

Summary of Proposed Changes to the 2019-2023 Transportation Improvement Program (TIP) – April 2019

HIGHWAY

FFY 2019

Section 1A Regionally Prioritized Projects

 Worthington 606912 – Change project description to read: WORTHINGTON- RECONSTRUCTION & RELATED WORK ON ROUTE 143 (PHASE I) COLD STREET TO CHESTERFIELD TOWN LINE

Section 1B Earmark or Discretionary Grant Funded Projects

- Add Project 609429 PALMER- WARE- RESURFACING OF ROUTE 32 for \$3,204,720 (HPP)
- Add Project PV0002 LONGMEADOW Rehabilitate Pondside Rd, a section of Tina Lane including a gravel parking area, replace 2 culverts for \$2,260,000 (FLAP Funding)

Section 2A / State Prioritized Reliability Projects

Change funding for Holyoke Systematic Bridge Maintenance (308251) from NHPP-off to NHPP-on

Section 2C / State Prioritized Expansion Projects

 Increase cost of 603783 Westfield Columbia Greenway Rail Trail (Center Section) from \$6,532,895 to \$7,474,369

Performance Measure Section of TIP

• Amendment to FFY 2019-2023 TIP outlining the MPO adopted federal performance measure targets; linkage to priority investments; and narrative for the target setting procedure

STP = Surface Transportation Program

HSIP = Highway Safety Improvement Program

SRS = Safe Routes to School

FLAP = Federal Lands Access Program

CMAQ = Congestion Mitigation Air Quality

SW = Statewide

NHFP = National Highway Freight Program

Pioneer Valley Region Transportation Improvement Program 2019

Amendment /	STIP	MassDOT	Metropolitan	Municipality	MassDOT	MassDOT	Funding	Total	Federal	Non-Federal	Additional Information ▼
Adjustment Type ▼	Program ▼	Project ID ▼	Planning	Name ▼	Project	District ▼	Source ▼	Programmed	Funds ▼	Funds ▼	Present information as follows, if applicable: a)
,	i rogram v			italiie v	•	District v	oource v		i uiius v	i uiius v	Planning / Design / or Construction; b) total project cost
			Organization ▼		Description ▼			Funds ▼			and funding sources used: c) advance construction

► Section 1A / Regionally Prioritized Projects

▶ Regionally	Prioritiz	ed Pro	ject

► Regionally Prioritiz	zed Projects				,								
	Intersection Improvements	608411	Pioneer Valley	Springfield	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT BAY STREET AND BERKSHIRE AVENUE	2	HSIP	\$	1,000,000	\$	900,000	\$ 100,00	O Construction / (YOE \$1,886,880 STP) / 49.5 TEC / 25% HSIP, CMAQ
	Intersection Improvements	608411	Pioneer Valley	Springfield	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT BAY STREET AND BERKSHIRE AVENUE	2	CMAQ	\$	886,880	\$	709,504	\$ 177,3	Construction / (YOE \$1,886,880 STP) / 49.5 TEC / 25% HSIP, CMAQ
	Roadway Reconstruction	600513	Pioneer Valley	Agawam	AGAWAM- RECONSTRUCTION OF ROUTE 187 FROM 425 FT. SOUTH OF S. WESTFIELD STREET TO ROUTE 57 (0.3 MILES - PHASE I)	2	STP	\$	2,622,622	\$	2,098,098	\$ 524,52	Construction / (YOE \$2,622,622 STP) / 27 TEC / 25% STP
	Intersection Improvements	608412	Pioneer Valley	Belchertown	BELCHERTOWN- IMPROVEMENTS & RELATED WOOK ON ROUTES 202 & 21, FROM TURKEY HILL ROAD TO SOUTH MAIN STREET (1.2 MILES)	2	STP	\$	5,143,503	\$	4,114,802	\$ 1,028,70	Construciton / (YOE \$5,143,503 STP) / 59 TEC / 25% STP - 75% Due May 27, 2018
	Intersection Improvements	607987	Pioneer Valley	Ware	MANE-INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH STREET	2	STP	\$	1,000,000	\$	800,000	\$ 200,00	O Construction / (YOE \$2,475,087) STP) / 55 TEC / 75% STP, CMAQ, TAP
	Intersection Improvements	607987	Pioneer Valley	Ware	WARE-INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH	2	CMAQ	\$	1,000,000	\$	800,000	\$ 200,00	O Construction / (YOE \$2,475,087) STP) / 55 TEC / 75% STP, CMAQ, TAP
	Intersection Improvements	607987	Pioneer Valley	Ware	WARE-INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH STREET	2	TAP	\$	475,087	\$	380,070	\$ 95,0	7 Construction / (YOE \$2,475,087) STP) / 55 TEC / 75% STP, CMAQ, TAP
	Roadway Reconstruction	604962	Pioneer Valley	Holland	HOLLAND- RESURFACING & RELATED WORK ON BRIMFIELD ROAD, FROM THE BRIMFIELD/HOLLAND T.L. TO WALES ROAD (1.4 MILES - PHASE I)	2	STP	\$	2,919,446	\$	2,335,557	\$ 583,88	9 Construction / (YOE \$2,919,446) STP) / 26.5 TEC / 25% - 25% Comment Received
AMENDMENT:Change Project Description	Roadway Reconstruction	606912	Pioneer Valley	Worthington	WORTHINGTON- RECONSTRUCTION & RELATED WORK ON ROUTE 143 (PHASE I) COLD STREET TO CHESTERFIELD TOWN LINE	1	STP	\$	8,900,000	\$	7,120,000	\$ 1,780,00	Construction / (YOE \$8,900,000) STP / 41.5 TEC / 75% Project Phased Total project cost was \$16,300,000 STP
	Planning / Adjustments / Pass-throughs	PV0001	Pioneer Valley	multiple	P21 Express - Year 2 Operating	2	CMAQ	\$	500,000	\$	400,000	\$ 100,00	P21 Express - Year 2 Operating CMAQ
·			•		Regionally Price	oritized Pro	ects subtotal >	\$ 24	4,447,538	\$ 19	9,658,030	\$ 4,789,50	8 ■ 80% Federal + 20% Non-Federal

► Section 1A / Fiscal Constraint Analysis

Section 1A instructions; MPO Template Name) Choose Regional Name from dropdown list to populate header and MPO column; Column C) Enter ID from Projectinfo; Column E) Choose Municipality Name from dropdown list; Column H) Choose the Funding Source being used for the project - if multiple funding sources are being used enter multiple lines; Column I) Enter the total amount of funds being programmed in this fiscal year and for each funding source; Column J) Federal funds autocalculates. Please verify the amount and only change if needed for flex. Column K) Non-federal funds autocalculates. Please verify the split/match - if matching

Total Regional Federal Aid	Funds Programmed ►	\$	24,447,538	\$:		▼Total Budget	\$ 407,709	Target Funds
pulate header and MPO column; blumn H) Choose the Funding olumn I) Enter the total amount of	STP programmed ► HSIP programmed ►				900,000			
nutocalculates. Please verify the rify the split/match - if matching	CMAQ programmed ► TAP programmed ►	_	, ,	_	1,909,504 380,070			

► Section 1B / Earmark or Discretionary Grant Funded Projects

► Other Federal Aid

AMENDMENT:Add Project	Roadway Reconstruction	609429	Pioneer Valley	Palmer	PALMER- WARE- RESURFACING OF ROUTE 32	2	HPP	\$ 3,204	4,720	2,563,776	\$ 640,944	Repurposed Earmark MA 117
AMENDMENT:Add Project	Roadway Reconstruction	PV0002	Pioneer Valley	Longmeadow	LONGMEADOW - Rehabilitate Pondside Rd, a section of Tina Lane including a gravel parking area, replace 2 culverts		Other FA	\$ 2,260	0,000	1,808,000	\$ 452,000	FLAP Funding
Other Federal Aid subtota						Aid subtotal ▶	\$ 2,260	0,000	\$ 1,808,000	\$ 452,000	■ Funding Split Varies by Funding Source	

2019 Pioneer Valley Region Transportation Improvement Program

Amendment / Adjustment Type ▼	STIP Program ▼	MassDOT Project ID ▼	Metropolitan Planning Organization ▼	Municipality Name ▼	MassDOT Project Description▼	MassDOT District ▼		Total Programn Funds ▼		ederal unds ▼	Non-Federal Funds ▼	Present information ▼ Present information as follows, if applicable: a) Planning / Design / or Construction; b) total project co
Section 2A / State I	Driewitimed Delic	hility Dynings	•		Description •			runas V				and funding sources used: c) advance construction
Section 2A / State I	Prioritized Relia	ability Project	S									
► Bridge Program / I	nspections											
	Bridge Program		Pioneer Valley		Bridge Inspection			\$	- 9		\$ -	
					Bridge Progr	ram / Inspect	tions subtotal ▶	\$	- \$	-	\$ -	■ Funding Split Varies by Funding Source
► Bridge Program / C	Off Systom											
P Bridge Program / C	Jii-Systeiii				MIDDLEFIELD- BRIDGE SUPERSTRUCTURE							
	Bridge Program	608429	Pioneer Valley		REPLACEMENT, M-19-010, CHESTER ROAD OVER SMART BROOK	1	STP-BR-OFF	\$ 970	807	776,645	\$ 194,162	
					Bridge Progr	ram / Off-Sys	stem subtotal >	\$ 970,	07	776,645	\$ 194,162	■ 80% Federal + 20% Non-Federal
► Bridge Program / C	n-System (NHS	2)										
P Bridge i Togram / C	Bridge Program		Pioneer Valley		Bridge Program / On-System (NHS)	1			9	-	\$ -	
					Bridge Program / O	n-System (N	NHS) subtotal ▶	\$	- \$	-	\$ -	■ Funding Split Varies by Funding Source
► Bridge Program / C			D:\/-!!-	1	Deider December (On Contract (New No. 10)	1	1	•	4		\$ -	
	Bridge Program		Pioneer Valley		Bridge Program / On-System (Non-NHS) Bridge Program / On-Sy	stem (Non-N	JHS) subtotal ▶	\$	- 9		Ψ	■ 80% Federal + 20% Non-Federal
					Shage Fragram / On-Oy			1 *	1 4	•	17	1 1 1 7 7 8 3 5 G 1 1 2 7 7 1 1 0 1 1 1 0 4 0 1 d 1
► Bridge Program / S	ystematic Mair	ntenance										
	Bridge Program	608928	Pioneer Valley	Huntington	HUNTINGTON- SYSTEMATIC BRIDGE MAINTENANCE, H-27-019, ROUTE 112 OVER SYKES BROOK	1	NHPP-Off	\$ 526	506	421,205	\$ 105,301	
ADJUSTMENT:Change Funding Source	Bridge Program	608251	Pioneer Valley	Holyoke	HOLYOKE- SYSTEMATIC BRIDGE MAINTENANCE ON H-21-047 AND H-21-049	2	NHPP-On	\$ 1,989	000 \$	1,591,200	\$ 397,800	
					Bridge Program / Systema	atic Mainten	ance subtotal ▶	\$ 1,989,0	000	1,591,200	\$ 397,800	■ Funding Split Varies by Funding Source
►Interstate Pavemer	**											
Finiter State Paverner	Interstate				CHICOPEE- HOLYOKE- INTERSTATE						1.	
	Pavement	607560	Pioneer Valley	Multiple	MAINTENANCE AND RELATED WORK ON I-	2	NHPP	\$ 11,309,		10,178,888		
					Inste	erstate Paver	ment subtotal >	\$ 11,309,	75	10,178,888	\$ 1,130,988	■ 90% Federal + 10% Non-Federal
► Non-Interstate Pav	ement											
P Non-interstate r av	Non-Interstate	007474	D: V !!	NA 101 1	GRANBY- SOUTH HADLEY- RESURFACING		AU IDD	A 5.750	-00	1 000 000		
	Pavement	607474	Pioneer Valley	Multiple	AND RELATED WORK ON ROTUE 202	2	NHPP	\$ 5,752,		, , , , , , , , ,		
					Non-Inte	erstate Paver	ment subtotal >	\$ 5,752,	00	4,602,000	\$ 1,150,500	■ 80% Federal + 20% Non-Federal
► Roadway Improve	monte											
- Roadway improve	Roadway								1.			
	Improvements		Pioneer Valley		Roadway Improvements			\$	- 9	-	\$ -	
					Roadwa	ay Improvem	ents subtotal ▶	\$	- 9	-	\$ -	■ 80% Federal + 20% Non-Federal
► Cafatu Immua:::::::	-4-											
► Safety Improveme	nts			1	CHICOPEE- SIGNAL & INTERSECTION		1					
	Safety Improvements	607736	Pioneer Valley	Chicopee	IMPROVEMENTS AT 13 INTERSECTIONS ALONG ROUTE 33 (MEMORIAL DRIVE), FROM FULLER ROAD TO ABBEY STREET	2	HSIP	\$ 6,001,	387 \$	5,401,248	\$ 600,139	
	Safety Improvements	608600	Pioneer Valley	Multiple	CHICOPEE- WEST SPRINGFIELD- HIGHWAY LIGHTING UPGRADE ON I-91	2	NHPP	\$ 4,300,	759 \$	3,440,607	\$ 860,152	
	""hiovements		1			ty Improvem	ients subtotal ▶	\$ 10,302,	46	8,841,855	\$ 1,460,291	■ Funding Split Varies by Funding Source
						-			,		•	
► Section 2B / State	Prioritized Mod	ernization Pro	ojects									
► ADA Retrofits												
, , SA NOLIONIO	ADA Retrofits		Pioneer Valley		ADA Retrofits			\$	- 9	-	\$ -	
-												

Amendment / Adjustment Type ▼	STIP	MassDOT	Metropolitan	Municipality	MassDOT	MassDOT Funding	_	otal	Feder		Non-Federal	Additional Information ▼ Present information as follows, if applicable: a)
Adjustment Type ▼	Program ▼	Project ID ▼	Planning Organization ▼	Name ▼	Project Description▼	District ▼ Source ▼		rogrammed unds ▼	Funds	5 ▼	Funds ▼	Planning / Design / or Construction; b) total project of and funding sources used: c) advance construction
		<u>'</u>		"	· · ·	ADA Retrofits subtotal I			\$	-	\$ -	■ 80% Federal + 20% Non-Federal
►Intersection Impro	vements						—					
	Intersection Improvements		Pioneer Valley		Intersection Improvements		\$	-	\$		\$ -	
	improvements				Intersection	on Improvements subtotal I	▶ \$	-	\$	-	\$ -	■ Funding Split Varies by Funding Source
►Intelligent Transpo	ertation Evator											
►intelligent Transpo	Intelligent	is					\top					
	Transportation Systems		Pioneer Valley		Intelligent Transportation Systems		\$	-	\$	-	\$ -	
		"		II.	Intelligent Trans	portation System subtotal I	▶ \$	-	\$	-	\$ -	■ 80% Federal + 20% Non-Federal
► Roadway Reconst	ruction						—					
	Roadway	608790	Pioneer Valley	Holyoke	HOLYOKE- IMPROVEMENTS AT KELLY	2 TAP	\$	1,264,935	\$ 1	,011,948	\$ 252,987	,
	Reconstruction		-	-	COMMUNITY SCHOOL (SRTS) NORTHAMPTON- ROUNDABOUT		_					
	Roadway Reconstruction	606555	Pioneer Valley	Northampton	CONSTRUCTION AT INTERSECTION ROUTES 5/10 (NORTH KING STREET) & HATFIELD STREET	2 CMAQ	\$	4,109,480	\$ 3	,287,584	\$ 821,896	×
			1	1	Roadwa	y Reconstruction subtotal I	▶ \$	5,374,415	\$ 4,2	299,532	\$ 1,074,883	■ Funding Split Varies by Funding Source
	-tulo no											
AMENDMENT:Increase		603783	Pioneer Valley	Westfield	WESTFIELD- COLUMBIA GREENWAY RAIL TRAIL CONSTRUCTION (CENTER DOWNTOWN SECTION), FROM EAST SILVER STREET TO COWLES COURT, INCLUDES W- 25,014, W-25-015, W-25-016, W-25-017, W-25- 018 & W-25-019	Z CMAQ					\$ 1,494,874	from \$6,532,895
AMENDMENT:Increase	Bicycles and	603783	Pioneer Valley	Westfield	TRAIL CONSTRUCTION (CENTER DOWNTOWN SECTION), FROM EAST SILVER STREET TO COWLES COURT, INCLUDES W-25,014, W-25-015, W-25-016, W-25-017, W-25-018 & W-25-019	Z CMAQ						
AMENDMENT:Increase Cost	Bicycles and Pedestrians	603783	,	Westfield	TRAIL CONSTRUCTION (CENTER DOWNTOWN SECTION), FROM EAST SILVER STREET TO COWLES COURT, INCLUDES W-25,014, W-25-015, W-25-016, W-25-017, W-25-018 & W-25-019 Bicycles	Z CMAQ	> \$	7,474,369	\$ 5,9	979,495	\$ 1,494,874	from \$6,532,895 ■ 80% Federal + 20% Non-Federal
AMENDMENT:Increase Cost	Bicycles and	603783	Pioneer Valley	Westfield	TRAIL CONSTRUCTION (CENTER DOWNTOWN SECTION), FROM EAST SILVER STREET TO COWLES COURT, INCLUDES W-25,014, W-25-015, W-25-016, W-25-017, W-25-018 & W-25-019	Z CMAQ	▶ \$	7,474,369	\$ 5,9	979,495	\$ 1,494,874	from \$6,532,895 ■ 80% Federal + 20% Non-Federal
AMENDMENT:Increase Cost ► Capacity	Bicycles and Pedestrians		Pioneer Valley	Westfield	TRAIL CONSTRUCTION (CENTER DOWNTOWN SECTION), FROM EAST SILVER STREET TO COWLES COURT, INCLUDES W-25,014, W-25-015, W-25-016, W-25-017, W-25-018 & W-25-019 Bicycles	and Pedestrians subtotal I	▶ \$	7,474,369	\$ 5,9	979,495	\$ 1,494,874 \$ -	■ 80% Federal + 20% Non-Federal
AMENDMENT:Increase Cost Cost Capacity Section 3 / Planning	Bicycles and Pedestrians Capacity Gapacity	s / Pass-throu	Pioneer Valley	Westfield	TRAIL CONSTRUCTION (CENTER DOWNTOWN SECTION), FROM EAST SILVER STREET TO COWLES COURT, INCLUDES W-25,014, W-25-015, W-25-016, W-25-017, W-25-018 & W-25-019 Bicycles	and Pedestrians subtotal I	▶ \$	7,474,369	\$ 5,9	979,495	\$ 1,494,874 \$ -	from \$6,532,895 ■ 80% Federal + 20% Non-Federal
AMENDMENT:Increase Cost Cost Capacity Section 3 / Planning	Bicycles and Pedestrians Capacity Gapacity	s / Pass-throu	Pioneer Valley	Westfield	TRAIL CONSTRUCTION (CENTER DOWNTOWN SECTION), FROM EAST SILVER STREET TO COWLES COURT, INCLUDES W- 25,014, W-25-015, W-25-016, W-25-017, W-25- 018 & W-25-019 Bicycles Capacity	and Pedestrians subtotal I Capacity subtotal I	▶ \$ \$ ▶ \$	7,474,369	\$ 5,9	979,495	\$ 1,494,874 \$ - \$ -	from \$6,532,895 ■ 80% Federal + 20% Non-Federal
► Bicycles and Pede AMENDMENT:Increase Cost ► Capacity ► Section 3 / Plannin ► Planning / Adjustn	Bicycles and Pedestrians Capacity Gapacity	s / Pass-throu	Pioneer Valley	Westfield	TRAIL CONSTRUCTION (CENTER DOWNTOWN SECTION), FROM EAST SILVER STREET TO COWLES COURT, INCLUDES W- 25,014, W-25-015, W-25-016, W-25-017, W-25- 018 & W-25-019 Bicycles Capacity ABP GANS Repayment	and Pedestrians subtotal I	▶ \$ \$ \$ \$	7,474,369	\$ 5,9	979,495 - -	\$ 1,494,874 \$ - \$ -	from \$6,532,895 ■ 80% Federal + 20% Non-Federal ■ Funding Split Varies by Funding Source
AMENDMENT:Increase Cost Cost Capacity Section 3 / Plannin Planning / Adjustn	Bicycles and Pedestrians Capacity Capac	s / Pass-throughs	Pioneer Valley	Westfield	TRAIL CONSTRUCTION (CENTER DOWNTOWN SECTION), FROM EAST SILVER STREET TO COWLES COURT, INCLUDES W- 25,014, W-25-015, W-25-016, W-25-017, W-25- 018 & W-25-019 Bicycles Capacity ABP GANS Repayment	and Pedestrians subtotal I Capacity subtotal I	▶ \$ \$ \$ \$	7,474,369	\$ 5,9	979,495 - -	\$ 1,494,874 \$ - \$ -	from \$6,532,895 ■ 80% Federal + 20% Non-Federal ■ Funding Split Varies by Funding Source
AMENDMENT:Increase Cost ► Capacity ► Section 3 / Plannin ► Planning / Adjustn ► Section 4 / Non-Fe	Bicycles and Pedestrians Capacity Capac	s / Pass-throughs	Pioneer Valley	Westfield	TRAIL CONSTRUCTION (CENTER DOWNTOWN SECTION), FROM EAST SILVER STREET TO COWLES COURT, INCLUDES W- 25,014, W-25-015, W-25-016, W-25-017, W-25- 018 & W-25-019 Bicycles Capacity ABP GANS Repayment	and Pedestrians subtotal I Capacity subtotal I	▶ \$ \$ \$ \$	7,474,369	\$ 5,9	979,495 - -	\$ 1,494,874 \$ - \$ -	from \$6,532,895 ■ 80% Federal + 20% Non-Federal ■ Funding Split Varies by Funding Source
AMENDMENT:Increase Cost ► Capacity ► Section 3 / Plannin ► Planning / Adjustn ► Section 4 / Non-Fe	Bicycles and Pedestrians Capacity Capac	s / Pass-throughs	Pioneer Valley ghs Pioneer Valley	Westfield	TRAIL CONSTRUCTION (CENTER DOWNTOWN SECTION), FROM EAST SILVER STREET TO COWLES COURT, INCLUDES W- 25,014, W-25-015, W-25-016, W-25-017, W-25- 018 & W-25-019 Bicycles Capacity ABP GANS Repayment Other	and Pedestrians subtotal I Capacity subtotal I	S S S S S S S S S S		\$ 5,9	979,495 - -	\$ 1,494,874 \$ - \$ - \$ -	from \$6,532,895 ■ 80% Federal + 20% Non-Federal ■ Funding Split Varies by Funding Source
AMENDMENT:Increase Cost Cost Capacity Section 3 / Plannin Planning / Adjustn Section 4 / Non-Fe	Bicycles and Pedestrians Capacity Capac	s / Pass-throughs	Pioneer Valley Pioneer Valley Pioneer Valley	Westfield	TRAIL CONSTRUCTION (CENTER DOWNTOWN SECTION), FROM EAST SILVER STREET TO COWLES COURT, INCLUDES W- 25,014, W-25-015, W-25-016, W-25-017, W-25- 018 & W-25-019 Bicycles Capacity ABP GANS Repayment Other Non-Federal Aid	and Pedestrians subtotal I Capacity subtotal I	S	7,474,369	\$ 5,9	979,495 - -	\$ 1,494,874 \$ - \$ - \$ - \$ -	from \$6,532,895 ■ 80% Federal + 20% Non-Federal ■ Funding Split Varies by Funding Source
AMENDMENT:Increase Cost ► Capacity ► Section 3 / Plannin ► Planning / Adjustn ► Section 4 / Non-Fe	Capacity	s / Pass-throughs	Pioneer Valley ghs Pioneer Valley	Westfield	TRAIL CONSTRUCTION (CENTER DOWNTOWN SECTION), FROM EAST SILVER STREET TO COWLES COURT, INCLUDES W- 25,014, W-25-015, W-25-016, W-25-017, W-25- 018 & W-25-019 Bicycles Capacity ABP GANS Repayment Other	and Pedestrians subtotal I Capacity subtotal I Multiple r Statewide Items subtotal I	S S S S S S S S S S	7,474,369	\$ 5,9	979,495 - -	\$ 1,494,874 \$ - \$ - \$ - \$ - \$ -	from \$6,532,895 ■ 80% Federal + 20% Non-Federal ■ Funding Split Varies by Funding Source ■ Funding Split Varies by Funding Source
AMENDMENT:Increase Cost Cost Capacity Section 3 / Plannin Planning / Adjustn Section 4 / Non-Fe Non-Federally Aid	Capacity Capacity Capacity Capacity Capacity Capacity Capacity Capacity Capacity Adjustment Ments / Pass-thr Capacity Aided Projects Non-Federally Aided Projects	s / Pass-throughs	Pioneer Valley Pioneer Valley Pioneer Valley	Westfield	TRAIL CONSTRUCTION (CENTER DOWNTOWN SECTION), FROM EAST SILVER STREET TO COWLES COURT, INCLUDES W- 25,014, W-25-015, W-25-016, W-25-017, W-25- 018 & W-25-019 Bicycles Capacity ABP GANS Repayment Other Non-Federal Aid	and Pedestrians subtotal I Capacity subtotal I	S S S S S S S S S S		\$ 5,1		\$ 1,494,874 \$ - \$ - \$ - \$ - \$ - \$ -	from \$6,532,895 ■ 80% Federal + 20% Non-Federal
AMENDMENT:Increase Cost ► Capacity ► Section 3 / Plannin ► Planning / Adjustn ► Section 4 / Non-Fe	Capacity Capacity Capacity Capacity Capacity Capacity Capacity Capacity Capacity Adjustment Ments / Pass-thr Capacity Aided Projects Non-Federally Aided Projects	s / Pass-throughs	Pioneer Valley Pioneer Valley Pioneer Valley	Westfield	TRAIL CONSTRUCTION (CENTER DOWNTOWN SECTION), FROM EAST SILVER STREET TO COWLES COURT, INCLUDES W- 25,014, W-25-015, W-25-016, W-25-017, W-25- 018 & W-25-019 Bicycles Capacity ABP GANS Repayment Other Non-Federal Aid	and Pedestrians subtotal I Capacity subtotal I Multiple r Statewide Items subtotal I	S S S S S S S S T	7,474,369	\$ 5,1		\$ 1,494,874 \$ - \$ - \$ - \$ - Total of All	from \$6,532,895 ■ 80% Federal + 20% Non-Federal ■ Funding Split Varies by Funding Source ■ Funding Split Varies by Funding Source
AMENDMENT:Increase Cost Cost Capacity Section 3 / Plannin Planning / Adjustn Section 4 / Non-Fe Non-Federally Aid	Capacity Capacity Capacity Capacity Capacity Capacity Capacity Capacity Capacity Adjustment Ments / Pass-thr Capacity Aided Projects Non-Federally Aided Projects	s / Pass-throughs	Pioneer Valley Pioneer Valley Pioneer Valley	Westfield	TRAIL CONSTRUCTION (CENTER DOWNTOWN SECTION), FROM EAST SILVER STREET TO COWLES COURT, INCLUDES W- 25,014, W-25-015, W-25-016, W-25-017, W-25- 018 & W-25-019 Bicycles Capacity ABP GANS Repayment Other Non-Federal Aid	and Pedestrians subtotal I Capacity subtotal I Multiple Statewide Items subtotal I Non-Federal Aid subtotal I	S S S S S S S S S S	7,474,369	\$ 5,5		\$ 1,494,874 \$ - \$ - \$ - \$ - Total of All Projects \(\text{Projects} \)	from \$6,532,895 ■ 80% Federal + 20% Non-Federal ■ Funding Split Varies by Funding Source ■ Funding Split Varies by Funding Source

2019 Pioneer Valley Region Transportation Improvement Program

Amendment / Adjustment Type ▼	-	MassDOT Project ID ▼	 Municipality Name ▼	MassDOT Project Description ▼	MassDOT District ▼	Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	Funds ▼	Additional Information ▼ Present information as follows, if applicable: a) Planning / Design / or Construction; b) total project cost and funding sources used: c) advance construction
					Non-F	ederal Funds >	\$ 12,145,005	\$ -	\$ 12,145,005	■ Total Non-Federal Spending in Region

⁷⁰¹ CMR 7.00 Use of Road Flaggers and Police Details on Public Works Projects / 701 CMR 7.00 (the Regulation) was promulgated and became law on October 3, 2008. Under this Regulation, the CMR is applicable to any Public works Project that is performed within the limits of, or that impact traffic on, any

PERFORMANCE MEASURES

The FAST Act requires MPOs, in collaboration with the state DOT and transit agencies, to formally establish targets for performance measures aligned with the national goals. Performance Based Planning and Programming (PBPP) refers to the application of performance management within the parameters of the FAST Act to achieve desired outcomes for the multimodal transportation system. It is intended advance transportation investments based on their ability to meet established goals. This includes setting targets for the performance measures identified in the FAST Act.

Performance measures are intended to monitor and track performance over time and assess the effectiveness of projects and strategies in meeting the national goal areas. In the Pioneer Valley region, performance based planning methods have been used in the development of the Transportation Evaluation Criteria to program projects as part of the Regional Transportation Improvement Program for many years.

USDOT implemented the federal PBPP requirements through a series of phased rulemakings. At the conclusion of this rulemaking process, the Commonwealth of Massachusetts has twelve months to establish statewide performance targets for each required federal performance measure. The Pioneer Valley MPO has 180 days from the date of Commonwealth's adoption of the statewide performance targets to either adopt the statewide targets or establish their own regional performance targets.

The Federal Transit Administration has finalized a rule to define requirements for transit asset management. This rule requires public transportation providers to develop and implement transit asset management (TAM) plans. TAM plans must include an asset inventory, condition assessments of inventoried assets, and a prioritized list of investments to improve the state of good repair of capital assets. This rule also establishes state of good repair standards and four state of good repair performance measures.

Table 1 Regional Performance Measure Status

Final Rule	Effective Date	Status	Updated
Safety Performance Measures (PM1)	April 14, 2016	MPO adopted state targets on February 26, 2019	Annually
Pavement/Bridge Performance Measures (PM2)	May 20, 2017	MPO adopted state targets on October 23, 2018	Every Two Years
System Performance Measures (PM3)	May 20, 2017	MPO adopted state targets on September 25, 2018	Every Two Years
Transit Asset Management Plan (TAM)	July 26, 2016	March 26, 2019	Every Four Years

As can be seen from the above table, the Pioneer Valley MPO has elected to adopt the State performance targets for PM1, PM2 and PM3. The MPO will continue to work in close collaboration with the PVTA to incorporate their TAM performance targets in to the regional transportation planning process. The UPWP includes specific tasks to support the performance based planning and programming for the Pioneer Valley MPO. The latest performance target for each adopted performance measure is presented in the following section.

SAFETY PERFORMANCE MEASURES (PM1)

Pioneer Valley has chosen to adopt the statewide safety performance measure targets set by MassDOT for Calendar Year (CY) 2019. In setting these targets, MassDOT has followed FHWA guidelines by using statewide crash data and Highway Performance Monitoring System (HPMS) data for vehicle miles traveled (VMT) in order to calculate 5 year, rolling average trend lines for all FHWA-defined safety measures. For CY 2019 targets, four of the five safety measures—total number of fatalities, rate of fatalities per 100 million vehicle miles traveled, total number of incapacitating injuries, and rate of incapacitating injuries per 100 million VMT—were established by extending their trend lines into the 2015-2019 period. All four of these measures reflect a modest decrease in statewide trends. The fifth safety measure, the total number of combined incapacitating injuries and fatalities for non-motorized modes, is the only safety measure for which the statewide trend line depicts an increase. MassDOT's effort to increase non-motorized mode share throughout the Commonwealth has posed a challenge to simultaneously reducing non-motorized injuries and fatalities. Rather than adopt a target that depicts an increase in the trend line, MassDOT has elected to establish a target of non-motorized fatalities and injuries and for CY 2019 that remains constant from the rolling average for 2012-2016. In recent years, MassDOT and the Pioneer Valley have invested in "complete streets," bicycle and pedestrian infrastructure, intersection and safety improvements in both the Capital Investment Plan (CIP) and Statewide Transportation Improvement Program (STIP) to address increasing mode share and to incorporate safety mitigation elements into projects. Moving forward, Pioneer Valley, alongside MassDOT, is actively seeking to improve data collection and methodology for bicycle and pedestrian VMT counts and to continue analyzing crash clusters and crash counts that include both motorized and non-motorized modes in order to address safety issues at these locations.

In all safety categories, MassDOT has established a long-term target of "Toward Zero Deaths" through MassDOT's Performance Measures Tracker¹ and will be establishing safety targets for the MPO to consider for adoption each calendar year. While the MPO is not required by FHWA to report on annual safety performance targets, FHWA guidelines require MPOs to adopt MassDOT's annual targets or to establish their own each year.

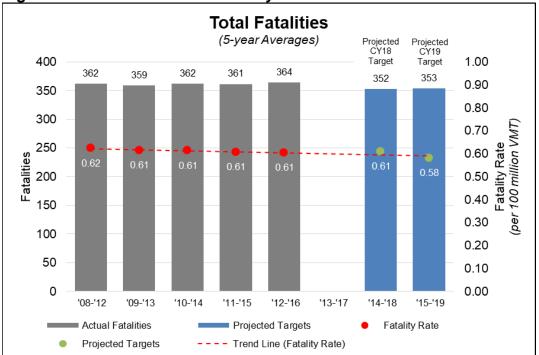
The safety measures MassDOT has established for CY 2019, and that Pioneer Valley has adopted, are as follows:

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¹ https://www.mass.gov/lists/tracker-annual-performance-management-reports

1) Fatalities: The target number of fatalities for years CY 2019 is 353, down from an average of 364 fatalities for the years 2012–2016. [See Figure 1 for Our MPO vs. statewide comparison of the trend for this performance measure]

Figure 1 Total Fatalities and Fatality Rate



- 2) Rate of Fatalities per 100 million VMT: The target fatality rate for years CY 2019 is 0.58, down from a 0.61 average for years 2012–2016. [See Figure 1 for Our MPO vs. statewide comparison of the trend for this performance measure]
- 3) Serious Injuries: The target number of incapacitating injuries for CY2019 is 2801, down from the average of 3146 for years 2012–2016. [See Figure 2 for Our MPO vs. statewide comparison of the trend for this performance measure]

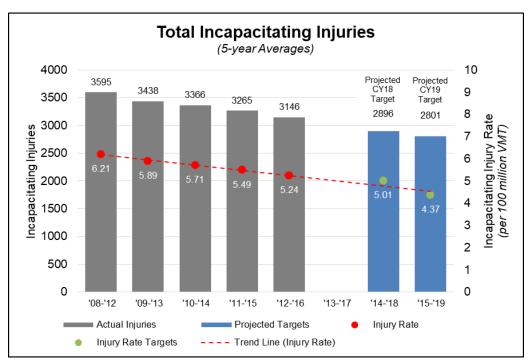


Figure 2 Total Incapacitating Injuries and Injury Rate

4) Rate of Incapacitating Injuries per 100 million VMT: The incapacitating injury rate target for CY2019 is 4.37 per year, down from the 5.24 average rate for years 2012–2016. [See Figure 2 for Our MPO vs. statewide comparison of the trend for this performance measure]

BRIDGE & PAVEMENT PERFORMANCE MEASURES (PM2)

Pioneer Valley has chosen to adopt the 2-year (2020) and 4-year (2022) statewide bridge and pavement performance measure targets set by MassDOT. MassDOT was required to adopt a statewide target by May 20th, 2018, with MPOs either adopting the statewide target or establishing their own by November 2018. In setting these targets, MassDOT has followed FHWA guidelines by measuring bridges and pavement condition using the 9-point National Bridge Inventory Standards (NBIS); the International Roughness Index (IRI); the presence of pavement rutting; and the presence of pavement cracking. 2-year and 4-year targets were set for six individual performance measures: percent of bridges in good condition; percent of bridges in poor condition; percent of Interstate pavement in good condition; percent of Interstate pavement in good condition; and percent of non-Interstate pavement Plan (TAMP), which is due to be finalized in July 2019.

Targets for bridge-related performance measures were determined by identifying which bridge projects are programmed and projecting at what rate bridge conditions deteriorate. The bridge-related performance measures measure the percentage of deck area, rather than the total number of bridges.

Performance targets for pavement-related performance measures were based on a single year of data collection, and thus were set to remain steady under the guidance of FHWA. These measures are to be revisited at the 2-year mark (2020), once three years of data are available, for more informed target setting.

MassDOT continues to measure pavement quality and to set statewide short-term and long-term targets in the MassDOT Performance Management Tracker using the Pavement Serviceability Index (PSI), which differs from IRI. These measures and targets are used in conjunction with federal measures to inform program sizing and project selection.

Performance Measure	Current (2017)	2-year target (2020)	4-year target (2022)
Bridges in good condition	15.22%	15%	16%
Bridges in poor condition	12.37%	13%	12%
Interstate Pavement in good condition	74.2%	70%	70%
Interstate Pavement in poor condition	0.1%	4%	4%
Non-Interstate Pavement in good condition	32.9%	30%	30%
Non-Interstate Pavement in poor condition	31.4%	30%	30%

RELIABILITY, CONGESTION, & EMISSIONS PERFORMANCE MEASURES (PM3)

Pioneer Valley has chosen to adopt the 2-year (2020) and 4-year (2022) statewide reliability, congestion, and emissions performance measure targets set by MassDOT. MassDOT was required to adopt a statewide target by May 20th, 2018, with MPOs either adopting the statewide target or establishing their own by November 2018.

MassDOT followed FHWA regulation in measuring Level of Travel Time Reliability (LOTTR) on both the Interstate and non-Interstate NHS as well as Truck Travel Time Reliability (TTTR) on the Interstate system using the National Performance Management Research Dataset (NPMRDS) provided by FHWA. These performance measures aim to identify the predictability of travel times on the roadway network by comparing the average travel time along a given segment against longer travel times. For LOTTR, the performance of all segments of the Interstate and of the non-Interstate NHS are defined as either reliable or unreliable based on a comparison between the 50th percentile travel time and the 80th percentile travel time, and the proportion of reliable segments is reported. For TTTR, the ratio between the 50th percentile travel time and the 90th percentile travel time for trucks only along the Interstate system is reported as a statewide measure. As this data set has but one year of consistent data, FHWA guidance has been to set conservative targets and to adjust future targets once more data becomes available. To that end, MassDOT's reliability performance targets are set to remain the same.

Emissions reduction targets are measured as the sum total of all emissions reductions anticipated through CMAQ-funded projects in non-attainment or air quality maintenance areas (currently the cities of Lowell, Springfield, Waltham, and Worcester, and the town of Oak Bluffs) identified in the Statewide Transportation Improvement Program (STIP). This anticipated emissions reduction is calculated using the existing CMAQ processes.

Measure	Current (2017)	2-year (2020)	4-year (2022)
Non-Interstate LOTTR	80%	80%	80%
Interstate LOTTR	68%	68%	68%
TTTR	1.85	1.85	1.85

PHED (Boston UZA)	18.31	18.31	18.31
% non-SOV (Boston UZA)	33.6% (2016)	34.82%	35.46%
Emissions Reductions	Baseline (FFY 14–	1,622 CO	TBD CO
	17)	497.9 Ozone	(Springfield)
			1.1 Ozone

TRANSIT ASSET MANAGEMENT PLAN (TAM)

The Federal Transit Administration (FTA) defines transit asset management as a strategic and systematic process through which an organization procures, operates, maintains, rehabilitates, and replaces transit assets to manage their performance, risks, and costs over their lifecycle to provide cost-effective, reliable, and safe service to current and future customers.

As part of the Moving Ahead for Progress in the 21st Century (MAP-21) Act and the subsequent Fixing America's Surface Transportation (FAST) ACT, the FTA enacted regulations for transit asset management that require transit service providers to establish asset management performance measures and targets and to develop a TAM Plan. The final TAM rule was published on July 26, 2016 and went into effect on October 1, 2016.

The Pioneer Valley Transit Authority (PVTA) manages a range of assets that include a fleet of heavy duty transit buses, paratransit vehicles, support vehicles, and nine facilities, plus other capital assets required to support operations across a service territory encompassing 24 communities. PVTA recognizes that an effective approach to asset management incorporates the people, processes, technology, data and information and continual improvement needed to support better management of assets over their entire lifecycle. PVTA has developed the following TAM Plan as a roadmap to systematically identify and address assets and asset management practices in need of improvement; establish a benchmark for where their inventory and policies stand; identify gaps in their practice; establish new, measurable key performance indicators and use a data-driven approach to achieve its goals.

PVTA has developed this TAM plan, not as an end, but instead as the beginning of an on-going effort to develop and integrate asset management practices throughout the entire organization. Over the coming years PVTA plans to continue to build upon this foundation and will work to implement successful and effective policies, practices and processes that reinforce and complement the goals and objectives outlined in the TAM plan. PVTA therefore expects that this TAM plan will be a living document that is updated annually.

Rule	Performance Measure	State Target
TAM	Percent of revenue vehicles by asset class	Articulated Bus = 0%, Bus = 20%, Minibus
	that have met or exceeded their Useful	= 100%, Cutaway Bus = 25%, Minivan =
	Life Benchmark (ULB)	30%, Trolleybus = 100%
TAM	Percent of vehicles that have met or	Automobiles = 25%
	exceeded their Useful Life Benchmark	Trucks and other Rubber Tire Vehicles =
	(ULB)	25%
TAM	Percent of facilities with a condition rating	Administrative and Maintenance = 25%
	below 3.0 on the FTA Transit Economic	Passenger and Parking = 0%
	Requirements Model (TERM) Scale	

Performance Measure Linked Investments

Insert Table showing project investment and corresponding PM