

# ▶ Outreach 2016

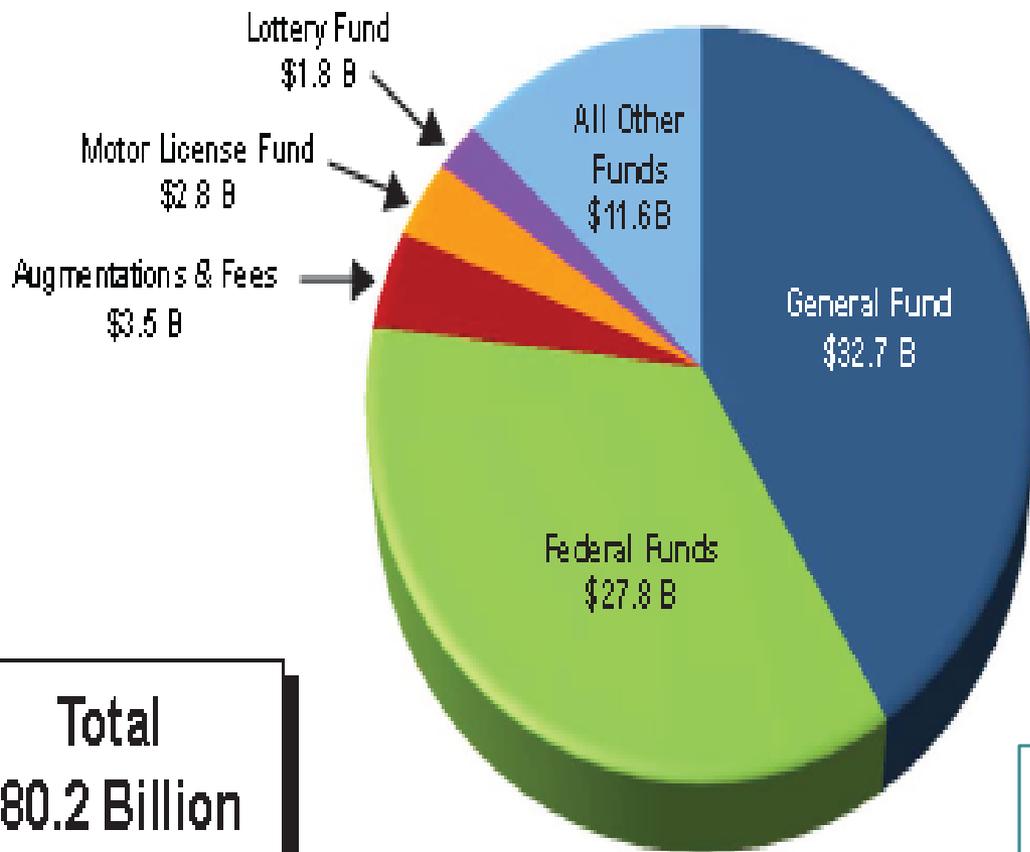


## Agenda

- Budget in Brief
- Liquid Fuels Distributions
- 2016 Construction Projects
- 2017-2019 Projects in Design
- County Budgets
- County Transformation
- P3 – Public/Private Partnership for Bridges - update
- County Maintenance Overview

# Total Operating Budget

## 2016-17 Budget Overview



# Total Operating Budget

**Total  
\$80.2 Billion**

**\$7.84 Billion PennDOT's  
Total Budget**

# Motor License Fund

## INCOME

(Dollars in Millions)



Liquid Fuels Tax - \$1,766

Licenses and Fees - \$1,003

Other - \$47

Total Income.....	\$2,816
Beginning Balance....	34
<b>TOTAL.....</b>	<b>\$2,850</b>

## OUTGO

(Dollars in Millions)



Highways & Bridges - \$1,282

State Police - \$814

Local Subsidy - \$328

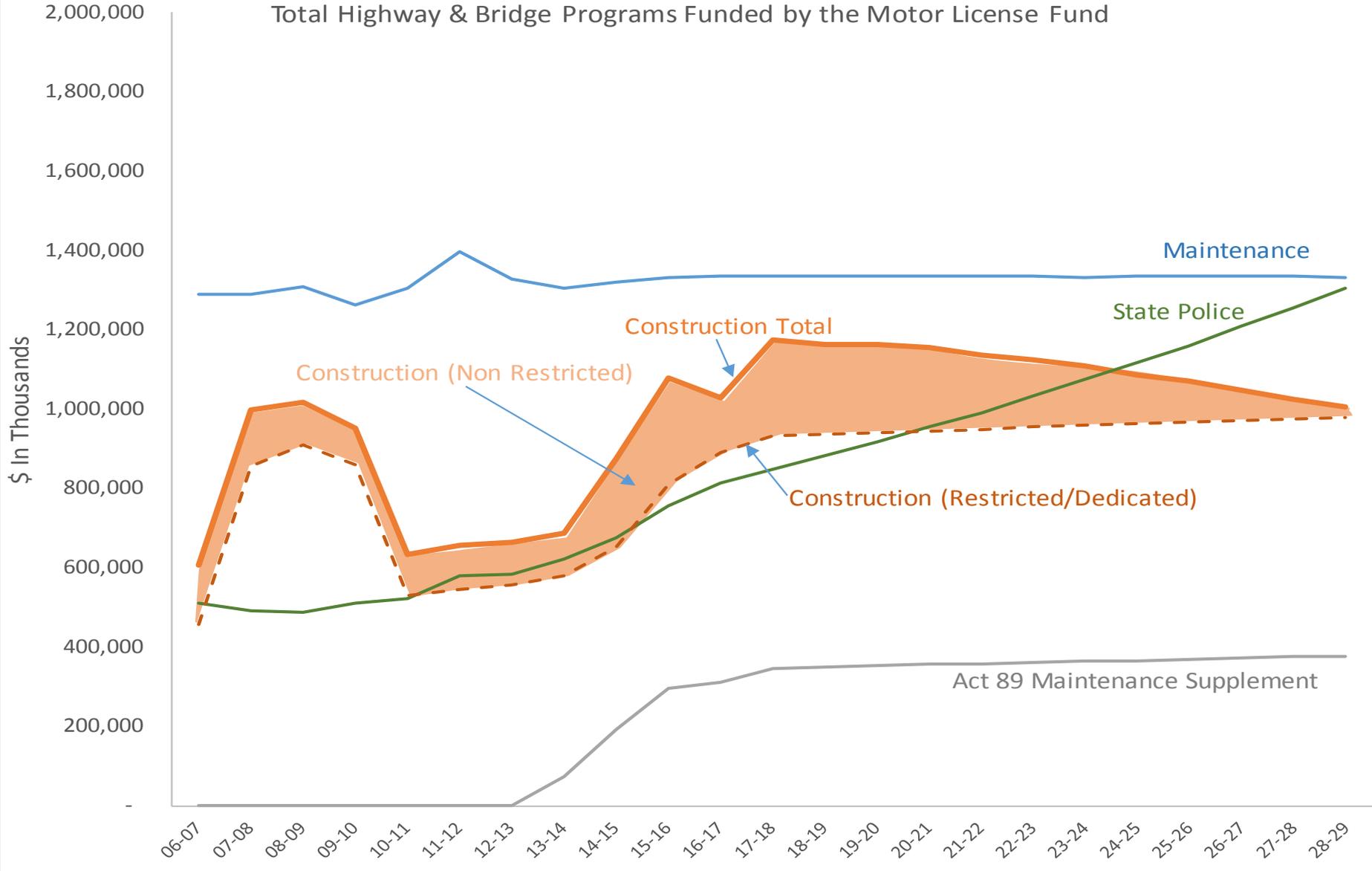
Other - \$207

Licensing & Safety - \$158

Debt Service - \$43

Total Outgo.....	\$2,832
Ending Balance.....	18
<b>TOTAL.....</b>	<b>\$2,850</b>

**Exhibit 1-1**  
**PennDOT Present Funding Forecast**  
**Total Highway & Bridge Programs Funded by the Motor License Fund**

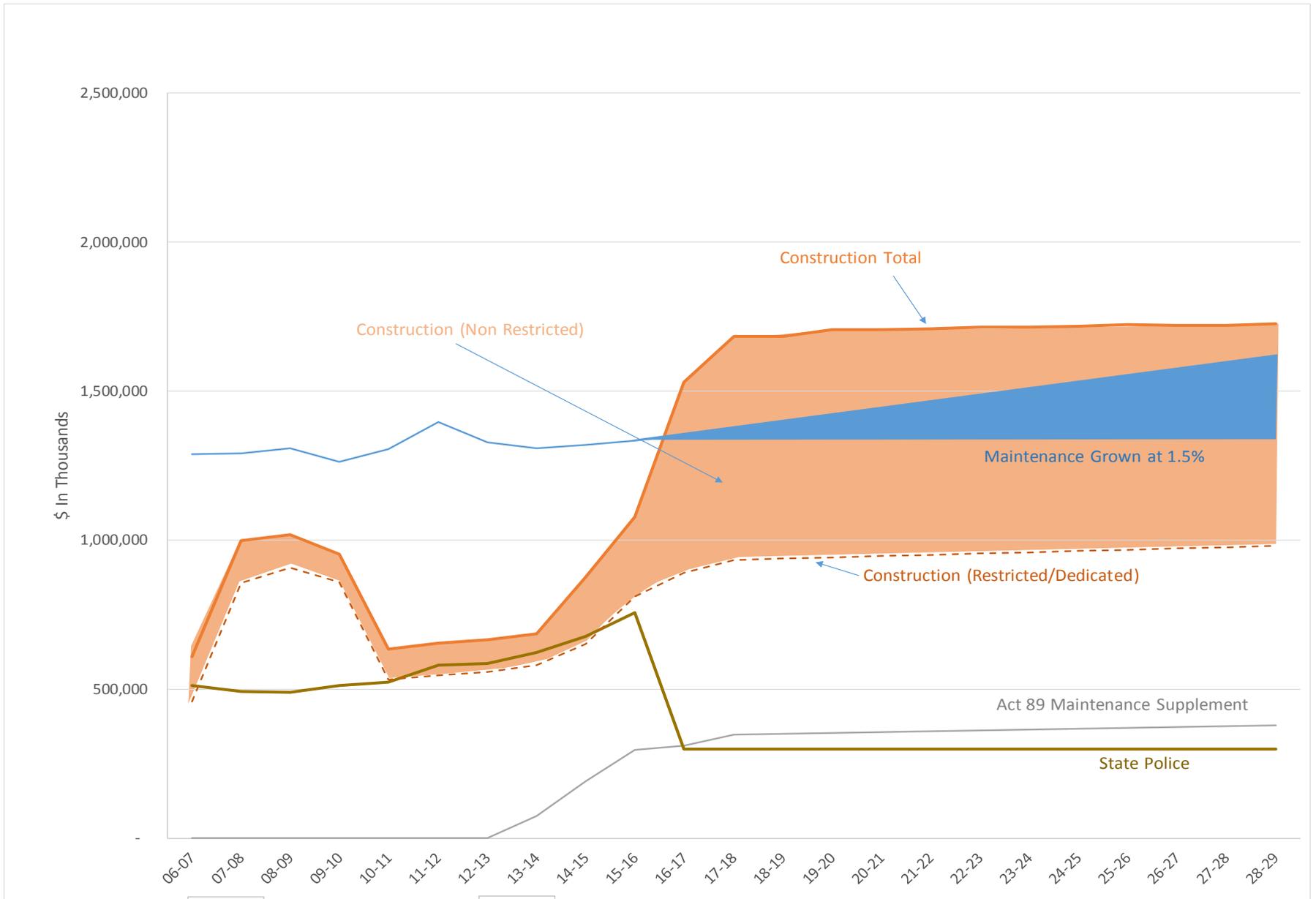


\*07-08 Act 44 of 2007

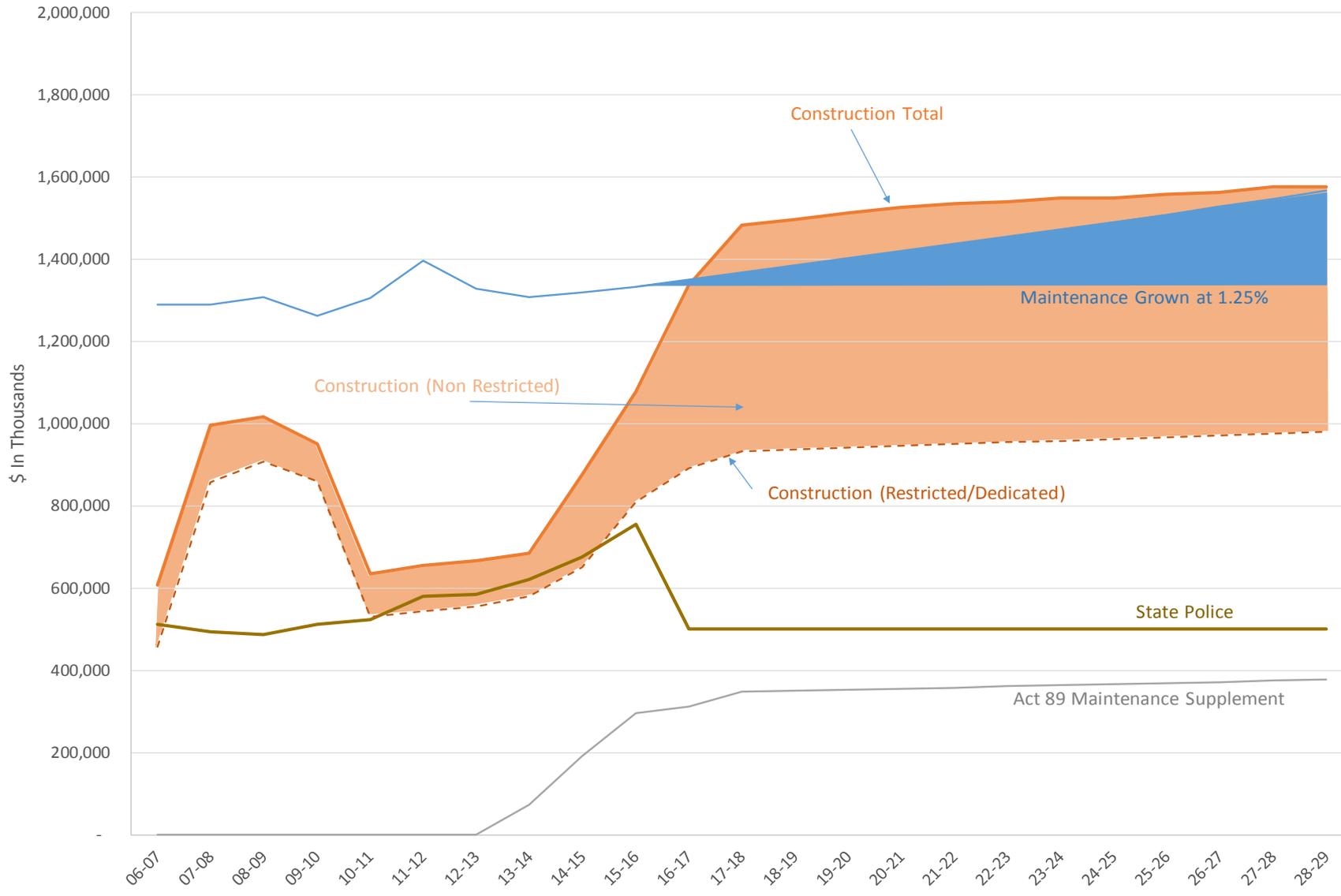
\*13-14 Act 89 of 2013

New 12 Year Program FY 17-28

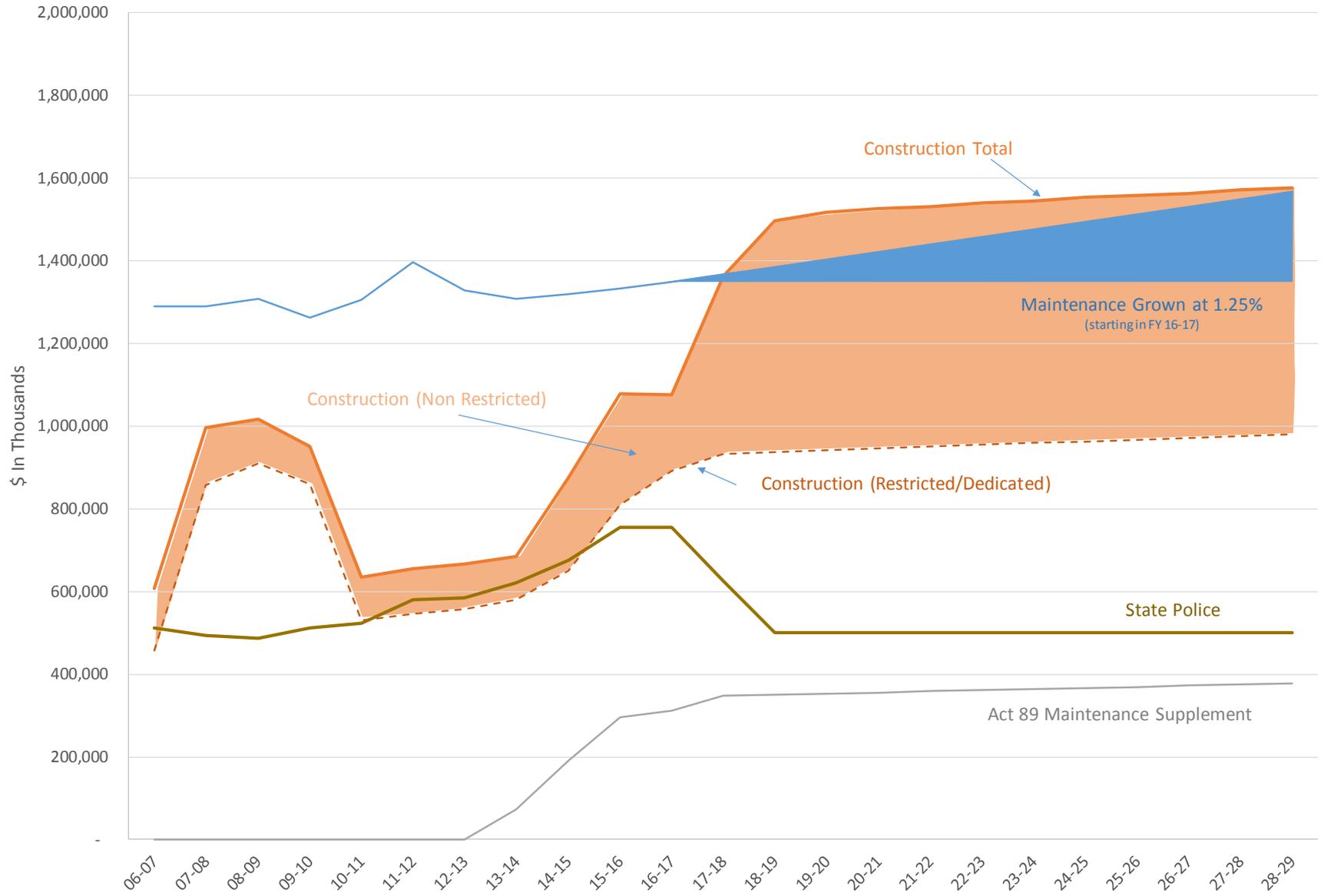
**PennDOT Present Funding Forecast**  
**Assuming \$300 Million Cap on the State Police in the MLF**  
**Total Highway & Bridge Programs Funded by the Motor License Fund**



**PennDOT Present Funding Forecast**  
**Assuming \$500 Million Cap on the State Police in the MLF**  
**Total Highway & Bridge Programs Funded by the Motor License Fund**



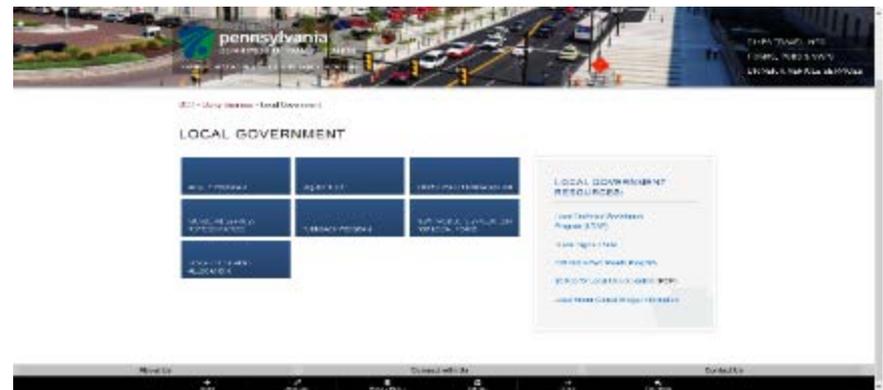
**PennDOT Present Funding Forecast**  
**Assuming \$755, \$625, and \$500 Million Cap on the State Police in the MLF**  
**Total Highway & Bridge Programs Funded by the Motor License Fund**



# Liquid Fuels Payments

- 2013 - Before Act 89 - \$320.8 million
- 2015 - \$381 million
- 2016 - \$445.3 million
- 16% increase, \$64 million additional funds (15/16)
- 120,039 miles of public roads; 72,759 owned by municipalities
- For the complete list of local payments, visit the “Municipal Liquid Fuels Program” Local Government page.

[www.penndot.gov](http://www.penndot.gov)  
Doing Business  
Local Government



## Butler County

- 2016 – \$7,618,351.44
- 2015 - \$6,508,682.03
- Percent Increase – 17.0%
- Miles of roads – 1,436.48



# ▶ Outreach 2016



# Scholars Run Bridge

- ECMS #24677
- SR 19
- Butler County
  - Jackson Twp.
- Bridge Replacement
- Cost: \$3,264,726
- C.H. & D. Enterprises Inc.
- Let: 10-9-14



South of Hooker #1 Bridge, Greece City Bridge, Sandy Point Bridge, Harrisville Bridge

- ECMS #83969
- SR 38
- Butler County
  - Concord Twp.
- Bridge Replacement
- Cost: \$2,551,372
- Plum Contracting, Inc.
- Let: 12-11-14



# Cunningham Street Bridge and West New Castle Street Bridge

- ECMS #24680
- SR 68
- Butler County
  - City of Butler
- Bridge Replacements
- Cost: \$2,071,260
- Carmen Paliotta Contracting Inc
- Let: 1-8-15
- Detour



# Butler County Crack Seal

- ECMS #24680
- Various SR
- Butler County
- Crack Sealing



SR	BEG SEG	BEG OFF	END SEG	END OFF
422*	320	0	460	1028
79	776	0	960	0
79	777	0	961	0
68	620	0	800	3526
422	460	1029	630	1479
19	10	0	190	0
268	10	0	300	2392
8	10	0	280	0
8	11	0	281	0
68	200	0	280	0
38	110	0	570	2109

\* This section of road is Concrete

# Henricks Road Bridge

- ECMS #24694
- SR 1016
- Butler County
  - Butler and Summit Twps.
- Bridge Replacement
- Cost: \$1,635,283
- MEKIS Construction Corporation
- Let: 7-2-15
- Detour



# Herman Road Bridge

- ECMS #78022
- SR 2002
- Butler County
  - City of Butler
- Bridge Replacement
- Cost: \$1,662,798
- MEKIS Construction Corporation
- Let: 10-1-15
- Temporary Signal



# PA 308 W. Sunbury Bridge

- ECMS #24568
- SR 308
- Butler County
  - Clay Twp.
- Bridge Replacement
- Cost: **\$699,986.51**  
J.C. Lee Construction  
And Supply Company
- Let: 1-7-16
- Detour



# Lindsey Road Bridge

- ECMS #24774
- SR 528
- Butler County
  - Jackson Twp.
- Bridge Replacement
- Cost: \$6,045,333
- Glenn O. Hawbaker, Inc.
- Let: 1-7-16
- Temporary Signal



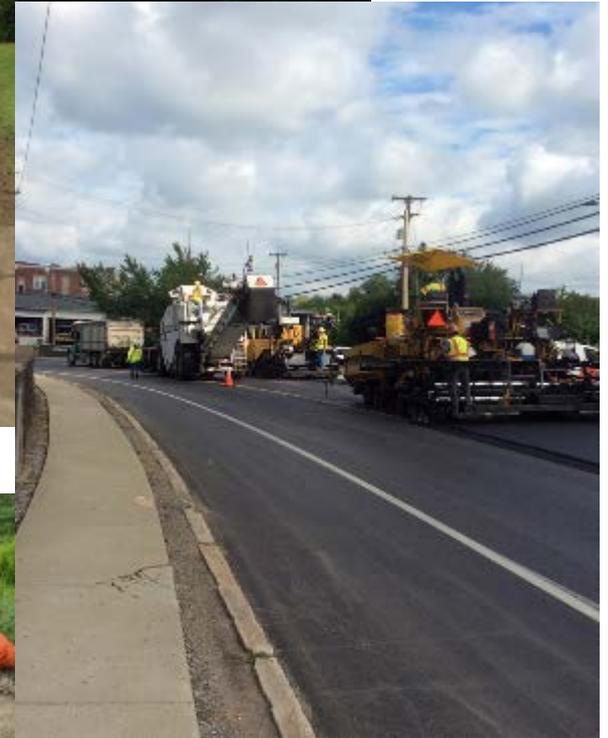
# I-79 Slippery Rock Bridges Preservation

- ECMS #104452
- I-79
- Butler County
  - Worth Twp.
- Bridge Preservation Activities
- Cost: \$2,148,575
- Mekis Construction Corporation
- Let: 3-10-16



# 2016 Butler SIP

- ECMS #105506
- Various
- Butler County
- Resurfacing
- Cost: \$1,911,960
- Shields Asphalt Paving, Inc.
- Let: 3-10-16



# City of Butler PM

- ECMS #105505
- SR 8
- Butler County
  - City of Butler
- Resurfacing/Overlays
- Cost: \$820,876
- A. Folino  
Construction Inc.
- Let: 3-10-16



# Freedom Road Intersection Improvement

- ECMS #94932
- SR 3020
- Butler County
  - Cranberry Twp
- Widening – Signal Improvements
- Cost: < \$500,000
- Let: 3-24-16



# SR 488 Resurfacing

- ECMS #91293
- SR 488
- Butler County
  - Muddy Creek Twp
- Resurfacing/Overlays
- Cost: \$1.0 to \$2.5 million
- Let: 4-7-16



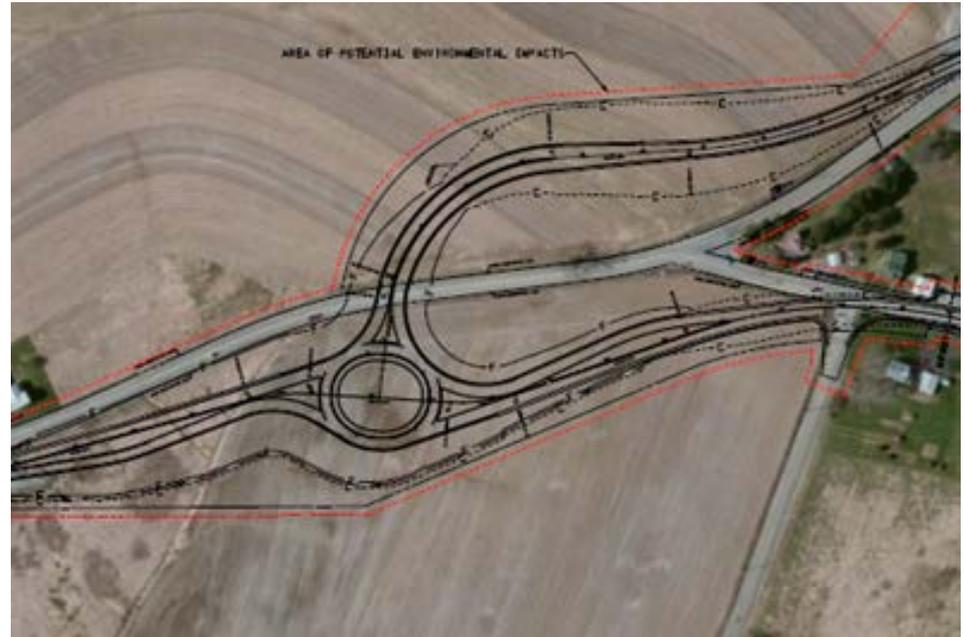
# I-79 Epoxy Overlays

- ECMS #104451
- I-79
- Butler County
  - Cranberry, Jackson, Muddy Creek and Worth Twps
- Deck Rehabilitation
- Cost: < \$1.0 million
- Let: 4-7-16



# Cox's Corner Intersection

- ECMS #90309
- SR 228
- Butler County
  - Clinton Twp
- Roundabout/New Alignment
- Cost: \$2.5 to \$5.0 million
- Let: 5-19-16



## 2016 Guiderail – 5 Contracts

- ECMS #105757 - Armstrong County
  - ECMS #105758 - Butler County
  - ECMS #105759 - Clarion County
  - ECMS #105760 - Indiana County
  - ECMS #105761 - Jefferson County
- 
- Let: 5-19-16
  - Completion: 6-30-17



## 2016 Small Paint

- ECMS #105762
- Various
- District Wide
- Miscellaneous Paint
- Cost: <\$200,000
- Let: 5-19-16



# ▶ 2017-2019 Projects in Design



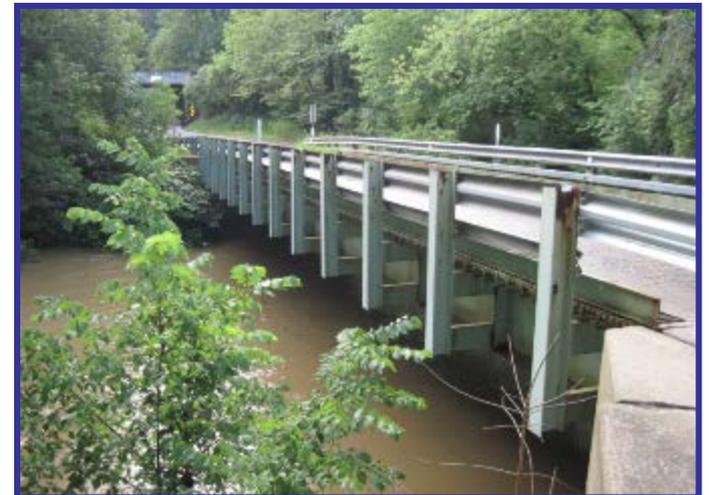
# ➤ Zelenople Borough No. 2 Bridge – P3

- PA 68
- Bridge Replacement
- Zelenople Borough
- Glade Run
- Phased Construction
- Private Public Partnership
- Plenary Walsh Keystone Partners
- 2016 Construction



# ▶ McCalmont No. 1 Bridge – P3

- Route 3004
- Bridge Replacement
- Butler Township
- Connoquenessing Creek
- Detour
- Private Public Partnership
- Plenary Walsh Keystone Partners
- 2016 Construction



# Brownsdale Road Bridge – P3

- Route 3010
- Bridge Replacement
- Forward Township
- Glade Run
- Detour
- Private Public Partnership
- Plenary Walsh Keystone Partners
- 2016 Construction



# Ringneck Bridge – P3

- Route 1025
- Bridge Replacement
- Summit Township
- Bonnie Brook
- Detour
- Private Public Partnership
- Plenary Walsh Keystone Partners
- 2017 Construction



# Rider Church Bridge – P3

- Route 308
- Bridge Replacement
- Center Township
- Tributary to Stony Run
- Detour
- Private Public Partnership
- Plenary Walsh Keystone Partners
- 2017 Construction



# ▶ South of Queen Junction – P3

- Route 4002
- Bridge Replacement
- Clay Township
- Bessemer and Lake Erie Railroad
- Detour
- Private Public Partnership
- Plenary Walsh Keystone Partners
- 2017 Construction



# ▶ Rock Lake SB Ramp No. 2 Bridge – P3

- Route 8005
- Bridge Replacement
- Jackson Township
- Route 19 Northbound
- Detour
- Private Public Partnership
- Plenary Walsh Keystone Partners
- 2017 Construction



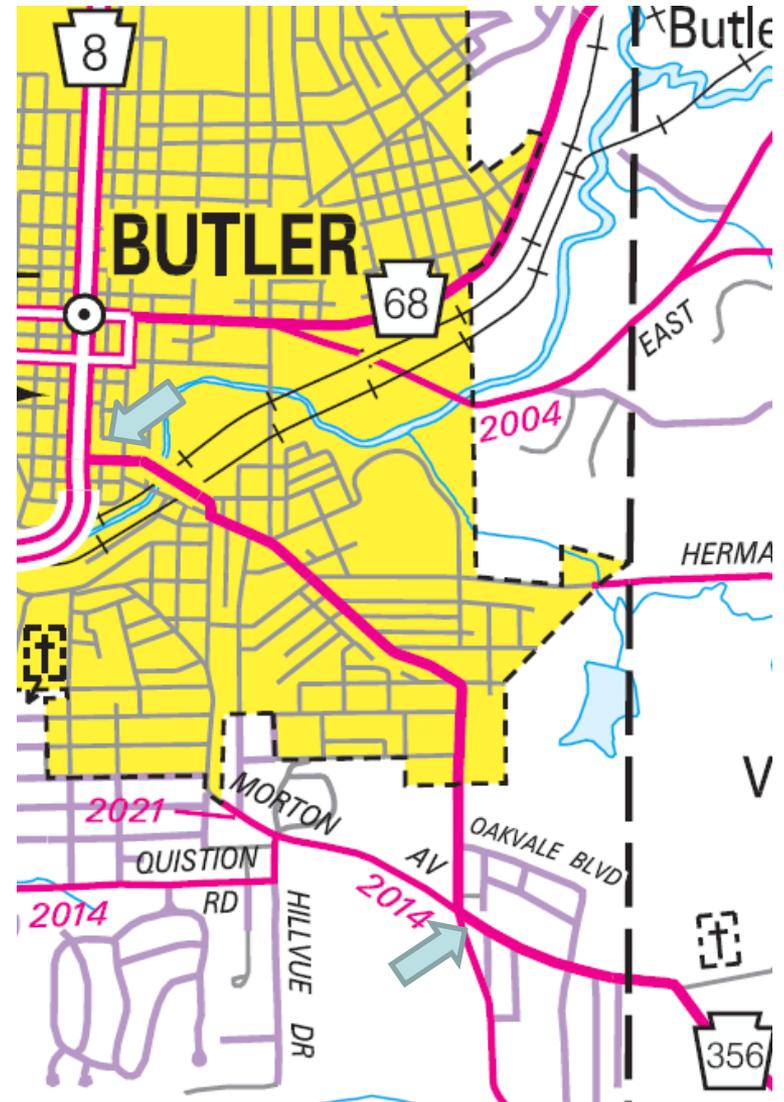
# Seneca School Bridge – P3

- Route 3027
- Bridge Replacement
- Jackson Township
- Little Connoquenessing Creek
- Phased Construction
- Private Public Partnership
- Plenary Walsh Keystone Partners
- 2017 Construction



# City of Butler Resurfacing

- Route 356
- Resurfacing
- City of Butler
- Construction in 2017
- Construction Estimate: \$500K - \$1M



# Cabot Bridge

- Route 2010
- Bridge Replacement
- Winfield Township
- Little Buffalo Creek
- Off line with Temporary Detour
- Construction in 2017
- Construction Estimate:  
\$1M - \$2.5M



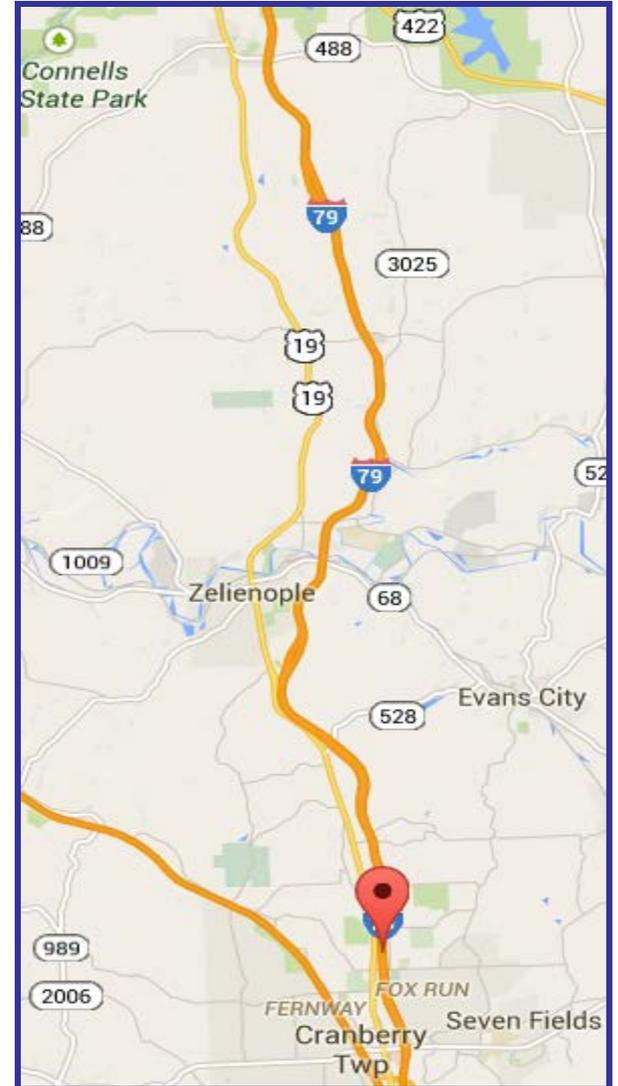
# Moraine State Park Access

- Routes 422 and 8002 (Ramps K & J)
- New Access
- Muddy Creek and Worth Townships
- Construction in 2017
- Construction Estimate: \$2.5M - \$5M



# Interstate 79

- Interstate 79
- Preventative Maintenance
- Cranberry, Jackson, Lancaster and Muddy Creek Townships
- Construction in 2017-2019
- Construction Estimate: \$25M - \$30M/Section



# PA 38 over Connoquenessing

- Route 38
- Bridge Replacement
- Center Township
- Connoquenessing Creek
- Phased Construction
- Construction in 2018
- Construction Estimate:  
\$2.5M - \$5M



# SR 4012 Group Bridges

- Route 4012
- Bridge Replacements
- Marion Township
- McMurray Run, North Branch of Slippery Rock Creek and Slippery Rock Creek
- Detour
- Construction in 2018/2019
- Construction Estimate:  
\$5M - \$7.5M



# West Winfield #1 Bridge

- Route 1019
- Bridge Replacement
- Winfield Township
- Rough Run
- Phased Construction
- Construction in 2018
- Construction Estimate:  
\$1M - \$2.5M



## PA 38 over Tributary of Connoquenessing Creek

- Route 38
- Bridge Replacement
- Concord Township
- Connoquenessing Creek Tributary
- Phased Construction
- Construction in 2018
- Construction Estimate:  
\$1M - \$2.5M



# Freedom Road Turnpike Bridge

- Route 3020
- Bridge Replacement
- Cranberry Township
- I-76 (PA Turnpike)
- Maintain Three Lanes
- Construction in 2018
- Construction Estimate:  
\$10M - \$15M



## SR 3015 Watters Culvert and Washington Street Culvert

- Route 3015
- Bridge Replacements
- Forward Township
- Breakneck Creek Tributary
- Phased Construction w/ Signal, 2 Lanes w/ shoulder closure
- Construction in 2018
- Construction Estimate: \$1M - \$2.5M



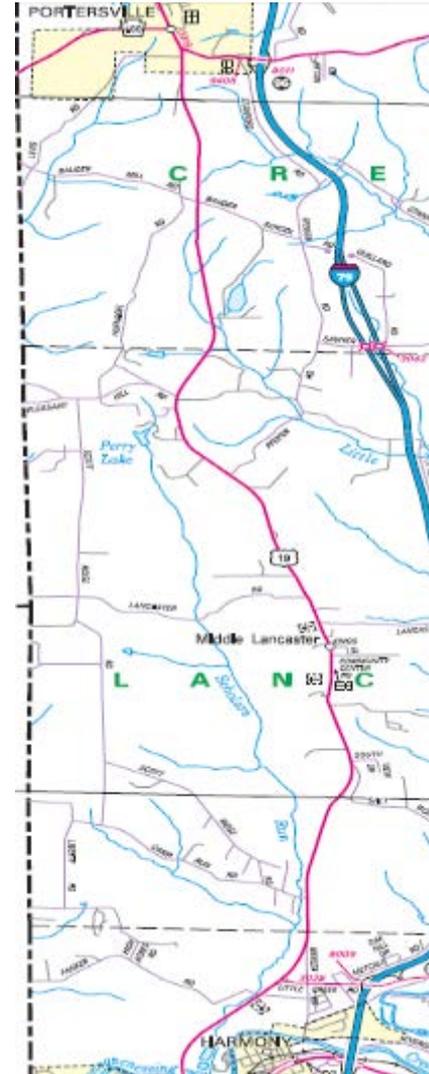
Watters Culvert



Washington Street Culvert

# Harmony North PM

- Route 19 - Resurfacing
- Jackson Township
- Construction in 2018
- Construction Estimate:  
\$2.5M - \$5M



# Pittsburgh Street Intersection

- Route 228
- Safety Improvements, Turning Lanes and Culvert Replacement
- Adams Township
- Construction in 2018
- Construction Estimate: \$5M - \$7.5M



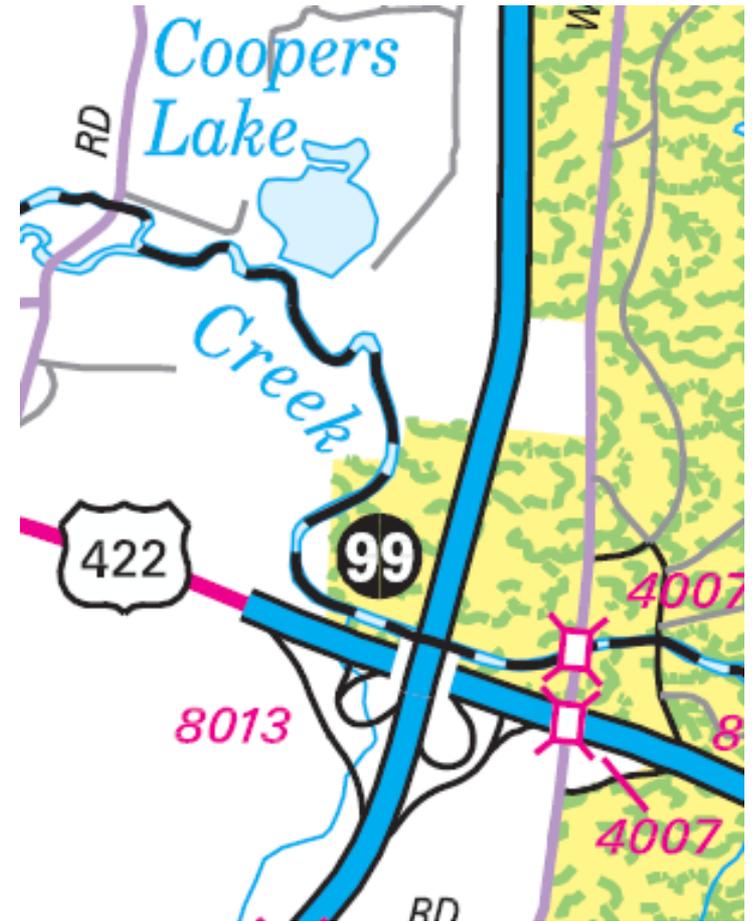
# PA 268 over Lowrey Run

- Route 268
- Bridge Replacement
- Allegheny Township
- Lowrey Run
- Construction in 2019
- Construction Estimate:  
\$1M - \$2.5M



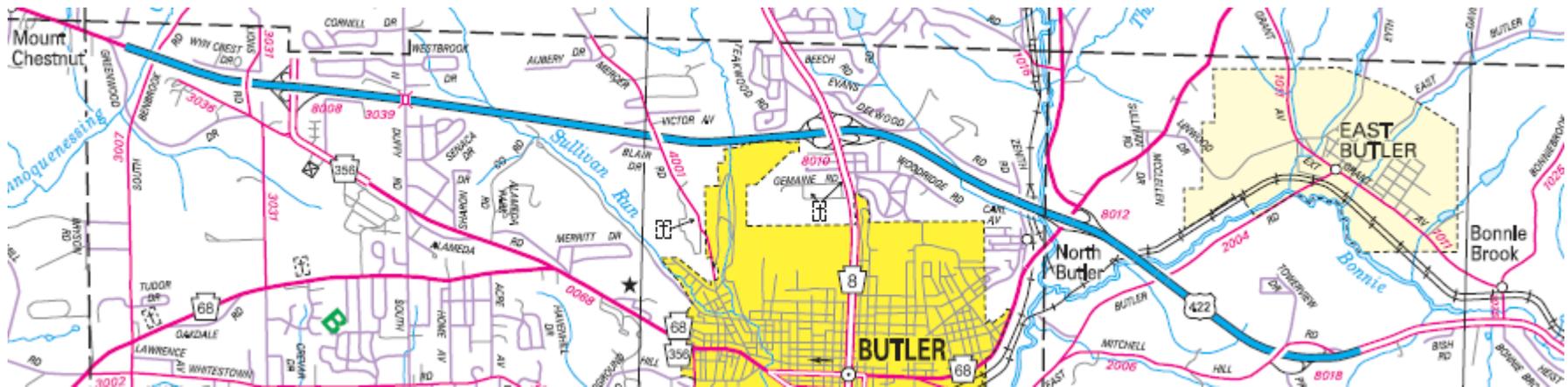
# US 422 Shawood Pipe

- Route 422
- Culvert Replacement
- Muddy Creek Township
- Muddy Creek Tributary
- Construction in 2019
- Construction Estimate:  
\$7.5M - \$10M



# Butler Bypass

- Route 422 - Concrete Patching and Resurfacing
  - Butler, Summit, Connoquenessing and Franklin Townships
- Construction in 2019
- Construction Estimate: \$7.5M - \$10M



# State Game Lands 95 Bridge

- Route 268
- Bridge Replacement / Slope Failure Repair
- Parker Township
- Bear Creek
- Phased Construction
- Construction in 2019, Not Fully Funded
- Construction Estimate: \$5M - \$7.5M



# 3 Degree Road Intersection

- Route 228
- Safety Improvements
- Turning lanes
- Roadway Realignment
- Adams Township
- Construction in 2020,  
Not Fully Funded
- Construction Estimate:  
\$15M - \$20M



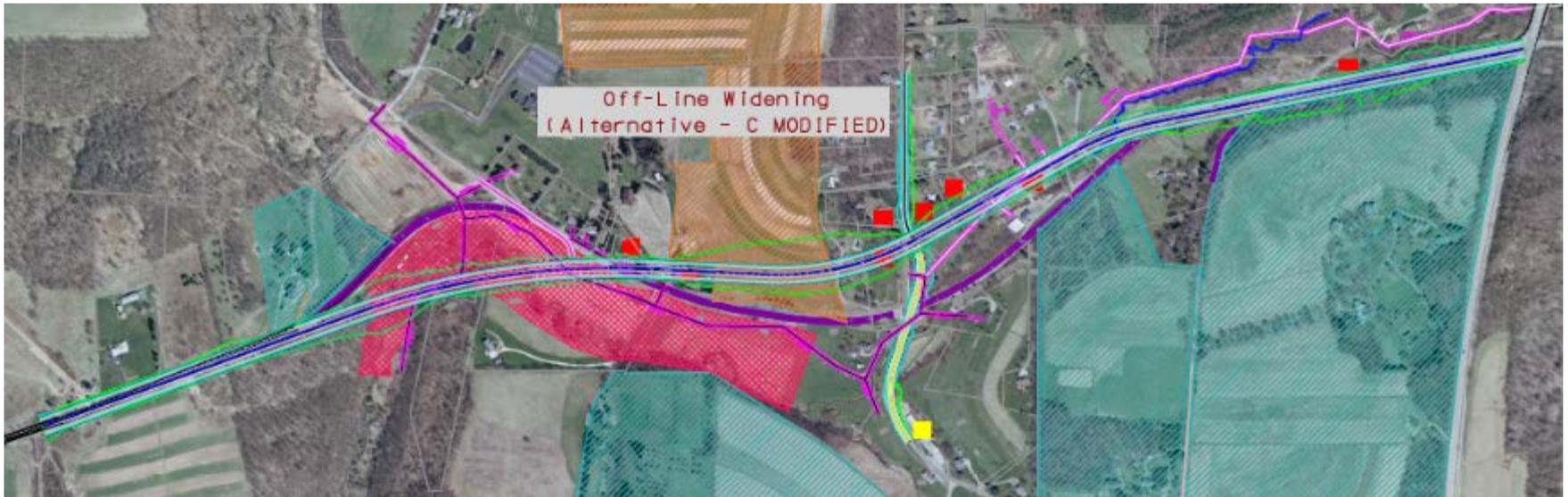
# SR 3031 Lions Road Bridge

- Route 3031
- Bridge Replacement
- Butler Township
- Route 422
- Construction in 2020, Not Fully Funded
- Construction Estimate: \$1M - \$2.5M



# Balls Bend

- Route 228 - Highway Realignment
- Middlesex Township
- Construction Not Funded
- Construction Estimate: \$20M - \$25M



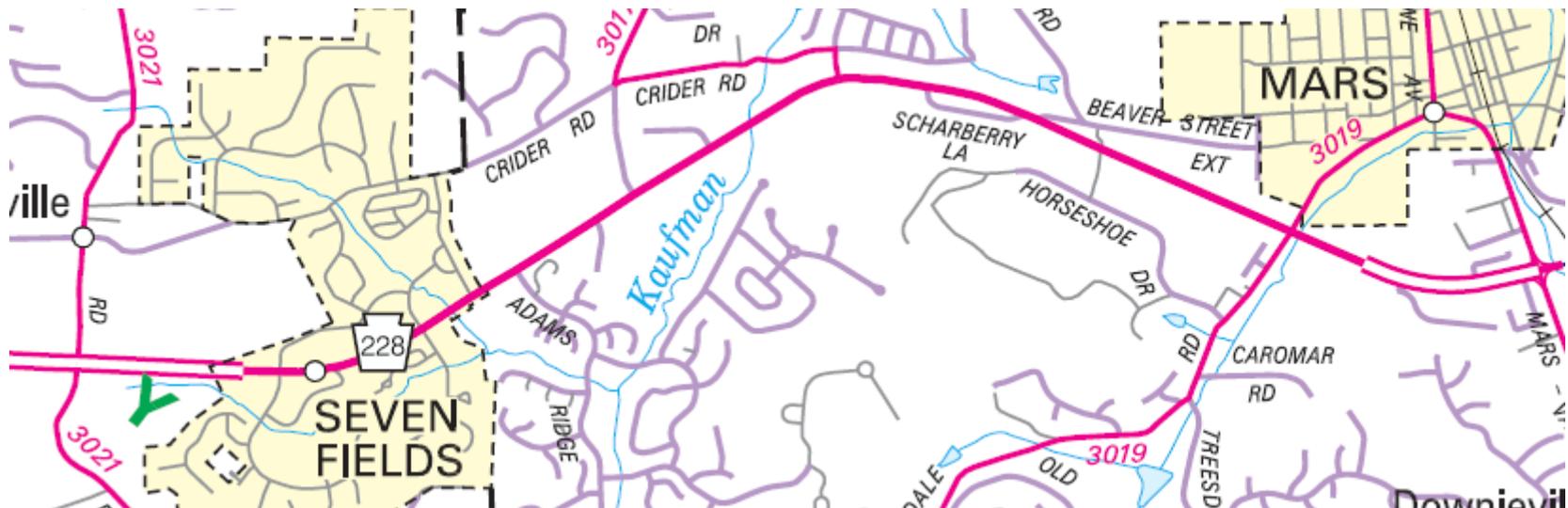
# PA 68 Over Buffalo Creek

- Route 68
- Bridge Replacement
- Chicora Borough
- Buffalo Creek
- Engineering starts in 2016
- Phased Construction
- Construction Not Funded
- Construction Estimate:  
\$2.5M - \$5M



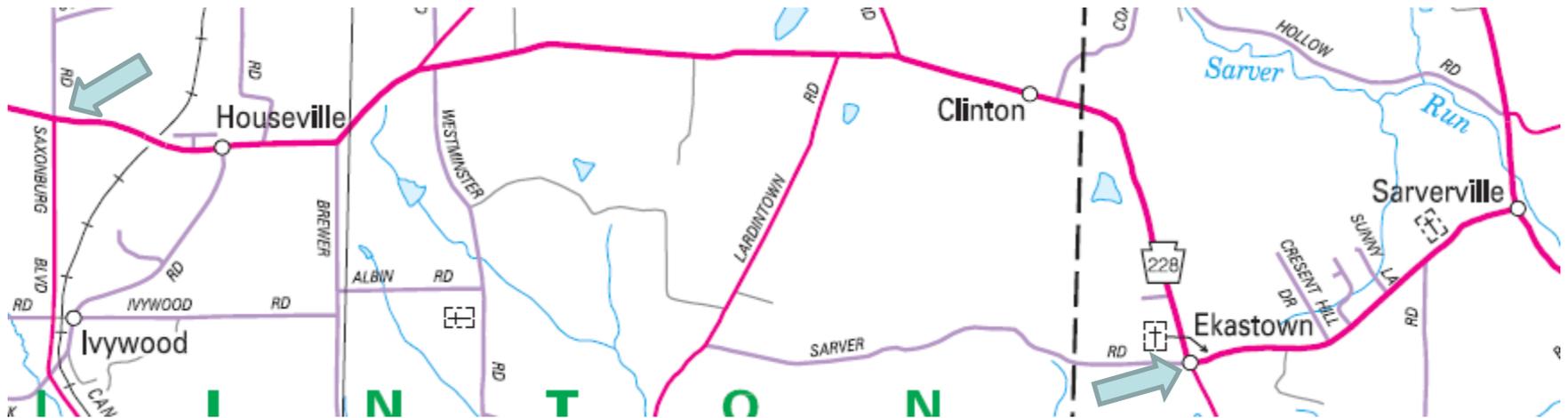
# Mars Railroad Bridge West Expansion

- Route 228
- Widening/Turn Lanes
- Adams and Cranberry Townships
- Not funded for Construction
- Construction Estimate: \$40M - \$50M
- Engineering will begin summer of 2016



# Ekastown West 3R

- Route 228 - Highway Rehabilitation
- Buffalo and Clinton Townships
- Engineering starting in 2017 - Construction Not Funded
- Construction Estimate: \$5M - \$7.5M



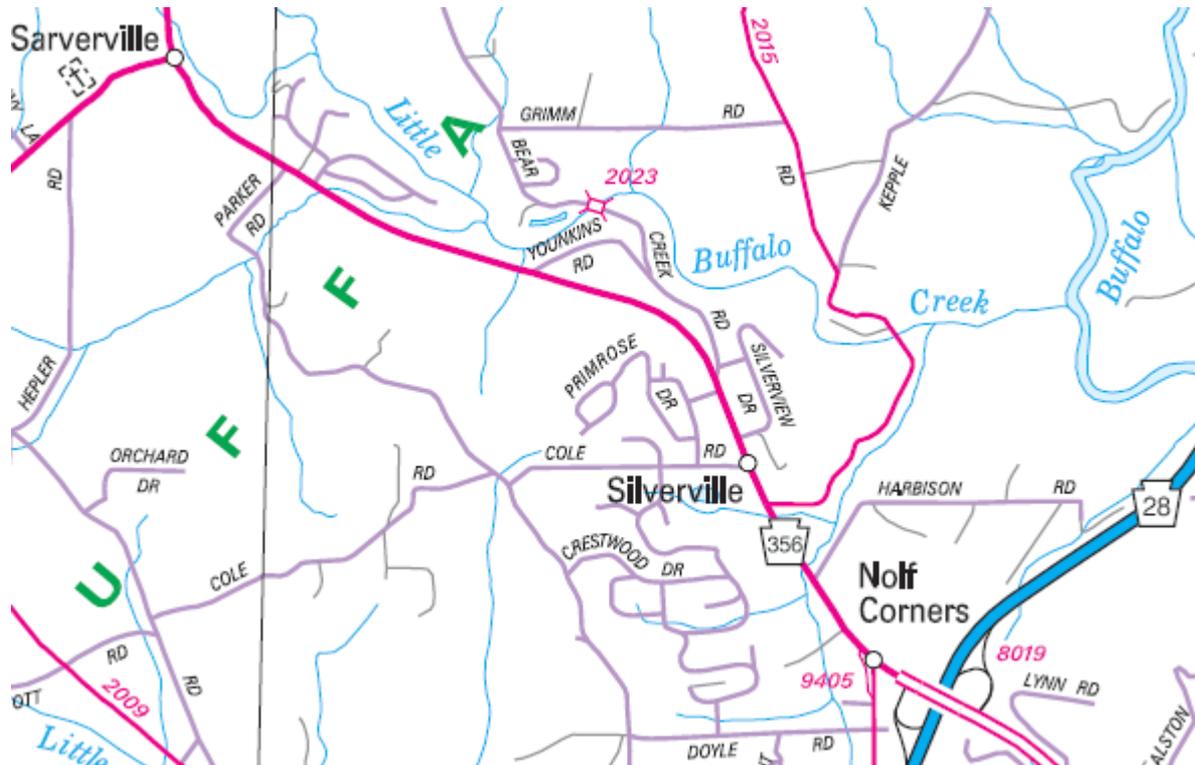
# PA 68 Corridor Improvements

- Route 68 - Intersection Improvements
- Connoquenessing and Butler Townships
- Engineering starting in 2017 - Construction Not Funded
- Construction Estimate: \$2.5M - \$5M



# PA 356 Corridor Improvements

- Route 356 - Intersection Improvements
- Buffalo Township
- Engineering starting in 2018 - Construction Not Funded



# Bridge East of Hooker

- SR 1010
- Bridge Replacement
- Bear Creek
- Fairview Township
- Detour
- Construction in 2017
- Department Force Bridge



# Lardintown Run Bridge No. 3

- SR 2011
- Bridge Replacement
- Lardintown Run
- Clinton Township
- Detour
- Construction in 2018
- Department Force Bridge



# Local Projects

- T-830 Rattigan Bridge
  - Bridge Replacement
  - Donegal Township
  - Construction in 2018
- US 19/Rochester Road Intersection
  - Intersection Improvement
  - Cranberry Township
  - Construction in 2018

# ► Maintenance



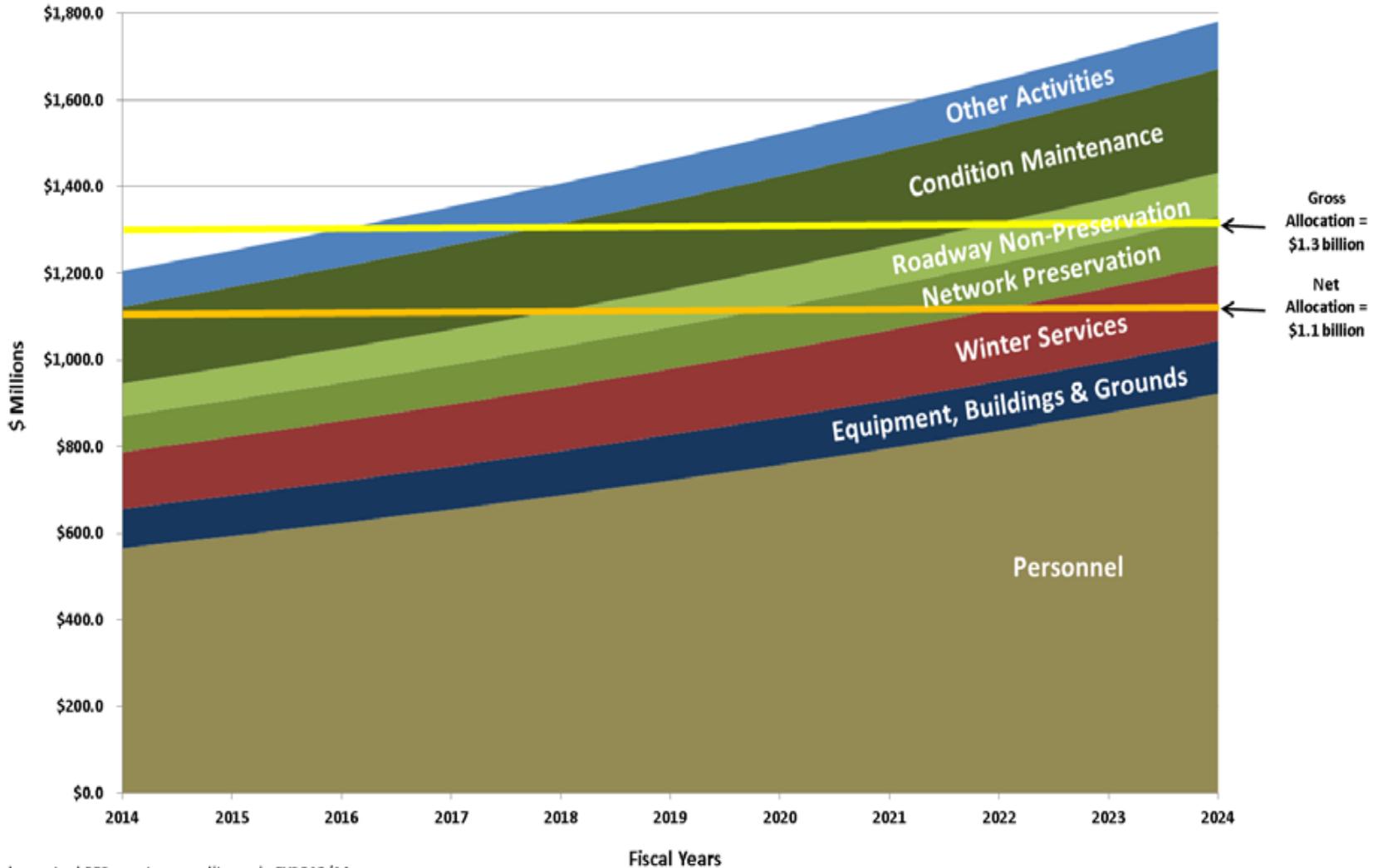
# Maintenance Allocation

## MAINTENANCE ALLOCATION

COUNTY	12-13 Allocation (millions)	13-14 Allocation (millions)	14-15 Allocation (millions)	15-16 Allocation (millions)	\$ Increase (millions)	% Increase
Armstrong	\$20.4	\$19.9	\$20.7	\$20.7	\$0.0	0.00%
Butler	\$23.4	\$23.0	\$23.9	\$24.6	\$0.7	2.4%
Clarion	\$13.8	\$13.6	\$14.4	\$14.7	\$0.3	2.1%
Indiana	\$22.2	\$21.5	\$22.1	\$22.7	\$0.6	2.7%
Jefferson	\$16.5	\$16.3	\$16.7	\$17.1	\$0.4	2.4%
<b>District Total</b>	<b>\$96.3</b>	<b>\$94.3</b>	<b>\$97.7</b>	<b>\$99.8</b>	<b>\$2.1</b>	<b>2.15%</b>

2015-2016 Reflects a 2.15% increase

## Projected Net County Funding and Expenditures<sup>1</sup>: 2014 to 2024 All Counties



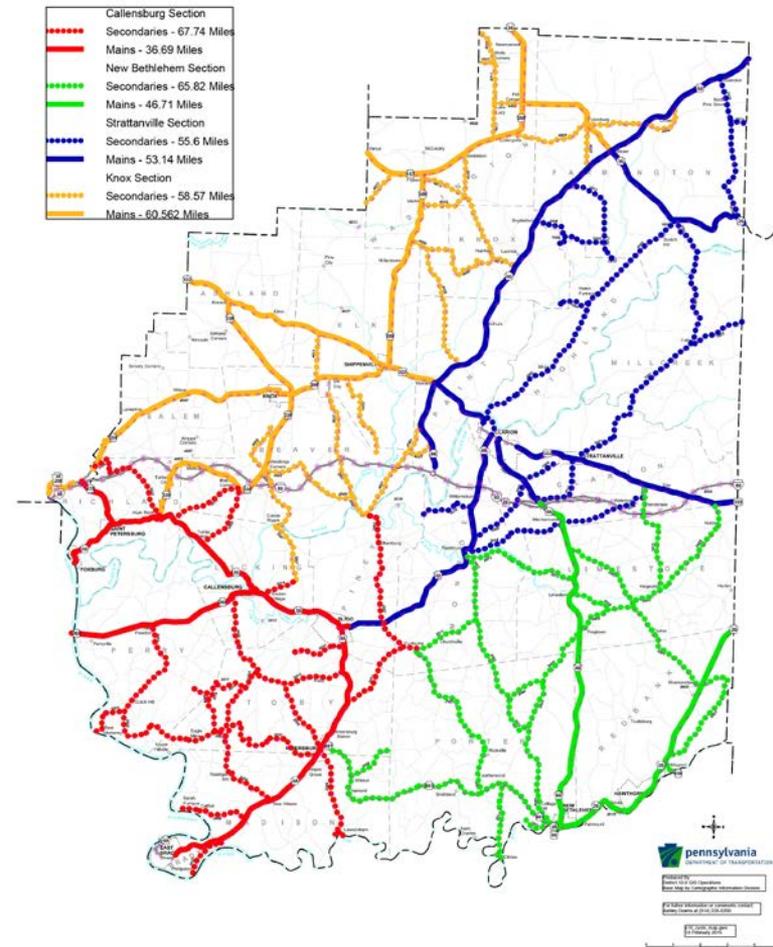
<sup>1</sup> Based on actual 582 county expenditures in FY2013/14

# County Budgets

- Planning process – sectional cycle adjustments
- Preservation – new products and processes to stretch the dollar



Clarion County Sectional Cycle Maintenance



# County Transformation

- First cut
  - Peer County Comparisons
  - Winter staffing and snow routes
  - Department force vs Contract work



# 2016 County Transformation

## District Visits

- Budget, Winter, Equipment, Highways, Bridges
- Best Practices
- Opportunities for improvement
- Improved tools



# County Transformation

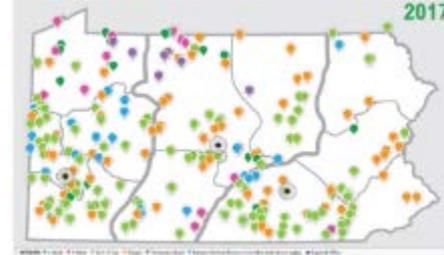
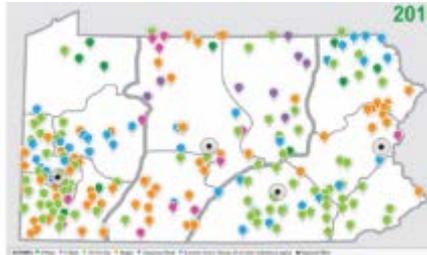
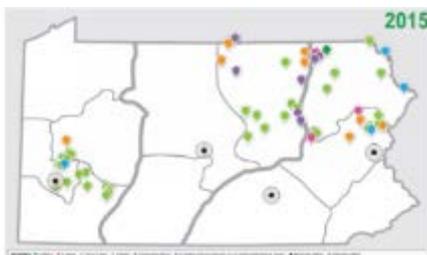
- County Accreditation
  - Ensure data is applied to apples
  - Baseline of production standards and cost effectiveness
  - Measurement systems and corrective action

Production



# RBR Project: Overview

- Rapid Bridge Replacement Program (RBRP) is the first P3 construction project for PennDOT
  - Project was approved by the Commonwealth's Public Private Transportation Partnership Board in September 2013
- Project includes the design, demolition, construction, financing and routine maintenance/ lifecycle maintenance for **558 structurally deficient bridges** across Pennsylvania (geographically dispersed)



# RBR Project: Why P3?

- Accelerate the replacement of SD bridges
- Maximize efficiencies to deliver more projects
- Minimize the impact to traveling public
- Allocate risks to the party best able to manage them
- Establish P3 as a viable way to get projects done



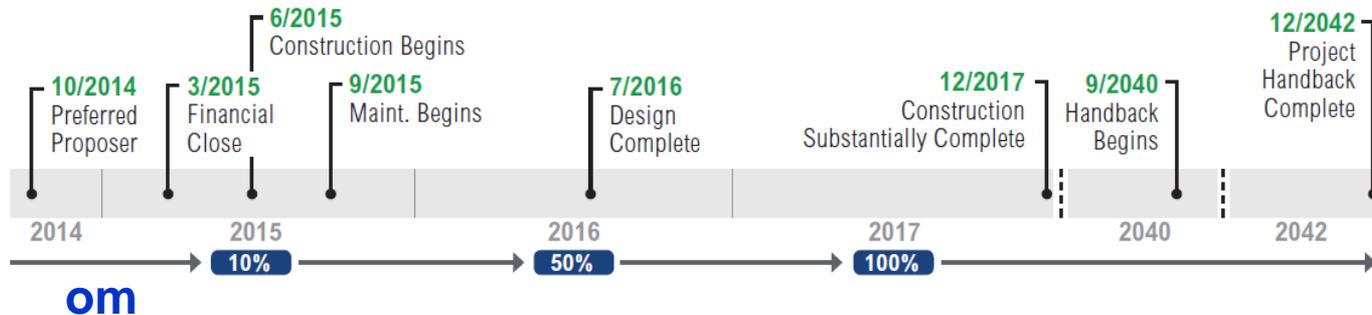
# RBR Project: Meet the Team

- **Development Entity** – Plenary Walsh Keystone Partners
- **Lead Construction Firm** – Walsh Granite JV
- **Lead Design Engineering Firm** – HDR
- **Lead Maintenance Firm** – Walsh Infrastructure Management (WIM)
- **Construction Quality Acceptance Firm** – TRC



# RBR Project: P3 Arrangement

- Transaction Highlights:
  - 1 DBFM Contract
  - PennDOT maintains ownership, but the Development Entity is responsible for maintaining each bridge for 25 years after replacement
    - 28 Year Contract (w/ 25 year maintenance term per bridge)



# RBR Project: “Game Changer”

- First multi-asset, multi-location P3 project to close in US
- Fastest executed P3 procurement in the US with a 12 month timeline from RFQ issuance to commercial close, and 15 months from RFQ to financial close
- Includes the largest Private Activity Bond financing of a transportation P3 in US history with \$721.5 million
- Shares the permitting risk on 558 individual projects (SEP15)



## RBR Project: 2015 Status

- 74 Construction NTPs issued
- 47 bridges replaced and open to traffic
- 3 bridges with construction activity continuing
- Bridges built in 6 PennDOT Districts
- 6,250 Design submissions
- 4,713 submissions accepted/approved

## RBR Project: 2016 Effort

- 260 starts
- 200 to finish in 2016
- PPC overlays
- Some new approaches

## RBR Project: At the End of the Day...

Total number of bridges:	558
Culverts:	120
Single Span:	411
Multi-Span:	27
Average new bridge length:	60' (10' longer than existing)
Number of bridges -100':	496
Number of bridges +100':	62
Number of steel bridges:	12 (number could change)
417 bridge projects will utilize prestressed concrete beams	
2,291 total estimated number of prestressed concrete beams	
144,490 Total LF of prestressed concrete beams (over 27 miles)	
57,000 Tons of material (114 million lbs.)	
28,000 CY of concrete	
3.7 mil lbs. of rebar (1,850 Tons)	
6.1 mil LF of steel strand (1,155 Miles)	

# RBR Project: PWKP Website



Who is Plenary  
Walsh Keystone  
Partners?

What Is The  
PRB Replacement  
Project?

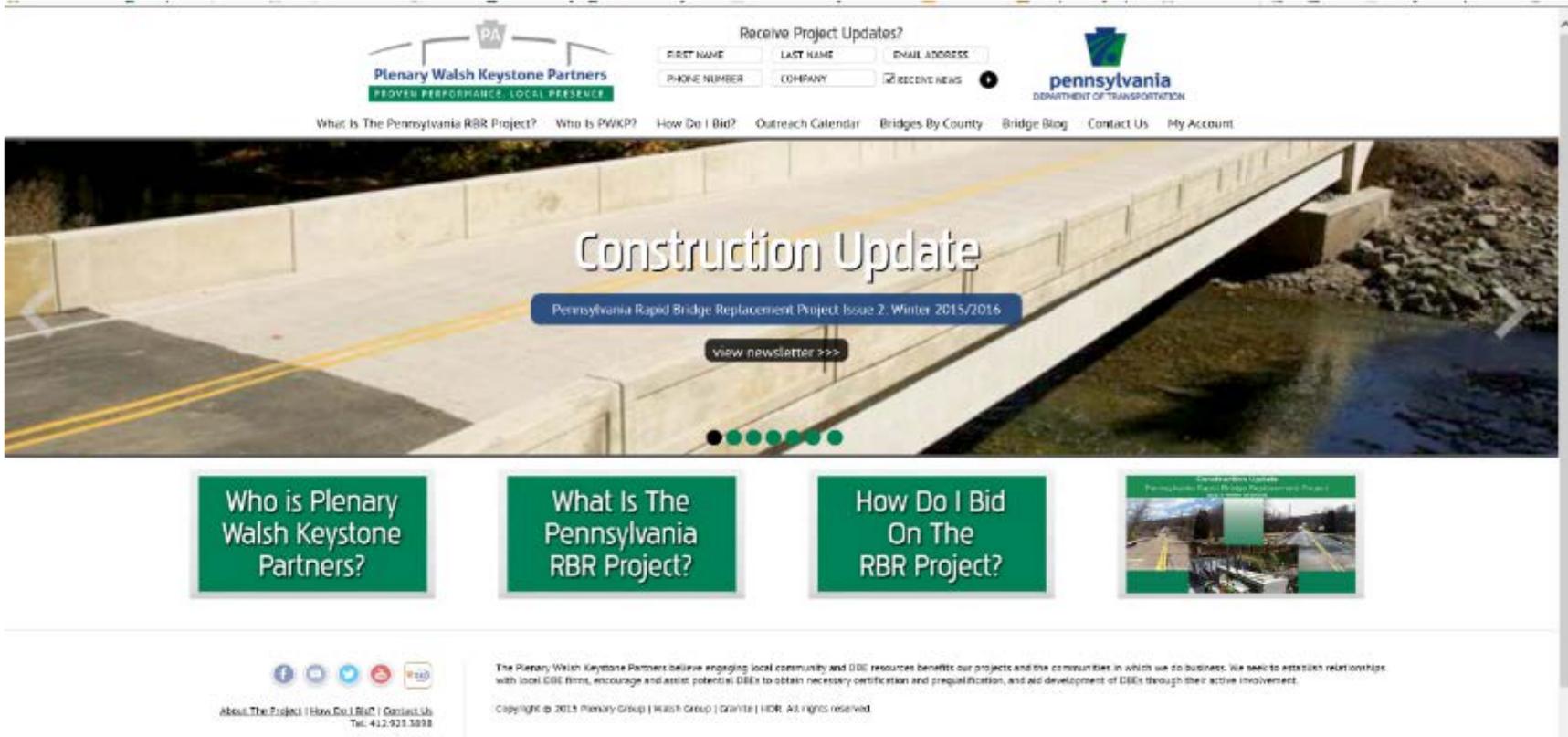
How Do I Bid On  
The PRB Replace-  
ment Project?

View The PRBR  
Project Outreach  
Calendar

[www.PARapidBridges.com](http://www.PARapidBridges.com)

<https://www.youtube.com/watch?v=F4ut-Jb9bwU>

# P3 Website



<http://www.parapidbridges.com/>