

# ▶ Outreach 2016

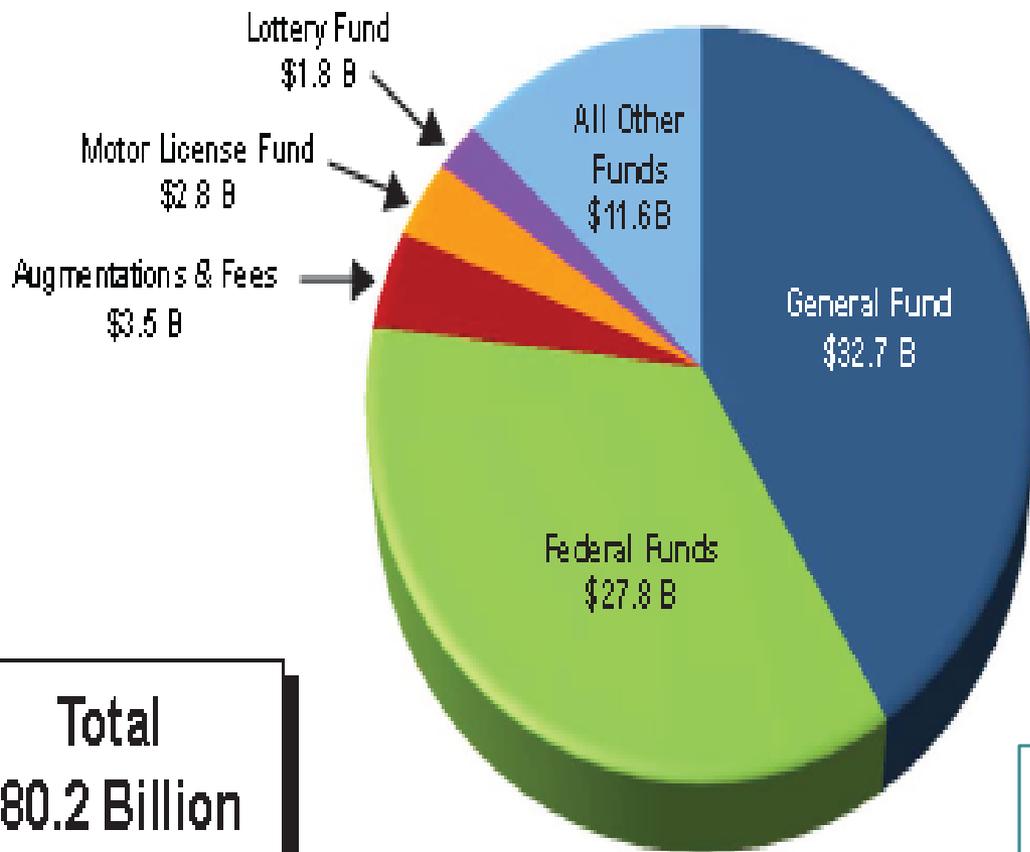


## Agenda

- 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

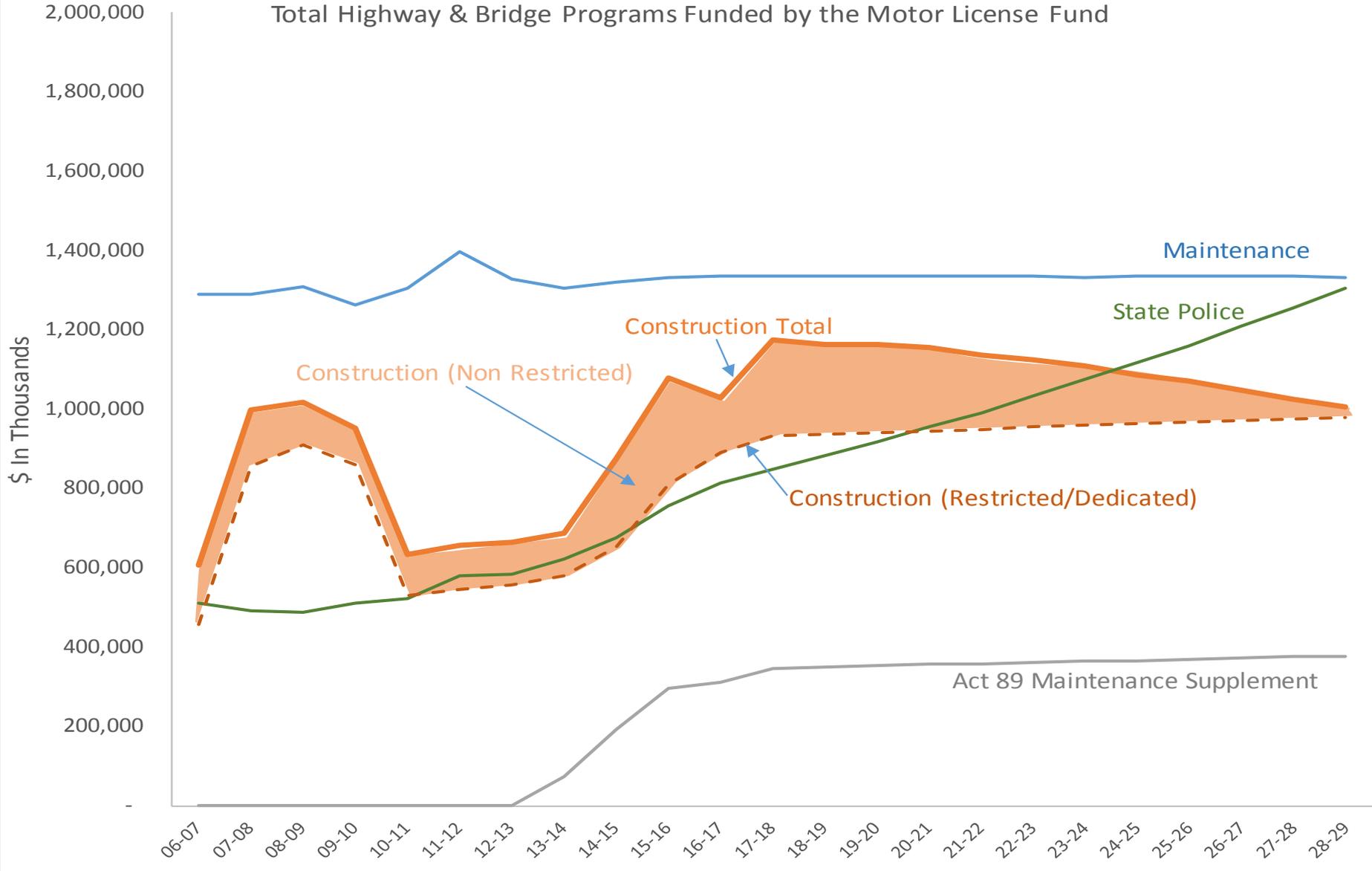
Other - \$207

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**

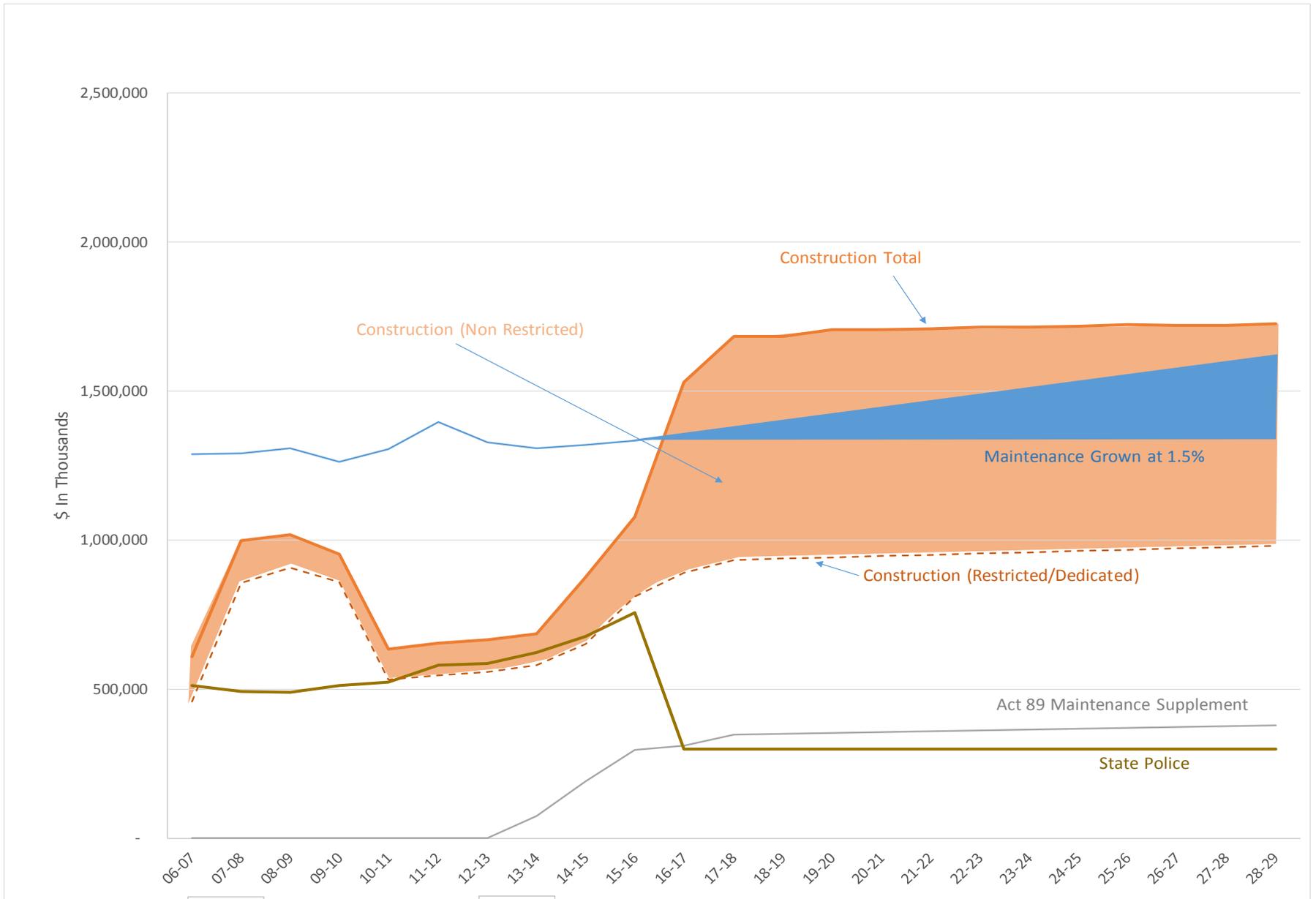


\*07-08 Act 44 of 2007

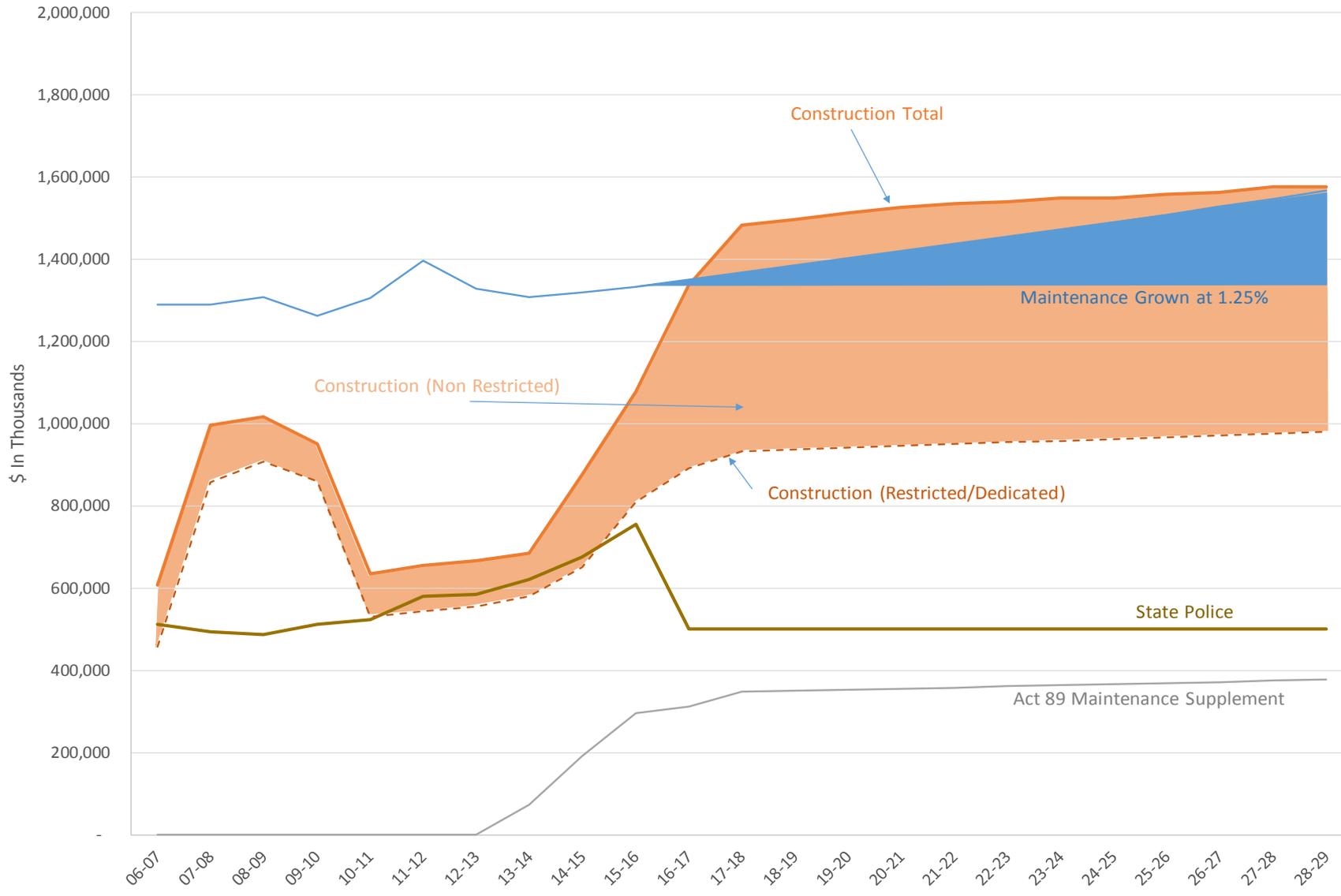
\*13-14 Act 89 of 2013

New 12 Year Program FY 17-28

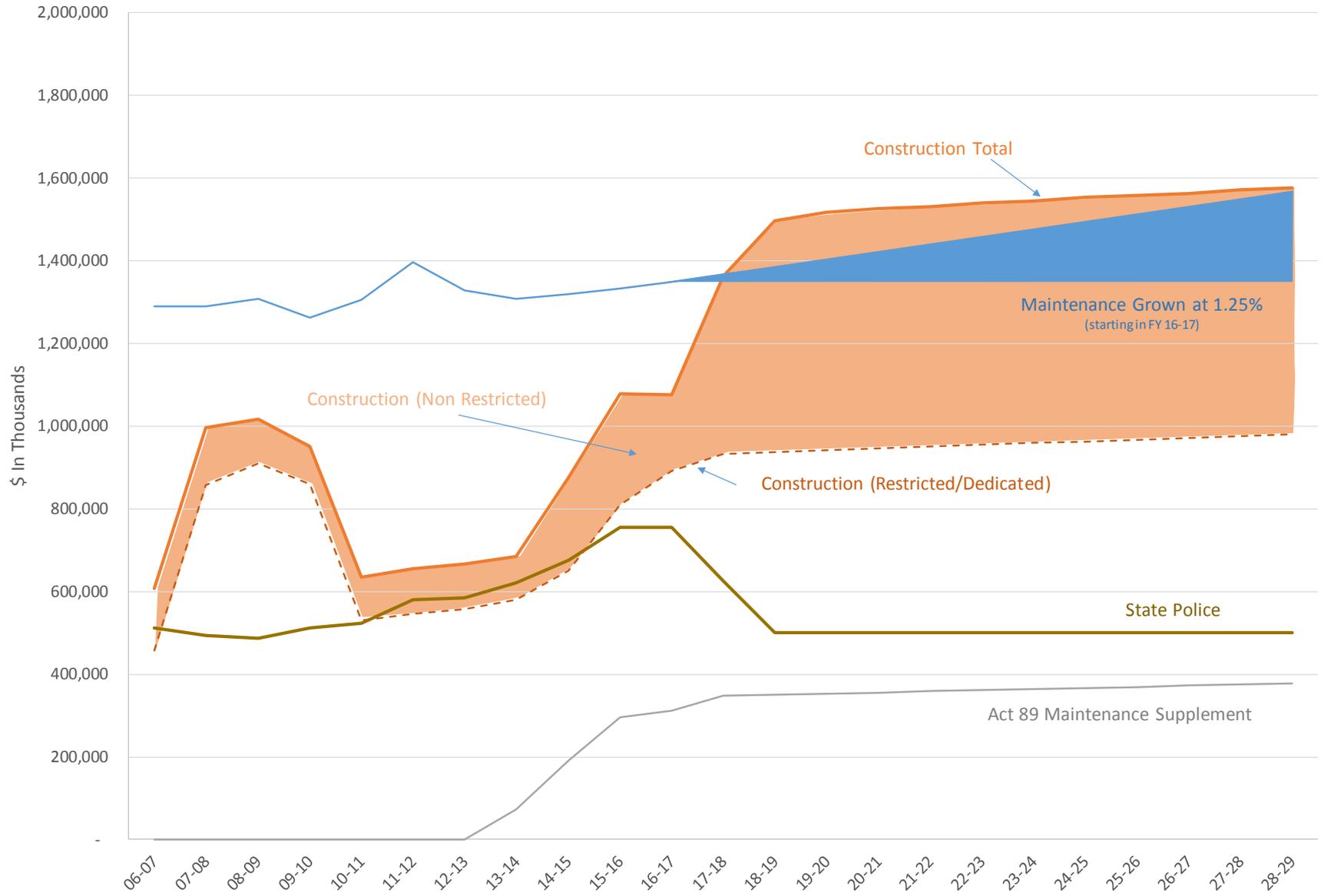
**PennDOT Present Funding Forecast**  
**Assuming \$300 Million Cap on the State Police in the MLF**  
**Total Highway & Bridge Programs Funded by the Motor License Fund**



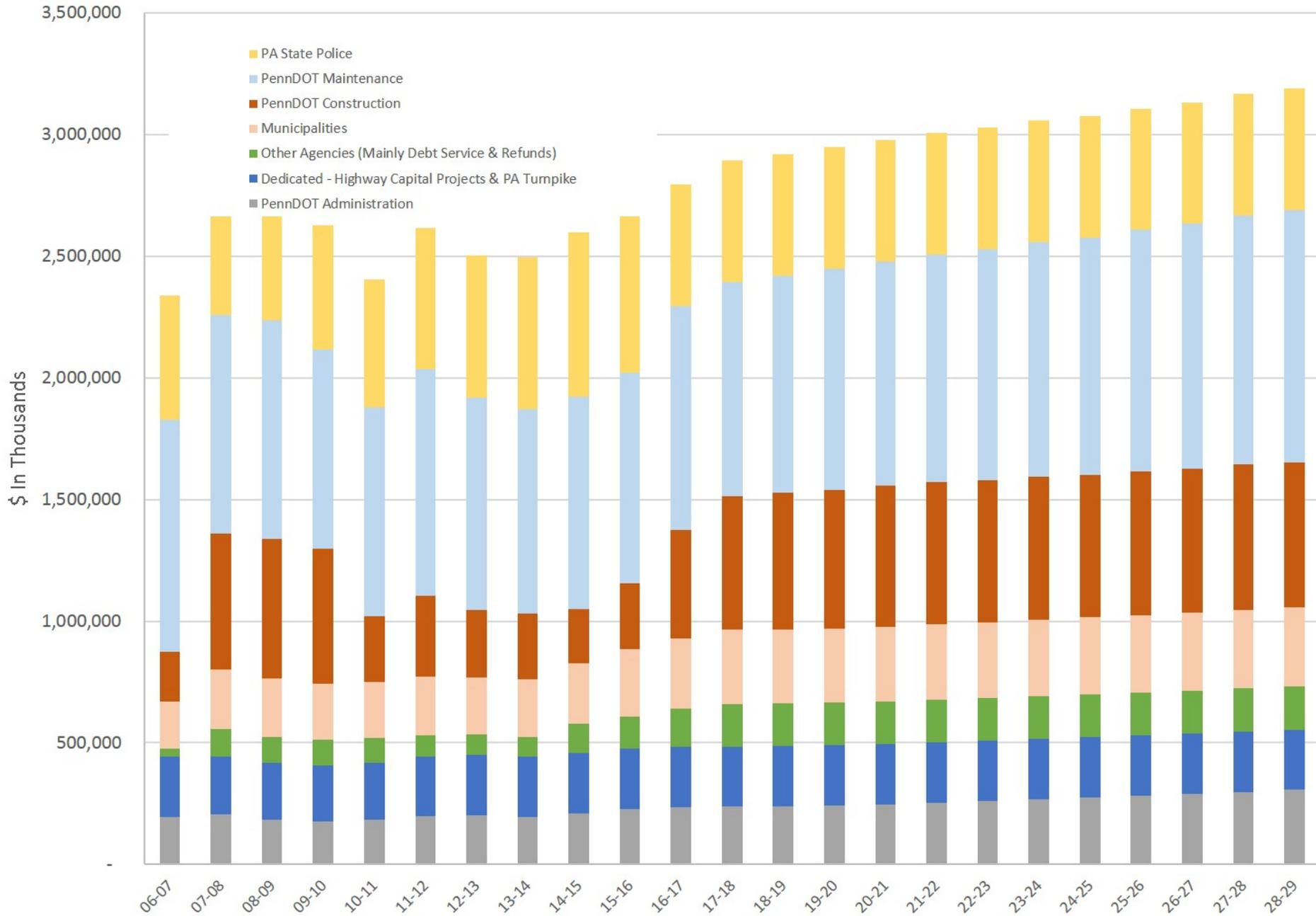
**PennDOT Present Funding Forecast**  
**Assuming \$500 Million Cap on the State Police in the MLF**  
**Total Highway & Bridge Programs Funded by the Motor License Fund**



**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**



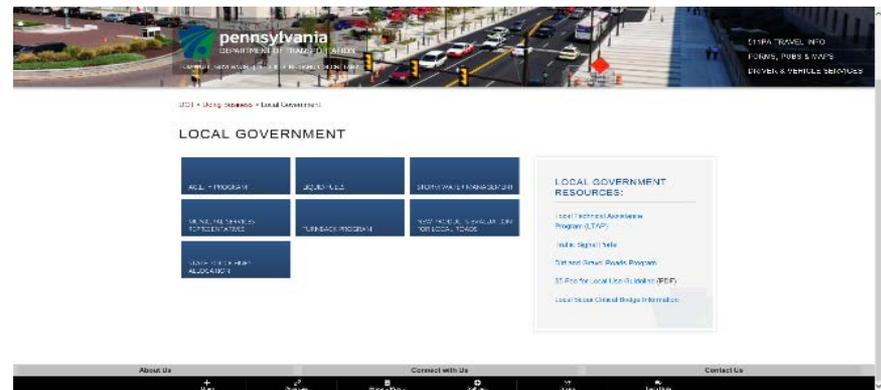
Total Motor License Fund NonRestricted Revenue Distribution  
Assuming \$500 Million Cap on the State Police in the MLF



# 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



## Clarion County

- 2016 - \$3,169,370.41
- 2015 - \$2,715,425.16
- Percent increase – 16.7%
- Miles of roads – 806.73



# 2016 Construction Projects



# Day Bridge

- ECMS #25214
- SR 322
- Clarion County  
– Clarion Twp.
- Bridge Replacement
- Cost: \$2,473,853
- BECDIR Construction



# 2015 Clarion SIP

- ECMS #102955
- SR Various
- Clarion County
  - 1005 and 1007
- Resurfacing /  
Overlays
- Cost: \$1,579,635
- GOH, Inc.



# PA 68 Clarion Curve

- ECMS #88927
- SR 68
- Clarion County
  - Clarion Boro. and Clarion Twp.
- Widening
- Cost: \$3,883,444
- Francis J. Palo, Inc.



# Potter Road Bridge

- ECMS #74289
- SR 2025
- Clarion County
  - Clarion Twp.
- Bridge Replacement
- Detour
- RULD with 150 Day Duration
- Cost: \$1,821,022
- Let: 11-5-15
- Francis J. Palo, Inc.



## SR 2001 Piney Creek Br.

- ECMS #25227
- SR 2001
- Clarion County
  - Limestone Twp.
- Bridge Replacement
- Detour 4/30 – 8/16
- Cost: \$1,821,022
- Let: 1-7-16
- Francis J. Palo, Inc.



## SR 28 New Bethlehem N. PM

- ECMS #104812
- SR 28
- Clarion County
  - New Bethlehem Boro. and Redbank Twp.
- Resurfacing / Overlay
- Cost: \$1,238,886
- Let: 1-14-16
- Derry Construction



## 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



# Callensburg Bridge #1

- ECMS #24914
- SR 58
- Clarion County
  - Licking Twp.
- Bridge Replacement
- Detour in 2017
- Cost: \$5.0 to \$7.0 million
- Let: 6-9-16



# ▶ 2017-2019 Projects in Design



# Shippenville Station Bridge – P3

- Route 322
- Bridge Replacement
- Elk Township
- Deer Creek
- Phased Construction
- Private Public Partnership
- Plenary Walsh Keystone Partners
- 2016 Construction



# Wildcat Bridge No. 2 – P3

- Route 861
- Bridge Replacement
- Madison Township
- Wildcat Run
- Phased Construction
- Private Public Partnership
- Plenary Walsh Keystone Partners
- 2016 Construction



# Diamond Bridge No. 1 – P3

- Route 861
- Bridge Replacement
- Madison Township
- Wildcat Run
- Phased Construction
- Private Public Partnership
- Plenary Walsh Keystone Partners
- 2016 Construction



# PA 338 PM

- Route 338
- Resurfacing
- Ashland and Beaver Townships, Knox Borough
- Construction in 2017
- Construction Estimate: \$1M - \$2.5M



# Alum Rock Bridge No. 3

- Route 3020
- Bridge Replacement
- Richland Township
- Turkey Run
- Detour
- Construction in 2017
- Construction Estimate:  
\$1M - \$2.5M



# Huckleberry Ridge Bridge

- Route 2007
- Bridge Replacement
- Beaver Township
- Over I-80
- Detour
- Construction in 2017
- Construction Estimate:  
\$1M - \$2.5M



# Fenstermaker Railroad Bridge Removal

- Route 2005
- Bridge Removal
- Limestone Township
- Railroad
- Detour
- Construction in 2017 or 2018
- Construction Estimate:  
\$1M - \$2.5M



# Reidsburg Bridge Curve

- Route 68
- Safety Improvement
- Bridge Replacement, Removal and Preventative Maintenance
- Minor Roadway Realignment
- Monroe Township
- Phased Construction with 1-2 Week Detour
- Construction in 2017 or 2018
- Construction Estimate:  
\$2.5M - \$5M



# Lawsonham Bridge No. 1 – P3

- Route 2009
- Bridge Replacement
- Madison Township
- Redbank Creek
- Detour
- Private Public Partnership
- Plenary Walsh Keystone Partners
- 2017 Construction



# Elder Road Bridge – P3

- Route 2009
- Bridge Replacement
- Licking Township
- Cherry Run
- Detour
- Private Public Partnership
- Plenary Walsh Keystone Partners
- 2017 Construction



# Huefner Bridge No. 3 – P3

- Route 4015
- Bridge Replacement
- Knox Township
- Licking Creek
- Detour
- Private Public Partnership
- Plenary Walsh Keystone Partners
- 2017 Construction



# Kahle Bridge

- Route 3020
- Bridge Replacement
- Richland Township
- Over I-80
- Detour
- Construction in 2018
- Construction Estimate:  
\$2.5M - \$5M



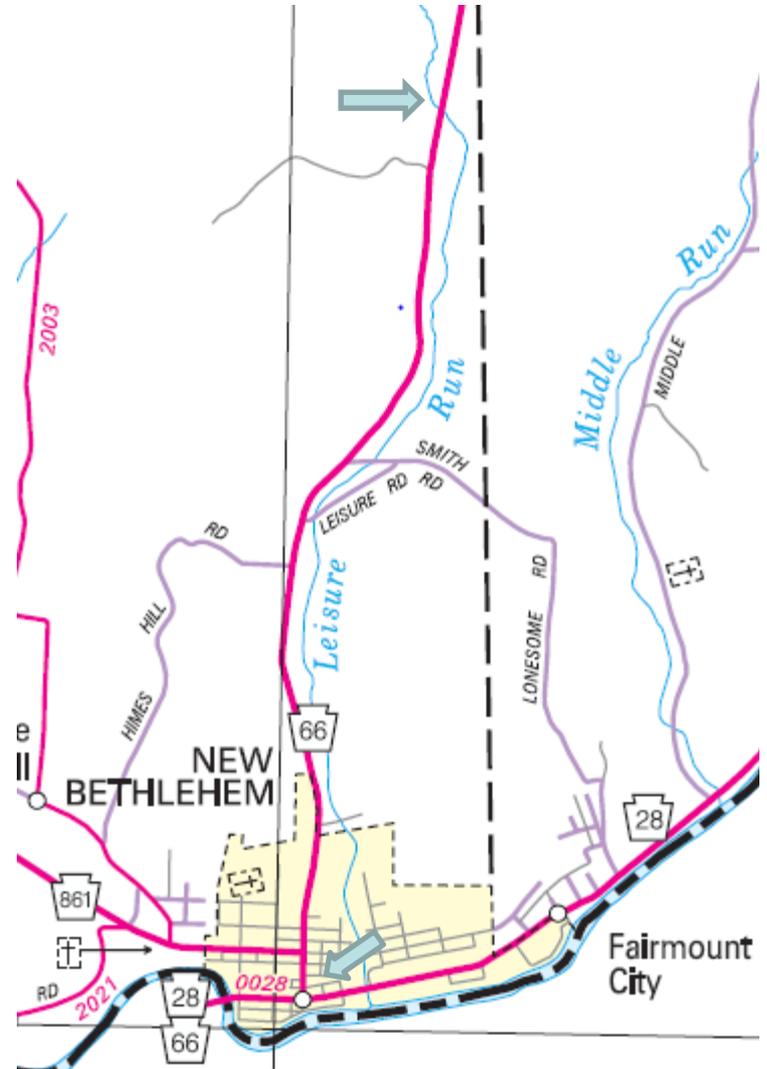
# Stone House Bridge #1

- Route 1007
- Bridge Replacement
- Clarion Township
- Brush Run
- Phased Construction
- Construction in 2018
- Construction Estimate:  
\$1M - \$2.5M



# New Bethlehem PA 66 North PM

- Route 66
- Resurfacing
- New Bethlehem Borough and Porter Township
- Construction in 2018
- Construction Estimate: \$2.5M - \$5M



# Kissingers Mill Bridge No. 1

- Route 3004
- Bridge Replacement
- Madison Township
- Catfish Run
- Detour
- Construction in 2018
- Construction Estimate:  
\$1M - \$2.5M



# PA 68 / Dolby Street Intersection

- Route 68
- Safety and Intersection Improvements
- Clarion and Monroe Townships
- Construction in 2018
- Construction Estimate: \$7.5M - \$10M



# Mineral Run Bridge

- Route 58
- Bridge Replacement
- Sligo Borough
- Mineral Run
- Phased Construction
- Construction in 2019
- Construction Estimate:  
\$1M - \$2.5M



# Turnip Hole Bridge No. 3

- Route 58
- Bridge Rehabilitation
- Licking Township
- McMichael Run
- Construction in 2019
- Construction Estimate:  
\$500,000 - \$1M



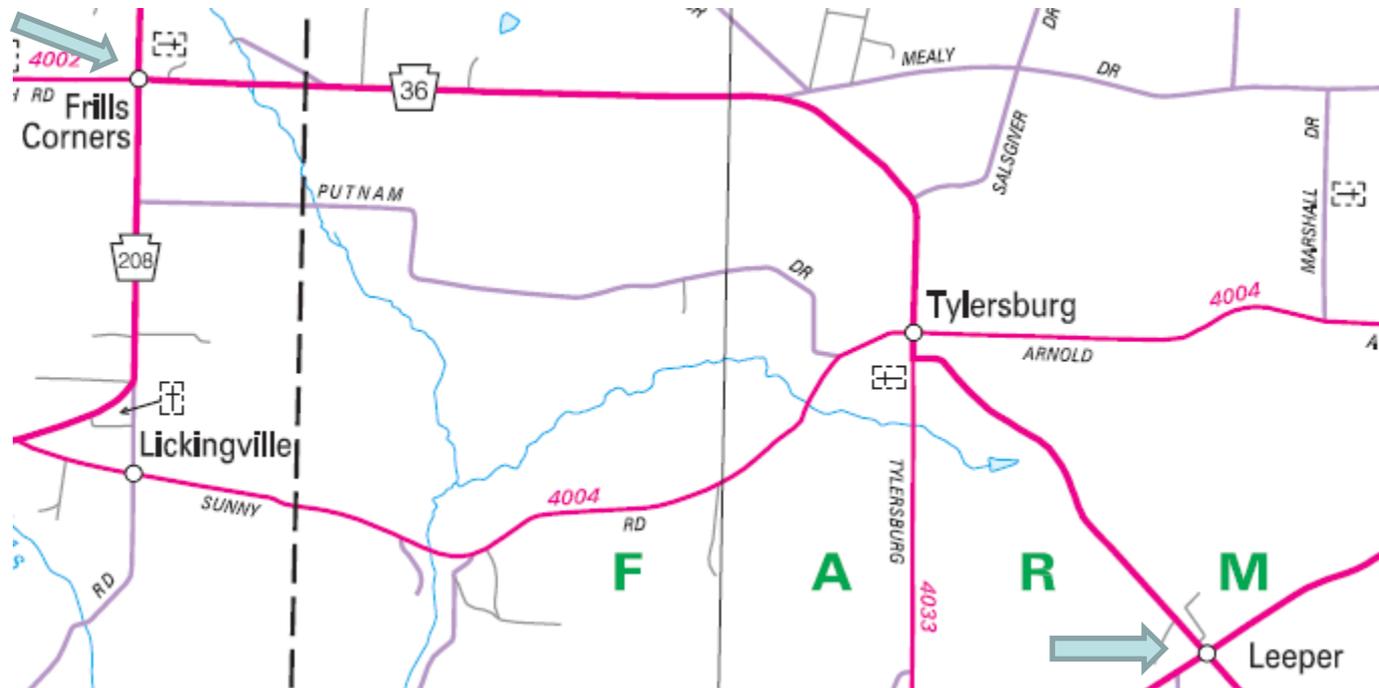
# South Leatherwood Bridge

- Route 861
- Bridge Replacement
- Porter Township
- Leatherwood Creek
- Construction in 2019
- Construction Estimate:  
\$1M - \$2.5M



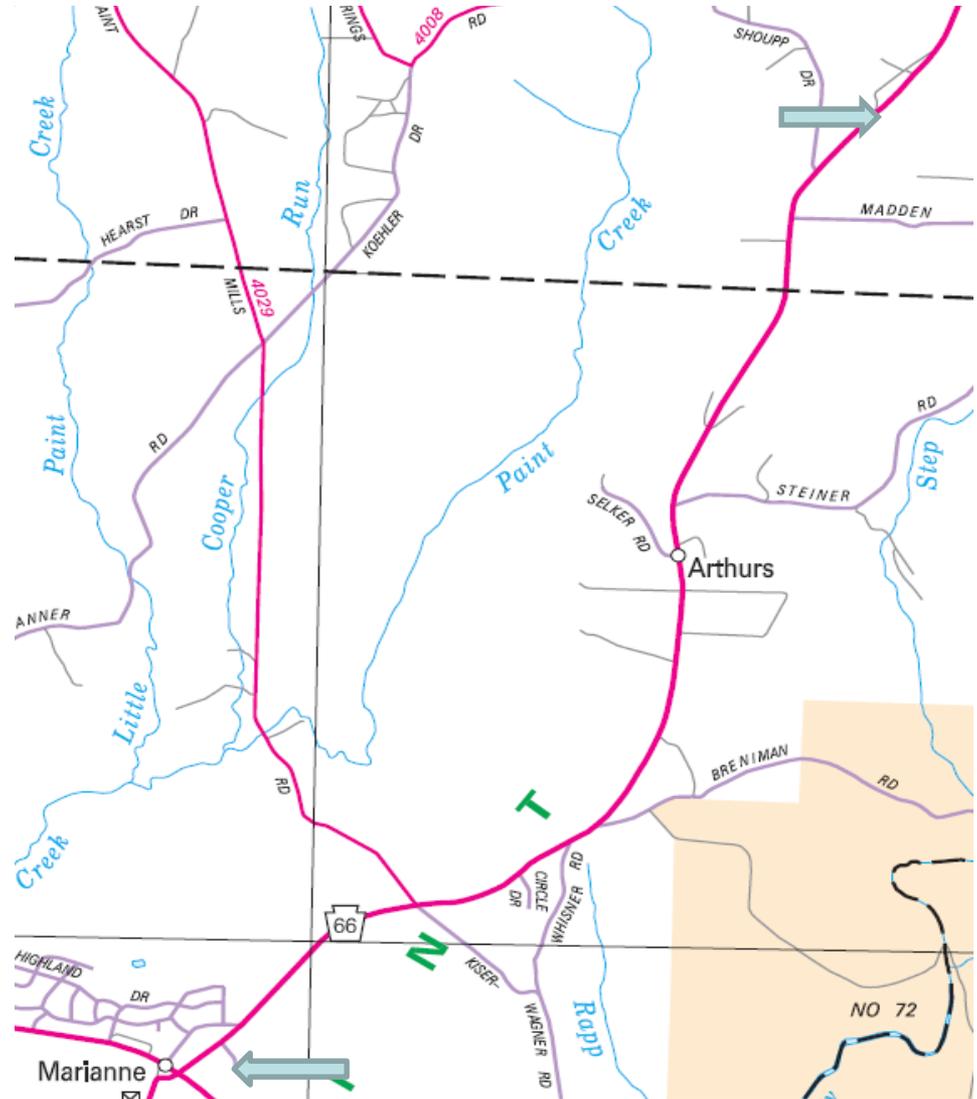
# Leeper North PM

- Route 36
- Resurfacing
- Washington and Farmington Townships
- Construction in 2019
- Construction Estimate: \$1M - \$2.5M



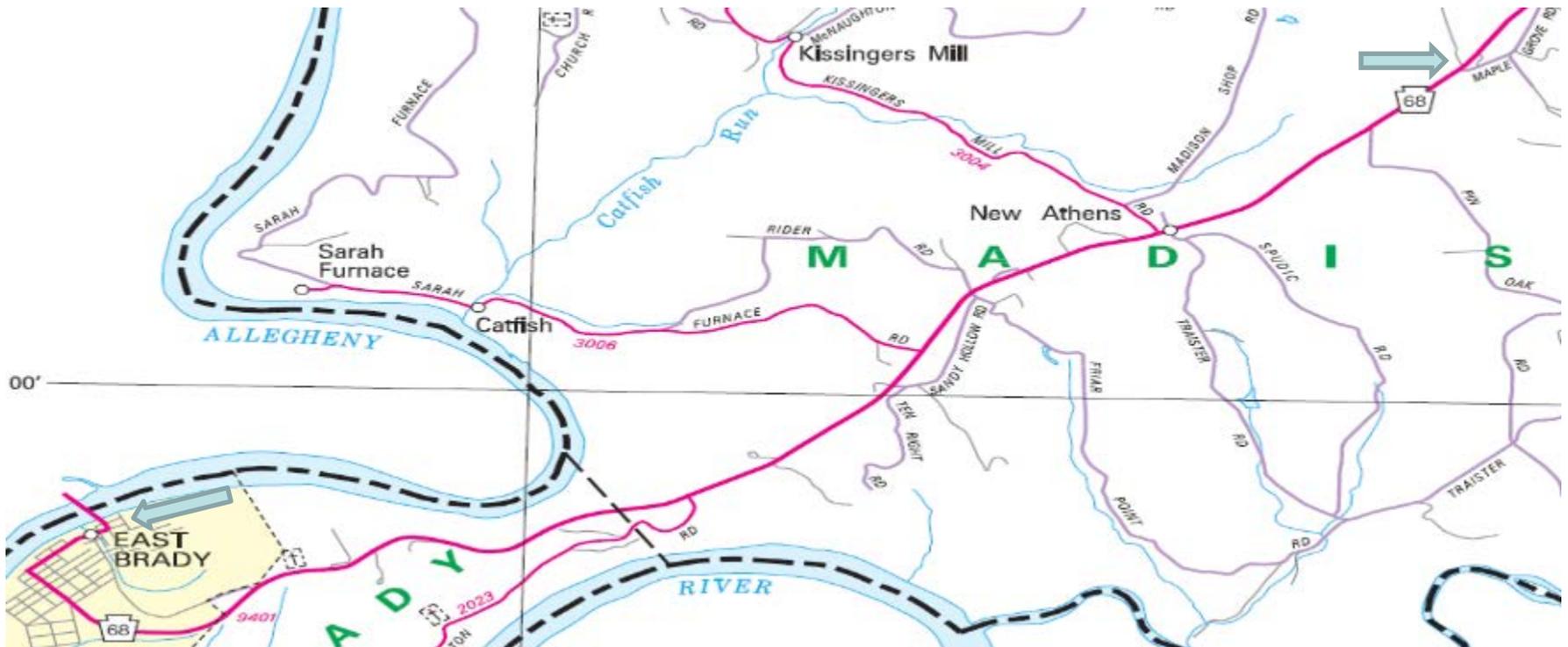
# Arthurs 3R

- Route 66
- Rehabilitation
- Paint and Knox Townships
- Construction in 2020
- Construction Estimate: \$5M - \$7.5M



# East Brady North PM

- Route 68 - Resurfacing
- Bradys Bend and Madison Townships
- Construction in 2020
- Construction Estimate: \$2.5M - \$5M



# PA 68 Dolby Street to Trout Run

- Route 68
- Safety and Intersection Improvements
- Clarion and Monroe Townships
- Engineering in 2017
- Construction Not Funded
- Construction Estimate: \$7.5M - \$10M



# Hodil Run Bridge

- Route 58
- Bridge Replacement
- Sligo Township
- Hodil Run
- 2018 Engineering
- Construction Not Funded
- Construction Estimate:  
\$500,000 - \$1M



# Jack Run Bridge

- Route 2003
- Bridge Replacement
- Porter Township
- Jack Run
- 2018 Engineering
- Construction Not Funded
- \$500,000 - \$1M



# Curlsville Bridge No. 2

- Route 2007
- Bridge Replacement
- Monroe Township
- Licking Creek
- 2019 Engineering
- Construction Not Funded
- Construction Estimate:  
\$1M - \$2.5M



# Tippecanoe Bridge

- SR 4005
- Bridge Replacement
- Tributary to Canoe Creek
- Beaver Township
- Detour
- Construction in 2017
- Department Force Bridge



# Olean Trail Bridge No. 1

- SR 2005
- Bridge Replacement
- Jack Run
- Porter Township
- Detour
- Construction in 2018
- Department Force Bridge



# Maintenance



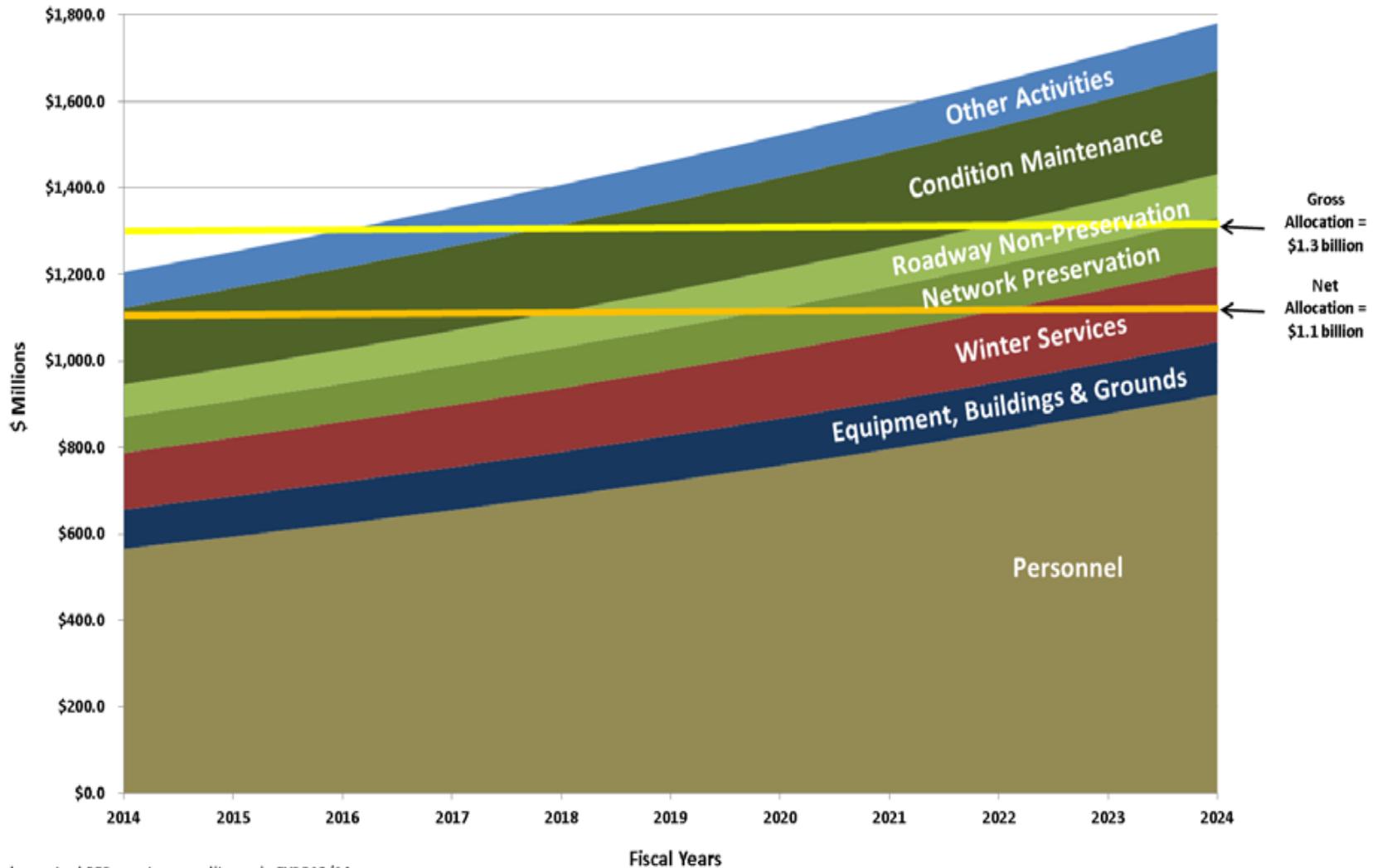
# Maintenance Allocation

## MAINTENANCE ALLOCATION (582)

COUNTY	11-12 Allocation (millions)	12-13 Allocation (millions)	13-14 Allocation (millions)	14-15 Allocation (millions)	\$ Increase (millions)	% Increase
Armstrong	\$21.2	\$20.4	\$20.2	\$20.7	\$0.5	1%
Butler	\$24.4	\$23.4	\$23.3	\$23.9	\$0.6	1%
Clarion	\$14.4	\$13.8	\$13.7	\$14.4	\$0.7	1%
Indiana	\$23.1	\$22.2	\$21.7	\$22.1	\$0.4	1%
Jefferson	\$17.3	\$16.5	\$16.5	\$16.6	\$0.1	1%
<b>District Total</b>	<b>\$100.4</b>	<b>\$96.3</b>	<b>\$95.4</b>	<b>\$97.7</b>	<b>\$2.3</b>	<b>1%</b>

2014-2015 Reflects a 1% increase

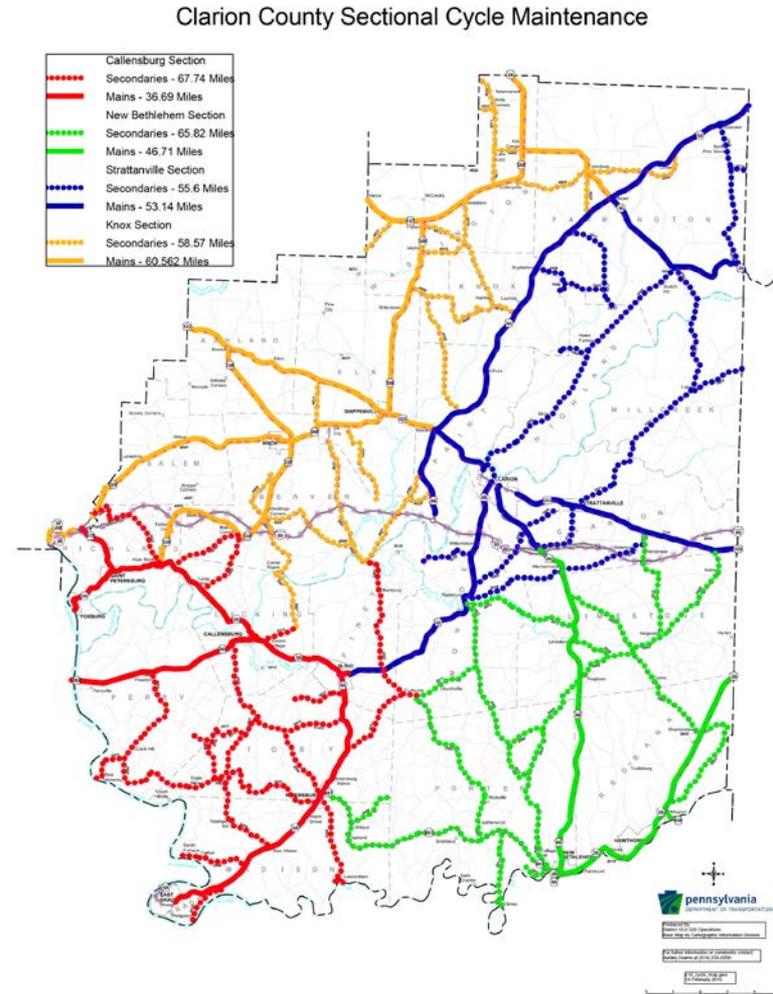
## Projected Net County Funding and Expenditures<sup>1</sup>: 2014 to 2024 All Counties



<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



# 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

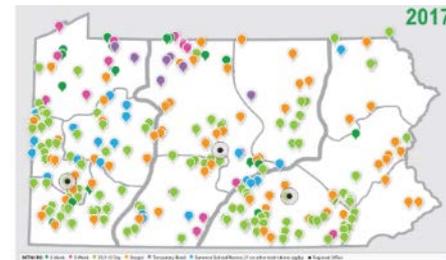
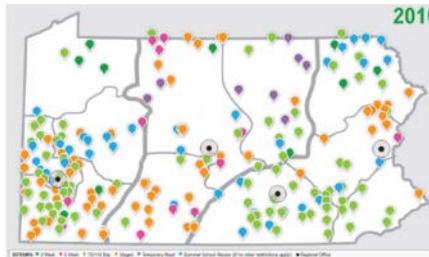
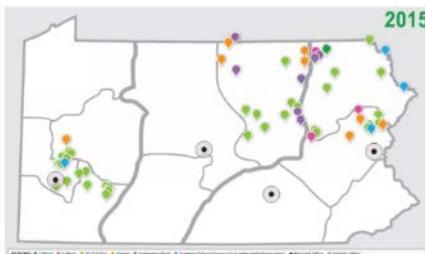
- County Accreditation
  - Ensure data is applied to apples
  - Baseline of production standards and cost effectiveness
  - Measurement systems and corrective action

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



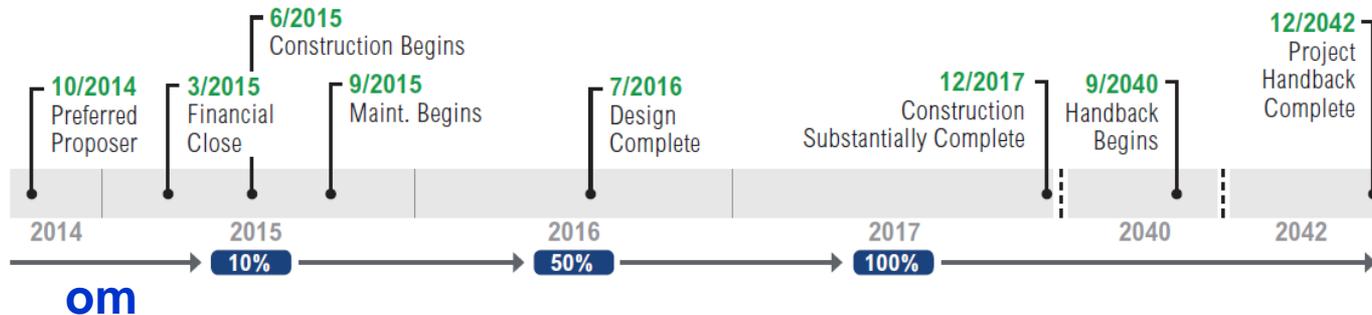
# RBR Project: Meet the Team

- **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?

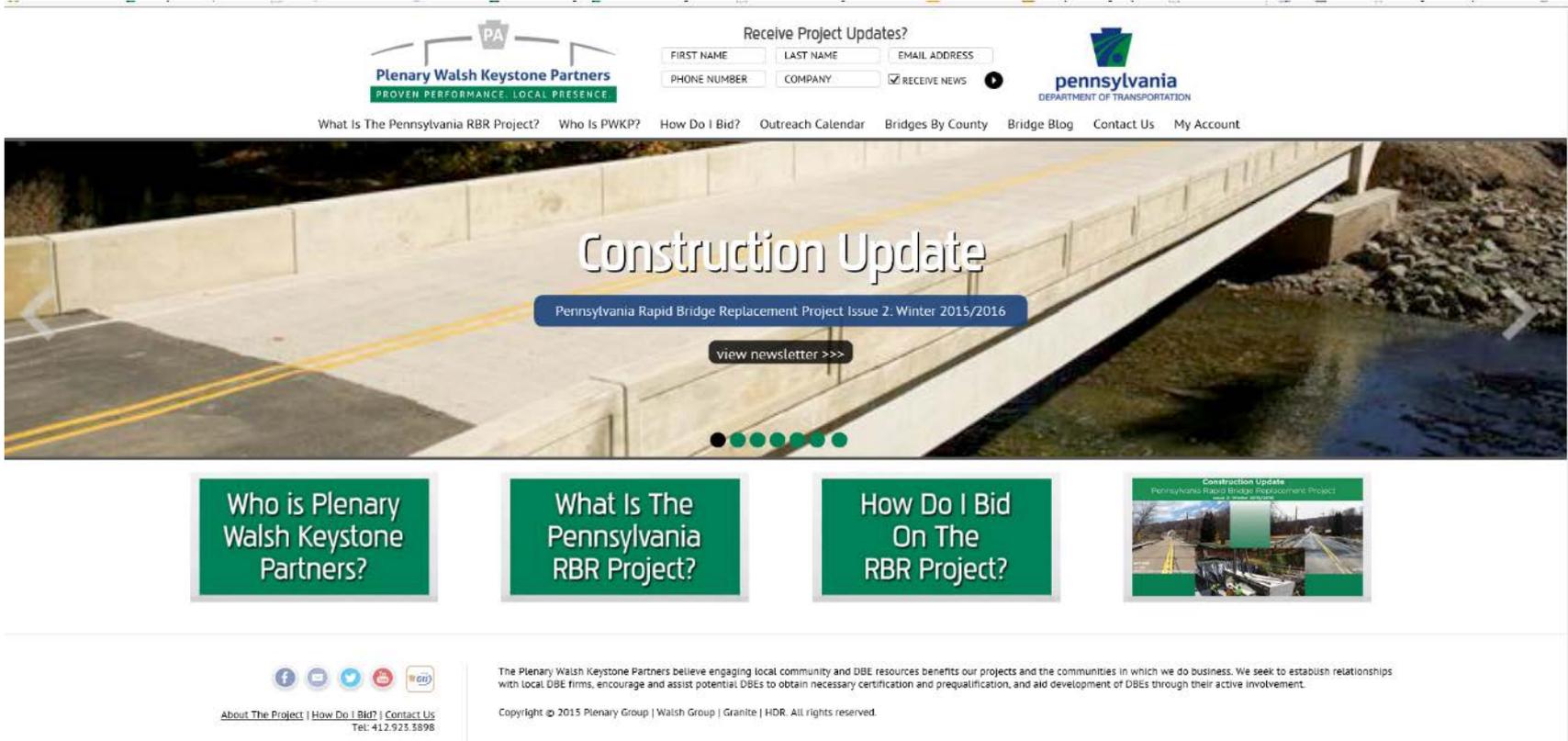
How Do I Bid On  
The PRB Replace-  
ment Project?

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/>

# Clarion County Maintenance



# ▶ 2016 Clarion County Maintenance



**Joshua J. Clinger**  
**County Maintenance**  
**Manager**

# 2016 Clarion County Outreach

## Winter Maintenance Information

**2015 – 2016 Winter Budget - \$1,123,000**

### Material

**Anti-Skid used as of March 18= 9,942 Tons**

**Cost Anti-Skid / Ton - \$22.94 (\$17.98 in 2015)**

**Salt used as of March 18= 7,814 Tons**

**Cost Salt / Ton - \$67.22 (\$61.72 in 2015)**

**Anti-Ice treatment used 15,700 gal. of salt brine (16,325 gal. in 2015)**



# 2016 Clarion County Outreach

## 2015-2016 Winter Facts

### Equipment

Trucks: 26

Loaders: 6

Graders: 2

Anti- Icing: 3

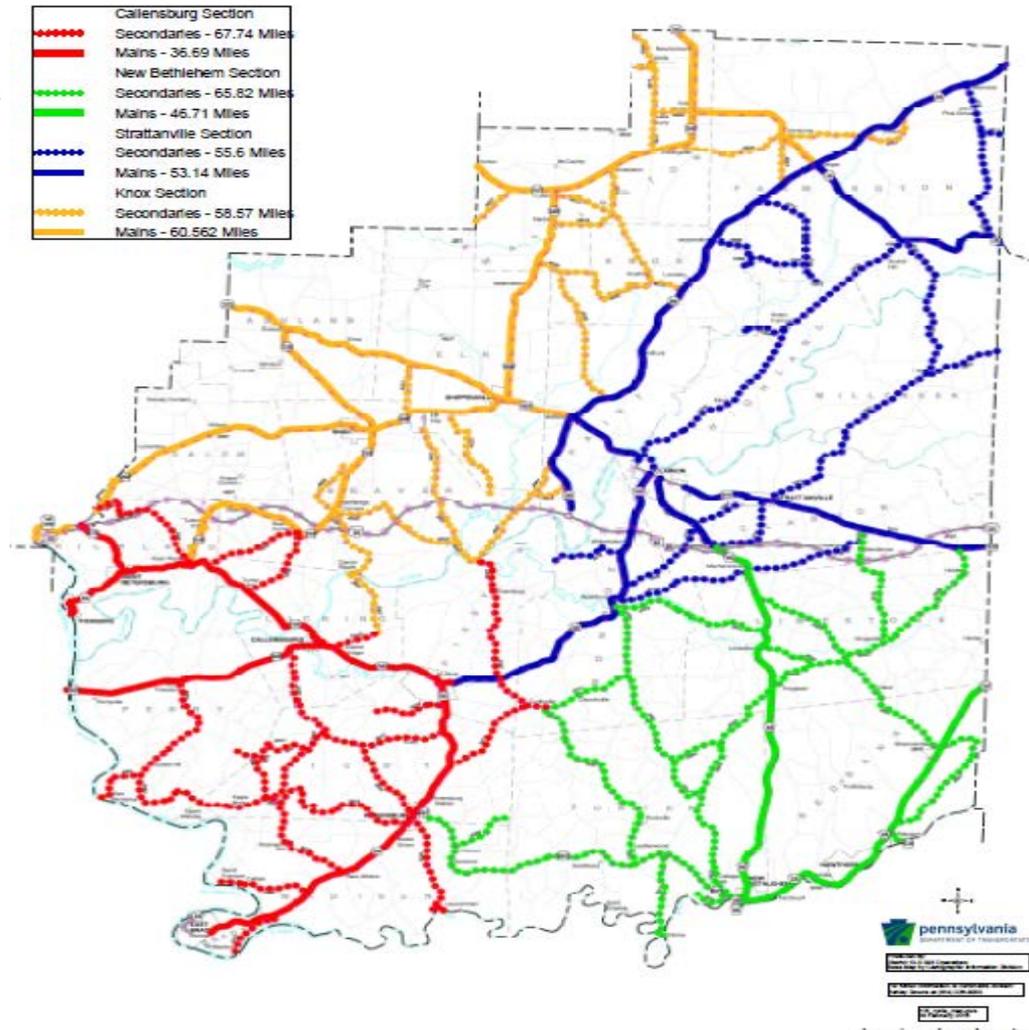


# 2016 Clarion County Maintenance

## Maintenance Cycle Activities for 2016

- Seal Coating
- Drainage Improvements
- Shoulder Cutting
- General Maintenance

Clarion County Sectional Cycle Maintenance



# ➤ 2016 Clarion County Outreach

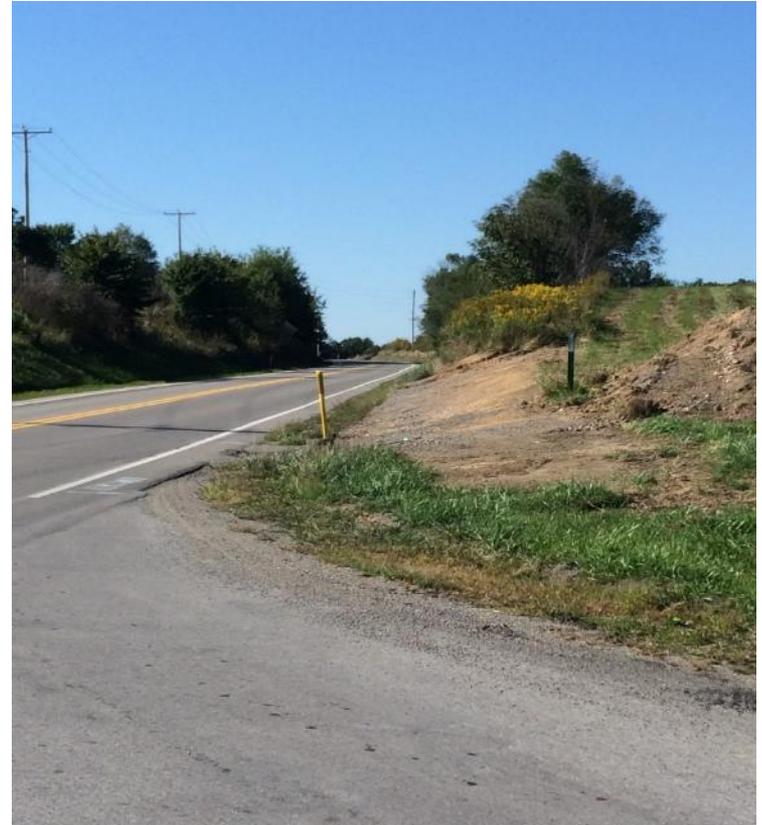
## 2015-2016 Low Cost Safety Initiative Project

- Cut slope of bank back at the intersection of SR 338 and Knox Road to improve sight distance

Before the project



After the project



# ▶ 2016 Clarion County Outreach

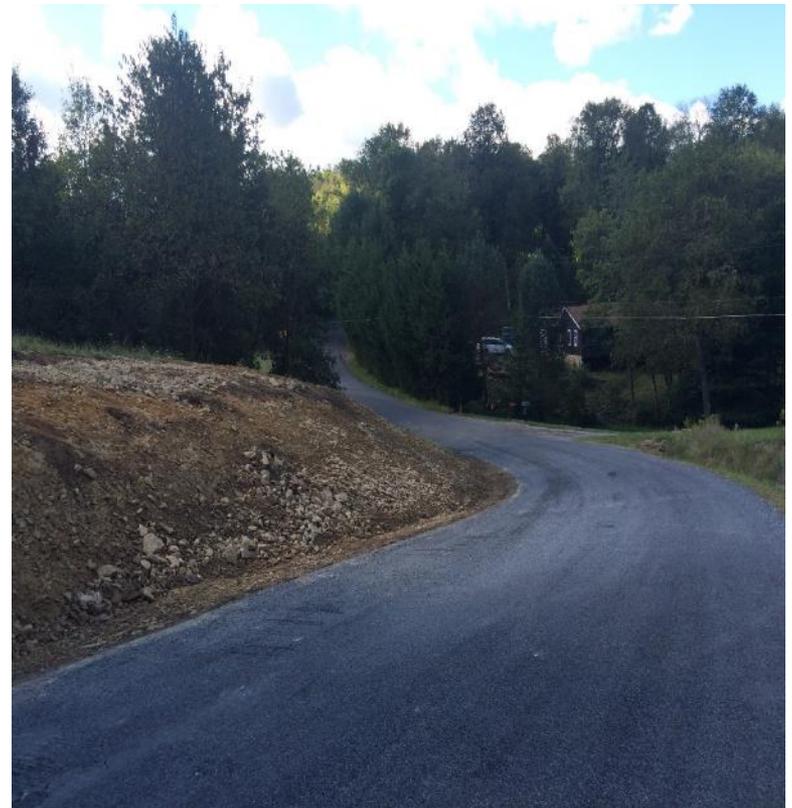
## 2015-2016 Low Cost Safety Initiative Project

- Reshape slope of bank on the “S” curves on SR 2012 to improve sight distance

Before the project



After the project



# ▶ 2016 Clarion County Outreach

## Planned Summer Activities



# ➤ 2016 Clarion County Outreach

## 2016 Department Force Bridge Replacement SR 2003 Reids Run Bridge Monroe Township



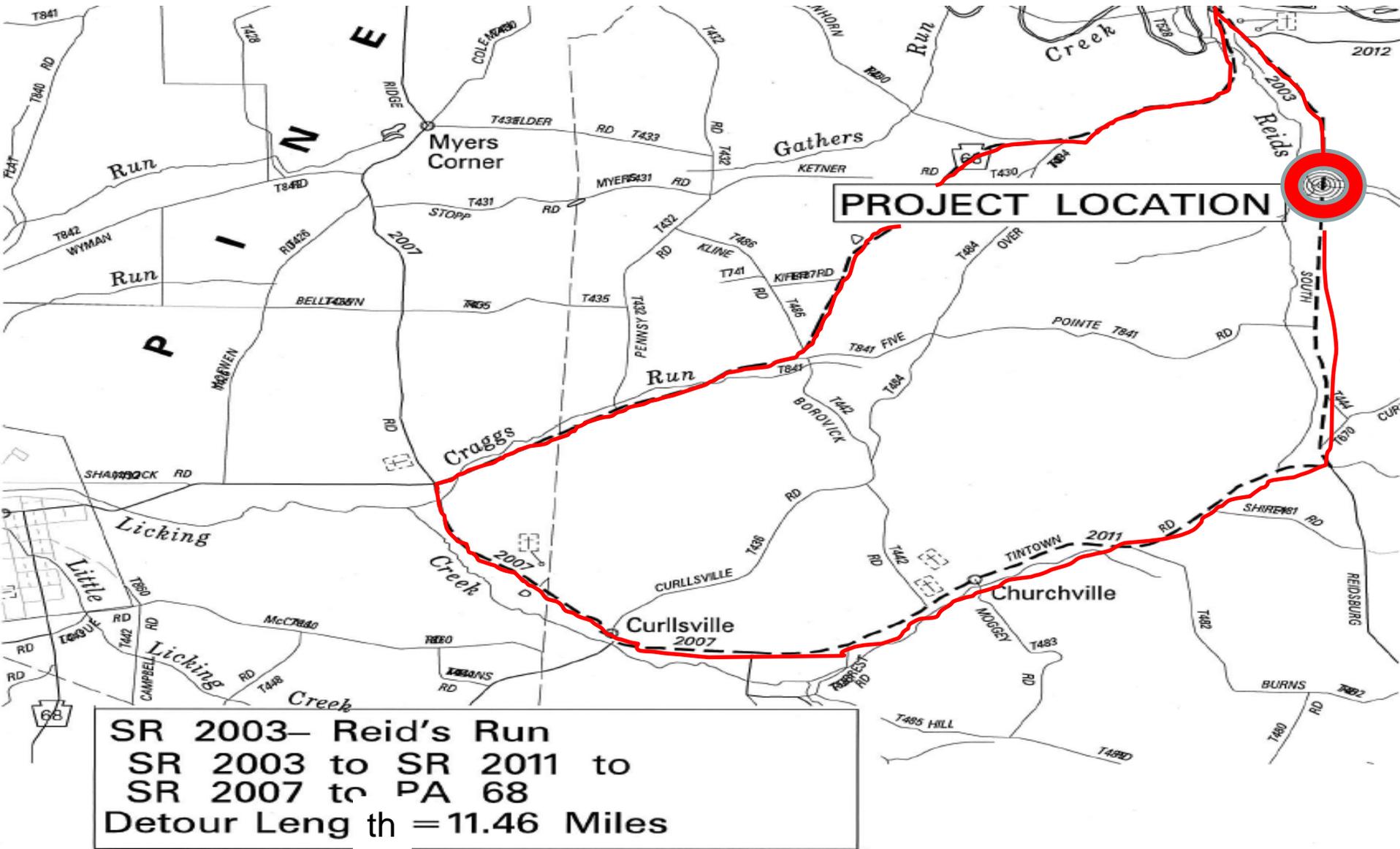
# 2016 Clarion County Outreach



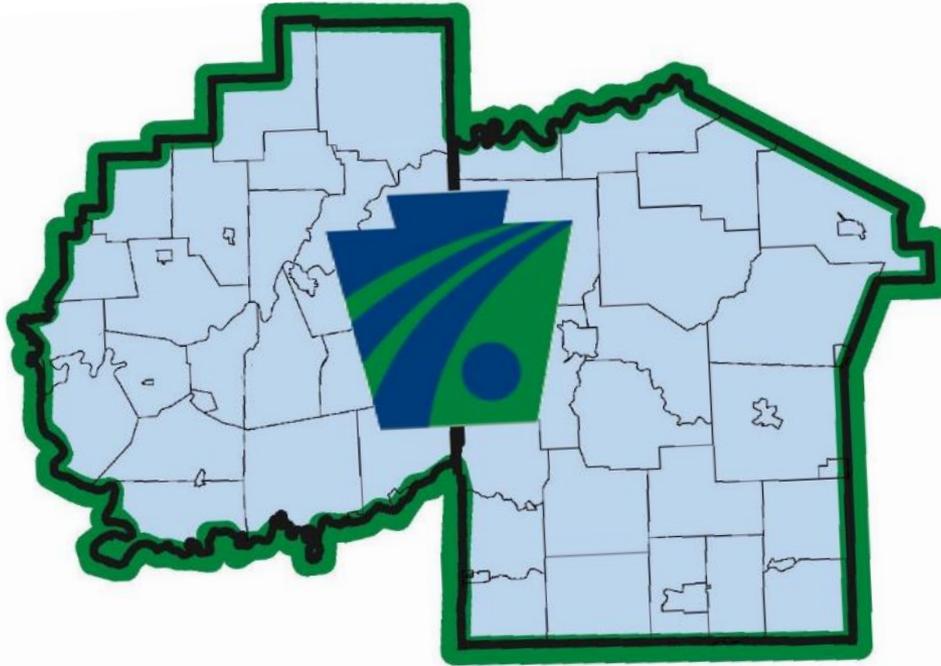
**SR 2003 closed June 6, 2016  
planned to be opened  
August 8, 2016  
(approximate dates)**



# 2016 Clarion County Outreach



# Plans for the future Maintenance Activities



Clarion County PennDOT has joined forces with Jefferson County PennDOT, piloting a combined crew (DOT Crew). This DOT Crew will allow us to stretch resources between the two counties allowing both counties to complete all of our normal activities along with surface improvement programs in both counties.

# 2016 Clarion County Outreach

## “Potential” Department Force Paving



Planned **13.4** miles of hot mix pavement to be placed by Department force crews.

# 2016 Clarion County Outreach

## “Potential” Department Force Recycled Asphalt Paving



Planned **9,100** tons / **3.4** miles of recycled asphalt pavement to be placed by Department Force crews.

# ▶ 2016 Clarion County Outreach

## Seal Coat Program

Planned **304,523** gallons / **84.25** miles of production for the 2016 Seal Coat Program. This includes seal coats, shoulder seal coats and skin patching.



149.27 miles completed in 2015

# 2016 Clarion County Outreach

## Shoulder Cutting Program



Planned **143** miles  
of Shoulder cutting

232 miles completed in 2015

# ▶ 2016 Clarion County Outreach

## Pipe Replacement Program

Planned **1,025** feet of  
Pipe Replacement

**3,454** feet of  
Parallel Pipe Installation

1,280 feet completed in 2015



# ▶ 2016 Clarion County Outreach

## Crack Sealing Program



Planned  
**107.6** miles of  
Crack Sealing  
(including roadway  
shoulders)

87.9 miles completed in 2015

# ▶ 2016 Clarion County Outreach

## Underdrain Program

Planned **1,100** feet  
of Underdrain



4,522 feet completed in 2015

# ▶ 2016 Clarion County Outreach

## Ditch Cleaning Program



Planned  
**25,100** feet of  
Ditch Cleaning

57,402 feet completed in 2015

# ➤ 2016 Clarion County Outreach

## Mowing Program

**61** Miles of Interstate 80 gets mowed three times a year while **193** Miles of Mainlines get mowed twice each year



# 2016 Clarion County Outreach



## Agility Program

**Agility is a tool to build relationships with local communities by sharing and exchanging services and resources.**

### Current active work plans

- Clarion County Career Center
  - PennDOT – sweep, patch and seal coat school’s driveway, use of message boards
  - Career Center – provides use of conference room with refreshments and also provides lunches for various meetings.
- Clarion County Sheriff’s Office
  - PennDOT – allows the use of Department wash facilities
  - Sheriff’s Office – patrols in I-80 work zones to alert motorists

# ➤ 2016 Clarion County Outreach



**Seasons of  
Maintenance**

## QUESTIONS?

