



Unified Planning Work Program

Fiscal Year 2013

October 1, 2012 to September 30, 2013



Catalyst for Regional Progress

pvpc

Prepared by

The Pioneer Valley Planning Commission
for the Pioneer Valley Metropolitan Planning Organization

Pioneer Valley Unified Planning Work Program

Fiscal Year 2013
October 1, 2012 to September 30, 2013

Final Document
June 2012

Prepared by the
Pioneer Valley Planning Commission

For the Pioneer Valley
Metropolitan Planning Organization

Pioneer Valley MPO Members

Name	Title
Richard A. Davey	Secretary and CEO of the Massachusetts Department of Transportation
Francis DePaola	Administrator of the Massachusetts Department of Transportation Highway Division
Walter Gunn	Chairman of the Pioneer Valley Executive Committee
John Musante	Chairman of the Pioneer Valley Transit Authority Advisory Board
Mayor Domenic Sarno	Mayor of Springfield
Mayor Alexander Morse	Mayor of Holyoke
Mayor Richard Cohen	Mayor of Agawam
Mayor David Narkewicz	Mayor of Northampton
George Archible	Belchertown Board of Selectmen
Marcus Boyle	Hatfield Board of Selectmen
Alternates	
Mayor Michael Bissonnette	Mayor of Chicopee
Mayor Daniel M. Knapik	Mayor of Westfield
David Moskin	Hadley Board of Selectmen
Blake Lamothe	Palmer Town Council
Aimee Burnham	Huntington Board of Selectmen
Ex-Officio	
Pamela Stephenson	Federal Highway Administration
Mary Beth Mello	Federal Transit Administration
William Wagner	Economic Development Council of Western Massachusetts
Mary MacInnes	Administrator of the Pioneer Valley Transit Authority
James Czach	Chairman – Pioneer Valley Joint Transportation Committee

Prepared in cooperation with the Massachusetts Department of Transportation, and the Federal Highway Administration and the Federal Transit Administration - U.S. Department of Transportation. The views and opinions of the Pioneer Valley Planning Commission expressed herein do not necessarily state or reflect those of the U.S. Department of Transportation.

Table of Contents

INTRODUCTION	1
THE EIGHT FACTORS OF SAFETEA-LU	3
PIONEER VALLEY METROPOLITAN PLANNING ORGANIZATION MEMBERS	3
JOINT TRANSPORTATION COMMITTEE (JTC)	4
TRANSPORTATION PLANNING STAFF	6
STAFFING REPORT	6
PREVIOUS TRANSPORTATION STUDIES	7
STUDIES COMPLETED AS PART OF THE FY 2012 UPWP	9
WORK ELEMENT 1 – MANAGEMENT AND CERTIFICATION OF THE 3C PROCESS	11
Task 1.1 Management of the 3-C Process	11
Task 1.2 Unified Planning Work Program	12
Task 1.3 Public Participation Process	12
Task 1.4 Transportation Improvement Plan (TIP) Development	13
Task 1.5 Title VI and Environmental Justice	14
WORK ELEMENT 2 - TECHNICAL SUPPORT & DATA COLLECTION	17
Task 2.1 Traffic Counting	17
Task 2.2 Regional Travel Demand Modeling/Clean Air Planning.....	18
Task 2.3 GIS, Mapping and Graphics	19
Task 2.4 Information Center.....	21
Task 2.5 Regional Congestion Management Process (CMP) - Data Collection.....	23
Task 2.6 Regional Pavement Management System - Data Collection.....	24
WORK ELEMENT 3 - REGIONAL TRANSPORTATION PLANNING	25
Task 3.1 Regional Saturation Flow Rate and Gap Acceptance Study	25
Task 3.2 Transit System Surveys and Route Implementation.....	25
Task 3.3 Interstate Route I-91 Major Corridor Planning Study	26
Task 3.4 Regional Freight Planning	27
Task 3.5 Regional Congestion Management Process-Project Development	28
Task 3.6 Regional Pavement Management System - Project Development	29
Task 3.7 Connecticut River Walk & Bikeway Coordination	30
Task 3.8 Regional Safety and Planning Studies	31
Task 3.9 Intelligent Transportation Systems (ITS) and Regional Evacuation Planning.....	32
Task 3.10 Climate Change Implementation	33
Task 3.11 Green Streets and Infrastructure	34
WORK ELEMENT 4 - ONGOING TRANSPORTATION PLANNING	35
Task 4.1 Regional Transit Planning	35
Task 4.2 Paratransit Planning Assistance	36
Task 4.3 Implementing the Regional Land Use Plan	37
Task 4.4 Regional Bicycle and Pedestrian Planning.....	38
Task 4.5 Local Technical Assistance	40
Task 4.6 Local Pavement Management Program	41
Task 4.7 Scenic Byways Support.....	41
Task 4.8 Merrick/Memorial Neighborhood Plan – Implementation	42
Task 4.9 Pioneer Valley Trails Map.....	43
Task 4.10 Scenic Byways of Western Massachusetts Marketing Campaign	44
Task 4.11 Regional Bicycle Commute Week.....	45
Task 4.12 Route 116 Scenic Byway Corridor Management Plan.....	46
Task 4.13 Massachusetts-Connecticut Sustainable Knowledge Corridor	47
Task 4.14 Route 112 (Hampshire County) and Jacob's Ladder Trail Scenic Byways Trails Linkages Project	48
ESTIMATED COMPLETION SCHEDULE OF PLANNING ACTIVITIES	50
ADDITIONAL PLANNING PROJECTS	51
East/West Passenger Rail Study.....	51
Interstate Route I-91 Exit 15 Study.....	51
Blanche Barlow Acres/Goose Pond Recreational Access Project.....	52
Enhancing the Recreational Experience on the Connecticut River Scenic Byway	53
Connecticut River Byway Corridor Management Plan Update	55
FUNDING PROFILE	57
FUNDING SUMMARY	58
SUMMARY OF COMMENTS ON UPWP	59
MPO ENDORSEMENT	60

INTRODUCTION

The Unified Planning Work Program (UPWP) is a narrative description of the annual technical work program for a continuing, cooperative, and comprehensive (3C) transportation planning process in the Pioneer Valley Region. As the lead planning agency for the Pioneer Valley Metropolitan Planning Organization (MPO), the Pioneer Valley Planning Commission (PVPC) is responsible for developing the UPWP in cooperation with other members of the MPO including the Pioneer Valley Transit Authority and the Massachusetts Department of Transportation (MassDOT).

The UPWP provides an indication of regional long and short-range transportation planning objectives, the manner in which these objectives will be achieved, the budget necessary to sustain the overall planning effort, and the sources of funding for each specific program element. All tasks will be performed by the PVPC in cooperation with appropriate agencies, unless otherwise stated.

The work tasks within this UPWP are reflective of issues and concerns originating from transportation agencies at the federal, state and local levels. As always, the UPWP continues and extends the PVPC's emphasis on "results-oriented" tasks. In addition, several tasks are specifically targeted to implement provisions of several pieces of federal legislation, particularly the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU), the Clean Air Act Amendments of 1990 (CAAA) and the Americans with Disabilities Act (ADA).

The descriptions of the tasks to be accomplished and the budgets for these tasks are based on the best estimate of what can be accomplished within the confines of available resources. If, in the performance of this work program, it becomes apparent that certain tasks cannot be accomplished due to changing or unforeseen circumstances, the UPWP will be adjusted by redefining the scope of the tasks and/or reallocating funds among tasks. Such adjustments will be developed in cooperation with MassDOT, the Federal Highway Administration (FHWA), the Federal Transit Administration (FTA), the Pioneer Valley Transit Authority (PVTA), and other concerned agencies as appropriate.

The time periods, or "program years", for the various funding sources are outlined in the following chart:

Funding Source	Fiscal Period:
FHWA/MassDOT	October 1, 2012 through September 30, 2013
FTA/MassDOT	April 1, 2012 through March 31, 2013
PVTA	July, 2012 through June, 2013
Scenic Byways Program	Various Contract Periods

The Pioneer Valley Metropolitan Planning Organization endorses the Unified Planning Work Program for the Pioneer Valley MPO once it has been developed cooperatively and in accordance with the Public Participation Process established for this region.

TRANSPORTATION PLANNING FUNDING SOURCES

FHWA/MassDOT - MassDOT receives two types of funds from FHWA that are passed through to planning agencies to conduct 3C transportation planning activities. These funds include Metropolitan Planning funds (PL) and Statewide Planning and Research funds (SPR) and are apportioned to states on the basis of population in urbanized areas and relative to the amount of highway construction funds the state receives. MassDOT maintains multi-year contracts with planning agencies to conduct transportation related planning activities within each region. These multi-year contracts utilize the PL and SPR funds received by FHWA.

Within the Pioneer Valley region the predominant source of funding from MassDOT is PL funds. In the past, unexpended funds from contract to contract were reserved in a "PL Balance" account for the region. Currently, funds not used during a program year are deobligated and may not be available for future use. Below is a summary of PVPC's continuing PL funding account.

Total PL Allocations as of October 1, 2012 (FFY 2013)	\$17,120,556
Total PL Expenditures as of March 31, 2012	\$14,924,235
Estimated PL Expenditure for Remainder of FFY 2012 UPWP	\$559,952
Current PL Balance (Estimated)	\$1,636,369
Estimated PL Expenditure in FFY 2013 UPWP	\$891,978
Estimated PL Balance as of September 30, 2012	\$744,391

Source: PVPC

A total of \$891,978 in PL funds has been programmed for the FY2013 Transportation Work Program. Direct Costs are expected to vary among tasks in the UPWP and are subject to change. A total of \$32,250 has been allocated for Direct Costs in FY2013.

FTA/MassDOT/PVTA –Two types of funds are used for transit planning purposes in the Pioneer Valley region; Section 5303 (formerly Section 8 Metropolitan Planning) and Section 5307 funds (formerly Section 9 Capital) of the Federal Transit Act Amendments of 1991. Section 5303 funds are earmarked for use in planning and technical studies related to urban mass transportation. They are filtered down from the Federal Transit Administration through the MassDOT to the regional planning agencies in the Commonwealth. Section 5307 funds can be used for planning as well as other purposes, and are distributed by the FTA on the basis of the Regional Transit Authority (RTA) service area population. The Pioneer Valley Transit Authority, using Section 5307 funds from the FTA, contracts with the PVPC for assistance on a wide range of planning activities. Both funds require a 20% local match, which is provided by the RTA.

The Pioneer Valley Transit Authority, the FTA Section 5307 applicant, has consulted with the Pioneer Valley Planning Commission and concurs that the public involvement process adopted by the MPO for the development of the UPWP satisfies the public hearing requirements that pertain to the development of the Program of Projects included in the 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 as part of the UPWP review is not sufficient. FTA will require additional public involvement prior to grant approval, as presented in the joint FHWA/FTA environmental regulations, 23 CFR-Part 771.

PVPC also receives 10% of the regional allocation of Section 5316 (Job Access and Reverse Commute) and Section 5317 (New Freedom) funds for administration of these two programs. Both programs are a competitive process. Section 5316 funds are used to address the unique transportation challenges faced by welfare recipients and low-income persons seeking to get and keep jobs. Section 5317 funds are used to support new public transportation services and public transportation alternatives beyond those required by the Americans with Disabilities Act (ADA) of 1990. In the past, PVPC has chosen to allocate 100% of these funds to the successful applicants.

Other Funding Sources – Other funding sources available are typically sought to conduct specific planning activities. These funds include highway funds such as Congestion Mitigation Air Quality (CMAQ) funds and Scenic Byway funds. These funds are awarded on a competitive basis and award is not guaranteed.

Many projects completed by the Community Development and Land Use Sections are funded through the award of competitive grants and through private contracts with local communities. These sources include Municipal Incentive Grants (MIGs), Community Development Block Grants, Community Development Action Grants, and Urban Development Action Grants. The PVPC also uses community assessment dollars to supplement the local technical assistance program.

THE EIGHT FACTORS OF SAFETEA-LU

SAFTEA-LU requires all metropolitan planning organizations to incorporate eight factors into their planning process. The Pioneer Valley MPO has taken great strides to incorporate these eight factors into the Unified Planning Work Program. The Eight Planning Factors are:

Factor	Description	UPWP Task
1	Support the economic vitality of the metropolitan areas, especially by enabling global competitiveness, productivity, and efficiency.	Task 1.4 - Transportation Improvement Plan (TIP) development Task 3.3 - Interstate Route I-91 Major Corridor Planning Study
2	Increase the safety of the transportation system for motorized and non-motorized users.	Task 3.8 - Regional Safety and Planning Studies
3	Increase the security of the transportation system for motorized and non-motorized users.	Task 3.9 - Intelligent Transportation Systems (ITS) and Regional Evacuation Planning
4	Increase the accessibility and mobility of people and for freight.	Task 3.4 - Regional Freight Planning Task 4.1 - Regional Transit Planning
5	Protect and enhance the environment, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns.	Task 1.5 - Title VI and Environmental Justice Task 3.10 - Climate Change Implementation Task 3.11 - Green Streets and Infrastructure
6	Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight.	Task 3.2 - Transit System Surveys and Route Implementation Task 3.4 - Regional Freight Planning Task 4.4 Regional Bicycle and Pedestrian Planning
7	Promote efficient system management and operation.	Task 3.5 - Regional Congestion Management Process - Project Development
8	Emphasize the preservation of the existing transportation system.	Task 3.6 - Regional Pavement Management System - Project Development

PIONEER VALLEY METROPOLITAN PLANNING ORGANIZATION MEMBERS

The Pioneer Valley Metropolitan Planning Organization (MPO) implements and oversees the 3C transportation planning process in the Pioneer Valley region. The objective of the **3C** transportation planning process is to assist, support, and provide the capability to maintain an open **comprehensive, cooperative, and continuing** transportation planning and programming process at all levels of government in conformance with applicable federal and state requirements and guidelines. The Pioneer Valley MPO was restructured in August of 2006 to enhance the role of the local communities in the transportation planning process and allow local MPO members to represent subregional districts respective to community size and geographic location. The number of voting members was increased from eight to ten and consists of the following officials or their designee or alternate.

- The Secretary and CEO of the Massachusetts Department of Transportation
- The Administrator of the Massachusetts Department of Transportation Highway Division
- The Chairman of the Pioneer Valley Planning Commission
- The Administrator of the Pioneer Valley Transit Authority
- The Mayors of two of the following three (3) urban core cities:

Chicopee

Holyoke

Springfield

- The Mayor or a Selectman of one of the following four (4) cities and towns:

Agawam

Southwick

Westfield

West Springfield

- The Mayor or a Selectman of one of the following five (5) cities and towns:

Amherst	Easthampton	Hadley
Northampton	South Hadley	

- A Selectman of one of the following fourteen (14) suburban and rural towns:

Belchertown	Brimfield	East Longmeadow
Granby	Hampden	Holland
Longmeadow	Ludlow	Monson
Palmer	Pelham	Wales
Ware	Wilbraham	

- A Selectman of one of the following seventeen (17) suburban and rural towns:

Blandford	Chester	Chesterfield
Cummington	Goshen	Granville
Hatfield	Huntington	Middlefield
Montgomery	Plainfield	Russell
Southampton	Tolland	Westhampton
Williamsburg	Worthington	

In addition, the Joint Transportation Committee (JTC) Chairman, and one representative each from the Federal Highway Administration (FHWA), the Federal Transit Administration (FTA), the Chair of the Infrastructure Committee of the Western Massachusetts Economic Development Council (EDC), the five (5) alternate community MPO representatives, and one representative each from both the Massachusetts Department of Transportation Highway Division District One and District Two Offices shall be considered ex-officio, non-voting members of the Pioneer Valley MPO. Alternate members shall be additional chief elected officials from each of the above-cited categories of communities and he/she shall be eligible to attend, participate and vote at MPO meetings in the event that the primary member cannot attend.

Pioneer Valley MPO Members

Name	Title
Richard A. Davey	Secretary and CEO of the Massachusetts Department of Transportation
Francis DePaola	Administrator of the Massachusetts Department of Transportation Highway Division
Walter Gunn	Chairman of the Pioneer Valley Executive Committee
John Musante	Chairman of the Pioneer Valley Transit Authority Advisory Board
Mayor Domenic Sarno	Mayor of Springfield
Mayor Alexander Morse	Mayor of Holyoke
Mayor Richard Cohen	Mayor of Agawam
Mayor David Narkewicz	Mayor of Northampton
George Archible	Belchertown Board of Selectmen
Marcus Boyle	Hatfield Board of Selectmen
Alternates	
Mayor Michael Bissonnette	Mayor of Chicopee
Mayor Daniel M. Knapik	Mayor of Westfield
David Moskin	Hadley Board of Selectmen
Blake Lamothe	Palmer Town Council
Aimee Burnham	Huntington Board of Selectmen

JOINT TRANSPORTATION COMMITTEE (JTC)

The JTC is a committee comprised of representatives of local, regional and state governments, as well as private groups and individuals involved in providing transportation facilities, services, and/or planning. The JTC was established by the 3C Memorandum of Understanding for the purpose of incorporating citizen participation in the transportation planning process. It is intended that the JTC be representative of both public and private interests in the region and provide a forum to guide transportation planning

activities and transportation improvements in the region. The JTC also serves in an advisory capacity to the MPO as they decide on whether accepting and endorsing a plan or project is appropriate.

Pioneer Valley Joint Transportation Committee Members and Alternates

Community	Member	Alternate
Agawam	Christopher Golba	Michelle Chase
Amherst	Guilford Mooring	Jason Skeels
Barnes Municipal Airport	Brian P. Barnes	
Belchertown	Steven Williams	Gary Brougham/Douglas Albertson
Brimfield	Robert Hanna	
Chester	Rene Senecal	
Chesterfield	Edward Dahill	Matt Smith
Chicopee	Catherine Brown	Steven Frederick
Cummington	Rob Dextraze	
East Longmeadow	David Gromaski	John M. Claffey
Easthampton	James Gracia	Jessica Allen
Goshen	Joe Dunn	
Granby	David Derosiers	Wayne Tack Sr.
Granville	Doug Roberts	Kathryn Martin
Hadley	David Moskin	
Hatfield	Phil Genovese	
Holland	Jim Wettlaufer	Brian Johnson
Holyoke	Matt Sokop	Jeffrey Burkott
Huntington	Charlse Dazelle	
Longmeadow	Paul Santaniello	Yem Lip
Ludlow	Paul Dzubick	Elie Villeno
MassBike	Marvin Ward	
MassDOT District 1	Mark Moore	Peter Frieri
MassDOT District 2	Richard Masse	Laurie Scarbrough
Middlefield	Rodney Savery, Jr.	Alan Vint
Monson	John Morrell	Gretchen Negggers
Montgomery	Curtis Bush, Jr.	
Northampton	Wayne Feiden	Laura Hanson
Palmer	Graig Dolan	Andrew Golas
Pelham	Rick Adamcek	Ed Martin
Peter Pan Bus Lines	Peter Picknelly, Jr.	Robert Schwarz
Pioneer Valley Railroad	Michael Renniecke	
Pioneer Valley Transit Authority	Nicole Rohan	
Plainfield	Merton Taylor Jr.	
Russell	Nancy Mezger	Pandora Hague
South Hadley	Jim Reidy	
Southampton	Edward J. Cauley	
Southwick	Jeff Neece	Richard Grannells
Springfield	Christopher Cignoli	Peter Shumway
Tolland	James Deming	Jason Smith
University of Massachusetts	Al Byam	
Wales	Michael Wasiluk	
Ware	Thom Martens	David Tworek
Western Massachusetts Economic Development Council	Ken Delude	
Westfield	Mark Cressotti	
Westhampton	David Blakesly	Brian Mulvehill
West Springfield	James W. Lyons	James Czach
Wilbraham	Tonya Bosch	
Williamsburg	William Turner	
Worthington	Cork Nugent	

TRANSPORTATION PLANNING STAFF

The Pioneer Valley Planning Commission employs a total of ten full-time transportation planners and at least two part-time transportation interns.

<u>Name</u>	<u>Title</u>
Rana Al Jammal	Senior Transportation Planner - Specialist
David Johnson	Transportation Planner - Specialist
Amir Kouzehkanani	Principal Planner – Manager
Andrew McCaul	Transportation Planner I
Jeffrey McCollough	Senior Transportation Planner II
Khyati Parmar	Senior Transportation Planner II
Joshua Rickman	Transportation Planner II
Dana Roscoe	Principal Planner - Section Head
Gary Roux	Principal Planner - Section Head
Vacant	Senior Transit Planner

STAFFING REPORT

The following PVPC staff members are expected to work on the FY2012 Unified Planning Work Program. The percentage of each staff member's time devoted to Transportation Planning Tasks is approximated under "% Time on Transportation".

Staff	Position	% Time on Transportation
Rana Al Jammal	Senior Transportation Planner - Specialist	100%
Jayne Armington	Housing Specialist	9%
David Elvin	Senior Planner	20%
Anne Capra	Principal Planner	2%
Ray Centeno	Graphics Designer	24%
Chris Curtis	Chief Planner/Section Manager	18%
Christopher Dunphy	Community Development Senior Planner	10%
Patty Gambarini	Senior Planner	5%
Molly Goren-Watts	Analyst/Regional Information Center Manager	71%
Dave Johnson	Transit Planner - Specialist	100%
Amir Kouzehkanani	Principal Transportation Planner/Manager	100%
Andrew Loew	Community Development Planner	10%
James Mazik	Deputy Director for Operation/Community Development Section Manager	15%
Andrew McCaul	Transportation Planner I	100%
Jeff McCollough	Senior Transportation Planner	100%
Josiah Neiderbach	Planner	20%
Khyati Parmar	Senior Transportation Planner II	100%
Catherine Ratte	Principal Planner/Section Manager	16%
Joshua Rickman	Transportation Planner II	100%
Dana Roscoe	Principal Planner – Section Manager	100%
Gary Roux	Principal Planner – Section Manager	100%
Ashley Shea	Communications Manager	19%
Larry Smith	Senior Planner	10%
Todd Zukowski	GIS/Cartographic Section Manager	25%
Transportation Interns (2)	Intern	100%

PREVIOUS TRANSPORTATION STUDIES

Jacob's Ladder Trail Scenic Byway - Landscape Inventory & Assessment
Jacob's Ladder Trail Scenic Byway Study- Executive Summary
Jacob's Ladder Trail Scenic Byway - Highway and Safety Analysis
Jacob's Ladder Trail Scenic Byway- Cultural Resources Inventory
Jacob's Ladder Trail Scenic Byway Study- Land Use Strategies
Touring Jacob's Ladder Trail by Bicycle or Car
Jacob's Ladder Trail Scenic Byway Development Guidebook
Jacob's Ladder Trail Scenic Byway. Improvements Plan: Phase II
Town of Hadley Ma. Americans with Disability Act. Transition Plan.
The Pioneer Valley Plan For Progress
Connecticut River Walk & Bikeway Analysis
Valley Vision: The Regional Land Use Plan
A View of Our Valley: Population
A View Of Our Valley: Transportation
A View of Our Valley: Employment & Income
A View of Our Valley: Market Trends
Employment Projections for the PVPC
Major Employers Inventory for the Pioneer Valley Region
1997 Major Employers Inventory Report
Route 9 Corridor Study, Traffic Improvements
I- 91 Corridor Study: An Impact Analysis of the Cultural Landscape
Southwick Report: A Report on Traffic Issues
1990 Transit Riders Study
Route 10 Corridor Study
Route 9 Corridor Supplemental Report
Route 5 Corridor Study
Rte.9 Corridor Study: Land Use Trends
Rte.9 Corridor Study Addendum
Rte. 5 Corridor Study Supplemental Reports:
Rte. 5 Signal Coordination
Elmwood Area Preliminary Travel Demand Analysis
Route 10/202 Corridor Study
Regional Traffic Count Reports
Origin/Destination Survey of PVRTA Rte. 107
Complimentary Paratransit Plan
Forging a Link Between Land Use & Transportation Planning in the Pioneer Valley Region
Boston Road Corridor Study
The VMT Reduction Workbook
PVRTA Economic Benefit and Impact Study
1997 Pioneer Valley Regional Transportation Plan
Regional Pavement Management Report
State Street Signal Coordination Project
Pioneer Valley Region Congestion Mgmt. System
Traffic and Parking Study Update Report for Easthampton
Connecticut River Scenic Farm Byway Study
Route 20 Corridor Study – Westfield/West Springfield
Town of Wilbraham Pavement Management Study
Town of Belchertown Pavement Management Study
Town of Ludlow Pavement Management Study
PVRTA Green 01 Transit Route Survey
PVRTA Bus Stop Survey
Downtown Amherst Parking Study
Downtown Ware Parking Study
East Longmeadow Rotary Study
There's No Place Like Our Home (Strategy 2000)
Springfield Street Traffic Study – Agawam
Norwottuck Rail Trail Parking Study
Public Participation within the Transportation Planning Process
State of the Pioneer Valley: 2000
State of the Pioneer Valley: 2001
Trends in Building Permits: 1988 to 1997
Data Digest: Commercial and Industrial Capacity in the Pioneer Valley Region
Data Digest: Residential Property in the Pioneer Valley Region: 1993 - 98
Regional Profile: A Statistical Profile of the Hartford-Springfield Interstate Region
Agawam Pavement Management Study
Pioneer Valley Regional Bicycle and Pedestrian Transportation Plan
Bradley Airport Study for Western Massachusetts
2000 Pioneer Valley Regional Transportation Plan
[Outer Belt Transportation Study](#)
[Holyoke Downtown Flow Study](#)
Hampden County House of Correction Parking Study
Linden Street Traffic Study
Northampton Transportation Plan
2003 Regional Transportation Plan Update
West Springfield Parking Study
PVRTA Garage Parking Study
[Longmeadow Route 5 Traffic Study](#)
[Norwottuck Rail Trail User Survey](#)
Executive Order 418 Community Development Plans (various)
[Route 32 – Ware Traffic Study](#)
Springfield – St. James Ave./St. James Blvd. Study
[Merrick/Memorial Neighborhood Plan – Phase I](#)
[Route 9 at North and South Maple Street Safety Study](#)
[Massachusetts Turnpike Exit 6 at I-291 Safety Study](#)
Route 5 at Conz Street Safety Study
Pavement Management Informational Brochure
[Springfield Riverwalk User Survey](#)
Updates to the Regional Congestion Management System
Center Street Traffic Study – Ludlow
Feeding Hills Center Safety Study – Agawam
Florence Road at Burts Pit Road Safety Study – Northampton
[Boston and Maine Railroad Bridge Safety Study – Northampton](#)
West Street at Pantry Road Safety Study – Hatfield
Regional Bike Map Update
Amendment to the 2003 Regional Transportation Plan
2006 Update to Joint Transportation Committee Bylaws
Regional Traffic Count Report Summary: 2001-2005
SABIS School Study – Springfield
[Amostown Road and Morgan Road Traffic Study – West Springfield](#)
Connecticut River Walk and Bikeway Brochure
[Main Street at Jackson Street Safety Study – Holyoke](#)
Route 141 Safety Study – Easthampton and Holyoke
I-291 Exit 6 off ramp at Shawinigan Drive Safety Study – Chicopee

[Downtown Huntington Parking Study](#)

Route 57 intersection study – Southwick
Regional CMS Data Collection Update
Merrick/Memorial Truck and Pedestrian Surveys
Palmer Park and Ride Lot Study
Local Technical Assistance Requests (various)
2007 Regional Transportation Plan Update
Route 141 Safety Study Updates – Easthampton and Holyoke
Valley Vision 2
[Regional Bicycle and Pedestrian Plan Update](#)
[Feeding Hills Center Transportation and Safety Study Final Report](#)
Regional CMP Annual Report Update
[Top 100 Crash Locations in the Pioneer Valley](#)
Route 202 Transportation Study – Belchertown
Florence Road Traffic Study – Northampton
Palmer Redevelopment Authority Track Capacity Improvements
Route 10/202 Transportation Study – Southwick
Route 57 Transportation Study – Southwick
North Pleasant Street at Fearing Street Study – Amherst
PVPC Regional Bridge Map
Palmer Bike Path Study
Route 112 Scenic Byway Study - Draft
Public Participation Plan for the Pioneer Valley MPO Update
STCC Environmental Justice Analysis
Regional Traffic Counts: 2003-2007
State of the Region/People 2008
PVTA Fare Assessment
Route 10 Corridor Study Existing Conditions Analysis– Easthampton
R41 and Nashawannuck Express Passenger Surveys
PVTA Systemwide Passenger Survey
Amherst Parking and Transit Survey
Granby Master Plan – Transportation Component
Adams Road Safety Study – Williamsburg
Feeding Hills Center Crash Data Review – Agawam
Route 9 at North Street and Petticoat Hill Road Study – Williamsburg
Southwick Transit Study
Intermodal Connector Review
Major Employers Report Update
Westfield CBD Traffic Circulation Study
Page Boulevard at Goodwin Street Congestion Study - Springfield
[Berkshire Avenue at Cottage Street Congestion Study - Springfield](#)

Route 5 Traffic Signal Coordination Study – Holyoke
[Granby Road at McKinstry Avenue and Montgomery Street Safety Study – Chicopee](#)
Maple Street at Resnic Boulevard Safety Study – Holyoke
Dwight Street at Worthington Street Safety Study – Springfield
[Congestion Management Process Report \(CMP\)](#)
Jacob's Ladder Trail II – Transportation Section Update
[Chicopee Parking Study](#)
[Telecommuter Survey](#)
[North Main Street at Wilbraham Street, Sykes Street, and Shearer Street Safety Study – Palmer](#)
[Public Participation Plan for the Pioneer Valley MPO Update](#)
[Regional Traffic Count Report: 2005 – 2009](#)
[PVTA Northern/Eastern Region Onboard Bus Rider Survey](#)
[Regional Bottlenecks Report](#)
[Route 116 at Route 33 and Lyman Street Safety Study – South Hadley](#)
[East Street at Winsor Street and Hampden Street Study – Ludlow](#)
[West Avenue at Fuller Street Study – Ludlow](#)
Transportation Chapter – Ludlow Master Plan
Manhan Rail Trail User Survey
[Downtown Ware Signalization Study](#)
Longmeadow Local Pavement Management
West Springfield Local Pavement Management
Greenleaf Community Center Safety Study
[FFY 2012 Unified Planning Work Program](#)
FFY 2011 Transportation Improvement Program Amendments
FFY 2012 – 2015 Transportation Improvement Program
Project Development Process Primer Video
Manhan Rail Trail User Survey Report
[2012 Update to the Regional Transportation Plan](#)
Transit Mystery Rider Reports
[PVTA Non-Rider Survey](#)
Route 10 Build Out Analysis – Easthampton
Springfield Crash Data Analysis
Cottage Street at Robbins Road Safety Study – Springfield, MA
Route 9 (Locust Street) at Hatfield Street Safety Study – Northampton, MA
Valley Vision Update
Pioneer Valley Trail Map
Southampton Local Pavement Management Study

STUDIES COMPLETED AS PART OF THE FY 2012 UPWP

Community and Facility Profiles (various)
Local Technical Assistance Requests (various)
FFY 2013 Unified Planning Work Program
FFY 2012 Transportation Improvement Program Amendments
FFY 2013 – 2016 Transportation Improvement Program
MassHighway Crash Data Updates
CMP Report Update
[Route 9 \(Federal Street\) at Bay Road Safety Study –
Belchertown, MA](#)
[Cottage Street, Robbins Road and Industry Avenue
Intersection: Springfield Safety Study](#)
PVPC/CRCOG MOU
EJ and Title VI Reports to MassDOT
Regional Traffic Count Report: 2007 – 2011
CMAQ and Greenhouse Gas Analysis
Regional Saturation Flow Rate Analysis
Paratransit User Survey
Mystery Rider Reports
Mobility Chapter – Southampton Master Plan
Pleasant Street Congestion Study – Holyoke, MA
Regional Pavement Management Report Update
Top 100 High Crash Intersections Update
Climate Change Toolkit Strategies
Williamsburg Pedestrian Safety Study
I-91 Corridor Planning Study Data Collection
PVTA Schedule Changes and Updates
[Coordinated Public Transit Human Service Transportation Plan](#)
PVPC Green Tips
Valley Vision ToolBox Update
2012 Bike Commute Week
Merrick/Memorial Phase 2 Data Collection

WORK ELEMENT 1 – MANAGEMENT AND CERTIFICATION OF THE 3C PROCESS

This work element encompasses the administration and support of the 3-C transportation process and has been divided into the following tasks for FY 2013.

Task 1.1 Management of the 3-C Process

OBJECTIVE:

To assist, support, and facilitate an open Comprehensive, Cooperative, and Continuing (3C) transportation planning and programming process at all levels of government in conformance with federal and state requirements as described in the 3C Memorandum of Understanding.

PREVIOUS WORK:

1. Management of the 3C process using previous Unified Planning Work Program and prospectus documents, transportation plans, Memorandum of Understanding, and Annual Review Reports.

PROPOSED ACTIVITIES:

1. Provide liaisons between PVPC communities, PVTA, private transportation providers, abutting regions and communities including the State of Connecticut, and other organizations at the local, regional, state, and federal levels on transportation related matters, issues and actions.
2. Work with the Metropolitan Planning Organization (MPO) and its constituent members. Present transportation plans, studies and programs developed through the 3C public participation process for appropriate MPO action.
3. Coordinate required MPO caucuses to solicit recommendations for local MPO members.
4. Provide technical assistance to the Transportation Policy Advisory Group (i.e. Joint Transportation Committee) and subgroups thereof.
5. Participate in the Transportation Managers Group as a means to continually improve the quality and operation of the transportation planning process.
6. Review and comment on federal and state transportation-related plans, programs, regulations and guidelines.
7. Provide transportation planning services in support of the PVPC's comprehensive planning programs and conduct meetings and workshops on transportation issues.
8. Participate in informational transportation programs and courses. Review literature on new transportation planning procedures.

PRODUCTS:

1. Technical memoranda, reports, and workshops as needed.
2. Updates to certification documents as required.
3. MPO meeting minutes.

Source	Budget	Est. Staff Effort
FHWA PL (80%)	\$ 28,000	17 weeks
MassDOT (20% match)	\$ 7,000	4 weeks
FTA S.5303	\$ 15,000	8 weeks
TOTAL	\$50,000	29 weeks

Direct Labor	\$22,727
Indirect Costs	\$27,273

Task 1.2 Unified Planning Work Program

OBJECTIVE:

To prepare and continually maintain a Unified Planning Work Program (UPWP) that describes all anticipated transportation and transportation-related planning activities in the PVPC region. The UPWP will include a summary of the estimated funding source(s) for each task and be completed in conformance with applicable federal, state, and regional guidelines.

PREVIOUS WORK:

1. Pioneer Valley Unified Work Programs 1974 - 2012.

PROPOSED ACTIVITIES:

1. Review and amend relevant portions of the PVPC's UPWP in order to meet new planning requirements and/or circumstances pertinent to the region's transportation sector. Circulate revisions to the appropriate agencies for review and/or endorsement.
2. Develop a new UPWP for the Pioneer Valley MPO covering the next federal fiscal year. The development of a new UPWP will be prepared in cooperation with the Regional Joint Transportation Committee (JTC) and MPO and subject to the adopted Public Participation Plan.
3. Perform outreach to member communities to identify potential transportation planning activities for inclusion in the UPWP.

PRODUCTS:

1. Amendments to the current UPWP as necessary.
2. UPWP for the next program year (FFY 2014)

Source	Budget	Est. Staff Effort
FHWA PL (80%)	\$5,500	2 weeks
MassDOT (20% match)	\$1,375	1 week
FTA S.5303	<u>\$1,250</u>	<u>1 week</u>
TOTAL	\$8,125	4 weeks

Direct Labor	\$3,693
Indirect Costs	\$4,432

Task 1.3 Public Participation Process

OBJECTIVE:

The PVPC will continue to improve its public participation and planning process to ensure the public is engaged in meaningful discussion around relevant transportation issues. Transparency and equity will be a priority as PVPC continues to assess the effectiveness of the Public Participation Process. The Transportation Public Participation Process will provide complete information, timely notice, full access to key decisions and opportunities for early and continuing involvement.

PREVIOUS WORK:

1. Project Development Process Video
2. Pioneer Valley Public Participation Process 2000-2012.
3. Use of social media including Twitter, Facebook, and the PVPC webpage.
4. Memorandum of Understanding for the restructure of the Pioneer Valley Metropolitan Planning Organization.
5. Press releases announcing transportation projects and events
6. Quarterly PVPC newsletter "Regional Reporter"

7. 2011 Federal Certification Review

PROPOSED ACTIVITIES:

1. Review the performance measures for the Public Participation Process and make recommendations as necessary.
2. Explore alternative media outlets for reaching the Limited English Proficient (LEP) population in the region.
3. Network with social service agencies, neighborhood groups and community organizations to enhance existing outreach.
4. Apply the Public Participation Process to transportation programs and tasks to: prepare for public meetings; attend public meetings; perform outreach to increase public participation; inform and educate residents and employers of the region about transportation legislation and PVPC activities.
5. Incorporate “visioning” approaches to improve public participation and outreach efforts.
6. Update the transportation section of the PVPC webpage to include information on transportation studies and expand video content.

PRODUCTS:

1. Meeting minutes.
2. Press releases for transportation projects.
3. Web based information distribution.

Source	Budget	Est. Staff Effort
FHWA PL (80%)	\$12,608	8 weeks
MassDOT (20% match)	\$ 3,152	2 weeks
FTA S.5303	\$ 7,500	4 weeks
TOTAL	\$23,260	14 weeks

Direct Labor	\$10,573
Indirect Costs	\$12,687

Task 1.4 Transportation Improvement Plan (TIP) Development

OBJECTIVE:

The objective of Task 1.4 is to develop, monitor, and update the TIP. A financially constrained four year project listing will be developed with projects identified by year, location, and funding source. During this process staff will work to ensure the TIP is consistent with the goals and objectives of the Regional Transportation Plan for the Pioneer Valley region. PVPC Staff, with guidance from the Pioneer Valley Metropolitan Planning Organization (MPO) will organize an extensive public outreach program to develop the TIP with the most current project information available. GIS based analysis will be utilized to certify the TIP is developed in accordance with State and Federal requirements. PVPC staff will also work with MassDOT and the JTC to review the Transportation Evaluation Criteria (TEC) process and look for areas of improvement.

PREVIOUS WORK:

1. Pioneer Valley Transportation Improvement Programs 1974 – 2013
2. Updates to the Transportation Improvement Program Database
3. Annual Transportation Evaluation Criteria (TEC) Forms Update
4. Annual TEC summary sheet to assist in populating the Draft TIP.
5. TIP Project locations mapped using GPS

PROPOSED ACTIVITIES:

1. Update and improve PVPC’s database of transportation projects. Data will satisfy the requirements of the Metropolitan Planning Rules.
2. Assist Communities with the development of new and existing projects in order to meet MassDOT Design Guide Book requirements.
3. Assist the JTC in utilizing project evaluation criteria to develop a financially constrained project listing for each program year.
4. Maintain the financial element for all years of the TIP. Financial constraint will be maintained based on funding targets provided by MassDOT. Funding sources will also be provided when available.
5. Present air quality conformity findings conducted for the RTP and TIP. Analyses and documentation will satisfy the requirements of the Metropolitan Planning Rules.
6. Present Greenhouse Gas emissions calculations for projects included on the TIP consistent with the Massachusetts Global Warming Solutions Act.
7. Conduct appropriate public participation for the TIP consistent with the public participation plan for the region.
8. Present documents to the MPO for endorsement.
9. Conduct formal amendments and adjustments as necessary.
10. Attend regular meetings with MassDOT Highway division staff from both district offices to exchange information regarding transportation improvement projects.
11. Provide links on the PVPC web site for communities to access current as well as archived TIP documents and project information.
12. Coordinate monthly Joint Transportation Committee (JTC) meetings and sub-committee meetings as required.
13. Collect GPS data for all projects programmed on the TIP for use with GIS based analysis.
14. Update and clarify TEC sub categories in order to assist in the scoring of TIP projects

PRODUCTS:

1. FFY 2014 - 2017 Transportation Improvement Program.
2. TIP Amendments and Adjustments as necessary.
3. Summary report for comments received during public review for amendments made to the TIP.
4. Ranked list of evaluated TIP projects, with corresponding TEC sheets.
5. Map displaying the 4 years of programmed projects.
6. TIP webpage providing all pertinent project information.
7. Updated TEC Forms.

Source	Budget	Est. Staff Effort
FHWA PL (80%)	\$40,000	22 weeks
MassDOT (20% match)	\$10,000	5 weeks
FTA S.5303	\$12,500	7 weeks
TOTAL	\$62,500	34 weeks

Direct Labor	\$28,409
Indirect Costs	\$34,091

Task 1.5 Title VI and Environmental Justice

OBJECTIVE:

To engage and involve representatives of minority, low-income, foreign born, and Limited English Proficient populations to hear their views regarding the performance of the transportation planning process. Tasks

outlined in this section will assist PVPC in identifying Title VI responsibilities and addressing environmental justice and social equity issues as part of its transportation planning process. These tasks address the goals of the RTP to enhance the existing public participation process, better identify protected populations, engage low income and minority populations, and develop measures of effectiveness to evaluate transportation deficiencies, benefits, and burdens. Under this task, staff will continue to improve its public participation and planning process to ensure that it is conducted in accordance with Title VI of the Civil Right Act of 1964, FHWA/FTA guidance on Limited English Proficiency (LEP), and requirements of Executive Order 12898 (Environmental Justice) to give full and fair consideration to all residents in the region.

PREVIOUS WORK:

1. Worked with UMass Amherst redefine and update low income and minority EJ definitions in the Pioneer Valley.
2. Explored options for reaching Spanish speaking residents through “alternative” local newspapers.
3. Worked with PVRTA to organize a regional “try transit” event.
4. Coordinated with the PVRTA, City of Springfield, and social service organizations to sponsor a “learn about transit” event.
5. Expanded public participation efforts related to the RTP and TIP to target key minority population groups in the region.
6. Evaluated the distribution of transportation investments in the Pioneer Valley region.
7. Enhance outreach through the use of social media including Facebook and Twitter.
8. Participated in statewide Title VI networking sessions with the MassDOT Title VI Specialist and other RPAs.
9. Developed bi-lingual survey forms for transit surveys.
10. Coordination with Baystate Health Systems, Springfield Health Coalition, Live Well Springfield, the Rails to Trails Conservancy, and the Springfield Planning Department to create an ongoing Built Environment Task Force to examine transportation barriers in Springfield neighborhoods.
11. Hosted paratransit public meetings to solicit feedback on rider needs and issues.
12. Coordinated EJ assessment and outreach with the Springfield Technical Community College and PVRTA for a parking lot expansion and shuttle bus service.
13. Develop bilingual public notices for the Transportation Improvement Plan and the Regional Transportation Plan.
14. Established a new methodology for transit level of service ranking to assess attainability by transit.

PROPOSED ACTIVITIES:

1. Designate a Title VI coordinator who will act a point of contact should a complaint be filed. Work closely with the MassDOT Title VI Specialist to assess jurisdictional responsibilities for any potential complaints and maintain an open dialog.
2. Provide the MassDOT Title VI Specialist with an annual update of documented complaints, Title VI related activities, and progress in implementing Title VI programs.
3. Conduct analysis of demographic data including GIS layers of minority populations, languages that meet the 5% threshold in their area, Limited English Proficient populations, Environmental Justice, gender, age, and disability against the location of the projects in the

region. This mapping tool (GIS) will be used as a reference during decision making and/or prioritization.

4. Complete a Four Factor analysis and use the results to formulate a Language Access Plan as required under Executive Order 13166.
5. Sign Certification and Assurances as put out by FTA/FHWA. Include Title VI language (as referenced by FHWA) into contracts with third party consultants advising entities of Title VI obligations.
6. Distribute Notice of Beneficiaries to community organizations and relevant contacts as identified in the Public Participation Plan
7. Ensure that Title VI protected classes are considered during the project selection process in preparation of the TIP. This effort will include an amendment to future scoring criterion to include Title VI in addition to Environmental Justice.
8. Enhance training opportunities for staff regarding federal revisions to Title VI, LEP and EJ.
9. Review 2010 census data and to redefine and update low income and minority areas in the Pioneer Valley.
10. Work with MassDOT, Massachusetts RPAs, and local partners to identify best practices to improve LEP and Environmental Justice outreach and planning.
11. Continue to seek out stake holders and meet with regional organizations and groups that work with the Environmental Justice Community to facilitate and coordinate participation in the regional transportation planning process. These efforts may include presentations at regularly scheduled meetings.
12. Continue to incorporate “visioning techniques” in new projects and planning tasks that will better engage low income and minority populations.
13. Develop bilingual surveys for PVTAs and bilingual public notices for the Transportation Improvement Plan and the Unified Planning Work Program to provide increased opportunities for under-served populations to be represented in the public participation process.
14. Continue to assess proposed transportation investments in the Pioneer Valley region to determine whether low-income and minority communities are receiving a fair allocation of available resources.
15. Work in cooperation with the University of Massachusetts Landscape and Regional Planning School to develop a methodology to redefine EJ and LEP populations in the Pioneer Valley based on 2010 Census data.
16. Review Measures of Effectiveness (MOEs) regarding the implementation of Title VI.

PRODUCTS:

1. Annual reporting to MassDOT on EJ, Title VI and LEP.
2. Ongoing coordination of the Springfield Partners for Healthier Communities Built Environment Task Force.
3. Title VI training for staff as appropriate.
4. Updated EJ definitions for the Pioneer Valley.

Source	Budget	Est. Staff Effort
FHWA PL (80%)	\$16000	8 weeks
MassDOT (20% match)	\$ 4000	2 weeks
FTA S.5303	<u>\$ 9,375</u>	<u>5 weeks</u>
TOTAL	\$29,375	15 weeks

Direct Labor	\$13,352
Indirect Costs	\$16,023

WORK ELEMENT 2 - TECHNICAL SUPPORT & DATA COLLECTION

This element outlines specific activities to be conducted in support of transportation planning tasks described in other UPWP elements.

Task 2.1 Traffic Counting

OBJECTIVE:

To provide accurate and efficient traffic data collection services to the MassDOT, the PVPC's 43 member communities, and interested parties.

PREVIOUS WORK:

1. Regional Traffic Counting Program 1985 - 2012.
2. Traffic count library and database at PVPC.
3. Data collection and analysis as part of Highway Performance Monitoring System (HPMS).
4. Regional Traffic Counts Report, 2007 – 2011.

PROPOSED ACTIVITIES:

1. Collect 48 hour Automatic Traffic Recorder (ATR) count data and GPS coordinates to assist in mapping at locations requested by MassDOT.
2. Collect 48 hour and/or week long ATR count data for member communities on an "as requested" basis.
3. Collect HPMS data and perform analysis, as requested by MassDOT.
4. Collect Turning Movement Count (TMC) data as requested by MassDOT and member communities.
5. Update the PVPC traffic count library by supplementing the MassDOT count locations in the region.
6. Submit all ATR count data to the MassDOT and the appropriate community.
7. Collect Weekly ATR count data at the four PVPC permanent stations in order to assist in the development of regional adjustment factors and growth rates.
8. Provide ATR traffic counts and TMCs for other UPWP tasks including the Regional Transportation Model, Local Technical Assistance requests, and management systems.
9. Update and maintain the PVPC traffic count database.
10. Collect bicycle and pedestrian volumes at pre-determined locations.
11. Update the inventory of PVPC's ATR counts for the past recent 5 seasons on the agency webpage.

PRODUCTS:

1. Summary reports of daily traffic count information for the region.
2. PVPC web page Average Daily Traffic counts by community.

Source	Budget	Est. Staff Effort
FHWA PL (80%)	\$30,000	17 weeks
MassDOT (20% match)	\$ 7,500	4 weeks
TOTAL	\$37,500	21 weeks

Direct Labor	\$17,045
Indirect Costs	\$20,455

Task 2.2 Regional Travel Demand Modeling/Clean Air Planning

OBJECTIVE:

To create a baseline travel demand model to estimate future travel demand. To calculate vehicles miles traveled and forecast needs in the regional transportation plan. To provide the regional component to the statewide travel demand model for the air quality conformity determination analysis. To support local and regional sustainability and livability initiatives through analysis of corridors and projects in terms of circulation impacts and Green House Gas emission reductions. To address the transportation sector's role in air pollution and its effects on climate change both on the local and regional levels through modeling travel demand and identifying mitigation strategies.

PREVIOUS WORK:

1. Development of the PVPC regional travel demand model.
2. Air quality conformity determinations for the RTP and TIP.
3. PVPC regional transit model structure.
4. TransCAD network for the PVPC Regional Transportation Model calibration of 1997 base roadway inventory file.
5. Census 2010 Data and geography updates.
6. Support data to Connecticut Department of Transportation (ConnDOT), Capital Region Council of Governments (CRCOG) and other neighboring regions for use in their Transportation Model to assess a proposed New Haven – Springfield passenger rail and ongoing planning efforts.
7. Memorandum on quantitative and qualitative evaluation criteria for CMAQ funded TIP projects.
8. Position paper on the impact of converting the regional model from external stations to external zones.
9. VMT Estimates for 43 communities of the Pioneer Valley region.
10. Preliminary analysis for the Easthampton Master Plan.
11. Traffic flow analysis of the before and during bridge construction in Easthampton.
12. Springfield Flood Evacuation Study.

PROPOSED ACTIVITIES:

1. Complete the development of a new base year for the regional model 2010 using the Census 2010 demographic data. Update the base year network. Calibrate the new 2010 model. Revise projections of future plan years according to new base year model. Create new model macros for current and future years. Estimated to be a 2 year task.
2. Create a geocoded database for the traffic count locations to include then new Average Daily Traffic data at community lines and external stations from in-house traffic counts and surrounding planning agencies for use as inputs in the new travel demand model base year.
3. Review the regional roadway network that is used in the statewide model to identify areas of improvements.
4. Obtain up to date information on non-exempt regional projects for inclusion in the statewide model from the Office of Transportation Planning.
5. Perform air quality conformity determinations for TIP projects to be funded under the Congestion Mitigation and Air Quality (CMAQ)

program and for potential projects applying for funding under the Transportation Demand Management (TDM) program.

6. Perform Greenhouse Gas emissions calculations for projects included on the TIP consistent with the Massachusetts Global Warming Solutions Act.
7. Continue providing supporting data from the regional travel model to communities and MassDOT upon request.
8. Utilize the regional travel model to assist in the development of future build out estimates as part of ongoing transportation planning activities.
9. Estimate effects of transportation improvement projects on communities by activating local roadway links within the regional model.
10. Continue to analyze activity center destinations of transit riders along select bus routes.
11. Model evacuation planning scenarios when requested by communities using the regional transportation model to study estimated diversion routes during an incident.
12. Incorporate intermodal analysis into modeling the Interstate I-91 elevated highway project in Springfield.

PRODUCTS:

1. Update of the regional travel demand model base year 2010 and forecast years 2016, 2020, 2025, 2035.
2. Air quality conformity and greenhouse gas analysis in support of the RTP and the TIP.
3. Comments on proposed federal and state regulations.
4. Maps for graphical representation of existing model structure.
5. Transportation build out and emergency evacuation planning analysis as appropriate.

Source	Budget	Est. Staff Effort
FHWA PL (80%)	\$48,000	27 weeks
MassDOT (20% match)	\$12,000	7 weeks
FTA S. 5303	\$ 4,375	2 weeks
TOTAL	\$64,375	36 weeks

Direct Labor	\$29,261
Indirect Costs	\$35,114

Task 2.3 GIS, Mapping and Graphics

OBJECTIVE:

Develop, maintain, archive, and distribute digital geo-referenced data about the Pioneer Valley Region and its transportation systems. The GIS/Graphics Center looks to increase access to an extensive regional database; improve spatial analytical capabilities; and serve as a catalyst for cooperative development, exchange and distribution of map data. A strong emphasis will be placed on the development of high quality products which enhance decision-makers' understanding of complex issues and facilitate the implementation of local and regional goals.

PREVIOUS WORK:

1. Created and maintained GIS regional bus system database; including updates to the transit system map, preparation of individual maps and schedules, regional transit service analysis, and support to PVTA web page.
2. Acquired, revised and integrated relevant GIS spatial data/map coverages generated at local, state and federal levels into Pioneer

Valley regional projects, including: road centerlines, road names, updated municipal zoning, land use, parcel, and critical public infrastructure data.

3. Developed, enhanced, and maintained several spatial data layers to support transportation-related projects, including: functional classification of roads, traffic count locations, congestion management, parking facilities, signalization, pavement conditions, regional bicycle and pedestrian infrastructure, ADA transit service area, areas of regional growth, etc.
4. Provided GIS mapping and graphic support to numerous transportation and transit-related projects and studies.
5. Continued to support and participate in the statewide GIS Advisory Committee, Western Massachusetts GIS User group, and direct assistance to Pioneer Valley communities.

PROPOSED ACTIVITIES:

1. Continue to develop and implement management strategies, which address staff training, establish agency data standards and data collection protocol, and conformance to map design that can be applied to all GIS products.
2. Pursue the use of GIS and other automated mapping and spatial analytical technologies for transportation applications. Enhance existing digital base map data and develop geographically referenced data layers for use in transit service analysis, regional land use & smart growth planning activities, emergency response, critical infrastructure assessment, public works and pavement management, and transportation system planning.
3. Integrate information generated to support transit and transportation management systems into the GIS. Create maps and graphics to promote understanding of related issues.
4. Continue to create and update digital municipal spatial data on a phased basis using aerial photography, digital orthophoto quads, municipal sources, field survey, and liaison with officials.
5. Work with state and federal agencies to review, correct and enhance regional GIS map coverages and related data to meet state and federal standards and support development to Homeland Security and pre-disaster mitigation spatial data for western Massachusetts.
6. Work with PVPC staff to assimilate state and federal data and data structure (i.e., road centerline/road inventory) into the Commission's database and analytic modeling programs.
7. Upgrade the GIS system and provide enhancements to the PVPC office network and web capacity to improve access and use of GIS data/analysis and map products.
8. Strengthen role as regional GIS Service Center, designed to promote development of statewide GIS and related technologies; improve public access to digital data; provide technical support to municipalities interested in developing and employing GIS; and become a regional repository for the Massachusetts Data Library.
9. Promote the agency and its efforts to resolve regional issues through published materials, thematic maps, and distribution of information over the worldwide web, and educational multi-media presentations.

PRODUCTS:

1. Development of new and enhanced digital data layers.
2. Update to municipal planimetric base maps as necessary.
3. Transportation systems facility and planning maps.
4. Expand, update and maintain the GIS website.

5. Design and publish a series of maps and reports focusing on transportation planning issues, regional smart growth strategies, recently released socio-economic data, and PVPC conducted field surveys.
6. Development of regional spatial data to support federal and state initiatives (i.e., Massachusetts spatial data infrastructure, preparations to 2010 U.S. Census, homeland security and disaster planning).
7. Update centerline/road inventory and functionally classified roads, as necessary.

Source	Budget	Est. Staff Effort
FHWA PL (80%)	\$37,413	21 weeks
MassDOT (20% match)	\$ 9,353	5 weeks
FTA S. 5303	\$ 8,750	5 weeks
PVTA S. 5307	\$15,000	8 weeks
TOTAL	\$70,516	39 weeks

Direct Labor	\$32,053
Indirect Costs	\$38,463

Task 2.4 Information Center

OBJECTIVE:

Serve as a resource to regional transportation, economic development, land use, and municipal planning workers and officials for regional data and information. To continuously maintain this resource and its associated electronic infrastructure as well as gather, develop, and analyze data about the Pioneer Valley region. A focus will be placed on analyzing and summarizing data from multiple sources to produce value-added information in support of transportation planning activities. The Information Center produces high quality written and graphic information and research products that are easily accessible and understandable to the public. A consultant is expected to be hired through another funding source to create database upgrades in the coming year which will provide new and simplified ways to deliver data and information to a wide and diverse audience in a timely manner.

PREVIOUS WORK:

1. Updated population, household, and employment estimates and projections which comply with the new 2010 Census.
2. Published data monograph summarizing the major shifts in population in the Pioneer Valley region based on 2010 Census data.
3. Developed a municipal indicators database for every city and town in the Pioneer Valley and updated through January 2012 data.
4. Provided data support for employer analysis portion of TOD planning.
5. Continued participation in the development of updated definitions of Environmental Justice populations and definitions for the Pioneer Valley Region.
6. State of the Region/People – 2011 Update.
7. Analyzed labor market for proposed regional passenger rail project.
8. Updated Community Profiles for all 43 municipalities.
9. Updated Facility Profiles for transportation facilities.
10. Conducted detailed fiscal and ridership analyses for the PVTA.
11. 2008 Major Employers Inventory for the Pioneer Valley Region.
12. Regional economic development strategy that for a green regional economy and expanded regional transportation system.

13. Data Digests on 2010 decennial census data highlighting geographic shifts in population and housing between 2000-2010.
14. Access to Food Report.

PROPOSED ACTIVITIES:

1. Analyze data relevant to contemporary transportation, economic development, land use, and municipal planning issues. Perform detailed analysis of the most recent Decennial Census, American Community Survey (ACS) and Economic Census. This is an ongoing, annual task.
2. Disseminate information to decision-makers and other data users. The primary focus of this activity will be the ongoing dissemination of American Community Survey data, Economic Census data, Census population estimates, municipal finance data, current economic indicators, and labor market information that will assist in positive transportation planning and decision making. This year, the major focus will continue to include improving the simplicity of access to this information through the website as well as improving the timeliness of the information available. This is an ongoing, annual task.
3. Provide research and socio-economic services to municipalities and other external stakeholders as requested. This is an ongoing, annual task.
4. Track regional socio-economic and transportation related indicators, for incorporation into the annual update of the PVPC State of the Region data reported through the PVPC website. This is an ongoing, annual task.
5. Continue to support the development of new Environmental Justice definitions for the Pioneer Valley region and assist with integration of new definitions and data into ongoing regional transportation planning efforts.
6. Maintain and update the Information Center's information system that integrates demographic, economic, and municipal data. This is an ongoing, annual task.
7. Assist the Plan for Progress Trustees with transportation related initiatives to encourage regional economic development. This is an ongoing, annual task.
8. Continue to support efforts to update the regional transportation model with the latest population and employment data and estimates for future analysis years. This is an ongoing, annual task.
9. Update and analyze region wide data indicators on the State of the Pioneer Valley website to measure progress and needs of the region in the areas of transportation, economic development, and health. This is an ongoing, annual task.
10. Continue working on future planning by staying current with potential data options and structure of future regional transportation indicators.

PRODUCTS:

1. Analytical and research reports on region's traffic, demographic, housing, and economic trends.
2. Maintain information systems of socio-economic and disparate data.
3. Update data on the Information Center website and research methods for making data more easily usable and accessible to decision makers and the public.
4. Update region wide data indicators on State of the Pioneer Valley website. This year's update will include an analysis of five years of trend data.

- Continue to update format and structure of data dissemination through PVPC website to allow for more clear, easy, and up to date access to data by all relevant parties including government agencies, planners, businesses, non-profit organizations, and the general public.

Source	Budget	Est. Staff Effort
FHWA PL (80%)	\$37,884	19 weeks
MassDOT (20% match)	\$ 9,471	4 weeks
FTA S. 5303	\$ 1,250	1 week
TOTAL	\$48,605	24 weeks

Direct Labor	\$22,093
Indirect Costs	\$26,512

Task 2.5 Regional Congestion Management Process (CMP) - Data Collection

OBJECTIVE:

PVPC staff will continue to collect and analyze data for use in the CMP. PVPC staff will look at ways to improve performance measures used as the basis for the CMP in order to assist in the analysis of potential congested corridors. The data collection cycle will restart this year. Data will be collected for year 1 of 4. PVPC staff will collect and manage the data in order to identify areas of congestion and monitor the effectiveness of the region's operational management strategies.

PREVIOUS WORK:

- Analysis of data to support Top Regional Bottleneck Report
- Development of the PVPC CMP database.
- Travel time data runs to verify congested areas and document the effectiveness of recently completed transportation improvement projects.
- Regional Park and Ride Lot data collection.
- Analysis of PVTA user surveys to identify the number of daily riders per CMP corridor.
- Analysis of number of crashes per mile for each CMP corridor.
- Analysis of deficient bridges per CMP corridor.

PROPOSED ACTIVITIES:

- Collect data for CMP problem verification, studies, regional model calibration, and transportation monitoring.
- Collect transit travel time, delay, percentage of riders making transfers, and other appropriate performance measure data to assist in the identification of congested corridors.
- Collect data at existing park and ride facilities in the region.
- Update Regional Travel Time Contours.
- Identify data sharing opportunities with the Regional Transportation Information Center (RTIC).
- Review performance measures and identify data sources to include in the CMP

PRODUCTS:

- Updated Pioneer Valley CMP Database.
- Updated regional performance measures.
- Update CMP Corridors based on data.

Source	Budget	Est. Staff Effort
FHWA PL (80%)	\$11,000	6 weeks

MassDOT (20% match)	\$ 2,750	2 weeks
TOTAL	\$13,750	8 weeks

Direct Labor	\$6,250
Indirect Costs	\$7,500

Task 2.6 Regional Pavement Management System - Data Collection

OBJECTIVE:

To continue to maintain an updated pavement distress database for the Pioneer Valley Regional Pavement Management System (PMS) on all federal aid roadways. This is an ongoing task.

PREVIOUS WORK:

1. Development of the PVPC regional PMS database.
2. Collection of roadway pavement distress data and roadway condition information for all federal aid eligible roadways in the PVPC region.
3. Development of a Roadway Overall Condition Index (OCI) to assist in the evaluation of proposed transportation improvement projects.

PROPOSED ACTIVITIES:

1. Collect roadway pavement distress data including but not limited to, rutting, cracking, distortion, and conditions that adversely impact surface friction such as asphalt bleeding and polished aggregate.
2. Collect and verify additional roadway information such as posted speed, shoulder width, functional class, curb reveal, area zoning, and special route designations.
3. Collect roadway pavement distress and condition information for proposed transportation improvement projects in the region to assist in the regional project evaluation process.
4. Continue to work with Massachusetts RPAs in the Pavement Management Users Group (PMUG).
5. Work to enhance the agency's Sidewalk Management System software. Continue to collect and analyze existing sidewalk surface condition information for local communities.
6. Continue to maintain and update the MassDOT Roadway Inventory database for the Pioneer Valley Region.
7. Perform quality control checks of pavement inventory data.

PRODUCTS:

1. Pioneer Valley regional PMS Database.
2. Regional OCI Maps.
3. Existing pavement condition reports by community.
4. Existing Overall Condition Index Maps by community.

Source	Budget	Est. Staff Effort
FHWA PL (80%)	\$25,000	13 weeks
MassDOT (20% match)	\$ 6,250	4 weeks
TOTAL	\$31,250	17 weeks

Direct Labor	\$14,205
Indirect Costs	\$17,045

WORK ELEMENT 3 - REGIONAL TRANSPORTATION PLANNING

This work element provides transportation planning that directly supports the development of projects included in the Regional Transportation Plan (RTP) or the development of RTPs.

Task 3.1 Regional Saturation Flow Rate and Gap Acceptance Study

OBJECTIVE:

Continue collecting data for the saturation flow rate study to help determine the base saturation flow rate of the region. Advance work on a gap acceptance study to determine values specific to the Pioneer Valley region. This is year 2 of an anticipated 2 year task.

PREVIOUS WORK:

1. Saturation Flow Rate Study Report I

PROPOSED ACTIVITIES:

1. Research gap acceptance study method and criteria.
2. Determine candidate locations for a regional gap acceptance study.
3. Continue working in cooperation with the UMass Transportation Department faculty and students in establishing accurate threshold values for saturation flow rates and gap acceptance for the region.
4. Perform the necessary data collection for use in the study.
5. Calculate regional saturation flow rate and gap acceptance values and compare to the values established in the 2010 Highway Capacity Manual.

PRODUCTS:

1. Regional Saturation Flow Rate Study Report II
2. Gap Acceptance Study Report

Source	Budget	Est. Staff Effort
FHWA PL (80%)	\$ 14,400	7 weeks
MassDOT (20% match)	\$ 3,600	3 weeks
TOTAL	\$ 18,000	10 weeks

Direct Labor	\$ 8,182
Indirect Costs	\$ 9,818

Task 3.2 Transit System Surveys and Route Implementation

OBJECTIVE:

To conduct surveys of existing and potential transit customers and produce reports with supporting demographic data, market information, operations data, analysis and recommendations.

PREVIOUS WORK:

1. Paratransit users survey.
2. Regional non-transit user telephone and parking garage survey, report and recommendations.
3. Mystery Rider fixed route field observations (reports submitted quarterly).
4. Mystery Rider paratransit van rider field observations (reports submitted quarterly).
5. On time performance field monitoring (reports submitted quarterly).
6. Route-specific customer surveys.

7. Transit customer surveys at public events.

PROPOSED ACTIVITIES:

1. Onboard bus customer satisfaction survey for PVRTA southern service area.
2. Route-specific onboard surveys.
3. Collection and analysis of relevant customer and regional demographic information.
4. Mystery Rider fixed route observations.
5. Mystery Rider paratransit observations.
6. On time performance field observations.

PRODUCTS:

1. Southern service area onboard customer satisfaction survey, report and recommendations.
2. Mystery Rider fixed route observations (reports quarterly).
3. Mystery Rider paratransit observations (reports quarterly).
4. On time performance reports (reports quarterly).
5. Other individual route survey results, technical analysis and recommendations as requested.

Source	Budget	Est. Staff Effort
FTA S. 5303	\$ 62,500	35 weeks
PVRTA S. 5307	\$ 81,250	45 weeks
TOTAL	\$143,750	80 weeks

Direct Labor	\$65,341
Indirect Costs	\$78,409

Task 3.3 Interstate Route I-91 Major Corridor Planning Study

OBJECTIVE:

The 2011 Update to the Regional Transportation Plan for the Pioneer Metropolitan Planning Organization (RTP) recommends a study be advanced for the South End Bridge and I-91 corridor from Exit 1 (Route 5 South) through Exit 5 (Broad Street). This section of I-91 currently exhibits numerous short weaving areas, non-standard geometrical features, restrictive sight distances, heavy traffic volumes, and high travel speeds all of which have resulted in congestion and safety problems.

The PVPC will work in cooperation with the MassDOT Office of Transportation Planning and District 2 of the Highway Division to collect the necessary data to analyze existing traffic operations and develop a series of recommendations to reduce congestion and increase safety along the I-91 corridor from the Connecticut State line to Route 20. This study will follow the traditional 5 step planning process. This is year 2 of an anticipated 2 year task.

PREVIOUS WORK

1. Conceptual Design Study for I-91 (July 1998)
2. Connecticut River Crossing Study
3. Merrick/Memorial Neighborhood Study
4. I-91 Corridor Study data collection.

PROPOSED ACTIVITIES:

1. Review existing information from previous studies, such as the July 1998 Conceptual Design Study for the I-91 corridor. Summarize

information on both recently completed and proposed improvement projects for the I-91 corridor.

2. Develop a public participation process in cooperation with MassDOT to obtain feedback and guidance from project stakeholders at key points in the study process.
3. Evaluate traffic operations through the collection of new traffic count data, the analysis of crash data, and development of an online origin/destination travel survey.
4. Perform analysis and summarize the results of the existing conditions along the corridor.
5. Review land use and development opportunities in the study area.
6. Explore opportunities to enhance transit, bicycle and pedestrian opportunities in the study area.
7. Evaluate how to best incorporate the corridor's ITS devices (Variable Message Signs and Closed Circuit Television Cameras) into traffic operations to address the study goal of reducing congestion.
8. Develop a series of multimodal improvement alternatives that include key recommendations from previous studies. Develop graphics and conceptual renderings of each alternative as appropriate.
9. Evaluate each improvement alternative using the most appropriate methodology.

PRODUCTS:

1. Assessment of July 1998 I-91 Study.
2. Existing conditions analysis
3. Origin/Destination Survey results.
4. Alternatives analysis of options for the I-91 corridor.
5. Draft and Final Reports.

Source	Budget	Est. Staff Effort
FHWA PL (80%)	\$56,000	28 weeks
MassDOT (20% match)	\$14,000	7 weeks
TOTAL	\$70,000	35 weeks

Direct Labor	\$31,818
Indirect Costs	\$38,182

Task 3.4 Regional Freight Planning

OBJECTIVE:

Work with appropriate public and private partners including CSX, Pan Am and Pioneer Valley Railroad to develop an effective, analytic, and institutional approach to freight planning. Improvements to the system performance increase the opportunities to move freight and interregional passengers more efficiently and effectively. Freight modes covered under this task include rail, air (when applicable), water (when applicable) and pipelines.

PREVIOUS WORK

1. Merrick Memorial Neighborhood Study Freight Analysis.
2. Ware E.O. 418 Transportation Component – Rail Freight Analysis
3. Palmer Redevelopment Authority Track Capacity Improvements.

PROPOSED ACTIVITIES:

1. Coordinate and cooperate with affected constituencies, both decision makers and stakeholders, from the public and private sectors to improve conditions for movement of freight in and out of the region. Ongoing task.

2. Work with MassDOT and Pan Am officials to assure that passenger rail service on the Conn River line will not adversely impact freight rail traffic.
3. Continue working with MassDOT, West Springfield officials and CSX representatives on the redevelopment of the CSX yard with proposed access via the Union Street Bridge and a new truck access road.
4. Participate in FHWA “Talking Freight” web conferences, and other related workshops and conferences concerning freight movement. As needed.
5. Technical support to local communities to advance improvements to existing railway infrastructure.
6. Work with MassDOT to identify any adverse impacts to freight movement resulting from the proposed Inland Route for passenger rail service.
7. Continue to work with the Capital Region Council of Governments (CRCOG) to address regional freight issues and improve the movement of goods between the Hartford and Springfield core cities.

PRODUCTS:

1. Technical reports, memoranda, surveys, computerized databases, GIS and other map products, meetings, workshops, forums, grant applications, project proposals, etc. which are produced in conjunction with the execution of this work task.

Source	Budget	Est. Staff Effort
FHWA PL (80%)	\$12,000	7 weeks
MassDOT (20% match)	\$ 3,000	2 weeks
TOTAL	\$15,000	9 weeks

Direct Labor	\$6,818
Indirect Costs	\$8,182

Task 3.5 Regional Congestion Management Process-Project Development

OBJECTIVE:

Under this task PVPC staff will work to implement both real-time and historic data into the regional Congestion Management Process. This data will be used to identify congestion trends across all modes of transportation. The goal of the CMP is too enhance the efficiency and safety of the regional transportation network in the Pioneer Valley in compliance with the Federal Highway Administration’s congestion management process guidelines. The CMP will further promote effective congestion management strategies for the region that advocate multimodal transportation use and adopt the principles of livability and sustainability to reduce congestion and green house gas emissions.

PREVIOUS WORK:

1. Page Boulevard at Goodwin Street Congestion Study – Springfield
2. Downtown Signal Coordination Study – Ware
3. Berkshire Avenue and Cottage Street Congestion Study
4. Ludlow Master Plan Transportation Component
5. 2010 CMP Report
6. Regional Bottlenecks Report
7. Holyoke Congestion Study Report

PROPOSED ACTIVITIES:

1. Work with the City of Northampton to develop a congestion study to improve traffic flow at a local intersection.
2. Work on updating the regional CMP performance measures according to the FHWA guidelines.
3. Coordinate data with the Regional Transportation Information Center (RTIC) to initiate a mutual information exchange and data sharing policy.
4. Cooperate with MassDOT to utilize the latest ITS data collected along I-91 corridor to update the regional CMP database.
5. Continue to coordinate with PVRTA the analysis of information from the new Automated Vehicle Location (AVL) system. Develop a methodology to collect and utilize this data to further integrate transit into the CMP.
6. Advance new strategies to encourage public participation in the CMP process.
7. Update CMP corridor rankings using new data
8. Update CMP Bottleneck report based on new CMP corridor rankings

PRODUCTS:

1. Northampton Congestion Study.
2. CMP Corridor ranking update.
3. CMP Report Update.
4. CMP Bottleneck update.

Source	Budget	Est. Staff Effort
FHWA PL (80%)	\$72,000	36 weeks
MassDOT (20% match)	\$18,000	9 weeks
FTA S. 5303	\$10,000	5 weeks
TOTAL	\$100,000	50 weeks

Direct Labor	\$45,455
Indirect Costs	\$54,545

Task 3.6 Regional Pavement Management System - Project Development

OBJECTIVE:

To maintain a regional Pavement Management System on all federal aid eligible roadways, establish the cost of maintaining federally eligible roadways, and prioritize regional pavement improvement projects. This is an ongoing task.

PREVIOUS WORK:

1. Regional PMS report for the Pioneer Valley Region.
2. Regional roadway improvement backlog.
3. PMS roadway condition reports for individual communities in the Pioneer Valley region.
4. Community roadway improvement project backlog.

PROPOSED ACTIVITIES:

1. Analysis of newly collected pavement distress data for the region's federal-aid eligible roadways in order to calculate the Overall Condition Index (OCI) ratings and benefit/cost ratio listings.
2. Assist Massachusetts Regional Planning Agencies in the development of a regional pavement management program.
3. Analysis of sidewalk existing segment conditions in selected communities.

4. Prioritize pavement projects included as part of the Pioneer Valley TIP.
5. Provide member communities with pavement distress data analysis as available.
6. Conduct training sessions for interested local highway department personnel on the pavement management process and educate them in identification of pavement distresses and data recording techniques as well as the newly adopted pavement management software.

PRODUCTS:

1. Pavement OCI maps on each community's surveyed federal aid eligible roadways.
2. Sidewalk condition work maps.
3. Regional OCI maps.
4. Regional PMS activity report including the region's backlog of roadway repairs.

Source	Budget	Est. Staff Effort
FHWA PL (80%)	\$30,000	16 weeks
MassDOT (20% match)	\$ 7,500	4 weeks
TOTAL	\$37,500	20 weeks

Direct Labor	\$17,045
Indirect Costs	\$20,455

Task 3.7 Connecticut River Walk & Bikeway Coordination

OBJECTIVE:

The Connecticut River Walk and Bikeway is a regional pedestrian and bicycle network which will serve the communities of Agawam, Chicopee, Holyoke, Springfield and West Springfield. PVPC has assisted each of these communities to establish advisory committees to oversee planning, design, construction and management of this project. These groups include the Chicopee Bikeways Advisory Committee, the Holyoke Canalwalk Committee and the Agawam-West Springfield Bikeways Advisory Committee.

The objective of this ongoing task is to coordinate the completion of engineering and construction of all five remaining segments of the Connecticut Riverwalk network, and to provide planning services and technical assistance to each of the community bikeway advisory committees involved in the River. It is anticipated this work will continue over approximately the next two years.

PREVIOUS WORK:

1. Completed planning, oversaw engineering and design phases, and assisted in construction phase for the Connecticut River Walk segments in Springfield and Agawam, which have now been constructed and opened for public use. Construction for the Holyoke Canalwalk is underway.
2. Completed engineering design plans for the West Springfield Riverwalk and Agawam Bikeway Loop.
3. Continued to coordinate design/engineering work for Chicopee Riverwalk, Connecticut Riverwalk in Chicopee.
4. Established citizen advisory committees and coordinated meetings for each of the above projects.
5. Assisted Chicopee, West Springfield, Agawam and Holyoke in advancing design plans for Riverwalk projects.

PROPOSED ACTIVITIES:

1. Coordinate meetings of the Regional Connecticut Riverwalk Advisory Committee, as needed. Provide meeting notices, materials, and staff support. (Schedule: ongoing).
2. Promote the completion of engineering and construction phases on the Riverwalk and Canalwalk segments, by providing intercommunity liaison services and technical assistance to communities in project planning, design and construction issues on an ongoing basis. (Schedule: ongoing).
3. Work to promote a broad public support network for the River Walk, including bicyclists, landowners, businesses, residents. (Schedule: ongoing)
4. Assist communities in moving to the active management phase of the Connecticut River Walk and Bikeway as segments complete construction and are opened to public use. This includes developing plans for policing, long-term maintenance and increased parking. (Schedule: ongoing).
5. Create and expand a website, as part of the Connecticutriver.us and PVPC websites, to promote public use of the Riverwalk by illustrating trail maps, parking locations and destinations on the Riverwalk. (Schedule: ongoing).
6. Work with community officials to develop activities to promote public use of the completed Riverwalk facilities. (Schedule: ongoing).

PRODUCTS:

1. Riverwalk Advisory Committee meetings and activities, as needed.
2. Technical assistance to communities.
3. Connecticutriver.us and PVPC website information for Riverwalk users.

Source	Budget	Est. Staff Effort
FHWA PL (80%)	\$ 4,000	2 weeks
MassDOT (20% match)	\$ 1,000	1 week
TOTAL	\$5,000	3 weeks

Direct Labor	\$2,273
Indirect Costs	\$2,727

Task 3.8 Regional Safety and Planning Studies

OBJECTIVE:

Work in cooperation with Pioneer Valley member communities and JTC representatives to identify locations in the region with transportation safety issues based on the updated top high crash locations report. Provide assistance to member communities by conducting advance safety planning studies at these locations.

PREVIOUS WORK:

1. Top High Crash Intersections and Roadway Segments Report.
2. Federal Street and Bay Road Intersection Safety Study - Belchertown
3. Cottage Street and Robbins Road Intersection Safety Study – Springfield

4. Locust Street and Hatfield Street Intersection Safety Study - Northampton
5. Dwight Street at Worthington Street Intersection Study – Springfield.
6. Resnic Boulevard at Maple Street Intersection Study – Holyoke
7. Maple and High Streets Traffic Flow Study – Holyoke.
8. Top 100 High Crash Intersections Report

PROPOSED ACTIVITIES:

1. Work in cooperation with UMassSafe in obtaining detailed crash data for the region in order to get enhanced information and an understanding of safety related issues in Hampshire and Hampden counties.
2. To advance safety planning efforts and work towards achieving Strategic Highway Safety Plan objectives for the region.
3. Cooperate with MassDOT and other member communities in utilizing the guidelines from the Transportation Planner’s Safety Desk Reference and MassDOT’s Safety Toolbox to improve transportation and safety conditions in the region.
4. Perform transportation safety studies at location/s identified with the help of member communities and JTC representatives.
5. Assist member communities in reviewing crash data to determine the potential eligibility of transportation improvement projects for Highway Safety Improvement Program funding.
6. Participate along with MassDOT and other local agencies in Road Way Safety Audits.
7. Participate as part of the Strategic Highway Safety Plan Steering Committee. Ongoing task.
8. Perform the necessary data collection and analysis to complete a safety study at the intersection of Route 20 and Brookfield Road in the Town of Brimfield.
9. Perform safety, traffic calming and truck exclusion route studies as requested by member communities. As necessary.

PRODUCTS:

1. Brimfield Safety Study Report.
2. Other safety reports and data as appropriate.

Source	Budget	Est. Staff Effort
FHWA PL (80%)	\$ 72,875	36 weeks
MassDOT (20% match)	\$ 18,219	9 weeks
FTA S. 5303	\$ 6,250	3 weeks
TOTAL	\$97,344	48weeks

Direct Labor	\$44,247
Indirect Costs	\$53,097

Task 3.9 Intelligent Transportation Systems (ITS) and Regional Evacuation Planning

OBJECTIVE:

Promote and advance the implementation of the Western Massachusetts Regional ITS Architecture. Assist in ongoing regional evacuation planning efforts to enhance regional transportation security.

PREVIOUS WORK

1. ITS Strategic Deployment Plan for Metropolitan Springfield and Pioneer Valley Region.
2. Western Massachusetts ITS Architecture Steering Committee.

3. I-91 Corridor ITS Steering Committee.
4. PVTA ITS System Architecture and Deployment Plan.
5. PVTA Integrated Transit Management System Functional Specifications.
6. RTIC Steering Committee.
7. Western Massachusetts Regional Homeland Security Advisory Committee.

PROPOSED ACTIVITIES:

1. Work with communities to incorporate the FHWA ITS National Architecture into future improvement projects. Ongoing task.
2. Serve as a member of the Steering Committee for the Regional Traffic Information Center (RTIC). Work with RTIC to expand their number of camera locations and promote the use of ITS technology at the local level.
3. Certify TIP project compliance with the Western Massachusetts Regional Architecture. Ongoing task as needed.
4. Analysis and support of data from regional ITS projects such as the I-91 ITS system and PVTA AVL system.
5. Assist MassDOT and PVTA in the update of the Western Massachusetts ITS Regional Architecture. As necessary
6. Participate in ongoing planning efforts of the Western Massachusetts Regional Homeland Security Advisory Committee.
7. Assist communities in regional evacuation planning as necessary.

PRODUCTS:

1. Recommendations and comments as necessary as part of Committee activities.
2. Technical Memoranda and reports as appropriate.

Source	Budget	Est. Staff Effort
FHWA PL (80%)	\$19,200	10 weeks
MassDOT (20% match)	\$ 4,800	2 weeks
TOTAL	\$24,000	12 weeks

Direct Labor	\$10,909
Indirect Costs	\$13,091

Task 3.10 Climate Change Implementation

OBJECTIVE:

To respond to the urgencies of climate change by reducing greenhouse gas emissions from transportation in compliance with the Massachusetts GreenDOT policy. To assist Pioneer Valley communities to plan for the reality of climate change.

PREVIOUS WORK:

1. Completed finalized Climate Change Toolkit for municipalities, including fact sheets and model strategies for local and regional actions to reduce GHG emissions.
2. Established a Climate Action and Clean Energy Advisory Committee to help promote the Climate Change toolkit and plan.

PROPOSED ACTIVITIES:

1. Complete final design, printing and dissemination of the Climate Change Toolkit for municipalities. The toolkit will help to implement the new regional Climate Change and Clean Energy Plan, ICLEI

Agreements, the state's Climate Change Action Plan, the Mayor's Conference Climate Change Protection Agreement, and the Regional Greenhouse Gas Initiative (RGGI).

2. Post the Climate Change Toolkit on PVPC's website with the Valley Vision Smart Growth Toolkit, and on the Sustainable Knowledge Corridor website.
3. Coordinate regular meetings of a Climate Action Advisory Committee to help promote action on the Climate Change Toolkit and plan.
4. Continue a program of technical assistance to communities to implement elements of the Climate Change Toolkit.

0.

PRODUCTS:

1. Printing and dissemination of a Climate Change Toolkit for Municipalities including local and regional GHG reduction strategies applicable to the Pioneer Valley region.
2. Addition of Climate Change Toolkit to PVPC and Sustainable Knowledge Corridor websites.
3. Adoption of Climate Change Toolkit strategies in selected communities.

Source	Budget	Est. Staff Effort
FHWA PL (80%)	\$12,000	7 weeks
MassDOT (20% match)	<u>\$ 3,000</u>	<u>2 weeks</u>
TOTAL	\$15,000	9 weeks

Direct Labor	\$ 6,818
Indirect Costs	\$ 8,182

Task 3.11 Green Streets and Infrastructure

OBJECTIVE:

To encourage communities to adopt policies and regulations to promote the development of green streets and green infrastructure, in order to reduce stormwater and other environmental impacts of streets, roads, and municipal infrastructure.

PROPOSED ACTIVITIES:

1. Research and develop a set of model municipal strategies to achieve green streets and green infrastructure, including: municipal green street and road reconstruction standards; zoning regulations to incentivize green roofs, permeable pavement in parking and internal circulation ways and on-site stormwater retention; subdivision regulations for low impact development roadways.
2. Initiate a program of technical assistance to municipalities to implement model green infrastructure strategies.

PRODUCTS:

1. Model municipal strategies for green streets and green infrastructure.
2. Implementation assistance to communities on strategies.

Source	Budget	Est. Staff Effort
FHWA PL (80%)	\$6,000	3 weeks
MassDOT (20% match)	<u>\$1,500</u>	<u>1 week</u>
TOTAL	\$7,500	4 weeks

Direct Labor	\$3,409
Indirect Costs	\$4,091

WORK ELEMENT 4 - ONGOING TRANSPORTATION PLANNING

This element outlines specific activities to be conducted in support of Transportation Planning tasks described in other UPWP elements.

Task 4.1 Regional Transit Planning

OBJECTIVE:

To provide comprehensive transit planning services to PVTA, PVMPO and member municipalities for transit services and facilities, including technical assistance, organizational support, and regulatory compliance; support for operational analyses of transit services; and public involvement and agency participation. This task also includes ongoing identification and updating of unmet regional transit needs consistent with SAFETEA-LU.

PREVIOUS WORK:

1. General planning assistance and support for PVTA fixed bus route and paratransit services and facilities.
2. Coordination, production and inventory management of PVTA fixed bus route schedules, bus operator's field guide, and related signage for print and electronic distribution.
3. Production and updates to PVTA System Map and related graphics products for print and electronic distribution.
4. Ongoing updates to PVTA systemwide bus stop GPS and facility condition inventory.
5. Technical support of PVTA's ITS/AVL system planning and implementation.
6. Coordination and facilitation of PVTA public involvement activities and events.
7. Support for PVTA Advisory Board and subcommittee activities.
8. Production of videos for emergency response training, employee training and public information.
9. Intermodal facilities planning assistance.
10. Attendance, coordination and participation in public and agency involvement meetings and activities for regional transportation planning.
11. Staffing meetings of municipal public transportation committees in the region.
12. Integration of transit performance measures in Congestion Management Process (CMP) activities.
13. Coordination and facilitation of transit items of TIP planning.
14. Assistance with regulatory compliance, environmental justice impact analysis and related activities.

PROPOSED ACTIVITIES:

1. Ongoing general transit planning services for PVTA fixed routes and facilities, including operations and efficiency analyses and evaluations; project development; service quality monitoring; and other tasks as requested.
2. Updates, production and inventory management of PVTA fixed bus route schedules, system maps and associated graphics products and signage.
3. Analysis of demographic, environmental, land use and community development data and issues related to transit services and facilities planning.
4. Coordination of public involvement for transit planning, including bus rider meetings, paratransit van user meetings, community outreach

- and meetings for LEP residents, agency coordination, and other public meetings, hearings and outreach as requested.
5. Coordination with the UMass-Amherst Regional Transportation Information Center (RTIC) and other agencies for distribution and analysis of ITS data.
 6. Ongoing use and development of GIS, GPS and other technologies to support transit route and facilities planning, scheduling and customer information.
 7. Coordination of transit planning activities of the PVMPO region among PVTA, MassDOT, Franklin Regional Transit Authority, Connecticut Department of Transportation, Capital Regional Council of Governments, private carriers and other stakeholders to enhance inter-regional transit services.
 8. Assistance to transit agencies in identifying and applying for funding opportunities.
 9. Support and guidance to PVTA, PVMPO and agencies for regulatory compliance with Title VI, environmental justice and other federal requirements.

PRODUCTS:

1. Studies, reports, presentations and technical memoranda.
2. Layouts and all necessary computer files for print and digital production of PVTA fixed route schedules and maps.
3. Maps, posters, brochures, placards and other printed and electronic graphic products as requested.
4. Digital files and information for web-based support of public involvement.
5. Field observations, technical assistance, reports and memoranda to support the evaluation, optimization and development of existing and new transit services and facilities.

Source	Budget	Est. Staff Effort
FTA S. 5303	\$100,000	55 weeks
PVTA S. 5307	\$ 97,500	54 weeks
TOTAL	\$197,500	109 weeks

Direct Labor	\$ 89,773
Indirect Costs	\$107,727

Task 4.2 Paratransit Planning Assistance

OBJECTIVE:

To fulfill the planning and programming requirements of USDOT Section 504 regulations and other planning requirements under the Americans with Disabilities Act. This task includes planning services for paratransit services for disabled and senior residents of the region by providing technical assistance to PVTA, as well as communities, human service agencies, councils on aging, private entities and other parties involved in providing ADA transportation in the PVMPO region.

PREVIOUS WORK:

1. Coordination, facilitation and support of Paratransit Van Riders meetings.
2. Training video for paratransit employees.
3. Coordination and technical assistance to agencies seeking capital grants under FTA Section 5311 and the State Mobility Assistance Program.

4. Production of, and updates to, ADA directory and searchable electronic database, web-based mapping tool, and GIS files to assist in determining eligibility for paratransit customer service.

PROPOSED ACTIVITIES:

1. Continue assisting PVTA with planning for actions to comply with regulations of the Americans with Disabilities Act (ADA), including public participation activities and operational analyses.
2. Provide technical and administrative support to the MPO’s Joint Transportation Committee (JTC) on mobility issues and concerns of the region’s elderly and disabled residents.
3. Provide guidance and assistance to applicants for Section 5311 and State Mobility Assistance Program awards concerning program requirements and service coordination options.
4. Perform paratransit surveys and studies requested by PVTA and MPO municipalities.
5. Facilitate paratransit van riders meetings.
6. Participate in PVTA paratransit working group.

PRODUCTS:

1. Meeting notices and notes of paratransit user meetings.
2. Technical memoranda, reports and presentations for PVTA, JTC and MPO member municipalities as needed.
3. Technical assistance to applicants for FTA Section 16(b)(2) and State Mobility Assistance Awards.
4. Digital data requested for paratransit scheduling and information software systems.

Source	Budget	Est. Staff Effort
FTA S. 5303	\$12,500	6 weeks
PVTA S. 5307	\$ 6,250	3 weeks
TOTAL	\$18,750	9 weeks

Direct Labor	\$ 8,523
Indirect Costs	\$ 10,227

Task 4.3 Implementing the Regional Land Use Plan

OBJECTIVE:

The objective of this task is to work with local communities to implement the new “Valley Vision 2, the Regional Land Use Plan for the Pioneer Valley” region. Valley Vision promotes compact, efficient urban growth centered around existing urban and town centers, served by existing transportation and other public infrastructure and services; discourages urban sprawl, inefficient land use, and development in environmentally sensitive areas; helps the region meet air quality goals by reducing auto trips and promoting use of transportation alternatives, such as transit, walking, biking and car-pooling.

PREVIOUS WORK:

1. Completed Valley Vision 2, the new Regional Land Use Plan for the Pioneer Valley and the 2011 Valley Vision Update Plan
2. Completed the Valley Vision Toolbox of strategies for smart growth.
3. Created the Valley Development Council to oversee the development of Valley Vision and to help implement its recommendations.
4. Technical assistance to implement smart growth strategies in Hadley, Easthampton, Westfield, Palmer, Chesterfield, Amherst, and other communities.

PROPOSED ACTIVITIES:

1. Continue to provide staff support to the Valley Development Council, which provides input from community officials and the development community in implementing Valley Vision 2. Coordinate ongoing VDC activities, including:
 - a) Establish a speaker's bureau to educate local planning/other municipal boards regarding smart growth/sustainability concepts and projects;
 - b) Continue work on a Regional Housing Plan with a focus on identifying strategies for transit-oriented and community center mixed use housing development;
 - c) Coordinate the second VDC-sponsored Smart Growth Awards program.
2. Create enhanced public education materials to increase public awareness of smart growth issues and what individuals and communities can do to promote smart growth. Continue development and distribution of PVPC's "Green Tips" to regional newspapers and media outlets.
3. Provide continued, targeted technical assistance to communities across the Pioneer Valley on an as-needed basis to implement pilot projects for Valley Vision strategies in the following key areas: commercial development standards; traditional neighborhood developments; mixed use village centers; cluster or creative development bylaws; transfer of development rights bylaws; inclusionary housing bylaws; local strategies to address global climate change and reduce greenhouse gas emissions. These strategies may include new local zoning bylaws and land use regulations, and policies on infrastructure improvements/extensions.
4. Update Valley Vision Toolbox and website, including update of fact sheets and bylaw materials.

PRODUCTS:

1. Coordination of quarterly meetings of the Valley Development Council and related products.
2. Continued development and distribution of public outreach tools and PVPC's Green Tips.
3. Summary of assistance provided to communities to implement strategies from Valley Vision.
4. Updated Valley Vision Toolbox and website.

Source	Budget	Est. Staff Effort
FHWA PL (80%)	\$23,640	14 weeks
MassDOT (20% match)	\$ 5,910	3 weeks
TOTAL	\$29,550	17 weeks

Direct Labor	\$13,432
Indirect Costs	\$16,118

Task 4.4 Regional Bicycle and Pedestrian Planning

OBJECTIVE:

To identify and pursue opportunities that advance walking and bicycling as sustainable components to the region's transportation system. Assuring that bicycling and walking are viable alternatives for all residents of the Pioneer Valley and to implement the goals and

objectives of the PVPC Regional Bicycle and Pedestrian Plan and Regional Transportation Plan. Provide support for local and regional efforts to adopt and implement a “Complete Streets” approach to create neighborhoods, village centers and city streets that are safer, more livable, and welcoming to everyone.

PREVIOUS WORK:

1. Successful implementation of regionally significant bicycling and walking projects including the Southwick Rail Trail, Holyoke Canalwalk, Springfield Riverwalk, Manhan Rail Trail, Chicopee Riverwalk and various components to the Baystate Greenway.
2. Baystate Bike Week 2012.
3. Review of bike lane implementation strategies for Holyoke.
4. Purchase and installation of bike racks and signs.
5. Expansion of the regional bikes on bus program.
6. Facilitated planning related to the Norwottuck Rail Trail rehabilitation.
7. Revised and update the Pioneer Valley bike map.
8. Bike-ped subcommittee to the Joint Transportation Committee.
9. Facilitated Safe Route to School initiatives.
10. Update to the regional Bike/Ped plan.
11. Bicycle level of service analysis.
12. Assisted Baystate Roads in developing Complete Streets workshops.

PROPOSED ACTIVITIES:

1. Work with the JTC’s Bicycle and Pedestrian subcommittee as well as national organizations such the Rails to Trails Conservancy to ensure consistency with the RTP and implement sustainable transportation strategies.
2. PVPC staff will work with MassDOT, Massachusetts Department of Conservation and Recreation, Norwottuck Rail Trail Advisory Committee and the MassBike Pioneer Valley Chapter to coordinate efforts to facilitate improvements to the Norwottuck Rail Trail.
3. Review bicycle and pedestrian projects for eligibility under various federal funding programs.
4. Work with a local community to develop Complete Streets policy initiatives and a local implementation plan.
5. Assist communities in the development of bicycle and pedestrian infrastructure and programs.
6. Participate in the Massachusetts Statewide Bicycle Advisory Board.

PRODUCTS:

1. Local Complete Street Policies and Implementation Plans.
2. JTC Bicycle Advisory Committee meeting minutes and notices.
3. Inventory of bike parking facilities in the Pioneer Valley.
4. Revised and updated GIS mapping of existing and proposed multi-use trails.
5. Norwottuck Rail Trail Advisory Committee meetings.

Source	Budget	Est. Staff Effort
FHWA PL (80%)	\$28,800	14 weeks
MassDOT (20% match)	\$ 7,200	4 weeks
TOTAL	\$36,000	18 weeks

Direct Labor	\$16,364
Indirect Costs	\$19,636

Task 4.5 Local Technical Assistance

OBJECTIVE:

To provide technical resources and support for member communities and organizations by responding to specific requests in a timely and cost effective manner. To review transportation related impact reports, traffic studies, and environmental notification forms. Assist with state and regional pedestrian, car-sharing, and other alternative transportation initiatives to reduce vehicle miles traveled and improve air quality in the region. To educate planners, public works professionals and business leaders in sustainable development. This is an ongoing task.

PREVIOUS WORK:

1. Data collection activities at the request of local communities.
2. Reviews of all MEPA documents filed in the Pioneer Valley Region.
3. Model sidewalk ordinances.
4. Montgomery Truck Exclusion counts and analysis.
5. Brimfield Trail Mapping

PROPOSED ACTIVITIES:

1. Provide Local Technical Assistance (LTA) to communities on an as requested basis. Each community will be limited to three requests per year. Typical activities may include data collection, operational analysis, small signal coordination studies, and safety studies.
2. Review and comment on all Environmental Notification Forms and Environmental Impact Reports as part of the MEPA process. Attend project scoping sessions for significant projects in the region as part of the MEPA process. Review all documents prepared under federal environmental laws and regulations.
3. Application of the latest versions of transportation software programs to perform analysis and test recommendations.
4. Present findings to communities through documentation and oral presentation as required.
5. Assist communities in implementing past corridor study recommendations.
6. Work with PVRTA and member communities to assure understanding of transit options in the region.

PRODUCTS:

1. Reports documenting the findings and recommendations of all LTAs.
2. Recommendations and comments as appropriate for the review of MEPA documents.

Source	Budget	Est. Staff Effort
FHWA PL (80%)	\$22,702	11 weeks
MassDOT (20% match)	\$ 5,676	3 weeks
TOTAL	\$28,378	14 weeks

Direct Labor	\$12,899
Indirect Costs	\$15,479

Task 4.6 Local Pavement Management Program

OBJECTIVE:

To promote pavement management services among member communities by conducting road condition, budget, and plan analyses for all roadways. This task is contract driven.

PREVIOUS WORK:

1. Local Pavement Management Study for West Springfield.
2. Local Pavement Management Update Study for Agawam.
3. Local Pavement Management Study for Longmeadow.
4. Local Pavement Management Study for Southampton

PROPOSED ACTIVITIES:

1. Assist the City of Holyoke with the implementation of the a local sidewalk management plan.
2. Identify additional communities interested in conducting pavement management programs.
3. Meet with elected officials, highway superintendents, and/or public works directors from the selected communities to explain the program and to coordinate activities.
4. Provide follow-up technical assistance to other communities with pavement management programs already in place.

PRODUCTS:

1. OCI Updates for specific roadways in communities with an existing Pavement Management Program.
2. Holyoke Sidewalk Management Report

Source	Budget	Est. Staff Effort
Estimated Local Funds	\$4,000	2 weeks
TOTAL	\$4,000	2 weeks

Direct Labor	\$1,818
Indirect Costs	\$2,182

Task 4.7 Scenic Byways Support

OBJECTIVE:

The objective of this task is to work with the Byway Area Committees for the Connecticut River Byway and the Route 112 Byway to prioritize projects for each byway, and to provide planning services and technical assistance to each of the communities involved in these two Scenic Byways. The Connecticut River Scenic Farm Byway was designated as the first National Scenic Byway in Massachusetts, and runs along the Connecticut River on Route 47 in the PVPC towns of South Hadley and Hadley. The Route 112 Scenic Byway is a state-designated Scenic Byway in the PVPC towns of Huntington, Goshen, Cummington and Worthington. Both Byways continue from the Pioneer Valley region into Franklin County, and PVPC and FRCOG have assisted these communities in completing Byway Plans, which identify projects and strategies.

PREVIOUS WORK

1. Completed, with FRCOG, a comprehensive scenic byway plans for the Connecticut River Scenic Farm Byway on Routes 47 and 63 in South Hadley, Hadley, Sunderland, Montague, and Northfield, and the Route 112 Scenic Byway in Huntington, Goshen, Cummington, Worthington and Franklin County towns.

2. Provided staff support to the two Scenic Byway Area Committees for both of the Byways.
3. Developed priority projects for Scenic Byway funding and prepared applications for funding.
4. Secured funding for purchase of scenic easements along the corridor, and for other projects.
5. Implemented an intergovernmental compact for land protection along the Connecticut River Scenic Byway, between and among Hadley, South Hadley, MassDOT, DCR, DOA, Kestrel Trust and The Trustees of Reservations.

PROPOSED ACTIVITIES:

1. Coordinate meetings of the Byway Area Committees for the Connecticut River Byway and the Route 112 Scenic Byway. Provide meeting notices, materials, and staff support.
2. Work with Byway Area Committees and community representatives to continue to develop and prioritize scenic byway implementation projects, such as land protection, acquisition of scenic easements, signage, scenic overlooks, trails and river access, and similar projects.
3. Provide technical assistance to communities in byway project development, including identification of funding sources.
4. Implement National Scenic Byway designation for the Connecticut River Byway, including seeking to develop projects to enhance the visitor experience to the byway.
5. Initiate work to update the Connecticut River Byway Corridor Management Plan, and to expand the Byway to the west side of the Connecticut River in Hatfield and other communities.

PRODUCTS:

1. Byway Area Committee meetings and activities, as needed;
2. Technical assistance to communities in securing scenic byway implementation funding.
3. Summary of work on implementation projects for Byway corridor plans.

Source	Budget	Est. Staff Effort
FHWA PL (80%)	\$7,000	4 weeks
MassDOT (20% match)	\$1,750	1 week
TOTAL	\$8,750	5 weeks

Direct Labor	\$3,977
Indirect Costs	\$4,773

Task 4.8 Merrick/Memorial Neighborhood Plan – Implementation

OBJECTIVE:

This task expands upon the efforts of Phase I of the Merrick/Memorial Neighborhood Plan. PVPC staff will assist The Town of West Springfield in the implementation of the preferred recommendations of Phase I. The services of a private consultant may also be obtained using the remaining TCSP funding for this element of the project. The PVPC will work in conjunction with the Town of West Springfield to complete this task. This task is tied to the advancement of the redesign of the Union Street railroad overpass. This is year 1 of a 2 year task.

PREVIOUS WORK:

1. Existing land use inventory
2. Business Survey and Market Study
3. Existing Transportation Conditions Study.
4. Regional Freight Study.
5. Merrick/Memorial Plan – Phase I
6. Proposed Sign and Parking Plan

PROPOSED ACTIVITIES:

1. Administer the Transportation and Community System preservation Pilot Program (TCSP) funding to link the CSX rail yard to the Route 5 corridor.
2. Provide assistance to MassDOT and the Town of West Springfield during the design process of the Union Street CSX railroad underpass. Ongoing task.
3. Continue efforts to advance conceptual improvements to develop a truck route to Route 5. Pending task. Requires completion of the 25% design phase of the new Union Street CSX railroad underpass.

PRODUCTS:

1. Data collection and analysis as appropriate.
2. Design of key components, as appropriate.

Source	Budget	Est. Staff Effort
FHWA – TCSP	\$207,549	93 weeks
TOTAL	\$207,459	93 weeks

Direct Labor	\$ 94,300
Indirect Costs	\$113,159

Task 4.9 Pioneer Valley Trails Map

OBJECTIVE:

To encourage the use of alternative (non-automobile) modes of transportation by providing the public with a high quality map of bicycle, walking and hiking trails across the Pioneer Valley region.

PREVIOUS WORK:

1. Regional Biking Map
2. Initiated inventory of regional trails and collection of mapped data.
3. Pioneer Valley Trails Map.

PROPOSED ACTIVITIES:

1. Continue development of a website, linked with the PVPC website, to provide access to the new Regional Trails Map and detailed hiking trail data.

PRODUCTS:

1. Pioneer Valley Trails Map in web-based format.

Source	Budget	Est. Staff Effort
FHWA PL (80%)	\$5,360	3 weeks
MassDOT (20% match)	\$1,340	1 week
TOTAL	\$6,700	4 weeks

Direct Labor	\$3,045
Indirect Costs	\$3,655

Task 4.10 Scenic Byways of Western Massachusetts Marketing Campaign

OBJECTIVE:

There have been several successful applications submitted by the Berkshire Regional Planning Commission (BRPC), Franklin Regional Council of Governments (FRCOG), and the Pioneer Valley Planning Commission (PVPC) to promote activities associated with Scenic Byways. As many of these proposed projects contain similar tasks, the project scope have been combined in order to eliminate duplicative efforts and create a synergy for promoting the byways. This action will allow the RPAs to work cooperatively to advance a Scope of Work that promotes a broader geographic area encompassing all of the Western Massachusetts Scenic Byways, and draw greater attention to the area as a whole. The project involves the following five byways in Western Massachusetts:

- a) Connecticut River Scenic Farm Byway – Routes 47/63/10
- b) Jacobs Ladder Trail – Route 20
- c) Mohawk Trail (east and west) – Route 2/2A
- d) Mount Greylock Scenic Byway
- e) Route 112 Scenic Byway

PROPOSED ACTIVITIES:

1. Development of a coordinated and cohesive marketing campaign strategy that will brand and promote the Scenic Byways of Western Massachusetts as a local and regional travel destination. This includes identifying themes, branding, and logos for the Scenic Byways of Western Massachusetts as well as each individual byway.
2. Development of a coordinated web presence that includes an overall structure for the Scenic Byways of Western Massachusetts as well as a substructure for the individual byways. This will include coordination with the UMass Regional Traveler Information Center (RTIC).
3. Creation of promotional materials such as maps, brochures that help travelers find the scenic byways, navigate from one byway to another, and locate specific sites and attractions along the byways. This will also include the development of electronic tools including smart phone applications and GPS information.
4. Develop and install a coordinated sign system that includes highway destination signs as well as local way finding signs. This also entails identifying and mapping locations for signs, obtaining approval for sign installation from MassDOT, the local communities and any other applicable permitting agencies.
5. Implementation of the marketing campaign that will promote the newly branded Scenic Byways of Western Massachusetts as a destination. This will include the development of promotional materials and placement of the materials in appropriate media outlets.

PRODUCTS:

1. Byway Marketing Campaign
2. Promotional Materials
3. Byway way finding signs.

Source	Budget	Est. Staff Effort
Scenic Byway Funds*	\$93,750	45 weeks
TOTAL	\$93,750	45 weeks
Direct Labor	\$42,614	
Indirect Costs	\$51,136	

* - Only Includes PVPC Portion of Contract

Task 4.11 Regional Bicycle Commute Week

OBJECTIVE:

To promote livability, sustainability and bicycle friendly communities by making it easy and fun for people to try bicycling by facilitating the 12th annual Pioneer Valley Bicycle Commute Week, which in 2010 became merged with Bay State Bike Week. Thanks to the success and commitment of the PVPC and the western Mass chapter of MassBike and with financial and technical support from the MassDOT.

PREVIOUS WORK:

13. Successful Bike Commute Week activities since 1999.
14. Exposing an estimated 15,000 to the joys of bicycling.

PROPOSED ACTIVITIES:

1. Facilitate Pioneer Valley Bike Commute Week to coincide with national Bike Commute Week—the third week of May and to coincide with Bay State Bike Week..
2. Recruit community participation and identify leaders in each community to promote their community’s activities..
3. Act as a liaison with MassDOT and MassBike.
4. Assure publicity and broad promotion of Bike Commute Week activities.

PRODUCTS:

1. Bike Commute week report.

Source	Budget	Est. Staff Effort
FHWA PL (80%)	\$10,400	5 weeks
MassDOT (20% match)	\$ 2,600	1 weeks
TOTAL	\$13,000	6 weeks
Direct Labor	\$5,909	
Indirect Costs	\$7,091	

Task 4.12 Route 116 Scenic Byway Corridor Management Plan

OBJECTIVE:

Work in cooperation with BRPC and FRCOG to establish a Scenic Byway Corridor Management Plan for Route 116. Work under this contract is specific to the Town of Plainfield in the PVPC region.

PREVIOUS WORK:

1. Jacob’s Ladder Trail Scenic Byway
2. Route 112 Scenic Byway

PROPOSED ACTIVITIES:

1. Work with FRCOG and BRPC to organize public forums for the Route 116 Corridor Management Plan.
2. Conduct landscape inventory and scenic assessment to document and assess historic landscapes and outstanding scenic, and unique natural features.
3. Identify the prominent viewsheds and scenic features of the corridor.
4. Make recommendations for establishing priorities for landscape preservation and viewshed protection strategies.
5. Conduct a comprehensive evaluation of the road and corridor, including compiling existing relevant data such as level of service, pavement condition, roadway dimensions, traffic volumes, and high crash locations.
6. Identify the principle cultural, historic and architecturally significant resources along the Byway.
7. Inventory and assess natural resources along the byway, including protected open space, critical habitat areas, geologic features, wetland areas, rivers, lakes, ponds, biodiversity, cold water fisheries, and soil features and quality.
8. Evaluate zoning and land use regulations and resource protection measures that are currently in place in the communities along the Byway.
9. Inventory and assess the recreational resources for the Byway.
10. Develop implementation strategies with input from the Byway Area Committees.

PRODUCTS:

1. Route 116 Corridor Management Plan.

Source	Budget	Est. Staff Effort
Scenic Byway Funds	\$43,243	22 weeks
TOTAL*	\$43,243	22 weeks

Direct Labor	\$19,656
Indirect Costs	\$23,587

* - Only Includes PVPC Portion of Contract

Task 4.13 Massachusetts-Connecticut Sustainable Knowledge Corridor

OBJECTIVE:

Work in cooperation with the Capital Region Council of Governments and other partner agencies to advance a 2010 Sustainable Communities Regional Planning Grant from the U.S. Department of Housing and Urban Development. The Hartford/Springfield bi-state region will roll out an ambitious work plan over the next three years to position itself as a leader in sustainable community development and a creator of more livable communities for all of the corridor's 1.6 million residents. The Sustainable Knowledge Corridor work plan will blend core planning activities with tangible projects and will rely on a transparent feedback loop to measure and track implementation progress and ensure that goals are achieved over time. The \$4.2 million award will be used to create a foundation of opportunity in housing, education, transportation, employment, nutrition, and community resources.

PROPOSED ACTIVITIES:

1. Update and integrate existing regional plans for a more sustainable knowledge corridor region. Develop regional goals, policies, and strategies that will enhance regional sustainability and equity while providing a framework for future coordinated planning and investment. Timeline: February 15, 2011 through November 31, 2012.
2. Prepare a Knowledge Corridor specific detailed execution plan for a sustainable region which will provide a blueprint for future implementation actions and investment decisions within the Knowledge Corridor. Timeline: November 1, 2012 through February 14, 2014.
3. Implementation of an inclusive Civic Engagement Process, which ensures that all Knowledge Corridor Consortium partners and constituencies, and a broad range of stakeholders and citizens—including low-income and minority individuals who may not normally participate in regional planning processes—are actively engaged in the planning process. Timeline: March 1, 2011 through February 14, 2014
4. Build capacity for ongoing planning and implementation activities in support of a more sustainable Knowledge Corridor through: leadership training; planning and market analysis to support transit oriented development; planning to enhance existing on-street transit systems to better link people to jobs, entertainment and natural resources, and the region's new rapid transit investments; development of municipal land use codes that incorporate sustainable design and development principles.
 - a) Leadership Pioneer Valley (LPV)—March 1, 2011—June 30, 2011
 - b) Market Analysis of Bus Rapid Transit and Rail Corridors for TOD: April 1, 2011—June 30, 2013.
 - c) Transit Enhancement Bus Study: April 1, 2011—December 31, 2012
 - d) Sustainable Land Use Code Development: April 1, 2011—September 30, 2012
 - e) Affordable Housing Code Development: May 1, 2011—July 31, 2013

- f) Affordable Housing Training Module: May 1, 2011—June 30, 2012
- 5. Place based activities to build a sustainable knowledge corridor. Six municipalities—Springfield, Chicopee, Holyoke, Hartford, New Britain, and Enfield—will conduct sustainable knowledge planning projects that provide models of how place based activities can work to enhance the livability of urban centers and villages.
 - a) Court Square Project, Springfield, MA—April 1, 2011—March 31, 2013
 - b) Connecticut Riverwalk and Bikeway Project, Chicopee, MA—April 1, 2011—November 31, 2013
 - c) Depot Square Redevelopment and Revitalization Project, Holyoke, MA—April 1, 2011—December 31, 2013
 - d) Hartford North Park Design District, Hartford, CT—July 1, 2011—April 30, 2012
 - e) Creating a Walkable New Britain—February 15, 2011—June 30, 2013
 - f) Linking Transit Investment and Neighborhood Revitalization in Enfield, CT—April 1, 2011—July 31, 2013
- 6. Establish metrics that can be used to measure the success of efforts to build a more livable, sustainable, and equitable Knowledge Corridor. The work will expand upon current data capabilities by developing an expanded database that will house sustainability indicators for easy tracking and sharing of data. Timeline: March 1, 2011 through February 14, 2014
- 7. Provide a public, easily accessible online location for information about the Knowledge Corridor sustainability activities, data related to these activities, and data that can assist others in sustainable development work. Timeline: March 1, 2011 through February 14, 2014
- 8. Provide staff support and oversight to the work of the Knowledge Corridor Consortium. The Knowledge Corridor Consortium builds on the decade-old bi-state Hartford Springfield Economic Partnership (HSEP), to form an even broader based bi-state Consortium to carry out the grant activities. Timeline: February 15, 2011 through February 14, 2014

Source	Budget	Est. Staff Effort
HUD FY 2010 Sustainable Communities Regional Planning Grant	\$2,100,000	300 weeks

Task 4.14 *Route 112 (Hampshire County) and Jacob’s Ladder Trail Scenic Byways Trails Linkages Project*

OBJECTIVE:

Develop an overall strategy to expand and protect trail networks throughout the Jacob’s Ladder Trail (JLT) and Route 112 Scenic Byways region. The project’s geographic area encompasses the municipalities of Russell, Huntington, Chester, Becket, and Lee along the JLT, and Huntington, Worthington, Cummington, and Goshen along the Route 112 Scenic Byway. Project work will include: development of a trails inventory and planning map; an investigation into the feasibility of trail linkages; and an action plan

that prioritizes trail linkages and protection efforts and elaborates on specific trail projects for the Byways. The Pioneer Valley Planning Commission will work in tandem with the Berkshire Regional Planning Commission and The Trustees of Reservations to draw together and work with trail stakeholders throughout the eight towns of the Byways region over a two-year time frame.

PREVIOUS WORK:

1. Corridor Management Plan for Route 112 Scenic Byway
2. Corridor Management Plan for Jacob’s Ladder Trail Scenic Byway
3. Restoration of trails at Hampden Park in Chester

DESIGN AND CONSTRUCTION OF SPUR TRAIL AND IMPROVED TRAIL HEAD FOR APPALACHIAN TRAIL IN LEE AND BECKET. PROPOSED ACTIVITIES:

1. Develop an inventory and planning map that shows existing formal and informal trails, status of each trail, points of access, and all public and conservation lands in the region of the two Byways. To help with project work, PVPC will invite trails stakeholders in the region (trails groups and other trails interests) to participate in the project working group.
2. Explore the feasibility of specific linkages in and around villages and throughout the region, which would include a series of community meetings (including local snowmobile clubs), regional meetings, and conversations with the region’s largest landowners.
3. Develop an action plan prioritizing linkages and protection efforts, and next steps from which specific funding requests can be made for trail development and protection work. The action plan will also elaborate on specific trail projects for the Route 112 and JLT Scenic Byways region, describing partnerships, strategies, and likely funding sources.

PRODUCTS:

1. Subcontracts with Berkshire Regional Planning Commission and The Trustees of Reservations
2. List of trails stakeholders throughout the region
3. List of project working group members
4. Minimum of 6 meetings with project working group, including trails stakeholders, to help in the development of the inventory and planning map; trails linkages feasibility investigation; and action plan
5. Working map for the 9 communities along the Jacob’s Ladder Trail and Route 112 (in Hampshire County) Scenic Byways using multiple layers from MassGIS and local towns. This map will be updated with information as work progresses.
6. Matrix that shows major trail linkages opportunities with names and contacts of key landowners, description of obstacles and strategies, and summary notes from meetings within communities and with key landowners
7. Action plan that elaborates on specific trail development/linkages and protection projects for the Byways.

Source	Budget	Est. Staff Effort
Scenic Byway Funds	\$68,375	24 months
TOTAL*	\$68,375	24 months

Direct Labor	\$16,193
Indirect Costs	\$19,432
Direct Costs	\$32,750

ESTIMATED COMPLETION SCHEDULE OF PLANNING ACTIVITIES

Task	Product	Anticipated Completion
1.2	FY2014 UPWP	August 2013
1.4	FY2014 - 2017 TIP	August 2013
1.5	Environmental Justice Planning	Ongoing
1.5	New EJ Definitions	December 2012
1.5	EJ Milestones	December 2012
2.1	Regional Traffic Counts	Ongoing
2.2	Regional Travel Demand Modeling	Ongoing
2.2	CMAQ and Greenhouse Gas Analysis	Ongoing
2.3	GIS, Mapping, and Graphics	Ongoing
2.4	Information Center Reports	Ongoing
2.4	Maintenance of Socio-economic Data	Ongoing
2.4	Update Information Center Website	Ongoing
2.5	CMP Data Collection	Ongoing
2.6	PMS Data Collection	Ongoing
3.1	Regional Saturation Flow Rate Study Part 2	June 2013
3.1	Regional Gap Acceptance Report	September 2013
3.2	Transit Route Surveys	Ongoing
3.3	I-91 Corridor Study Report	September 2013
3.4	Regional Freight Planning	Ongoing
3.5	CMP Report Update	September 2013
3.5	CMP Database Updates	Ongoing
3.5	Northampton Congestion Study	May 2013
3.6	PMS Project Development	Ongoing
3.7	Bikeways Advisory Committee meetings	Quarterly meetings
3.7	Technical assistance to communities	Ongoing
3.8	Brimfield Safety Study	December 2012
3.8	HSIP Crash Analysis	Ongoing
3.9	Western Mass ITS Architecture Updates	Ongoing
3.9	Regional Homeland Security Advisory Committee	Monthly
3.10	Final Web-based Climate Change Toolkit	Spring 2013
3.10	Adoption of Climate Change Toolkit Strategies	Ongoing
3.11	Municipal green streets strategies implementation	Ongoing
4.1	Route Ridership Studies	Ongoing
4.1	PVTA Schedule Updates	Summer 2013 and Fall 2013
4.2	Paratransit Planning	Ongoing
4.3	Valley Vision Toolbox and website updates	Ongoing
4.3	Valley Development Council meetings	Quarterly meetings
4.3	Public outreach tools and PVPC's Green Tips.	Monthly
4.4	JTC Bicycle Subcommittee	Monthly
4.4	Regional Bicycle Parking Inventory	Summer 2013
4.5	Local Technical Assistance	Ongoing
4.6	Holyoke Sidewalk Management	Fall 2012
4.7	Byway Area Committee meetings	Quarterly meetings
4.7	Byway Technical Assistance	Ongoing
4.8	Merrick Phase 2 Data Collection	Fall 2012
4.8	Merrick Phase 2 Analysis	Spring 2013
4.9	Regional Trail Map Updates in web format	Summer 2013
4.10	Byway Marketing	Fall 2012
4.10	Byway promotion and signs	Fall 2013
4.11	Bike Commute Week Report	July 2013
4.12	Route 116 Corridor Management Plan	January 2013
4.13	Sustainable Knowledge Corridor Planning	February 2014
4.14	Route 112 and JLT Scenic Byway Linkages	September 2014

ADDITIONAL PLANNING PROJECTS

This section outlines activities for which funding has not yet been secured. These proposed tasks are provided for information purposes only. An amendment to the UPWP will be completed to reflect any contracts secured for these proposed tasks.

East/West Passenger Rail Study

OBJECTIVE:

MassDOT is in the process of contracting with HDR to conduct a study of the feasibility of increasing east/west passenger rail service from Springfield to Boston. This could result in the development of additional planning work to perform data collection, analysis and additional public participation necessary to support passenger rail service along this corridor.

PREVIOUS WORK:

Knowledge Corridor Passenger Rail Study.

PROPOSED ACTIVITIES:

1. Continue to work with federal, state and local officials to provide up to date information for the project.
2. Participate on any committees or groups convened to assist in reviewing the work of the consultant.
3. Perform data collection and facilitate public participation efforts as necessary.
4. Review infrastructure needs and operating cost estimates for the incremental implementation of the service along the corridor.
5. Continue to assess potential funding strategies through applications for federal, state and local funding.

PRODUCTS:

TBD

Source	Budget	Est. Staff Effort
TBD	\$	

Interstate Route I-91 Exit 15 Study

OBJECTIVE:

In 2009, through a grant received as part of the Chapter 43D process, the City of Holyoke initiated a study of the Lower Westfield Road Corridor in an effort to evaluate the transportation related issues and concerns within the Ingleside area of the City of Holyoke, and to identify strategies that could be utilized to effectively address these problems. The City of Holyoke commissioned the services of a transportation consulting firm to perform this study.

The completed study identified traffic congestion and delay, roadway layout, maneuverability, traffic safety and enforcement as concerns that should be addressed. The most notable issue at the exit 15 off-ramp signalized intersections was identified as the difficult vehicle maneuvers that occur between each intersection and the high number of crashes in this area. Observations revealed that the high volume of left turns onto

the entrance ramps at each location during peak hours forces the shared through/left lanes to operate as de facto left turn lanes. This creates a situation where the majority of the through vehicles will only use the right lane, and not the shared through/left lane. This generally leads to traffic flow problems through this area since most through vehicles will position themselves in the right lane prior to each intersection resulting in longer queues. This also appears to lead to vehicles making abrupt lane changes near the ramp intersections in an effort to navigate around delayed left turning vehicles. The long-term recommendation of the study of a partial cloverleaf interchange may be impacted by proposed development in the area.

An additional concern/issue identified in this study was that vehicles traveling eastbound along Lower Westfield Road destined for the Holyoke Mall conflict with vehicles exiting the I-91 northbound off ramp who desire to turn left onto Whiting Farms Road or continue straight along Lower Westfield Road. This may partially explain the high average number of crashes (16) per year, and the crash rate of 1.40 which is higher than both the statewide and District 2 averages for signalized intersections. This difficult weaving maneuver is result of the current geometric design of the I-91 northbound off ramp.

The City of Holyoke therefore requests a new study be initiated through the Massachusetts Department of Transportation that will further develop the recommended concepts in the consultant study. The new study should evaluate traffic operations; traffic count data, crash data and a thorough origin/destination travel survey as well as other appropriate methods.

Source	Budget	Est. Staff Effort
TBD	TBD	TBD

***Blanche Barlow Acres/Goose Pond Recreational Access
Project –Jacob’s Ladder Trail Scenic Byway, Lee, MA***

OBJECTIVE:

To provide Byway travelers direct access to an extensive hiking trail system throughout 147 acres of conservation land enabling access to both Goose Pond and the Appalachian Trail. This project will connect the trail system to the traveling public by providing a paved access road from the Byway (State Route 20) to a new parking area. This parking area will provide space for seven cars inclusive of one van accessible space with access aisle. A bike rack will also be installed in this area so visitors traveling by bicycle will have a secure location to leave their bike while utilizing the trails. Finally, interpretive signage will highlight the site’s history and inhabitants, the broader Berkshire region, and the collaboration between the Scenic Byway, The Trustees of Reservation and the Lee Land Trust.

PREVIOUS WORK:

1. Roadside Landscape Improvements – 2009
2. Hampden Park Revitalization – 2009
3. Historic Society (Former Methodist Church) Rehabilitation – 2008

4. Appalachian Trail Parking & Trailhead Improvements – 2005
5. Scenic Easement at Summit Cairn – 2004
6. Boulder Park Accessible Trail – 2003
7. Byway Gateway Signs – 2002 & 2003
8. H. Newman Marsh Hiking Trail & Overlook – 2000

PROPOSED ACTIVITIES:

1. The Pioneer Valley Planning Commission (PVPC) will serve as project manager on behalf of Jacob's Ladder Trail Scenic Byway, Inc. (JLTSB).
2. PVPC staff will conduct the procurement process for a project designer. Preference will be given to landscape designers with prior scenic byway, trail-head and/or handicapped accessible projects.
3. The designer selected will produce completed design plans based on the application submitted to the Federal Highway Administration with ongoing guidance from JLTSB.
4. The project designer will attend regular meetings with JLTSB and MassDOT during the design process. Representatives from the Lee Land Trust and The Trustees for Reservation will be encouraged to attend and provide feedback on project development.
5. PVPC staff, in conjunction with JLTSB, will gather and prepare historical material for the site's interpretive signage.
6. PVPC staff, in conjunction with the project designer, will conduct the procurement for project construction.
7. The contractor awarded the project will complete all work in accordance with the plans and specifications developed by the project designer and approved by MassDOT.

PRODUCTS:

Completed paved access driveway, parking area with accessible space, bike rack and accessible picnic table, interpretive signage and native landscaping.

Source	Budget	Est. Staff Effort
FHWA (80%)	\$21,160	14 months
MassDOT (20%)	\$5,290	4 months
TOTAL	\$26,450	18 months

Direct Labor	\$12,023
Indirect Costs	\$14,427

Enhancing the Recreational Experience on the Connecticut River Scenic Byway

OBJECTIVE:

Improve recreational access from the Byway to the Connecticut River and scenic, natural, and historic areas along the Byway, including creating a waypoint center to provide visitors with information on Byway features, history and destinations. The project will also work with existing public lands and easements, and willing landowners to develop

plans for a canoe and kayak access to the Connecticut River, and several trails that link the Byway to the Connecticut River, Mount Warner, and other nearby scenic natural resources. Most of the proposed activities will be done through the use of consultants.

PREVIOUS WORK:

1. Connecticut River Scenic Farm Byway Corridor Management Plan, 1998
2. Connecticut River Byway land protection project, 2010-12

PROPOSED ACTIVITIES:

1. Work with partners at the Porter Phelps Huntington House Museum to establish a new visitor's waypoint interpretive center at the historic museum complex in Hadley.
2. Conduct a feasibility study and develop design plans and specifications for a car-top boat access point for canoes and kayaks, with fishing access, to the Connecticut River at Ferry Road in North Hadley. Work will include surveying and purchasing of recreational easements as needed.
3. Work with the Porter Phelps Huntington House Museum, the Trustees of Reservations, the Kestrel Trust and adjacent landowners to explore feasibility and to develop design plans and specifications for an interpretive hiking trail system linking the Byway to the Connecticut River and to Mount Warner.
4. Develop design plans and specifications for improved trailhead signage, interpretive information and safe, attractive parking for the New England National Scenic Trail (NENST) near its crossing of the Connecticut River Byway. Recreational easements will be negotiated and secured on the trail route.
5. Develop a trail layout plan for a two-mile Connecticut River hiking trail segment on town-owned and private land in the Bachelor Brook/Stony Brook Conservation Area, along the Connecticut River bank near South Hadley center and linking to trails on the Mount Holyoke Range, working in concert with willing property owners. Work will also include a feasibility study for connecting this trail to the neighboring Mount Holyoke Range State Park.
6. Work with the Massachusetts Department of Conservation and Recreation and a consultant to undertake a feasibility analysis and trail layout plan for a Connecticut River hiking trail segment along the riverbank in North Hadley, focusing on state-owned land under the Department of Conservation and Recreation, and working in concert with willing private property owners to secure needed permissions and access agreements.

PRODUCTS:

1. New visitor's Waypoint Interpretive Center at the Porter Phelps Huntington House Museum
2. Design plans and specifications for a canoe/kayak access area on Ferry Road in North Hadley
3. Design plans and specifications for a trail that links the Byway to the Connecticut River/Porter Phelps Huntington House and Mount Warner
4. Improved trailhead, interpretive information, and safe and attractive parking for the New England National Scenic near its crossing of the Byway

5. Feasibility study and design plans for a two-mile Connecticut River hiking trail segment in South Hadley on town-owned and private land in the Bachelor Brook/Stony Brook Conservation Area
6. Feasibility study for connecting the two-mile hiking trail segment along the Connecticut River in South Hadley to the neighboring Mount Holyoke Range State Park
7. Feasibility study and design plans for a Connecticut River hiking trail segment in North Hadley, focusing on state owned land

Source	Budget	Est. Staff Effort
Scenic Byway Funds	\$203,364	24 months
TOTAL	\$203,364	24 months

Direct Labor	\$ 9,818
Indirect Costs	\$ 11,782
Direct Costs	\$181,764

Connecticut River Byway Corridor Management Plan Update in the Towns of Northfield, Erving, Montague, Sunderland, Hadley and South Hadley

OBJECTIVE:

Develop an updated corridor management plan and accompanying public participation process to recognize, interpret, preserve, and promote the Byways's unique scenic, cultural, archeological, natural, and recreational resources. This project will involve a multi-regional collaborative effort by the Franklin Regional Council of Governments (FRCOG), and the Pioneer Valley Planning Commission (PVPC) as the 38 mile Scenic Byway route passes through Franklin County (Northfield, Erving, Montague, and Sunderland) and Hampshire County (Hadley and South Hadley).

Also evaluate the expansion of the Byway on the west side of the River into the towns of Hatfield, Whately, Deerfield and Greenfield. If there is an interest on the part of these towns (Hatfield has already expressed an interest) to join the Byway, the exact route will be determined based on input received from the towns and the necessary legislation for the expanded Scenic Byway designation will be written and filed with the Massachusetts Legislature.

PREVIOUS WORK:

1. Connecticut River Scenic Farm Byway Corridor Management Plan, 1998
2. Connecticut River Byway land protection project, 2010-12

PROPOSED ACTIVITIES:

1. Re-invigorate and expand the two Byway Area Committees (one for Franklin County and one for Hampshire County) that will assist and guide the Corridor Management Plan Update development process.
2. Organize and conduct one public forum in each county to receive input on the Connecticut River Byway Corridor Management Plan Update.

3. Discuss and receive input from the towns of Hatfield, Whately, Deerfield, and Greenfield on the expansion of the Byway on the west side of the Connecticut River, prepare the necessary legislative language, and work with area legislators to have the special legislation for the expansion submitted for approval by the State Legislature.
4. Develop and update the corridor management plan for the Byway. The work will include completing updated inventories of the Byway resources, documenting any issues of concern, and developing recommendations to preserve and protect Byway resources while also fostering future sustainable economic development for the area. This update will also include evaluations based on the six intrinsic qualities for areas of expansion of the Byway to the west side of the river. The potential expansions routes include consideration of River Road and/or Route 5/10, although the final determination will be made based on the input from the communities.

PRODUCTS:

1. Two Byway Area Committees.
2. 16 Byway Area Committee quarterly meetings (quarterly) for each Byway Area Committee a total of 16 meetings
3. Two public forums (one for Franklin County and one for Hampshire County)
4. Outreach to the towns of Hatfield, Whately, Deerfield and Greenfield to determine interest in expanding the Scenic Byway.
5. Chapters of the Corridor Management Plan Update that are devoted to the documentation and assessment of and recommendations for the following along the Byway: roadway and transportation system; cultural, historic and heritage resources; natural resources; landscape features and view sheds; tourism related attractions; community planning; recreational resources and connections to the recreational resources along other neighboring Byways.
6. Maps for the plan illustrating the following: transportation infrastructure and recommended roadway improvements; historic, cultural and heritage resources; natural resources; and the locations of scenic road segments and prominent view sheds.
7. 80 copies of the Corridor Management Plan Update for the Connecticut River Byway including implementation strategies.

Source	Budget	Est. Staff Effort
Scenic Byway Funds	\$78,067	24 months
TOTAL	\$78,067	24 months

Direct Labor	\$33,121
Indirect Costs	\$39,746
Direct Costs	\$ 5,200

FUNDING PROFILE

	Total	MassDOT			FTA S. 5303	PVTA* S. 5303 Match	PVTA S. 5307	PVTA S. 5307 Match	TCSP Grant	Scenic Byways	HUD Sustainable Communities
		FHWA 3C PL	3C Match	Local Match							
1.0 Management & Certification of the 3C Process											
1.1 Management of the 3C Process	50,000	28,000	7,000		12,000	3,000					
1.2 Unified Planning Work Program	8,125	5,500	1,375		1,000	250					
1.3 Public Participation Process	23,260	12,608	3,152		6,000	1,500					
1.4 TIP Development	62,500	40,000	10,000		10,000	2,500					
1.5 Title VI and Environmental Justice	29,375	16,000	4,000		7,500	1,875					
Subtotal of Section 1.0	173,260	102,108	25,527		36,500	9,125					
2.0 Technical Support & Data Collection											
2.1 Traffic Counting	37,500	30,000	7,500								
2.2 Regional Travel Demand Modeling/Clean Air Planning	64,375	48,000	12,000		3,500	875					
2.3 GIS, Mapping and Graphics	70,516	37,413	9,353		7,000	1,750	12,000	3,000			
2.4 Information Center	48,605	37,884	9,471		1,000	250					
2.5 Regional Congestion Management System - Data Collection	13,750	11,000	2,750								
2.6 Regional Pavement Management System - Data Collection	31,250	25,000	6,250								
Subtotal of Section 2.0	265,996	189,297	47,324		11,500	2,875	12,000	3,000			
3.0 RTP Planning											
3.1 Regional Saturation Flow Rate and Gap Acceptance Study	18,000	14,400	3,600								
3.2 Transit System Surveys & Route Implementation	143,750				50,000	12,500	65,000	16,250			
3.3 Interstate Route I-91 Major Corridor Planning Study	70,000	56,000	14,000								
3.4 Regional Freight Planning	15,000	12,000	3,000								
3.5 Regional Congestion Management System - Project Development	100,000	72,000	18,000		8,000	2,000					
3.6 Regional Pavement Management System - Project Development	37,500	30,000	7,500								
3.7 Connecticut River Walk & Bikeway Coordination	5,000	4,000	1,000								
3.8 Regional Safety and Planning Studies	97,344	72,875	18,219		5,000	1,250					
3.9 Intelligent Transportation Systems (ITS) and Regional Evacuation Planning	30,250	19,200	4,800		5,000	1,250					
3.10 Climate Change Implementation	15,000	12,000	3,000								
3.11 Green Streets and Infrastructure	7,500	6,000	1,500								
Subtotal of Section 3.0	539,344	298,475	74,619		68,000	17,000	65,000	16,250			
4.0 Ongoing Transportation Planning											
4.1 Regional Transit Planning	197,500				80,000	20,000	78,000	19,500			
4.2 Paratransit Planning Assistance	18,750				10,000	2,500	5,000	1,250			
4.3 Implementing the Regional Land Use Plan	29,550	23,640	5,910								
4.4 Regional Bicycle & Pedestrian Planning	36,000	28,800	7,200								
4.5 Local Technical Assistance	28,378	22,702	5,676								
4.6 Local Pavement Management Program	4,000			4,000							
4.7 Scenic Byways Support	8,750	7,000	1,750								
4.8 Merrick/Memorial Neighborhood Plan Implementation	207,459								207,459		
4.9 Pioneer Valley Trails Map	6,700	5,360	1,340								
4.10 Scenic Byways of Western Massachusetts Marketing Campaign	93,750									93,750	
4.11 Regional Bicycle Commute Week	13,000	10,400	2,600								
4.12 Route 116 Scenic Byway Corridor Management Plan	43,243									43,243	
4.13 Massachusetts-Connecticut Sustainable Knowledge Corridor	2,100,000										2,100,000
4.14 Route 112 (Hampshire County) and Jacob's Ladder Trail Scenic Byways	68,375									68,375	
Subtotal of Section 4.0	2,855,455	97,902	24,476	4,000	90,000	22,500	83,000	20,750	207,459	205,368	2,100,000
MHD 3C Direct Costs	32,250	25,800	6,450								
Program Sum	3,866,305	713,582	178,396	4,000	206,000	51,500	160,000	40,000	207,459	205,368	2,100,000

*PVTA S. 5303 match is 20% of total program amount only.

FUNDING SUMMARY

Transportation Funding	Value	% of Total
FHWA PL (80%)	\$ 713,582.00	18.46%
MassHighway PL (20% match)	\$ 178,396.00	4.61%
FTA Section 5307 (80%)	\$ 160,000.00	4.14%
PVTA Section 5307 (20% match)	\$ 40,000.00	1.03%
FTA Section 5303 (80%)	\$ 206,000.00	5.33%
PVTA Section 5303 (20% match)	\$ 51,500.00	1.33%
Local Funds (includes in-kind contributions)	\$ 4,000.00	0.10%
Scenic Byways	\$ 205,368.00	5.31%
USDOT TCSP Grants	\$ 207,459.00	5.37%
*HUD Sustainable Communities Grant	\$ 2,100,000.00	54.32%
Total	\$ 3,866,305.00	100.00%

Other Funding	Value	% of Total
Other Commonwealth of Massachusetts	\$ 1,220,522.00	32.35%
US Environmental Protection Agency	\$ 705,000.00	18.68%
US Economic Development Administration	\$ 75,700.00	2.01%
US Department of Energy	\$ 4,000.00	0.11%
Local Grants	\$ 1,675,000.00	44.39%
Local Assessments	\$ 93,000.00	2.46%
Total	\$ 3,773,222.00	100.00%

Overall Funding	Value	% of Total
FHWA PL (80%)	\$ 713,582.00	9.34%
MassHighway PL (20% match)	\$ 178,396.00	2.34%
FTA Section 5307 (80%)	\$ 160,000.00	2.09%
PVTA Section 5307 (20% match)	\$ 40,000.00	0.52%
FTA Section 5303 (80%)	\$ 206,000.00	2.70%
PVTA Section 5303 (20% match)	\$ 51,500.00	0.67%
Local Funds (includes in-kind contributions)	\$ 4,000.00	0.05%
Scenic Byways	\$ 205,368.00	2.69%
USDOT TCSP Grants	\$ 207,459.00	2.72%
*HUD Sustainable Communities Grant	\$ 2,100,000.00	27.49%
Other Commonwealth of Massachusetts	\$ 1,220,522.00	15.98%
US Environmental Protection Agency	\$ 705,000.00	9.23%
US Economic Development Administration	\$ 75,700.00	0.99%
US Department of Energy	\$ 4,000.00	0.05%
Local Grants	\$ 1,675,000.00	21.93%
Local Assessments	\$ 93,000.00	1.22%
Total	\$ 7,639,527.00	100.00%

* Denotes Pass-through Funding

SUMMARY OF COMMENTS ON UPWP

Page #	Task	Comment	From
7	Previous Studies	Include a hyperlink to Previously Completed Studies	MassDOT District 2
50	Additional Planning Projects	Include additional information on planning activities associates with four additional Scenic Byway projects awaiting contract approval.	PVPC, MassDOT
3	Eight Factors of SAFETEA-LU	Include information on how the 8 factors link to the planning tasks in the UPWP.	FHWA
various	various	Correct all spelling errors.	MassDOT
28	Regional Freight Planning	MassDOT is evaluating the use of a heavy-lift accelerated bridge construction technique for the replacement of the Union Street Bridge.	MassDOT District 2
39	Regional Bicycle and Pedestrian Planning	Improvements are scheduled for implementation under Project No. 605065 (Norwottuck Rail Trail Reconstruction) in FFY 2013.	MassDOT District 2
43	Merrick/Memorial Neighborhood Plan – Implementation	Note that study-recommended improvements at Park Street should not be dependent on Union Street Bridge Replacement (Project No. 604746).	MassDOT District 2
50	Interstate Route I-91 Exit 15 Study	Consider discussion on significant development planned for the old Atlas site (VHB design) and strong public input in 2011-2012 at public meeting(s). Also, intersection improvements with Homestead currently under design (AECOM design).	MassDOT District 2
51	Interstate Route I-91 Exit 15 Study	MassDOT District 2 has initiated a project (Project No. 606903) to implement the short-term recommendation of this study to provide dedicated left-turn lanes onto the entrance ramps. This potential HSIP project is expected to be ready for advertising in FFY 2017.	MassDOT District 2
51	Interstate Route I-91 Exit 15 Study	Suggested to add: The long-term recommendation of the study of a partial cloverleaf interchange may be impacted by proposed development in the vicinity.	MassDOT District 2
Various	All	Updated Indirect Cost Rate from 118% to 120%	PVPC

MPO ENDORSEMENT

PIONEER VALLEY MPO ENDORSEMENT SHEET

The signatures below signify that all members of the Pioneer Valley Region's Metropolitan Planning Organization, or their designees, have met on June 19, 2012 and discussed the following item for endorsement: The Pioneer Valley Region's Federal Fiscal Year 2013 Unified Planning Work Program (UPWP)

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

19 Jun 12
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.

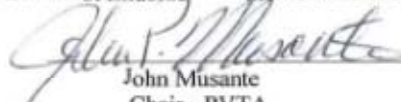

Walter Gunn
Chair - PVPC

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

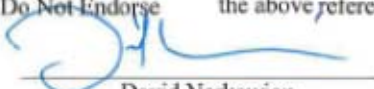
6-19-12

Date

City of Northampton

I, Mayor of the City of Northampton, hereby

Endorse Do Not Endorse the above referenced item.



David Narkewicz
Mayor-Northampton

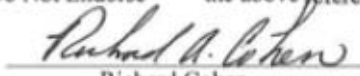
6-19-12

Date

City of Agawam

I, Mayor of the Town of Agawam, hereby

Endorse Do Not Endorse the above referenced item.



Richard Cohen
Mayor-Agawam

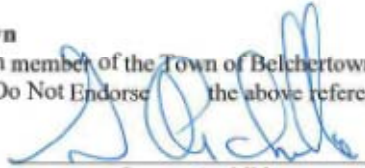
19 JUNE 2012

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

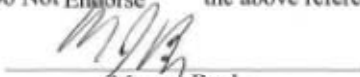
15 June 2012

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

6/20/12

Date