	\$1,919,152	\$1,646,033
<b>Section II Total:</b>	<b>\$9,487,298</b>	<b>\$13,455,895</b>	<b>\$6,392,683</b>

<b>Grand Total NFA:</b>	<b>\$40,515,762</b>	<b>\$35,169,063</b>	<b>\$24,238,051</b>
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Massachusetts Department of Transportation - Highway Division  
 Summary of Operating and Maintenance Expenditures  
 Pioneer Valley Region - Part 2: Federal Aid

### Section I - Federal Aid Maintenance Projects

4/26/2012

Program Group/Sub Group	SFY 2010 Federal Aid Expenditures	SFY 2011 Federal Aid Expenditures	Estimated SFY 2012 Federal Aid Expenditures
<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	\$14,969,506	\$10,360,281	\$8,512,348
Structure Maintenance	\$0	\$0	\$0
<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	\$10,691,566	\$4,446,673	\$6,710,520
Hwy Reconstr - No Added Capacity	\$1,991,119	\$5,118,338	\$7,662,936
Hwy Reconstr - Minor Widening	\$2,701,252	\$1,447,570	\$5,169,398
Hwy Reconstr - Major Widening	\$0	\$0	\$0
<b>04 - Roadway Resurfacing</b>			
Resurfacing	\$3,951,464	\$16,028,348	\$21,002,244
<b>05 - Intersection &amp; Safety</b>			
Impact Attenuators	\$0	\$0	\$0
Safety Improvements	\$16,922	\$6,560	\$0
Traffic Signals	1349406.163	\$1,586,276	\$1,466
<b>06 - Signs &amp; Lighting</b>			
Lighting and Electrical	\$0	\$0	\$1,396,372
Sign Installation / Upgrading	\$12,227	\$0	\$0
Structural Signing	\$0	\$0	\$1,396,372
<b>07 - Guardrail</b>			
Guard Rail and Fencing	\$133,559	\$1,387,528	\$0
<b>08 - Maintenance</b>			
Contract Highway Maintenance	\$0	\$6,458	\$515,980
Landscape and Roadside Develop	\$0	\$911,889	\$0
Pavement Marking	\$0	\$0	\$32,879
Catch Basin Cleaning	\$0	\$0	\$0
<b>09 - Facilities</b>			
Vertical Construction	\$0	\$1,008	\$0
<b>10 - Bikeways (Excluded)</b>	n/a	n/a	
<b>11 - Other</b>			
Intelligent Transportation Sys	\$10,610,947	\$6,816,351	\$939,911
Miscellaneous / No prequal	\$46,321	\$8,219	\$0
Reclamation	\$0	\$0	\$0
Drilling & Boring	\$0	\$1,336	\$0
Unknown	\$0	\$36,767	\$0
Demolition	\$0	\$0	\$0
Utilities	\$0	\$0	\$0
Marine Construction	\$0	\$7,353	\$0
<b>Section I Total</b>	<b>\$46,474,289</b>	<b>\$48,170,955</b>	<b>\$53,340,425</b>

### Section II - Federal Aid Highway Operations

<b>11 - Other</b>			
ITS Operations - I-93 HOV Lane Operation and Towing	\$0	\$0	\$0
ITS Operations - Traffic Operations Center (South Boston)	\$0	\$0	\$0
<b>Section II Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

**Grand Total Federal Aid:**                   **\$46,474,289**                   **\$48,170,955**                   **\$53,340,425**

## **APPENDIX F: Metropolitan Planning Area (MPA) State and Local Consulted Agencies**

*23 CFR 450.316(2)(b) of Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU) states that*

*"In developing metropolitan transportation plans and TIPs, the MPO should consult 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 1 list agencies with transportation interest in the Metropolitan Planning Area (MPA) that were contacted for the purpose of consultation while developing the TIP. Table 2 lists the agencies from table 1 which responded and coordinated meetings were held during TIP development.

**Table 1: Agencies Contacted**

Agency	Agency Location
Westfield River Wild and Scenic Advisory Committee	Haydenville
MassDOT 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 (MHD) 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

These agency 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 2: Agencies Providing Consultation)**

MassDOT Planning	Boston
MassDOT	Boston
MassDOT Highway Division (MHD) District 1	Lenox
MassDOT Highway Division (MHD) District 2	Northampton
FEDERAL HIGHWAY ADMIN	Cambridge
Pioneer Valley Transit Authority (PVTA)	Springfield
FEDERAL TRANSIT ADMIN	Cambridge
Bike/Ped Community (MassBike)	Williamsburg