

# DVRPC FY 2015-2018 TIP for PA

Final Version

## Pennsylvania - Highway Program (Status: TIP)

### Various

MPMS# 17876 Road/Resurfacing/Rehabilitation

Return

LIMITS Region-wide

No Let Date

IMPROVEMENT Roadway Rehabilitation

MUNICIPALITIES: Various

FC:

AQ Code:S10

PLANNING AREA:

IPD:

PROJECT MANAGER: CMP: Not SOV Capacity Adding

Typical components of a '3R' (Road/Resurfacing/Rehabilitation) project include base repair, milling, overlay, resurfacing, drainage improvements, signal modernization, and guiderail improvements. The intent of a '3R' project is to make whatever improvements are necessary to bring the road up to current standards. Project dollars will be drawn down as needed for individual projects.

TOLL CREDIT

This project now programs funds and work previously included in the Preventive Maintenance Line Item #57622.

		TIP Program Years (\$ 000)											
Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
CON	581						4,632						
CON	STP							2,881					
CON	581							5,320					
CON	STP								12,000				
CON	STU								7,841				
CON	581								9,319				
CON	STU									13,278			
CON	581									3,680			
		0	0	0	0	0	4,632	8,201	29,160	16,958	0	0	0
		Total FY2015-2018				0	Total FY2019-2022				Total FY2023-2026		16,958

MPMS# 17891 RideECO Mass Marketing Efforts SR:0000

LIMITS Region-wide

No Let Date

IMPROVEMENT Other

MUNICIPALITIES: Various

FC:

AQ Code:NRS

PLANNING AREA:

IPD:

PROJECT MANAGER: CMP: Not SOV Capacity Adding

This project will fund marketing materials and broad-based promotions, such as mass-market media efforts, a holiday gift certificate program, employee incentives for program implementation by their employer, and a direct mail effort to businesses, in order to increase RideECO sales.

		TIP Program Years (\$ 000)											
Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
PRA	CAQ	160											
PRA	LOC	40											
PRA	CAQ		200										
PRA	LOC		50										
		200	250	0	0	0	0	0	0	0	0	0	0
		Total FY2015-2018				450	Total FY2019-2022				Total FY2023-2026		0

# DVRPC FY 2015-2018 TIP for PA

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Pennsylvania - Highway Program (Status: TIP)

## Various

MPMS# 17900 Mobility Alternatives Program (MAP)/Share a Ride Program (SAR)/(HER)

LIMITS Region-wide

No Let Date

IMPROVEMENT Other

MUNICIPALITIES: Various

FC:

AQ Code:A1

PLANNING AREA:

IPD:

PROJECT MANAGER:

CMP: Not SOV Capacity Adding

These congestion mitigation efforts cover administration, business outreach efforts by contracted agencies, and the marketing of the Mobility Alternatives Program (MAP), the Share a Ride Program (SAR), and the Emergency Ride Home Program (ERH). Geared to employers, MAP is an outreach and education program overseen by DVRPC to provide information to employers and commuters about options to the single occupant auto for commuting to work. Most of the MAP contractors have the same work program, and the uniform marketing materials are created and produced by DVRPC. SAR is a computerized ride matching program available to all commuters with jobs in the DVRPC region. The system provides all available transit options to the applicant before any potential car or vanpool matches. SAR is a matching system only; once match information is provided to applicants, the individuals are responsible for making mutually-agreeable arrangements on their own. To complement SAR, the Emergency Ride Home Program makes rental-car or taxi transportation available in emergency situations.

Funds are allocated accordingly:\$200,800 CAQ/\$50,200 Cash Match for DVRPC UPWP; \$51,760 CAQ to each of the 5 regional TMA's; \$120,000 CAQ to SEPTA; \$62,200 to City of Philadelphia/Clean Air Council.

		TIP Program Years (\$ 000)											
Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
PRA	CAQ	644											
PRA	581	50											
PRA	LOC	109											
PRA	CAQ		644										
PRA	581		50										
PRA	LOC		109										
PRA	CAQ			644									
PRA	581			50									
PRA	LOC			109									
PRA	CAQ				644								
PRA	581				50								
PRA	LOC				109								
		803	803	803	803	0	0	0	0	0	0	0	0
		Total FY2015-2018		3,212		Total FY2019-2022		0		Total FY2023-2026		0	

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## Pennsylvania - Highway Program (Status: TIP)

### Various

MPMS# 17928 Air Quality Partnership

LIMITS Region-wide

No Let Date

IMPROVEMENT Other

MUNICIPALITIES: Various

FC:

AQ Code:NRS

PLANNING AREA:

IPD:

PROJECT MANAGER:

CMP: Not SOV Capacity Adding

This project will fund forecasting services by the University of Maryland, faxing services, a random telephone survey at the conclusion of the season to determine the penetration of the message, the kickoff event and the printing of promotional literature, and the development and placement of broadcast and print advertising.

#### TIP Program Years (\$ 000)

Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
PRA	CAQ	100											
PRA	LOC	25											
PRA	CAQ		100										
PRA	LOC		25										
		125	125	0	0	0	0	0	0	0	0	0	0
		Total FY2015-2018		250		Total FY2019-2022		0		Total FY2023-2026		0	

MPMS# 48197 CSX Trenton Line Clearance Project

LIMITS Park Junction to Delaware River

No Let Date

IMPROVEMENT Intersection/Interchange Improvements

MUNICIPALITIES: Various

FC:

AQ Code:M9

PLANNING AREA:

IPD: 6

PROJECT MANAGER: MAL/M. LANG

CMP: Not SOV Capacity Adding

err(s): 4A, 4B, 5G, 5H, 5I, 12A, 14A

This project covers the CSX Trenton line, from Park Junction to the Delaware River at Yardley, via West Falls, Newtown Junction, and Woodbourne. Through the Philadelphia region, this rail line does not have adequate vertical clearances to accommodate double stack intermodal cars or tri-level auto racks, preventing full rail utilization for north-south freight moves and causing bottlenecks for area shippers and port facilities.

At approximately 16 locations, raise overhead highway bridges, lower existing tracks, and/or adjust overhead catenary to provide a continuous vertical clearance of 20 feet and 2 inches.

This project received a TEA 21 earmark PA ID#127 for \$5,000,000, a portion of which was used for design work.

This project is integral to the Delaware Valley Freight Corridors initiative.

#### TIP Program Years (\$ 000)

Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
CON	TOLL												
CON	SXF	17											
CON	CAQ	2,702											
		2,719	0	0	0	0	0	0	0	0	0	0	0
		Total FY2015-2018		2,719		Total FY2019-2022		0		Total FY2023-2026		0	

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Pennsylvania - Highway Program (Status: TIP)

## Various

MPMS# 48199 Transportation Management Associations (TMA) SR:0000

LIMITS Region-wide

No Let Date

IMPROVEMENT Other

MUNICIPALITIES: Various

FC:

AQ Code:A1

PLANNING AREA:

IPD:

PROJECT MANAGER:

CMP: Not SOV Capacity Adding

Transportation Management Associations (TMA's) help the region address demand for the region's transportation system. They are public-private partnerships that provide a forum to resolve transportation issues in their service areas. Services include a range of transportation improvement options, including task forces, employer and construction project shuttles, advocacy, and congestion reduction assistance to employers along corridors and in municipalities. TMA's work closely with PennDOT to keep businesses connected and informed about construction projects. Because they actively promote congestion reduction measures and transit use, the TMAs help to lower the need for new highway capacity. Each TMA contractor has a work program tailored to the transportation issues and needs of their constituencies and territories. Work programs are developed collaboratively with PennDOT, DVRPC, and their respective County/City Planning departments.

TIP Program Years (\$ 000)													
Phase	Fund	<u>FY2015</u>	<u>FY2016</u>	<u>FY2017</u>	<u>FY2018</u>	<u>FY2019</u>	<u>FY2020</u>	<u>FY2021</u>	<u>FY2022</u>	<u>FY2023</u>	<u>FY2024</u>	<u>FY2025</u>	<u>FY2026</u>
PRA	CAQ	922											
PRA	LOC	230											
PRA	CAQ		746										
PRA	LOC		188										
PRA	CAQ			922									
PRA	LOC			230									
PRA	CAQ				922								
PRA	LOC				230								
		1,152	934	1,152	1,152	0	0	0	0	0	0	0	0
		Total FY2015-2018		4,390		Total FY2019-2022		0		Total FY2023-2026		0	

# DVRPC FY 2015-2018 TIP for PA

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## Pennsylvania - Highway Program (Status: TIP)

### Various

MPMS# 48201 *DVRPC Competitive CMAQ Program*

LIMITS Region-wide

No Let Date

IMPROVEMENT Other

MUNICIPALITIES: Various

FC:

AQ Code:NRS

PLANNING AREA:

IPD:

PROJECT MANAGER:

CMP: Not SOV Capacity Adding

The Congestion Mitigation and Air Quality Improvement Program (CMAQ) was established by ISTEA and continued under TEA-21, SAFETEA-LU, and MAP-21. CMAQ funds are allocated to the states for use in non-attainment and maintenance areas for projects that contribute to the attainment of the Clean Air Act standards by reducing emissions from highway sources. Project types that are eligible for CMAQ funding include bicycle and pedestrian facilities; traffic flow improvements; ridesharing and other demand management programs; alternative fuel vehicles; and public transit improvements.

During a round of the DVRPC Competitive CMAQ Program, a call for projects goes out, applications are submitted, and candidate projects are ranked and selected by the DVRPC Board based on their emissions reduction potential, as well as other criteria such as cost-effectiveness, ease of implementation, project readiness, and sponsor commitment to provide matching funds.

The following projects selected in the calendar year 2011-2012 Competitive CMAQ Program will have funds drawn down from this Line Item at the appropriate time:

MPMS #96221 - Multi-modal Access to New Britain Train Station - \$212,000 (\$169,600 CMAQ/ \$42,400 Matching funds)

MPMS #96215 - City Avenue Adaptive Signals - \$1,143,500 (\$800,000 CMAQ/ \$343,500 Matching funds)

MPMS #96222 - Enhanced Bike Facility Connection between Gray's Ferry and Bartram's Garden - \$600,000 (\$400,000 CMAQ/ \$200,000 Matching funds)

MPMS #96227 - Traffic Operations Center Cameras - \$600,000 (\$480,000 CMAQ/ \$120,000 Matching funds)

MPMS# 96238 - Upper Merion to Bridgeport Train Station Pedestrian Facilities Improvements - \$260,253 CMAQ/ \$304,832 Matching funds)

MPMS# 96240 - Park Road Trail - \$1,455,908 (\$764,726 CMAQ/ \$691,182 Matching funds)

\$20,000,000 CMAQ in FY18 is allocated for the next round of Competitive CMAQ Program. \$1,802,000 CMAQ is set aside in FY18 for the projects listed above that need to be obligated.

### TIP Program Years (\$ 000)

Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
CON	CAQ	809											
CON	CAQ				14,772								
CON	CAQ					3,000							
CON	CAQ						2,981						
		809	0	0	14,772	3,000	2,981	0	0	0	0	0	0
		Total FY2015-2018		15,581		Total FY2019-2022		5,981		Total FY2023-2026		0	

# DVRPC FY 2015-2018 TIP for PA

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## Pennsylvania - Highway Program (Status: TIP)

### Various

MPMS# 48202 *Regional GIS Support - DVRPC*

LIMITS Region-wide

No Let Date

IMPROVEMENT Other

MUNICIPALITIES: Various

FC:

AQ Code:NRS

PLANNING AREA:

IPD:

PROJECT MANAGER:

CMP: Not SOV Capacity Adding

Geographic Information Systems (GIS) combine computer based mapping and database technologies to provide planners and engineers with new and efficient methods to analyze data related to the transportation system. The counties and operators in the region are each developing such systems. This line item will provide funding for the common elements of such systems as part of an effort to achieve a greater degree of regional consistency and obtain economies of scale.

Internet mapping task work is included.

TOLL CREDIT

#### TIP Program Years (\$ 000)

Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
PE	TOLL												
PE	STU	350											
PE	TOLL												
PE	STU		350										
		350	350	0	0	0	0	0	0	0	0	0	0
		Total FY2015-2018		700		Total FY2019-2022		0		Total FY2023-2026		0	

MPMS# 48203 *Aerial Photography*

Return

LIMITS Districtwide

No Let Date

IMPROVEMENT Other

MUNICIPALITIES: Various

FC:

AQ Code:X1

PLANNING AREA:

IPD:

PROJECT MANAGER: DVRPC

CMP: Not SOV Capacity Adding

FY10 UPWP Project

#### TIP Program Years (\$ 000)

Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
STUDY	TOLL												
STUDY	STP		428										
		0	428	0	0	0	0	0	0	0	0	0	0
		Total FY2015-2018		428		Total FY2019-2022		0		Total FY2023-2026		0	

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## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 57927** *Regional Safety Initiatives (HSIP)*

**LIMITS** Region-wide

No Let Date

**IMPROVEMENT** Intersection/Interchange Improvements

**MUNICIPALITIES:** Various

**FC:**

AQ Code:S6

**PLANNING AREA:**

IPD:

**PROJECT MANAGER:**

**CMP:** Not SOV Capacity Adding

Safety projects eligible for HSIP (Highway Safety Improvement Program) funds will be undertaken at various locations across the five county region. Projects can be 100% federally funded as allowed by the use of Toll Credits for match.

Individual project funding has been drawn down for the following projects:

MPMS #57625 - Route 232 Swamp Road Safety Improvements - Bucks County - \$3,826,000 for Construction  
 MPMS #85949 - SR 896 Safety Improvements - Chester County - \$1,273,000 for Final Design  
 MPMS #85417 - Allegheny Avenue Safety Improvements - Philadelphia - \$955,000 for Final Design  
 MPMS #85419 - Erie Ave: Broad St. - K St. - Philadelphia - \$4,500,000 for Construction  
 MPMS #80042 - PA 100 Corridor Safety Improvements - \$477,000 for Final Design/\$151,000 for ROW  
 MPMS #85415 - Olney Ave Safety Improvements - \$5,266,000 for Construction

Remaining funds that will be used to advance the following projects to be drawn down at the appropriate time and to fund selected improvements identified through Regional Safety Audits:

Bucks County:

MPMS #57625 - Route 232 Swamp Road Safety Improvements - \$3,501,000 CON

Chester County:

MPMS #80042 - PA 100 Corridor Safety Improvements - \$6,500,000 CON

MPMS #85949 - SR 896 Safety Improvements - \$1,000,000 ROW/ \$250,000 UTL/ \$8,200,000 CON

Delaware County:

MPMS #48168 - Baltimore Pike Signals - Project was let for construction on 4/17/2014.

Philadelphia:

MPMS #85417 - Allegheny Avenue Safety Improvements - \$200,000 UTL/ \$100,000 ROW/ \$7,000,000 CON

MPMS #85415 - Olney Avenue Safety Improvements - Project was let for construction on 5/21/2015

MPMS #85419 - Erie Ave: Broad St. - K St. - Project was let for construction on 7/16/2015

MPMS #80104 - Henry Ave. Corridor Safety Improvements, Phase 1 - \$1,200,000 FD/ \$100,000 UTL/ \$100,000 ROW/ \$5,500,000 CON

MPMS #102134 - Henry Ave. Corridor Safety Improvements, Phase 2 - \$300,000 FD/ \$250,000 UTL/ \$500,000 ROW/ \$3,000,000 CON

MPMS #102506 - W. Phila. Intersection Upgrades - Project was let for construction on 8/14/2014

### TIP Program Years (\$ 000)

Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
CON	HSIP		14										
CON	HSIP			1,949									
CON	HSIP				11,858								
CON	HSIP					11,858							
CON	HSIP						11,858						
CON	HSIP							11,858					
CON	HSIP								11,858				
CON	HSIP									11,858			
CON	HSIP										11,858		
CON	HSIP											11,858	
CON	HSIP												11,858

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### Various

0	14	1,949	11,858	11,858	11,858	11,858	11,858	11,858	11,858	11,858	11,858
Total FY2015-2018		13,821	Total FY2019-2022		47,432	Total FY2023-2026		47,432			

MPMS# 64652 Transportation Community Development Initiative (TCDI)

LIMITS Region-wide

No Let Date

IMPROVEMENT Other

MUNICIPALITIES: Various

FC:

AQ Code:X3

PLANNING AREA:

IPD:

PROJECT MANAGER:

CMP: Not SOV Capacity Adding

The Transportation and Community Development Initiative (TCDI) provides a mechanism for the individual municipalities of the Delaware Valley to undertake locally-directed actions to improve their communities, which in turn implements their local and county comprehensive plans and supports the goals and vision of the regional plan. Pennsylvania and New Jersey, as well as a number of counties within the region, have programs now underway to support community revitalization.

The regional Transportation and Community Development Initiative seeks to support and leverage those programs, by providing funding of up to \$100,000 in selected municipalities to undertake planning, analysis or design initiatives for projects or programs which enhance development or redevelopment and improve the efficiency or enhance the regional transportation system. A 20% cash or in-kind match is required.

The program is targeted to the core cities, inner-ring suburbs, and older boroughs of the region that have lost jobs and population and are in need of assistance to generate growth and redevelopment. Identified census tract areas in 75 southeastern Pennsylvania municipalities as well as much of the city of Philadelphia, are eligible to apply for TCDI funding. Projects will be selected on a competitive basis and designated by the DVRPC Board.

FY13 Funds are programmed for projects selected as part of Round 8, 2014/2015. Funds are made available for projects in order to accommodate the program operating on an every other year cycle. This activity is a component of the DVRPC Work Program (UPWP).

		TIP Program Years (\$ 000)											
Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
PE	STU		1,200										
PE	LOC		300										
		0	1,500	0	0	0	0	0	0	0	0	0	0
Total FY2015-2018		1,500		Total FY2019-2022		0		Total FY2023-2026		0			



# DVRPC FY 2015-2018 TIP for PA

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## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 64984** *Transportation Alternatives Program (TAP) Line Item*

**LIMITS** Region-wide

No Let Date

**IMPROVEMENT** Bicycle/Pedestrian Improvement

**MUNICIPALITIES:** Various

**FC:**

AQ Code:X12

**PLANNING AREA:**

IPD:

**PROJECT MANAGER:** L. Guarini

**CMP:** Not SOV Capacity Adding

This line item sets aside the funding allocated by FHWA for the FAST Act's Surface Transportation Block Grant Set-a-Side for the continuation of the Transportation Alternatives Program (TAP) in the DVRPC region. The TAP Program funds "non-traditional" projects that enhance the transportation experience, mitigate the impacts of transportation facilities on communities and the environment, and enhance community character through transportation-related improvements. Federal law sets up a direct allocation of TAP funds to urbanized areas with populations greater than 200,000, and all TAP funds must be awarded through a competitive process whether the funds be the regional MPO funds or from the statewide allocation. For the DVRPC regional funds, priority has been established for bicycle and pedestrian facilities, conversion of abandoned railway corridors to trails, and storm-water management projects.

The FAST Act apportions \$3,857,000 TAP funds in FY17, and \$3,932,000 TAP funds annually, after FY2017, directly to the DVRPC southeastern Pennsylvania region for use in selecting projects on a competitive basis. A recent competitive round (2016 Round) of two years' worth of MPO funding occurred in winter of 2016, with final projects awarded in March 2016. Selected projects are assigned an individual MPMS project number and description in the TIP, and funding will be drawn down from this line item and programmed at the appropriate time.

The following projects were approved through the TAP program in Spring 2016:

Bucks – Neshaminy Greenway Trail (Bristol to Upper State) – MPMS #102830 - \$1,255,000  
 Chester – Paoli Pike Trail, Segment C – MPMS #107176 - \$1,000,000  
 Delaware – Moore Road Sidewalk Project – MPMS #107177 - \$825,000  
 Delaware – Springfield Township Sidewalk Improvements – MPMS #107178 - \$280,000  
 Montgomery – FWOP, Cross County Trail Final Segment – MPMS #107179 - \$750,000  
 Montgomery – Powerline Trail Connection – Phase 1 – MPMS #107180 - \$850,000  
 Philadelphia – Chetlens-Greene Plaza reconstruction – MPMS #107181 - \$370,000  
 Philadelphia – City of Philadelphia SRTS (Non-Infrastructure) – MPMS #107182 - \$450,000  
 Philadelphia – Make Way for Children, Expanding Ped. Infrastructure – MPMS #107183 - \$950,000  
 Philadelphia – Manayunk Bridge Trail Site Amenities – MPMS #107197 - \$600,000  
 Philadelphia – Safe Spaces for Cyclists: Building a Protected Bicycle Network – MPMS #107198 - \$300,000

The following projects were approved through the TAP program in Spring 2014:

Bucks – Neshaminy Greenway Trail to Lenape Lane – MPMS # - \$800,000  
 Bucks – Solebury Route 202 Gateway Trail – MPMS #102831 - \$980,859  
 ChesCo – Kennett and New Garden Township Sidewalk Project – MPMS #102832 - \$850,000  
 ChesCo – Village of Eagle Trail Connections – MPMS #102833 - \$560,000  
 DelCo – Pedestrian and Bicycle Accessibility Enhancements – MPMS #102834 - \$420,000  
 DelCo – Hillside Road Pedestrian Safety Improvements – MPMS #102835 - \$530,000  
 DelCo – Nether Providence Township Sidewalks (SRTSF) – Round 1 – MPMS #87119 - \$225,000  
 MontCo – Walk and Bike Pottstown Phase 1 & 2 – MPMS #102836 - \$1,000,000  
 MontCo – Liberty Bell Trail Connection – MPMS #102837 - \$635,000  
 Philadelphia Bike Share Program – MPMS #102838 - \$1,250,000  
 South Philadelphia Neighborhood Bikeway – MPMS #102839 - \$250,000

### TIP Program Years (\$ 000)

Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
CON	TAU	1,682											
CON	TAU		346										
CON	TAU			3,932									
CON	TAU				3,932								
CON	CAQ				1,000								
CON	TAU					3,932							
CON	TAU						3,932						
CON	TAU							3,932					
CON	TAU								3,932				
CON	TAU									3,932			

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CON	TAU									3,932			
CON	TAU										3,932		
CON	TAU											3,932	
		1,682	346	3,932	4,932	3,932	3,932	3,932	3,932	3,932	3,932	3,932	3,932
		Total FY2015-2018		10,892		Total FY2019-2022		15,728		Total FY2023-2026		15,728	

MPMS# 65109 Transit Flex - SEPTA

LIMITS System-wide

No Let Date

IMPROVEMENT Transit Improvements

MUNICIPALITIES: Various

FC:

AQ Code:M1

PLANNING AREA:

IPD:

PROJECT MANAGER:

CMP: Not SOV Capacity Adding

This project is a placeholder of the highway funds that PennDOT has "flexed" for transit use in the DVRPC region as part of the Planning Partner Financial Guidance. SEPTA may choose to use these funds to supplement its other federal and state funding for any capital project.

Each year SEPTA will apply these "flexed" funds to one of its other projects in the TIP, but may choose to apply them to a new project through the TIP amendment process.

FY 2013-2016 funding in the amount of \$68,332,000 has been applied to MPMS# 90512, SEPTA Bus Purchase Program.

		TIP Program Years (\$ 000)											
Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
PE	FLEX	17,083											
PE	FLEX		17,083										
PE	FLEX			17,083									
PE	FLEX				17,083								
PE	FLEX					17,083							
PE	FLEX						17,083						
PE	FLEX							17,083					
PE	FLEX								17,083				
PE	FLEX									17,083			
PE	FLEX										17,083		
PE	FLEX											17,083	
PE	FLEX												17,083
		17,083	17,083	17,083	17,083	17,083	17,083	17,083	17,083	17,083	17,083	17,083	17,083
		Total FY2015-2018		68,332		Total FY2019-2022		68,332		Total FY2023-2026		68,332	

# DVRPC FY 2015-2018 TIP for PA

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## Pennsylvania - Highway Program (Status: TIP)

### Various

MPMS# 66460 TAP Project Engineering and Management - DVRPC

LIMITS Region-wide

No Let Date

IMPROVEMENT Bicycle/Pedestrian Improvement

MUNICIPALITIES: Various

FC:

AQ Code:X12

PLANNING AREA:

IPD:

PROJECT MANAGER:

CMP: Not SOV Capacity Adding

Assist PennDOT by providing engineering and project management responsibilities in the implementation of non-traditional TE funded transportation projects. This will involve review of engineering plans and documents, facilitation and coordination among the project applicants, consultants, PennDOT District staff, PennDOT Central Staff, and FHWA. This activity is a component of the DVRPC Work Program (UPWP).

TIP Program Years (\$ 000)													
Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
PE	STU	480											
PE	581	120											
PE	STU		520										
PE	581		130										
		600	650	0	0	0	0	0	0	0	0	0	0
		Total FY2015-2018		1,250		Total FY2019-2022		0		Total FY2023-2026		0	

MPMS# 66461 CMAQ Project Engineering and Management - DVRPC

LIMITS Region-wide

No Let Date

IMPROVEMENT Other

MUNICIPALITIES: Various

FC:

AQ Code:X5

PLANNING AREA:

IPD:

PROJECT MANAGER:

CMP: Not SOV Capacity Adding

Assist PennDOT by providing engineering and project management responsibilities in the implementation of non-traditional CMAQ funded transportation projects. This will involve review of engineering plans and documents, facilitation and coordination among the project applicants, consultants, PennDOT District staff, PennDOT Central Staff, and FHWA. This activity is a component of the DVRPC Work Program (UPWP).

TIP Program Years (\$ 000)													
Phase	Fund	<u>FY2015</u>	<u>FY2016</u>	<u>FY2017</u>	<u>FY2018</u>	<u>FY2019</u>	<u>FY2020</u>	<u>FY2021</u>	<u>FY2022</u>	<u>FY2023</u>	<u>FY2024</u>	<u>FY2025</u>	<u>FY2026</u>
PE	CAQ	88											
PE	581	22											
PE	CAQ		88										
PE	581		22										
		110	110	0	0	0	0	0	0	0	0	0	0
		Total FY2015-2018		220		Total FY2019-2022		0		Total FY2023-2026		0	

# DVRPC FY 2015-2018 TIP for PA

Final Version

## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 72738** *Intelligent Transportation Systems (ITS) Including RIMIS - DVRPC*

**LIMITS** Region-wide

No Let Date

**IMPROVEMENT** Signal/ITS Improvements

**MUNICIPALITIES:** Various

**FC:**

AQ Code:NRS

**PLANNING AREA:**

IPD:

**PROJECT MANAGER:**

**CMP:** Not SOV Capacity Adding

DVRPC's Intelligent Transportation System (ITS) program encompasses a wide range of activities including the ITS Technical Task Force, incident management programs, ITS architecture development, training programs for ITS operators and emergency response personnel, and technical assistance to agencies. Its centerpiece is the Regional Integrated Multi-modal Information Sharing (RIMIS) concept which will implement an Information Exchange Network (IEN) that will function as the communications backbone among operation centers throughout the region. This system would be used to notify agencies about incidents or unusual conditions which affect them, and will allow them to share resources (e.g., variable message signs) and coordinate a unified response. Information will be made available to the public via traffic reporting agencies. This activity is a component of the DVRPC Work Program (UPWP).

This project is integral to the Delaware Valley Freight Corridors initiative.

#### TIP Program Years (\$ 000)

Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
PRA	CAQ	560											
PRA	581	140											
PRA	CAQ		560										
PRA	581		140										
		700	700	0	0	0	0	0	0	0	0	0	0
		Total FY2015-2018		1,400		Total FY2019-2022				Total FY2023-2026			
								0					0

**MPMS# 75854** *District Program Management Services "A"*

**LIMITS** Region-wide

No Let Date

**IMPROVEMENT** Other

**MUNICIPALITIES:** Various

**FC:**

AQ Code:NRS

**PLANNING AREA:**

IPD:

**PROJECT MANAGER:**

**CMP:** Not SOV Capacity Adding

This project provides funds for selected consultants to provide Project Management Services and handling all tasks to advance PennDOT transportation projects from inception to a bid letting. Tasks include guidance in project development; preparation and monitoring of schedules and costs; review and/or coordination of design submissions, right of way plans, design drawings, specifications and estimates; conduct design review meetings, constructability reviews and plan checks; review environmental items and ensure all permits are obtained; and coordinate with stakeholders including PennDOT, environmental agencies, municipal officials or authorities, utility companies, and the general public.

#### TIP Program Years (\$ 000)

Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
PE	581	1,591											
PE	581		1,639										
		1,591	1,639	0	0	0	0	0	0	0	0	0	0
		Total FY2015-2018		3,230		Total FY2019-2022				Total FY2023-2026			
								0					0

# DVRPC FY 2015-2018 TIP for PA

Final Version

## Pennsylvania - Highway Program (Status: TIP)

### Various

MPMS# 75855 District Program Management Services "B"

LIMITS Region-wide

No Let Date

IMPROVEMENT Other

MUNICIPALITIES: Various

FC:

AQ Code:NRS

PLANNING AREA:

IPD:

PROJECT MANAGER:

CMP: Not SOV Capacity Adding

This project provides funds for selected consultants to provide Project Management Services and handling all tasks to advance PennDOT transportation projects from inception to a bid letting. Tasks include guidance in project development; preparation and monitoring of schedules and costs; review and/or coordination of design submissions, right of way plans, design drawings, specifications and estimates; conduct design review meetings, constructability reviews and plan checks; review environmental items and ensure all permits are obtained; and coordinate with stakeholders including PennDOT, environmental agencies, municipal officials or authorities, utility companies, and the general public.

#### TIP Program Years (\$ 000)

Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
PRA	581	1,591											
PRA	581		1,639										
		1,591	1,639	0	0	0	0	0	0	0	0	0	0
Total FY2015-2018				3,230		Total FY2019-2022			0	Total FY2023-2026			0

MPMS# 79927 Highway Reserve Line Item-STP

LIMITS Region-wide

No Let Date

IMPROVEMENT Other

MUNICIPALITIES: Various

FC:

AQ Code:NRS

PLANNING AREA:

IPD:

PROJECT MANAGER:

CMP: Not SOV Capacity Adding

Highway Reserve District-Wide Line Item. This project number serves as a placeholder for unprogrammed funds and serves as a fiscal constraint balancing mechanism for project actions that occur during TIP Modifications and Amendments after a TIP is adopted.

#### TIP Program Years (\$ 000)

Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
CON	581	68											
CON	581		67										
CON	STP			15									
CON	STP					42							
CON	STP									703			
CON	581										3,138		
CON	STP										578		
CON	581											4,849	
CON	STP											5,022	
CON	581												20,703
CON	STP												75,572
CON	581	68	67	15	0	42	0	0	0	703	3,716	9,871	96,275
Total FY2015-2018				150		Total FY2019-2022			42	Total FY2023-2026			110,565

# DVRPC FY 2015-2018 TIP for PA

Final Version

Pennsylvania - Highway Program (Status: TIP)

## Various

MPMS# 79929 Bridge Reserve Line Item

LIMITS Region-wide

No Let Date

IMPROVEMENT Other

MUNICIPALITIES: Various

FC:

AQ Code:S19

PLANNING AREA:

IPD:

PROJECT MANAGER:

CMP: Not SOV Capacity Adding

This project number serves as a placeholder for unprogrammed funds and serves as a fiscal constraint balancing mechanism for project actions that occur during TIP Modifications and Amendments after a TIP is adopted.

A final alternative for bridge rehabilitation or replacement is determined upon federal National Environmental Policy Act (NEPA) or state Categorical Exclusion clearance.

### TIP Program Years (\$ 000)

Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
CON	BOF	4,042											
CON	179	496											
CON	183	363											
CON	179		510										
CON	183		11										
CON	BOF			54									
CON	185			9,803									
CON	LOC			6									
CON	185				11								
CON	179				660								
CON	BOF					414							
CON	185					2,470							
CON	BOF						1,731						
CON	185						6,881						
CON	BOF							3					
CON	183							2,575					
CON	185							2,979					
CON	BOF									993			
CON	185									2,575			
CON	BOF										9,047		
CON	185										1,839		
CON	BOF											10,074	
CON	185											23,271	
CON	BOF												6,360
CON	185												11,447
		4,901	521	9,863	671	2,884	8,612	5,557	0	3,568	10,886	33,345	17,807
		Total FY2015-2018		15,956		Total FY2019-2022		17,053		Total FY2023-2026		65,606	

# DVRPC FY 2015-2018 TIP for PA

Final Version

Pennsylvania - Highway Program (Status: TIP)

## Various

MPMS# 79980 STU Reserve Line Item

LIMITS Region-wide

No Let Date

IMPROVEMENT Other

MUNICIPALITIES: Various

FC:

AQ Code:S10

PLANNING AREA:

IPD:

PROJECT MANAGER:

CMP: Not SOV Capacity Adding

This project number serves as a placeholder for unprogrammed funds and serves as a fiscal constraint balancing mechanism for project actions that occur during TIP Modifications and Amendments after a TIP is adopted.

### TIP Program Years (\$ 000)

Phase	Fund	<u>FY2015</u>	<u>FY2016</u>	<u>FY2017</u>	<u>FY2018</u>	<u>FY2019</u>	<u>FY2020</u>	<u>FY2021</u>	<u>FY2022</u>	<u>FY2023</u>	<u>FY2024</u>	<u>FY2025</u>	<u>FY2026</u>
CON	581	232											
CON	LOC	611											
CON	581		690										
CON	LOC		713										
CON	STU			340									
CON	LOC			411									
CON	STU					273							
CON	STU					4,864							
CON	STU											15,338	
CON	STU												39,178
		843	1,403	751	0	273	4,864	0	0	0	0	15,338	39,178
		Total FY2015-2018		2,997		Total FY2019-2022		5,137		Total FY2023-2026		54,516	

# DVRPC FY 2015-2018 TIP for PA

Final Version

## Pennsylvania - Highway Program (Status: TIP)

### Various

MPMS# 80093 I-76, Regional Travel Information

LIMITS I-76 in Philadelphia/Lower and Upper Merion Townships

Est Let Date: 6/16/2016

IMPROVEMENT Signal/ITS Improvements

MUNICIPALITIES:

FC: 11

AQ Code:S7

PLANNING AREA:

IPD:

PROJECT MANAGER: AECOM/E. Reagle

CMP: Not SOV Capacity Adding

Adding Subcorr(s): 3A, 3B, 3C

This project will implement a Variable Speed Limit System and a Queue Detection System along I-76 from I-276 to US 1. The new Variable Speed Limit and Queue Detection systems will utilize existing fiber optic communications infrastructure and existing ITS equipment supplemented with additional equipment for these new systems. The purpose is to improve safety and traffic operations along the corridor. Over 2100 crashes were reported along this roadway section between 2009 and 2013 with 66% being rear-end crashes. Variable Speed Limits are used to maximize capacity with uniform travel speeds, provide safer travel speeds for conditions, and reduce rear-end collisions. Queue Detection is used to reduce sudden stopping, reduce bottlenecks from rear end crashes and promote more uniform driver behavior. These systems are anticipated to reduce total number of crashes, accelerate response to crashes, alert drivers to emerging incidents, and reduce delays along the corridor.

This project was funded by a \$3,200,000 SAFETEA-LU Earmark (PA ID# 361/FED ID# 0878)

### TIP Program Years (\$ 000)

Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
PE	CAQ		550										
CON	SXF		1,042										
CON	CAQ		975										
CON	581		564										
		0	3,131	0	0	0	0	0	0	0	0	0	0
		Total FY2015-2018		3,131		Total FY2019-2022		0		Total FY2023-2026		0	



# DVRPC FY 2015-2018 TIP for PA

Final Version

Pennsylvania - Highway Program (Status: TIP)

## Various

MPMS# 82216 NHPP Reserve Line Item

LIMITS Region-wide

No Let Date

IMPROVEMENT Other

MUNICIPALITIES: Various

FC:

AQ Code:NRS

PLANNING AREA:

IPD:

PROJECT MANAGER: L. Guarini

CMP: Not SOV Capacity Adding

This project number serves as a placeholder for unprogrammed funds and serves as a fiscal constraint balancing mechanism for project actions that occur during TIP Modifications and Amendments after a TIP is adopted.

### TIP Program Years (\$ 000)

Phase	Fund	<u>FY2015</u>	<u>FY2016</u>	<u>FY2017</u>	<u>FY2018</u>	<u>FY2019</u>	<u>FY2020</u>	<u>FY2021</u>	<u>FY2022</u>	<u>FY2023</u>	<u>FY2024</u>	<u>FY2025</u>	<u>FY2026</u>
CON	NHPP	310											
CON	581	413											
CON	LOC	1,722											
CON	581		12										
CON	581			13									
CON	NHPP				550								
CON	581				254								
CON	NHPP					11,886							
CON	581					79							
CON	NHPP						21,979						
CON	NHPP							10,302					
CON	NHPP									790			
CON	NHPP												70,389
		2,445	12	13	804	11,965	21,979	10,302	0	0	790	0	70,389
		Total FY2015-2018		3,274		Total FY2019-2022		44,246		Total FY2023-2026		71,179	

# DVRPC FY 2015-2018 TIP for PA

Final Version

Pennsylvania - Highway Program (Status: TIP)

## Various

MPMS# 83743 ADA Ramps Line Item

New

LIMITS Region-wide

No Let Date

IMPROVEMENT Bicycle/Pedestrian Improvement

MUNICIPALITIES: Various

FC:

AQ Code:A2

PLANNING AREA:

IPD:

PROJECT MANAGER: LEG

CMP: Not SOV Capacity Adding

This line item is a set aside to address candidates for ADA ramp reconstruction/construction that are needed in the DVRPC region. As the proposals originally reflected in the Decade of Investment are more completely understood, evaluated, and recommended, specific TIP candidate project recommendations can be developed.

### TIP Program Years (\$ 000)

Phase	Fund	<u>FY2015</u>	<u>FY2016</u>	<u>FY2017</u>	<u>FY2018</u>	<u>FY2019</u>	<u>FY2020</u>	<u>FY2021</u>	<u>FY2022</u>	<u>FY2023</u>	<u>FY2024</u>	<u>FY2025</u>	<u>FY2026</u>
CON	581					4,190							
CON	STU							2,999					
CON	581							750					
CON	STU								7,001				
CON	581								1,750				
CON	STP									5,000			
CON	581									1,250			
		0	0	0	0	0	4,190	3,749	8,751	6,250	0	0	0
		Total FY2015-2018			0	Total FY2019-2022			16,690	Total FY2023-2026			6,250

## Pennsylvania - Highway Program (Status: TIP)

## Various

MPMS# 84059 Traffic Incident Management

LIMITS Broad St Intchge to Delaware State Ln

No Let Date

IMPROVEMENT Signal/ITS Improvements

MUNICIPALITIES: Various

FC: 11

AQ Code:S7

PLANNING AREA:

IPD:

PROJECT MANAGER: Goerge Dunheimer ADE CONSTR CMP: Not SOV Capacity Adding

The project will include design of ITS devices along I-95 from the Delaware state line to Broad Street and along the I-476 corridor from I-95 to the St. David's interchange. The ITS devices will enable PennDOT to monitor I-95 and I-476, facilitate more efficient incident response and transportation management, and provide valuable information to travelers to improve the safety and efficiency of their experience on the I-95 corridor. The devices and locations scoped for this project will fit into PennDOT's overall I-95 Interstate ITS Completion Plan. The devices will be connected into PennDOT's fiber optic communications system and ultimately managed from PennDOT's Regional Transportation Management Center, located in the District 6-0 offices in King of Prussia, PA. The project also enhances PennDOT's cooperation and collaboration with regional stakeholders located in the study area, such as Delaware County, and the City of Philadelphia Streets Department, Sports Complex and Airport.

## I-95, Section ITC (DelawareState Line to Girard Point Bridge)

This section of expressway spans 16 miles and consists of primarily 3 through lanes traveling in each direction. 14 interchanges, including an interstate-to-interstate interchange at Exit 7 (I-95/I-476) as well as the exit for the Philadelphia International Airport (Exit 10) are located in this section. As of 2007, the average AADT through this section was approximately 146,000 vehicles. ITS devices currently deployed include 2 north-facing DMS located north of PA-420 and north of Exit 9 respectively and 3 CCTV cameras located at the I-95/I-476 Interchange, Island Avenue, and Enterprise Avenue. In order to provide complete ITS coverage through this section, the I-95 Interstate ITS Completion Plan anticipates that additional ITS devices will be required. Five (5) DMS are envisioned, as well as 17 CCTV, 31 vehicle detectors, 16 AVI E-ZPass tag readers, and communications upgrades.

## I-476 (I-95 to St. David's Interchange)

The I-476 reconstruction has already been awarded to a contractor for construction. As part of the I-476 RES project, several ITS devices are designed for deployment to provide full coverage along the I-476 corridor. However, the design did not include DMS signs and tag readers between I-95 and St. David's interchange. This project will design DMS signs and tag readers between I-95 and St. David's interchange, which will provide complete coverage along the I-476 corridor. 8 DMS are envisioned, as well as 13 AVI E-ZPass tag readers and communications upgrades.

## TIP Program Years (\$ 000)

Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
CON	TOLL												
CON	NHPP	360											
CON	TOLL												
CON	STU		665										
		360	665	0	0	0	0	0	0	0	0	0	0
		Total FY2015-2018		1,025		Total FY2019-2022		0		Total FY2023-2026		0	

## Pennsylvania - Highway Program (Status: TIP)

## Various

MPMS# 84318 CAQ Reserve Line Item

**LIMITS** Region-wide

No Let Date

IMPROVEMENT Other

**MUNICIPALITIES:** Various

FC:

AQ Code:NRS

PLANNING AREA:

IPD:

PROJECT MANAGER:

**CMP:** Not SOV Capacity Adding

This project number serves as a placeholder for unprogrammed funds and serves as a fiscal constraint balancing mechanism for project actions that occur during TIP Modifications and Amendments after a TIP is adopted.

TIP Program Years (\$ 000)													
Phase	Fund	<u>FY2015</u>	<u>FY2016</u>	<u>FY2017</u>	<u>FY2018</u>	<u>FY2019</u>	<u>FY2020</u>	<u>FY2021</u>	<u>FY2022</u>	<u>FY2023</u>	<u>FY2024</u>	<u>FY2025</u>	<u>FY2026</u>
CON	CAQ	206											
CON	CAQ		3,714										
CON	CAQ			65									
CON	CAQ				1,533								
CON	CAQ					27,427							
CON	CAQ						27,800						
CON	CAQ							25,837					
CON	CAQ								30,904				
CON	CAQ									30,904			
CON	CAQ										30,904		
CON	CAQ											30,904	
CON	CAQ												30,904
		206	3,714	65	1,533	27,427	27,800	25,837	30,904	30,904	30,904	30,904	30,904
		Total FY2015-2018			5,518	Total FY2019-2022			111,968	Total FY2023-2026			123,616

MPMS# 84457      *Signal Retiming Program*

**LIMITS** Region-wide

No Let Date

## IMPROVEMENT Signal/ITS Improvements

MUNICIPALITIES: Various

FC:

AQ Code:X1

PLANNING AREA:

IPD:

PROJECT MANAGER: TWB/V. Fleysh

**CMP:** Not SOV Capacity Adding

This signal re-timing program provides for the evaluation of existing signals along an identified corridor, with the goal of improving traffic operations along said corridor through revised signal timing plans. The program was implemented first using corridors identified in the City of Philadelphia, with the goal of expanding a successful program to other counties. The selected vendor would collect current traffic data, compare it against the functioning signal timing, and prepare and implement a revised signal timing plan on approval of the PennDOT's District 6.

		TIP Program Years (\$ 000)											
Phase	Fund	<u>FY2015</u>	<u>FY2016</u>	<u>FY2017</u>	<u>FY2018</u>	<u>FY2019</u>	<u>FY2020</u>	<u>FY2021</u>	<u>FY2022</u>	<u>FY2023</u>	<u>FY2024</u>	<u>FY2025</u>	<u>FY2026</u>
PRA	CAQ	350											
PRA	CAQ		350										
		350	350	0	0	0	0	0	0	0	0	0	0
		Total FY2015-2018		700		Total FY2019-2022			0	Total FY2023-2026			0

# DVRPC FY 2015-2018 TIP for PA

Final Version

## Pennsylvania - Highway Program (Status: TIP)

### Various

MPMS# 86077 *Update Travel Simulation - DVRPC*

LIMITS Region-wide

No Let Date

IMPROVEMENT Other

MUNICIPALITIES:

FC:

AQ Code:X1

PLANNING AREA:

IPD:

PROJECT MANAGER:

CMP: Not SOV Capacity Adding

DVRPC continually strives to keep its travel simulation models up to date to insure the accuracy of travel forecasts and to respond to new forecasting requirements associated with the FTA New Starts program, FHWA conformity demonstration requirements, and EPA clean air amendments and other environmental regulations. DVRPC's travel simulation process requires periodic updating. This includes updating the travel simulation models, the software that runs the models, and the data that the models are based on. This project will make upgrades in all three areas. The travel models will be upgraded to bring them in line with the state of the art/science of demand modeling. The various data required to operate, calibrate, and validate the model, including socioeconomic data, traffic data, and travel surveys, will be updated as well. This activity is a component of the DVRPC Work Program (UPWP).

TIP Program Years (\$ 000)																	
Phase	Fund	<u>FY2015</u>	<u>FY2016</u>	<u>FY2017</u>	<u>FY2018</u>	<u>FY2019</u>	<u>FY2020</u>	<u>FY2021</u>	<u>FY2022</u>	<u>FY2023</u>	<u>FY2024</u>	<u>FY2025</u>	<u>FY2026</u>				
PRA	TOLL																
PRA	STU	455															
		455	0	0	0	0	0	0	0	0	0	0	0				
Total FY2015-2018		455				Total FY2019-2022				0				Total FY2023-2026		0	

MPMS# 86285 *ITS Phase II in Bucks and Philadelphia*

LIMITS US 1 to NJ State Line

Actl Let Date: 7/16/2009

IMPROVEMENT Signal/ITS Improvements

MUNICIPALITIES: Various

FC: 11; 12; 14

AQ Code:S7

PLANNING AREA:

IPD:

PROJECT MANAGER:

CMP: Not SOV Capacity Adding

Funds for this project are used to cover Accrued Unbilled Costs.

Design Build ITS installation project on 3 roadway sections: I-95 between US 1 and the NJ State Line in Bucks County; US 1 between the PA Turnpike and the NJ State Line in Bucks County; and SR 63 between I-95 and US 1 in Philadelphia. This project implements Phase II of the Bucks/Philadelphia ITS project. See MPMS #86055 for the I-95 Extension phase.

I-95 will receive 5 CCTV cameras, 4 dynamic message signs, and 8 travel time readers. US 1 will receive 18 CCTV cameras, 9 dynamic message signs, and 14 travel time readers. SR63 will receive 5 CCTV cameras, 2 dynamic message signs, and 6 travel time readers.

TIP Program Years (\$ 000)															
Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026		
CON	TOLL														
CON	STP	150													
		150	0	0	0	0	0	0	0	0	0	0	0		
Total FY2015-2018		150			Total FY2019-2022				0		Total FY2023-2026			0	

# DVRPC FY 2015-2018 TIP for PA

Final Version

## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 89701** *Group H Bridges*

**New**

**LIMITS** Various Locations in Chester and Delaware Counties

Est Let Date: 3/26/2015

**IMPROVEMENT** Bridge Repair/Replacement

**MUNICIPALITIES:** Aston Township; East Coventry Township

**FC:** 16

AQ Code:S19

**PLANNING AREA:** Developed Community; Growing Suburb

IPD:

**PROJECT MANAGER:** HNTB/NV

**CMP:** Not SOV Capacity Adding

Funds will be used for the following rehabilitation/replacement of various bridges in critical condition in Chester and Delaware Counties.  
Steel Truss Bridge Preservation

Linfield Road(SR 1035) over Schuylkill River, in East Coventry Township, Chester County  
Aston Mill Road(SR 3023) over West branch Chester Creek, in Aston Township, Delaware County

#### TIP Program Years (\$ 000)

Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
CON	185	4,231											
CON	185		936										
CON	185			1,385									
CON	185				750								
		4,231	936	1,385	750	0	0	0	0	0	0	0	0
		Total FY2015-2018		7,302		Total FY2019-2022		0		Total FY2023-2026		0	

**MPMS# 92182** *Expressway Service Patrol - Suburban Counties (2013-2016)*

**LIMITS** I-476, US 202, US 422, I-95, I-76, PA 309, and US 30 in Bucks, Chester, Delaware, and Montgomery CO

No Let Date

**IMPROVEMENT** Signal/ITS Improvements

**MUNICIPALITIES:** Various

**FC:**

AQ Code:S7

**PLANNING AREA:**

IPD: 1

**PROJECT MANAGER:** Gannett/V. Genua

**CMP:** Not SOV Capacity Adding

This project is a breakout of MPMS# 88616, and will operate in the suburban counties of Bucks, Chester, Delaware, and Montgomery as part of the Expressway Service Patrol contract for an additional two years. The program will provide for the operation of emergency service patrols on congested state highways to detect and clear incidents rapidly by providing emergency assistance to stranded motorists. Approximately half of all delays experienced by highway users in congested areas are caused by traffic accidents, vehicle breakdowns, and other incidents. Prompt incident management programs such as this, can reduce delay's significantly. Service will be provided on 50 linear miles including: I-76 from Philadelphia to PA Turnpike; I-95 from the New Jersey State Line to the Bucks County line; I-476 from I-95 to the PA Turnpike; US Route 202 from I-76 to US 30; US Route 422 from Route 202 to Royersford; PA 309 from PA 63 to Easton Road; and US 30 from Business Route 30 to PA 10.

A separate contract for the Philadelphia Expressway Service Patrol (MPMS #91490) is currently programmed on the DVRPC TIP and utilizes federal funding.

#### TIP Program Years (\$ 000)

Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
CON	NHPP		500										
CON	NHPP				3,364								
CON	TOLL												
		0	500	0	3,364	0	0	0	0	0	0	0	0
		Total FY2015-2018		3,864		Total FY2019-2022		0		Total FY2023-2026		0	

# DVRPC FY 2015-2018 TIP for PA

Final Version

Pennsylvania - Highway Program (Status: TIP)

## Various

MPMS# 92184 Adj Box Beam Grp (J)

New

**LIMITS** Bucks: Falls, Northampton and Lower Southampton Townships

Actl Let Date: 1/8/2015

**IMPROVEMENT** Bridge Repair/Replacement

**MUNICIPALITIES:** Radnor Township; Cheltenham Township; Falls Township; Northampton Township; **FC:**

AQ Code:S19

**PLANNING AREA:** Developed Community; Growing Suburb

IPD:

**PROJECT MANAGER:** HNTB/NV

**CMP:**

Bridges to be worked on under Group J are:

- 1)Tullytown Road(SR 0013) over branch of Martins Creek, in Falls Township, Bucks County - Superstructure Replacement
- 2)Chinquapin Road(SR 2025) over Ironworks Creek, in Northampton Township, Bucks County - Superstructure Replacement
- 3)Bryn Mawr Avenue(SR 1032) over Ithan Creek, in Radnor Township, Delaware County - Superstructure Replacement
- 4)Skiptack Pike(SR 0073) over Perkiomen Creek in Perkiomen Township, Montgomery County - Superstructure Replacement
- 5)New Second Street(SR 2060) over Tacony Creek in Cheltenham Township, Montgomery County - Superstructure Replacement
- 6) Drainage improvements for the SR 611 (Broad Street) Bridge over Roosevelt Boulevard (US 1) in Philadelphia
- 7) Sidewalk repairs for SR 32 (Main Street) bridge over Aquetong Creek in New Hope, Bucks County
- 8) Parapet capstone repairs for SR 1013 (Dark Hollow Road) bridge over Tohickon Creek in Tinicum Township, Bucks County

Along with District-wide "On Demand" bridge repairs.

### TIP Program Years (\$ 000)

<u>Phase</u>	<u>Fund</u>	<u>FY2015</u>	<u>FY2016</u>	<u>FY2017</u>	<u>FY2018</u>	<u>FY2019</u>	<u>FY2020</u>	<u>FY2021</u>	<u>FY2022</u>	<u>FY2023</u>	<u>FY2024</u>	<u>FY2025</u>	<u>FY2026</u>	
CON	581	2,335												
CON	581		2,090											
CON	581			3,106										
CON	581				780									
		2,335	2,090	3,106	780	0	0	0	0	0	0	0	0	
		Total FY2015-2018			8,311	Total FY2019-2022				0	Total FY2023-2026			0

# DVRPC FY 2015-2018 TIP for PA

Final Version

## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 92311 Culvert Replacement Group L**

**LIMITS** Chester Cnty-East Fallowfield Township,East Brandywine Township,East Pikeland Township,Birmingham

Est Let Date: 5/7/2015

**IMPROVEMENT** Bridge Repair/Replacement

**MUNICIPALITIES:** Glenolden Borough; Upper Providence Township; Caln Township; Ea **FC:** 14; 16; 17; 19

AQ Code:S19

**PLANNING AREA:** Developed Community; Growing Suburb; Rural Area

IPD:

**PROJECT MANAGER:** HNTB/NV

**CMP:** Not SOV Capacity Adding

7 culverts in Chester, Delaware, and Montgomery counties that are structurally deficient will be replaced with minimal roadway improvement, which is estimated to extend their service life by 100 years. The bridges are as follows:

Chester County:

1. Doe Run Road over Branch Sucker Run (Bridge Key 10044) in East Fallowfield Township
2. Creek Road over Branch Brandywine Creek (Bridge Key 10174) in East Brandywine Township
3. Bondsville Road over Branch Beaver Creek (Bridge Key 10215) in Caln Township
4. Whitehorse Road over Branch Pickering Creek (Bridge Key 10303) in Schuylkill Township
5. Clay Creek Road over Tributary East Branch White Clay Creek (Bridge Key 39994) in Franklin Township

Delaware County

6. Macdade Boulevard over Branch Muckinipattis Creek (Bridge Key 15231) in Glenolden Borough

Montgomery County

7. Second Avenue over Branch of Mingo Creek (Bridge Key 27805) in Upper Providence Township

Work to be performed will additionally include the superstructure replacement of the SR 4012 (Graterford Road) Bridge over Perkiomen Creek in Montgomery County; substructure repairs for the SR 3023 (Pocopson Road) Bridge in Chester County; and District-wide "On-Demand" bridge repairs. The scope of work will not change the typical section of the roadways or increase their capacities.

A final alternative for bridge rehabilitation or replacement is determined upon federal National Environmental Policy Act (NEPA) or state Categorical Exclusion clearance.

### TIP Program Years (\$ 000)

Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
UTL	581	200											
CON	581	287											
CON	581		5,271										
CON	581			6,931									
CON	581				253								
		487	5,271	6,931	253	0	0	0	0	0	0	0	0
		Total FY2015-2018		12,942		Total FY2019-2022				0		Total FY2023-2026	
													0



## Pennsylvania - Highway Program (Status: TIP)

## Various

MPMS# 95447 County Bridge Line Item

LIMITS Region-wide

No Let Date

IMPROVEMENT Bridge Repair/Replacement

MUNICIPALITIES: Various

FC:

AQ Code:S19

PLANNING AREA:

IPD:

PROJECT MANAGER:

CMP: Not SOV Capacity Adding

This line item sets aside funding allocated for county owned bridges that are in need of repair in the DVRPC region. Funds will be broken out and drawn down at the appropriate time for projects that were selected in the fall of 2012. Projects were selected for using 20% local match. State or federal shares will be programmed as appropriate.

Woodland Avenue over SEPTA will be programed with 100% federal funds, for preliminary engineering, final design, and construction (in Later Fiscal Years) to allow SEPTA to manage the project on behalf of the City of Philadelphia.

Anticipate programming and costs of projects include:

## Bucks County

-Clymer Avenue Bridge over Mill Creek (MPMS #92872), West Rockhill Township, FY14 FD \$59,000, FY14 CON \$1,194,000. Total cost \$1,253,000. This is a retro-reimbursement project. Drawn down in FY14 of the FY2013 TIP.

-Branch Road over E. Branch Perkiomen Creek, (MPMS #102666), Bridge #239, Bridge ID # 09700904310239, East Rockhill Twp, PE \$10,000, FD \$60,000, Construction \$535,000. The total cost of this project is \$605,000.

-Quarry Road over Morris Run, (MPMS #102667), Bridge #244, Bridge ID #09700904210244 PE \$5,000, FD \$25,000, Construction \$335,000. The total cost of this project is \$365,000.

-Strock's Grove Road Bridge over Beaver Creek Bridge (MPMS #98221), Nockamixon Township, FY16 PE \$300,000, FY19 FD \$375,000, FY21 ROW \$90,000, FY22 UTL \$50,000, FY24 CON \$2,000,000. The total cost of this project is \$2,630,000.

## Chester County

-Sunnyside Road Bridge over East Penn Railway (MPMS #78521) in Penn Township FY14 FD \$120,000, FY14 ROW \$31,000, FY14 CON \$1,021,000. The total cost of the project is \$1,172,000. This is a retro-reimbursement project ;

-Creek Road Bridge over Pickering Creek (MPMS #98223) in Schuylkill Township, FY14 PE \$300,000, FY15 FD \$300,000, FY20 ROW \$75,000, FY22 CON \$1,904,000. The total cost of this project is \$2,579,000.

-Spring City Road over Stony Run (MPMS #98224) in East Pikeland Township, FY15 PE \$300,000, FY18 FD \$200,000, FY20 ROW \$40,000, FY22 CON \$1,400,000. The total cost of this project is \$1,940,000.

## Delaware County

-Michigan Avenue over Little Crum Creek (MPMS #98216) in Ridley Township, FY14 PE \$350,000, FY15 FD \$300,000, FY18 ROW \$25,000, FY19 UTL \$25,000, FY21 CON \$900,000 The total cost of this project is \$1,600,000.

-Hilldale Bridge (MPMS #98217) in Lansdowne Borough, FY14 PE \$460,000, FY18 FD \$300,000, FY20 ROW \$40,000, FY21 \$100,000, FY22 CON 1,500,000. The total cost of this project is \$2,400,000.

-Mulford Bridge (MPMS #98218) in Glenolden Borough, FY16 PE \$231,000, FY18 PE \$169,000, FY19 FD \$300,000, FY23 \$40,000, FY23 UTL \$100,000, FY24 CON \$100,000. The total cost of this project is \$1,840,000.

## Montgomery County

-Butler Pike over Prophecy Creek (MPMS #98225) in Upper Dublin Township, FY14 PE \$350,000, FY18 FD \$300,000, FY21 ROW \$25,000, FY22 UTL \$50,000, FY24 CON \$850,000. The total cost of this project is \$1,575,000

-Maple Avenue Bridge (MPMS #98226) in Hatfield Township, FY16 FD \$143,000, FY16 CON \$432,000. The total cost of this project is \$575,000. This is a retro-reimbursement project.

-Allendale Road Bridge (MPMS #98227) in Upper Merion Township FY16 FD \$350,000, FY16 CON \$650,000. The total cost of this project is \$1,000,000. This is a retro-reimbursement project.

-Store Road Bridge (MPMS #98228) in Lower Salford Township FY16 PE \$11,000, FY16 FD \$80,000, FY16 CON \$300,000. The total cost of this project is \$391,000. This is a retro-reimbursement project.

## City of Philadelphia

-59th Street over Amtrak (MPMS #98229) FY14 PE \$960,000, FY18 FD \$640,000, FY24 CON \$8,000,000. The total cost of this project is \$9,600,000;

-Woodland Avenue over SEPTA (MPMS #98232) FY14 PE of \$480,000, FY15 FD \$320,000, FY18 CON \$952,000, FY19 CON \$2,000,000, FY20 CON \$464,000, FY21 CON \$584,000. The total cost of this project is \$4,800,000.

-Tabor Road over Tacony Creek (MPMS #98230) FY15 PE \$240,000, FY18 FD \$160,000, FY24 CON \$2,000,000. The total cost of this project is \$2,400,000.

# DVRPC FY 2015-2018 TIP for PA

Final Version

Pennsylvania - Highway Program (Status: TIP)

## Various

		TIP Program Years (\$ 000)											
Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
CON	183												
CON	LOC	57											
CON	BOF		2,803										
CON	183												
CON	LOC		700										
CON	BOF			2,000									
CON	BOF				2,000								
CON	183				242								
CON	LOC				559								
CON	183					2,579							
CON	LOC					645							
CON	183						766						
CON	LOC						192						
CON	183							1,722					
CON	LOC							431					
CON	183								7,728				
CON	LOC								1,932				
CON	183									151			
CON	LOC									38			
CON	183										13,337		
CON	LOC										3,834		
		57	3,503	2,000	2,801	3,224	958	2,153	9,660	189	17,171	0	0
		Total FY2015-2018		8,361		Total FY2019-2022		15,995		Total FY2023-2026		17,360	

MPMS# 96072 Ches/Del/MontCo Deck Seal

LIMITS

No Let Date

IMPROVEMENT Bridge Repair/Replacement

MUNICIPALITIES: Various

FC:

AQ Code:S10

PLANNING AREA:

IPD:

PROJECT MANAGER: George Dunheimer ADE CONSTR CMP:

This is a preventative maintenance project that countains various structures in Chester, Delaware and Montgomery Counties for bridge deck sealing.

		TIP Program Years (\$ 000)											
Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
CON	STP	453											
CON	TOLL												
CON	NHPP	863											
		1,316	0	0	0	0	0	0	0	0	0	0	0
		Total FY2015-2018		1,316		Total FY2019-2022		0		Total FY2023-2026		0	

# DVRPC FY 2015-2018 TIP for PA

Final Version

Pennsylvania - Highway Program (Status: TIP)

## Various

MPMS# 97311 *Transportation Community Development Initiative (TCDI) Administration*

LIMITS Region-wide

No Let Date

IMPROVEMENT Other

MUNICIPALITIES: Various

FC:

AQ Code:X1

PLANNING AREA:

IPD:

PROJECT MANAGER:

CMP: Not SOV Capacity Adding

This project is for the administration of Transportation Community Development Initiative (TCDI) projects in the Pennsylvania Subregion of DVRPC, which includes Bucks, Chester, Delaware, and Montgomery Counties and The City of Philadelphia. The funding will help provide for the planning, analysis, or design initiatives which enhance the regional transportation system.

This project is a breakout of MPMS# 64652.

		TIP Program Years (\$ 000)											
Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
PRA	STU	100											
PRA	TOLL												
PRA	STU		120										
PRA	TOLL												
		100	120	0	0	0	0	0	0	0	0	0	0
		Total FY2015-2018		220		Total FY2019-2022		0		Total FY2023-2026		0	

# DVRPC FY 2015-2018 TIP for PA

Final Version

## Pennsylvania - Highway Program (Status: TIP)

### Various

MPMS# 102105 *Municipal Bridge Line Item*

New

LIMITS Region-wide

No Let Date

IMPROVEMENT Bridge Repair/Replacement

MUNICIPALITIES: Various

FC:

AQ Code:S19

PLANNING AREA:

IPD:

PROJECT MANAGER: L. Guarini

CMP: Not SOV Capacity Adding

This line item will provide funds for rehabilitation or replacement of municipal bridges that are identified through a regional review and selection process. Projects may be considered for retroactive reimbursement. A non-traditional, retroactive reimbursement process allows a municipality to perform work to fix or replace a bridge using local funds, and subsequently be reimbursed by PennDOT with state funds. Projects for retroactive reimbursement must be selected and approved by the region before a commitment of retroactive reimbursement would be made.

Bridges that were selected for retroactive reimbursement are:

Bucks County

Rockhill Road Bridge over Three Mile Run in East Rockhill Township \$1,059,094 (\$847,275 State 183/\$211,819 Local) (Bridge Key 7599);

Chester County

Howellville Road Bridge over Norfolk Southern Corp. in Tredyffrin Township \$2,100,000 (\$1,680,000 State 183/\$420,000 Local) (Bridge Key 10821);

Kulp Road Bridge over Pigeon Creek in East Coventry Township \$675,000 (\$540,000 State 183/\$135,000 Local) (Bridge Key 10774);

East Boot Road Bridge over Ridley Creek in East Goshen Township \$500,000 (\$400,000 State 183/\$100,000 Local)(Bridge Key 10781);

Dowlin Forge Bridge over Shamona Creek in Uwchlan Township \$207,000 (\$165,600 State 183/\$41,400 Local) (Bridge Key 10829);

Delaware County

South Swarthmore Ave. Bridge over Stoney Creek in Ridley Township \$1,084,000 (\$867,200 State 183/\$216,800 Local) (Bridge Key 15432);

Bullens Lane Bridge over Crum Creek in Ridley Township \$980,000 (\$784,000 State 183/\$196,000 Local) (Bridge Key 15433);

Montgomery County

Virginia Drive over Pine Run Bridge in Upper Dublin Township \$2,165,000 (\$1,732,000 State 183/\$433,000 Local) (Bridge Key 28046);

Virginia Drive over Pine Run Bridge in Upper Dublin Township \$1,850,000 (\$1,480,000 State 183/\$370,000 Local) (Bridge Key 28044);

Walnut St. Bridge over West Branch of Neshaminy Creek in Hatfield Township \$1,613,000 (\$1,290,400 State 183/\$322,600 local) (Bridge Key 28019);

County Line Road Bridge in Douglass Township \$594,500 (\$475,600 State 183/\$118,900 local) (Bridge Key 28052).

### TIP Program Years (\$ 000)

Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
CON	183		842										
CON	LOC		210										
CON	183			2,000									
CON	LOC			500									
CON	183				2,000								
CON	LOC				500								
CON	183					357							
CON	LOC					89							
CON	183							4,309					
CON	LOC							1,055					
		0	1,052	2,500	2,500	446	0	5,364	0	0	0	0	0
Total FY2015-2018				6,052		Total FY2019-2022		5,810		Total FY2023-2026		0	

# DVRPC FY 2015-2018 TIP for PA

Final Version

Pennsylvania - Highway Program (Status: TIP)

## Various

MPMS# 102106 Structurally Deficient Bridge Line Item

New

LIMITS Region Counties and City of Philadelphia

No Let Date

IMPROVEMENT Bridge Repair/Replacement

MUNICIPALITIES: Various

FC:

AQ Code:S19

PLANNING AREA:

IPD:

PROJECT MANAGER: L. Guarini

CMP: Not SOV Capacity Adding

This line item is a set aside for rehabilitation or replacement of candidate structurally deficient bridges that have been identified in the DVRPC region.

TIP Program Years (\$ 000)													
Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
CON	185					1,350							
CON	NHPP						2,000						
CON	185					10,659							
CON	BOF							9,764					
CON	STU							3,960					
CON	581							9,454					
CON	185							19,782					
CON	BOF								10,074				
CON	STP								2,000				
CON	581								12,158				
CON	185								17,073				
CON	STU									16,681			
CON	BOF									9,000			
CON	STP									15,000			
CON	185									36,750			
CON	STP										1,024		
CON	581										195		
		0	0	0	0	1,350	12,659	42,960	41,305	77,431	1,219	0	0
		Total FY2015-2018				0	Total FY2019-2022		98,274	Total FY2023-2026		78,650	

# DVRPC FY 2015-2018 TIP for PA

Final Version

## Pennsylvania - Highway Program (Status: TIP)

### Various

MPMS# 102118 Intersection Safety Implementation Program

Return

LIMITS Region Wide

Actl Let Date: 8/28/2014

IMPROVEMENT Intersection/Interchange Improvements

MUNICIPALITIES: Various

FC:

AQ Code:S6

PLANNING AREA:

IPD:

PROJECT MANAGER: George Dunheimer ADE CONSTR CMP:

Funding will be provided to allow District 6-0 to advertise a design/build project for "Intersection Safety Implementation Plan" (ISIP) to address the top ranked feasible locations within each of five countermeasure categories. The District will identify a typical set of improvements for each of the countermeasures from which the designer will consider and select the most appropriate, obtain PennDOT approval, and implement. Prioritization will involve a dual approach - working down the provided ISIP lists for each category, as well as focusing on ISIP locations that are also within the limits of the 225 District 6-0 locations currently identified on the statewide High Crash List (HCL). A GIS map will be utilized to overlay the ISIP/RSIP (Rural Safety Innovation Program)/HCL locations which will result in the addressing of safety needs on a corridor basis for highest efficiency.

TIP Program Years (\$ 000)														
Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	
CON	HSIP	1,004												
		1,004	0	0	0	0	0	0	0	0	0	0	0	
		Total FY2015-2018		1,004		Total FY2019-2022			0		Total FY2023-2026			0

MPMS# 102275 Study Line Item

New

LIMITS Regionwide

No Let Date

IMPROVEMENT Other

MUNICIPALITIES: Various

FC:

AQ Code:X1

PLANNING AREA:

IPD:

PROJECT MANAGER: CMP: Not SOV Capacity Adding

This line item is a set aside to address study candidates that were identified in the DVRPC region as part of the PennDOT Decade of Investment. As the studies, results, and recommendations are more completely understood, the recommendations can be considered for advancement to preliminary engineering.

TIP Program Years (\$ 000)														
Phase	Fund	<u>FY2015</u>	<u>FY2016</u>	<u>FY2017</u>	<u>FY2018</u>	<u>FY2019</u>	<u>FY2020</u>	<u>FY2021</u>	<u>FY2022</u>	<u>FY2023</u>	<u>FY2024</u>	<u>FY2025</u>	<u>FY2026</u>	
PE	581					2,614								
PE	581					10,686								
		0	0	0	0	2,614	10,686	0	0	0	0	0	0	
		Total FY2015-2018				0	Total FY2019-2022			13,300	Total FY2023-2026			0

# DVRPC FY 2015-2018 TIP for PA

Final Version

## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 102572** *High Friction Surfaces*

**Return**

**LIMITS** Various high-crash roadway curves in District 6-0

No Let Date

**IMPROVEMENT** Intersection/Interchange Improvements

**MUNICIPALITIES:** Various

**FC:**

AQ Code:S2

**PLANNING AREA:**

IPD:

**PROJECT MANAGER:** HNTB/N. Velaga

**CMP:** Not SOV Capacity Adding

This project was selected by District 6-0 Traffic Unit and Bureau of Highway Traffic Safety District and approved for HSIP funding by PennDOT's Central Office Safety Engineering and Risk Management section among a series of low/mid-cost systematic safety improvement projects. High Friction Surface projects were approved based on an analysis of crash locations that have a history of slide-off-the-road crashes. Funds will provide for the installation of high friction surfaces (HFS) (or the highest level of skid resistance) on top of existing roadway to decrease the number of crashes along high crash roadway curves throughout the DVRPC five-county region in Pennsylvania. Applying HFS contributes to vehicular safety by helping motorists maintain better control in dry and wet driving conditions, particularly at locations where they may brake excessively (e.g., when driving around a curve).

TIP Program Years (\$ 000)													
Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
CON	HSIP	120											
		0	120	0	0	0	0	0	0	0	0	0	0
		Total FY2015-2018		120		Total FY2019-2022		0		Total FY2023-2026		0	

**MPMS# 102665** *Signal Upgrade Line Item*

**New**

**LIMITS**

No Let Date

**IMPROVEMENT** Signal/ITS Improvements

**MUNICIPALITIES:** Various

**FC:**

AQ Code:A1

**PLANNING AREA:**

IPD:

**PROJECT MANAGER:**

**CMP:** Not SOV Capacity Adding

Signal Upgrade Line Item will be used to help address signal retiming hardware and communication related issues that are identified during the installation and implementation of traffic signal retiming (MPMS# 84457) on Critical Corridors in the region.

TIP Program Years (\$ 000)													
Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
CON	CAQ				1,000								
		0	0	0	1,000	0	0	0	0	0	0	0	0
		Total FY2015-2018		1,000		Total FY2019-2022		0		Total FY2023-2026		0	

# DVRPC FY 2015-2018 TIP for PA

Final Version

## Pennsylvania - Highway Program (Status: TIP)

### Various

MPMS# 104275 GHG/Energy Analysis

New

LIMITS Region-wide

No Let Date

IMPROVEMENT Other

MUNICIPALITIES: Various

FC:

AQ Code:X1

PLANNING AREA:

IPD:

PROJECT MANAGER: Jim Mosca

CMP: Not SOV Capacity Adding

This project is part of the FY2015 DVRPC UPWP and will update an electric vehicle ownership analysis, and develop a spreadsheet tool to determine the changes in energy use and greenhouse gas emissions associated with different electric vehicle and compressed natural gas vehicle deployment scenarios.

#### TIP Program Years (\$ 000)

Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
STUDY	SXF	80											
STUDY	LOC	20											
		100	0	0	0	0	0	0	0	0	0	0	0
		Total FY2015-2018		100		Total FY2019-2022		0		Total FY2023-2026		0	

MPMS# 104363 ISIP Open End Project

New

LIMITS Region-wide

Est Let Date: 6/23/2016

IMPROVEMENT Intersection/Interchange Improvements

MUNICIPALITIES: Various

FC:

AQ Code:S2

PLANNING AREA:

IPD:

PROJECT MANAGER: HNTB/N. Velaga

CMP: Not SOV Capacity Adding

District 6-0 will advertise an Open End (Construction On-Demand) project for "Intersection Safety Implementation Plan" to address the top-ranked feasible locations within five countermeasure categories. Prioritization will involve a dual approach, working down the provided ISIP lists for each category, as well as focusing on ISIP locations that are also within the limits of the 225 District 6-0 locations currently identified on the statewide High Crash List.

#### TIP Program Years (\$ 000)

Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
PE	sHSIP	1,575											
CON	sHSIP	1,941											
CON	sHSIP		984										
		3,516	984	0	0	0	0	0	0	0	0	0	0
		Total FY2015-2018		4,500		Total FY2019-2022		0		Total FY2023-2026		0	



# DVRPC FY 2015-2018 TIP for PA

Final Version

## Pennsylvania - Highway Program (Status: TIP)

### Various

MPMS# 104364 RDIP Open End Project

New

LIMITS Region-wide

Est Let Date: 6/23/2016

IMPROVEMENT Intersection/Interchange Improvements

MUNICIPALITIES: Various

FC:

AQ Code:S2

PLANNING AREA:

IPD:

PROJECT MANAGER: HNTB/G. Gumas

CMP: Not SOV Capacity Adding

District 6-0 will advertise an Open End (Construction On-Demand) project for "Roadway Departure Implementation Plan" to address the top-ranked feasible locations within eight countermeasure categories. Prioritization will involve a dual approach, working down the provided RDIP lists for each category, as well as focusing on RDIP locations that are also within the limits of the 225 District 6-0 locations currently identified on the statewide High Crash List.

TIP Program Years (\$ 000)													
Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
PE	sHSIP	1,575											
CON	sHSIP	1,941											
CON	sHSIP		984										
		3,516	984	0	0	0	0	0	0	0	0	0	0
		Total FY2015-2018		4,500		Total FY2019-2022		0		Total FY2023-2026		0	

MPMS# 104366 High Friction Surfaces (HFS) Treatment

New

LIMITS Region-wide

Est Let Date: 6/23/2016

IMPROVEMENT Intersection/Interchange Improvements

MUNICIPALITIES: Various

FC:

AQ Code:S2

PLANNING AREA:

IPD:

PROJECT MANAGER: HNTB/G. Gumas

CMP: Not SOV Capacity Adding

This project will install High Friction Surface dotted extension pavement markings at intersections, advance curve warning markings, and centerline/edge line rumble strips where applicable.

TIP Program Years (\$ 000)													
Phase	Fund	<u>FY2015</u>	<u>FY2016</u>	<u>FY2017</u>	<u>FY2018</u>	<u>FY2019</u>	<u>FY2020</u>	<u>FY2021</u>	<u>FY2022</u>	<u>FY2023</u>	<u>FY2024</u>	<u>FY2025</u>	<u>FY2026</u>
PE	sHSIP	284											
CON	HSIP		841										
CON	582		500										
CON	sHSIP		1,956										
		284	3,297	0	0	0	0	0	0	0	0	0	0
		Total FY2015-2018		3,581		Total FY2019-2022		0		Total FY2023-2026		0	

# DVRPC FY 2015-2018 TIP for PA

Final Version

## Pennsylvania - Highway Program (Status: TIP)

### Various

MPMS# 104369 Bridge Bundling 2015

LIMITS Various

Est Let Date: 10/22/2015

IMPROVEMENT Bridge Repair/Replacement

MUNICIPALITIES: Various

FC:

AQ Code:S19

PLANNING AREA:

IPD:

PROJECT MANAGER: Gannett/V. Genua

CMP: Not SOV Capacity Adding

The PennDOT Local Bridge Bundling program is a state sponsored program for local bridge projects, in which the purpose is to select and repair bridges that have the same structure type with the same design requirements and are located geographically close to each other in order to induce cost and time savings.

PennDOT has made a total of \$4,700,000 federal sSTP funds for 15 bridges in the DVRPC Pennsylvania region that are expected to be let for construction in October of 2015 and are listed as follows:

#### Bucks County:

1. Willow Road Bridge (Bridge Key 7629) in Northampton Township
2. Moyer Road Bridge (Bridge Key 7613) in Hilltown Township
3. Fredericks Bridge 14J08 (Bridge Key 7516) in East Rockhill Township
4. Warrington Township 33J02 (Bridge Key 7531) in Warrington Township
5. Alden Avenue 38H05 (Bridge Key 7606) in Falls Township
6. Springfield Street (Bridge Key 7643) in Springfield Township
7. Snowball Gate 42H02 (Bridge Key 7490) in Middletown Township
8. Perkasio Boro 20H02 (Bridge Key 7482) in Perkasio Borough

#### Delaware County:

9. Paper Mill Road Road (Bridge Key 15434) in Springfield Township

#### Montgomery County:

10. Easton Road (Bridge Key 27989) in Cheltenham Township
11. Orelan Mill Bridge 31B09 (Bridge Key 28042) in Springfield Township
12. Trewigtown Road 17A06 (Bridge Key 28018) in Hatfield Township
13. Keebler Road Bridge (Bridge Key 28125) in Upper Merion Township
14. Violet Lane Bridge (Bridge Key 47474) in Lower Merion Township
15. Remington Road Bridge (Bridge Key 28022) in Lower Merion Township

Construction for the Montgomery County bridges are funded in MPMS #105127

### TIP Program Years (\$ 000)

Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
PE	SSTP	250											
FD	SSTP	400											
ROW	SSTP	25											
UTL	SSTP	25											
CON	SSTP	1,108											
CON	SSTP		917										
		1,808	917	0	0	0	0	0	0	0	0	0	0
		Total FY2015-2018		2,725		Total FY2019-2022		0		Total FY2023-2026		0	

# DVRPC FY 2015-2018 TIP for PA

Final Version

## Pennsylvania - Highway Program (Status: TIP)

### Various

MPMS# 104639 *Travel Monitoring*

New

LIMITS Regionwide

No Let Date

IMPROVEMENT Other

MUNICIPALITIES: Various

FC:

AQ Code:X1

PLANNING AREA:

IPD:

PROJECT MANAGER: James Mosca

CMP:

This continuing project collects and processes travel data, the primary form being traffic counts, including hourly and 48 hour traffic volumes, for selected locations on the regional highway network. Data collected will provide input to VMT forecasting, the Traffic Monitoring System (TMS), the Congestion Management System (CMS), travel simulation models, individual project level analysis and traffic monitoring and trend analysis. This information is vital to all project studies that address highway deficiencies and proposed solutions. In addition, DVRPC facilitates the periodic review and revision of the highway functional classification system. Traffic count information from the database may be queried at <http://www.dvrpc.org/traffic>. To facilitate uninterrupted data collection, it will be necessary to procure new counting equipment, supplies, and repairs as needed.

#### Tasks:

- 1) Coordinate with PennDOT and member governments to review traffic count locations.
- 2) Establish weekly schedules, manpower assignments, and control procedures.
- 3) Collect traffic data at approximately 3,000 selected locations.
- 4) Upload data into the DVRPC Traffic Count system, process county, edit for quality control, and develop annual average daily traffic volumes.
- 5) Maintain and further automate traffic data systems and procedures to enhance productivity, including data obtained by third parties via remote sensors, etc.
- 6) Submit counts collected during the year electronically by specific deadlines established by PennDOT and member governments.
- 7) Input traffic count data files into the comprehensive regional GIS-T database for sharing over the internet.
- 8) Maintain an inventory of data collection and safety equipment, including purchasing new equipment with enhanced technology and capability, purchasing needed supplies such as road tube, and procuring necessary repairs if existing equipment gets damaged.
- 9) Collect travel data from non-highway modes, including pedestrian, bicycle and public transportation travel system characteristics and user traits.
- 10) DVRPC will also coordinate with PennDOT, the counties, and cities on the collection and validation of data on the local transportation asset inventory: locally owned public roads and bridges (eight to 20-foot spans), including georeferencing data.

#### Products:

- 1) Computer database file containing new and updated traffic counts
- 2) Transmittals of traffic data to DOTs, member governments, and interested parties

### TIP Program Years (\$ 000)

Phase	Fund	<u>FY2015</u>	<u>FY2016</u>	<u>FY2017</u>	<u>FY2018</u>	<u>FY2019</u>	<u>FY2020</u>	<u>FY2021</u>	<u>FY2022</u>	<u>FY2023</u>	<u>FY2024</u>	<u>FY2025</u>	<u>FY2026</u>
PRA	TOLL												
PRA	STU	120											
PRA	TOLL												
PRA	STU		120										
		120	120	0	0	0	0	0	0	0	0	0	0
		Total FY2015-2018		240		Total FY2019-2022		0		Total FY2023-2026		0	

# DVRPC FY 2015-2018 TIP for PA

Final Version

## Pennsylvania - Highway Program (Status: TIP)

### Various

MPMS# 105118 Large Sign Structure Priority Repairs 1

New

LIMITS Bucks County and Philadelphia

No Let Date

IMPROVEMENT Roadway Rehabilitation

MUNICIPALITIES: Various

FC:

AQ Code:X11

PLANNING AREA:

IPD:

PROJECT MANAGER: Plans/C. Veiga

CMP:

This project consists of high priority repairs to large sign structures within District 6-0 (Bucks & Philadelphia Counties). The high priority maintenance items have been identified through routine inspections conducted in accordance with PennDOT's Publication 238. The goal of this project is to repair all outstanding high priority sign structures to preserve public safety.

The type of work items that are associated with this project include: replace rusted sign clips, repair bent support angles and deteriorated grout pads, close gaps between sign panels, replace missing junction box locks and hand hole screws, replace missing luminaire lenses, bulbs, and shrouds, replace sign connection hardware, remove graffiti and debris at foundations, remove rust and spot paint, replace anchor bolts, correct hole alignments and install bolts, reconnect inspection walkway chains and replace protective netting around base plates, replace missing strut end caps, secure walkway grating supports, replace damaged sections of walkway, replace missing U-bolts, and secure loose wires.

TIP Program Years (\$ 000)													
Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
CON	TOLL												
CON	STU	1,146											
CON	TOLL												
CON	STU		986										
CON	TOLL												
CON	STU			602									
		1,146	986	602	0	0	0	0	0	0	0	0	0
		Total FY2015-2018		2,734		Total FY2019-2022		0		Total FY2023-2026		0	

MPMS# 105351 SHRP2 Econ Anlys Tool C11

New

LIMITS

No Let Date

IMPROVEMENT Other

MUNICIPALITIES: Various

FC:

AQ Code:NRS

PLANNING AREA:

IPD:

PROJECT MANAGER: Karen Russel

CMP:

SHRP2 Lead Adopter Incentive Implementation Assistance to deploy the Wider Economics Benefits Tools (C11) within the Economic Analysis Tools bundle. The primary goal of the Economic Analysis Tools bundle is to increase awareness and understanding of these tools, particularly among transportation professionals, and advance the state of the practice in transportation economic analysis through continual development of case studies and tool enhancements.

TIP Program Years (\$ 000)													
Phase	Fund	<u>FY2015</u>	<u>FY2016</u>	<u>FY2017</u>	<u>FY2018</u>	<u>FY2019</u>	<u>FY2020</u>	<u>FY2021</u>	<u>FY2022</u>	<u>FY2023</u>	<u>FY2024</u>	<u>FY2025</u>	<u>FY2026</u>
PRA	SXF	125											
		125	0	0	0	0	0	0	0	0	0	0	0
		Total FY2015-2018			125	Total FY2019-2022			0	Total FY2023-2026			0

# DVRPC FY 2015-2018 TIP for PA

Final Version

Pennsylvania - Highway Program (Status: TIP)

## Various

**MPMS# 105382** *Large Sign Structure Priority Repairs 2*

**New**

**LIMITS** Chester, Delaware, and Montgomery Counties

No Let Date

**IMPROVEMENT** Roadway Rehabilitation

**MUNICIPALITIES:** Various

**FC:**

AQ Code:X11

**PLANNING AREA:**

IPD:

**PROJECT MANAGER:** Plans/C. Veiga

**CMP:**

This project consists of high priority repairs to large sign structures within District 6-0 (Chester, Delaware, & Montgomery Counties). The high priority maintenance items have been identified through routine inspections conducted in accordance with PennDOT's Publication 238. The goal of this project is to repair all outstanding high priority repairs to preserve public safety.

The type of work items that are associated with this project include: replace rusted sign clips, repair bent support angles and deteriorated grout pads, close gaps between sign panels, replace missing junction box locks and hand hole screws, replace missing luminaire lenses, bulbs, and shrouds, replace sign connection hardware, remove graffiti and debris at foundations, remove rust and spot paint, replace anchor bolts, correct hole alignments and install bolts, reconnect inspection walkway chains and replace protective netting around base plates, replace missing strut end caps, secure walkway grating supports, replace damaged sections of walkway, replace missing U-bolts, and secure loose wires.

### TIP Program Years (\$ 000)

Phase	Fund	<u>FY2015</u>	<u>FY2016</u>	<u>FY2017</u>	<u>FY2018</u>	<u>FY2019</u>	<u>FY2020</u>	<u>FY2021</u>	<u>FY2022</u>	<u>FY2023</u>	<u>FY2024</u>	<u>FY2025</u>	<u>FY2026</u>
CON	TOLL												
CON	STU	1,254											
CON	TOLL												
CON	STU			2,481									
		1,254	0	2,481	0	0	0	0	0	0	0	0	0
		<b>Total FY2015-2018</b>		3,735		<b>Total FY2019-2022</b>		0		<b>Total FY2023-2026</b>		0	

# DVRPC FY 2015-2018 TIP for PA

Final Version

## Pennsylvania - Highway Program (Status: TIP)

### Various

MPMS# 106654 I-95 Transp Demand Mgmt (TMA)

#### LIMITS

No Let Date

IMPROVEMENT Other

MUNICIPALITIES: Various

FC:

AQ Code:NRS

PLANNING AREA:

IPD:

PROJECT MANAGER: EE/E. Elbich

CMP:

This project will provide for coordination activities among multiple Transportation Management Associations (TMAs) in Bucks, Delaware, and Philadelphia counties to assist PennDOT with mitigating congestion on the I-95 corridor by reducing the number of drivers on the road during construction, particularly during AM and PM peak commute hours. Outreach efforts will focus on select employers with employees using the corridor; some efforts will reach those same employees directly. Outreach activities will include sharing and supplementing efforts to inform regular users of upcoming construction schedules, in addition to educating and assisting employers to help employees who are regular users with finding viable alternatives to driving alone along this corridor, utilizing Travel Demand Management (TDM) techniques.

Interstate 95 is a critical corridor for the movement of commuters and goods between the City of Philadelphia and neighboring Bucks and Delaware counties in Pennsylvania. Delays from traffic congestion, already commonplace on I-95 during peak commute times, are further exacerbated by ongoing construction work. Proactive steps are needed to ensure that the public is educated on both the nature and timing of these upcoming construction projects and made aware of alternative means of commuting that will help to lessen the impact of these projects on traffic flow, with a specific focus on employer concerns (on-time arrivals, reliable commute times, reducing use of vacation/sick time, improving employee morale, etc.).

### TIP Program Years (\$ 000)

Phase	Fund	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
PRA	TOLL												
PRA	STU		225										
		0	225	0	0	0	0	0	0	0	0	0	0
		Total FY2015-2018		225		Total FY2019-2022		0		Total FY2023-2026		0	

Total For	2015	2016	2017	2018	2015-2018	2019-2022	2023-2026
Various	\$60,692	\$57,539	\$54,631	\$65,056	\$237,918	\$507,981	\$676,192