

# PENNDOT District 11



## South Allegheny County Community Outreach

April 6, 2017

# Agenda

- Budget Update and District Overview
- 2017 County Maintenance Activities
- Traffic Engineering & Operations Unit
- 2017 Construction Projects
- 2018-2020 Projects in Design
- P3 – Public/Private Partnership for Bridges Update
- Liquid Fuels Distributions

# District 11-0 Engineering Office

**Dan Cessna, P.E.**  
**District Executive**  
412-429-5001



## Our Vision

*A better quality of life  
built on transportation  
excellence.*



## Our Mission

*To provide a sustainable transportation system and quality services that are embraced by our communities and add value to our customers.*



# PennDOT District 11-0

	Allegheny	Beaver	Lawrence	Totals
Miles of Roadway	1,484	668	417	2,569
Bridges	1,185	335	279	1,799
Tunnels	4	0	0	4
Stockpiles	17	9	6	32
Snow Lane Miles	3,581	1,432	910	5,923
Winter Agreements Miles	1,404	144	108	1,656

# PENNDOT District 11-0 Budget

- Budget **\$458 Million** (SFY 16-17)
  - \$202 Million State funds
  - \$256 Million Federal funds
- Budget Breakdown
  - \$140 Million Maintenance
  - \$24 Million Maintenance (Expanded)
  - \$156 Million Capital Highway
  - \$120 Million Capital Bridge
  - \$18 Million Local

Allegheny County Maintenance - **\$52 Million**

Tunnels Organization Maintenance - **\$7.2 Million**

District Office Maintenance - **\$6.1 Million**



# PennDOT Connects

Planning with our communities



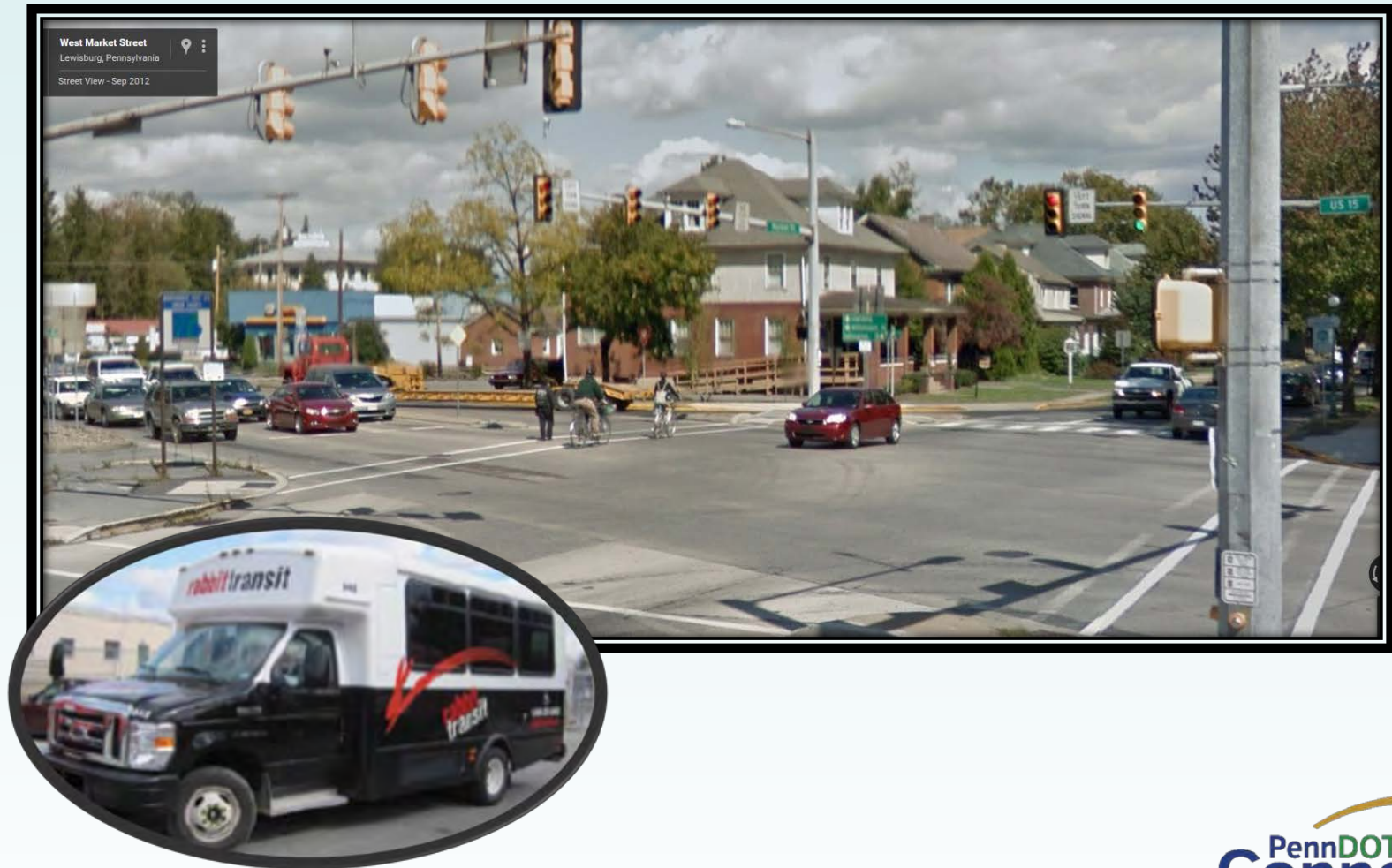
Vecteezy.com



# A road is more than the line between 2 points



# Consider all users



# GOAL: Better Communities and Mobility Powered through Collaboration

PennDOT Connects:

- builds **partnerships** that invest in sustainable transportation.
- leverages **resources** to improve communities.
- leads and innovates **for a more livable Pennsylvania.**
- delivers **projects that improve economic competitiveness, access to work, and overall quality of life.**





# Community Collaboration



# Collaborating With Communities

Connecting With Communities First

## **PennDOT is:**

- **Investing in a community with each project.**
- **Involving communities at the beginning of the planning process.**
- **Learning what elements may be important to include in the project to support a community's vision.**

# How It Works

- PennDOT and our planning partners meet with local governments to discuss details for each project prior to developing project scopes and cost estimates.
- All mobility needs are considered.
  - Bicycle
  - Pedestrian
  - Transit
  - Freight
  - Operations and ITS
  - Utilities
  - Community health
  - Stormwater management
  - Green infrastructure



# ➤ Allegheny County Construction Overview

- 123 miles of state roads paved or resurfaced in 2017
- Approximately 49 projects will be bid in 2017 worth \$295 million
- 34 projects in construction in 2017
- 105 bridges improved or replaced (31 structurally deficient)
  - *70 Preservations for \$46.7 million*
  - *29 Rehabilitations for \$104.5 million*
  - *6 Replacements for \$5 million*
- \$220 million in 2017 construction expenditures (estimated)

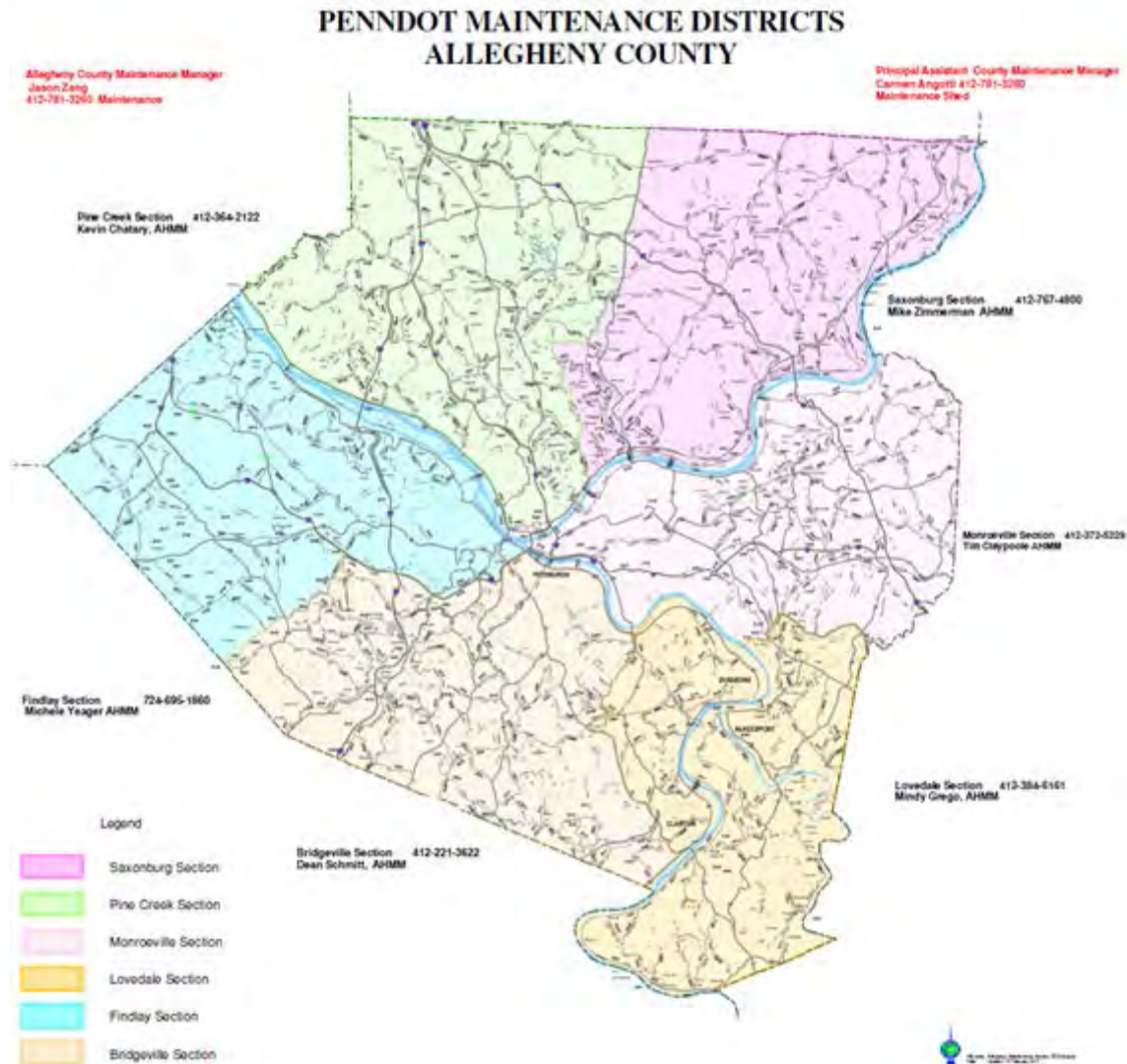


# Maintenance Division

**Angelo Pampena**  
**Assistant District Executive**  
412-429-5002



# County Maintenance Overview



# Allegheny County Maintenance

**Jason Zang, P.E.**

**Allegheny County Maintenance Manager**

**412-781-3260**



# 2017 County Maintenance Activities

Upcoming activities include:

- Department Force Paving
- Base Repairs
- Mech Patching
- Group Resurfacing
- Seal Coat
- Crack Sealing
- Drainage
- Shoulder Cutting



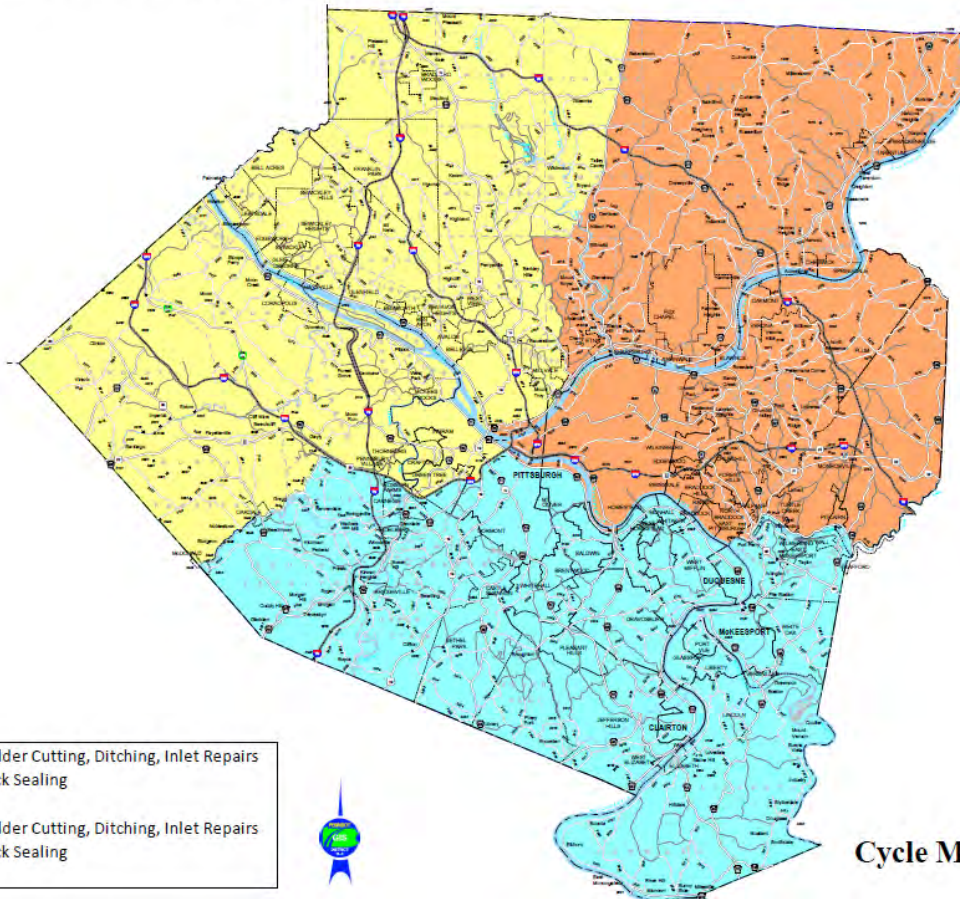
# Cycle Maintenance – 6 Year

## Legend

2018 Paving and Crack Sealing  
2019 Sealcoat  
2020 Drainage, Shoulder Cutting, Ditching, Inlet Repairs  
2021 Paving and Crack Sealing  
2022 Sealcoat  
2023 Drainage, Shoulder Cutting, Ditching, Inlet Repairs

## Legend

2018 Sealcoat  
2019 Drainage, Shoulder Cutting, Ditching, Inlet Repairs  
2020 Paving and Crack Sealing  
2021 Sealcoat  
2022 Drainage, Shoulder Cutting, Ditching, Inlet Repairs  
2023 Paving and Crack Sealing

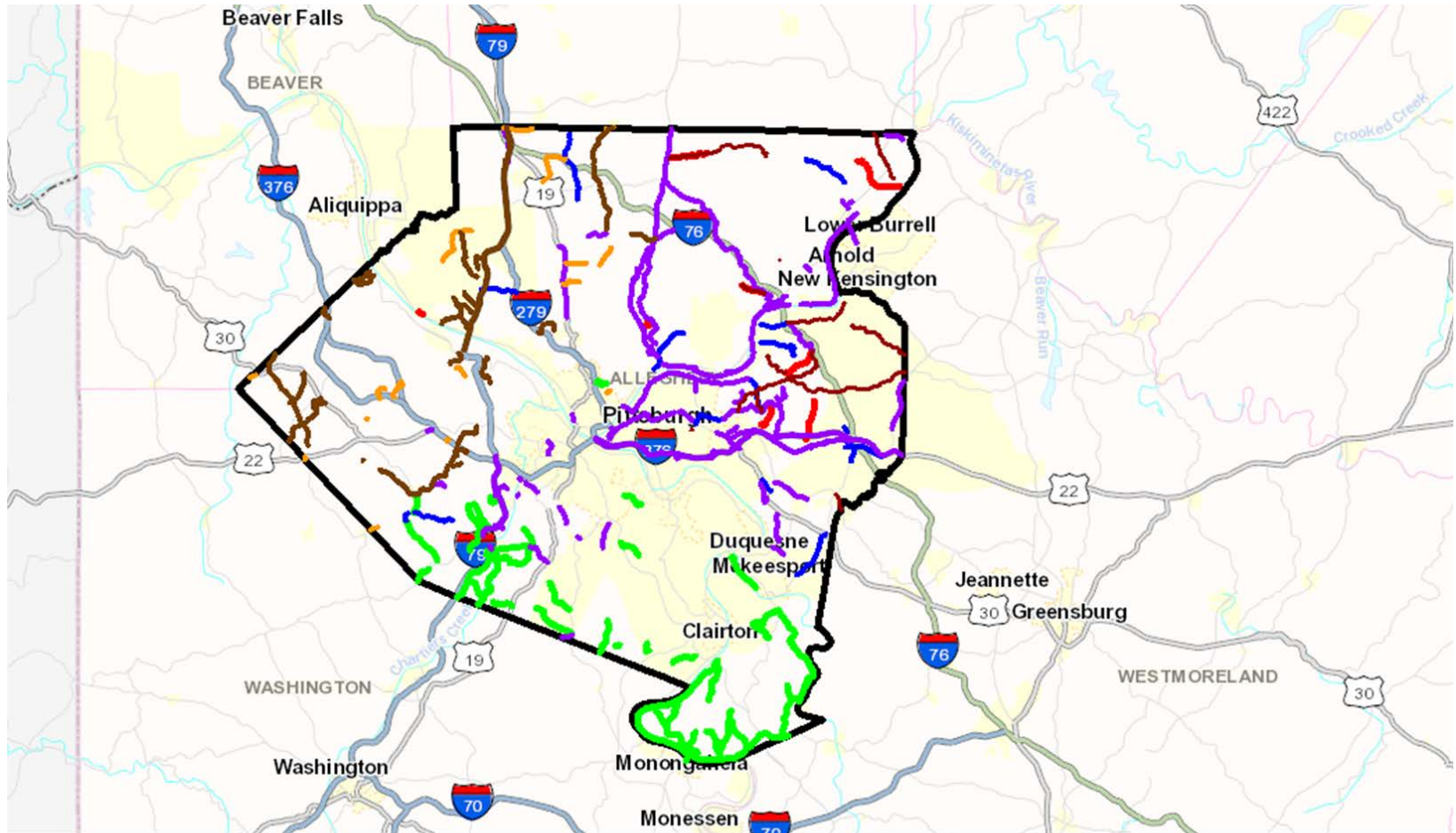


## Legend

2018 Drainage, Shoulder Cutting, Ditching, Inlet Repairs  
2019 Paving and Crack Sealing  
2020 Sealcoat  
2021 Drainage, Shoulder Cutting, Ditching, Inlet Repairs  
2022 Paving and Crack Sealing  
2023 Sealcoat

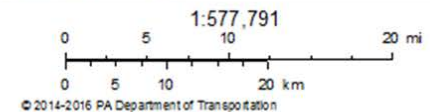
**Allegheny County**  
**Cycle Maintenance 6 Year Plan**

# Overall 2017 Work



March 21, 2017

- |                            |                            |                 |                  |
|----------------------------|----------------------------|-----------------|------------------|
| Shouldercut                | Base Repair and Mech Patch | Cracksealing    | Cracksealing MC  |
| Shouldercut                | Drainage                   | Cracksealing    | Group Job Paving |
| Base Repair and Mech Patch | Drainage                   | Cracksealing MC | Group Job Paving |



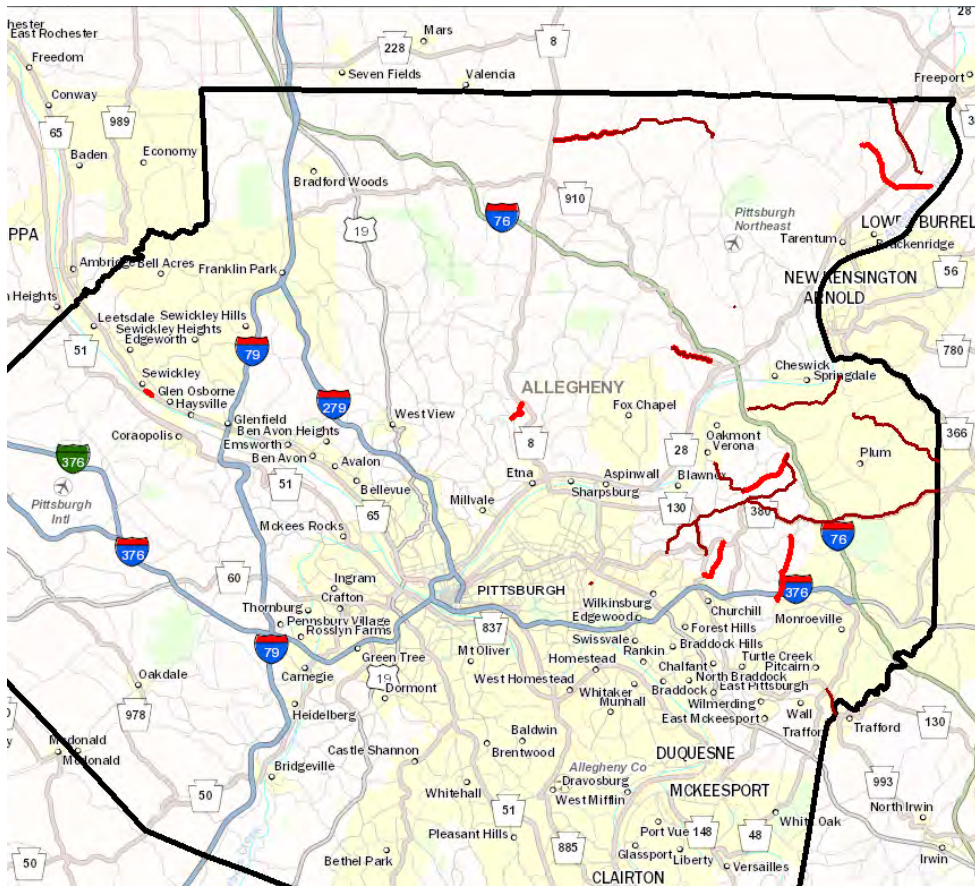
# ➤ Paving, Base Repair, Mech Patching Routes

9.5 & 19MM Paving	
State Route	Road Name
1006	Locust Hill Road
2059	Long Road
2065	Thompson Run Road
2074	Hulton Road
65	Ohio River Blvd
1028	Bakerstown Road
1032	Burtner road
4062	Glenshaw Avenue

Base Repair & Mech	
State Route	Road Name
130	Fifth Street
1016	Lefever Road
1028	Bakerstown Road
1028	Bakerstown Road
2108	Wilkins Avenue
130	Coal Hollow Road
400	Saltsburg Road
1006	Locust Hill Road
1028	Bakerstown Road
1037	Saxonburg Road
2058	Verona Road
2071	Shannon Road
2082	Coxcomb Hill Road
2088	Sardis Road



# 2017 Paving, Base Repair, Mech Patch

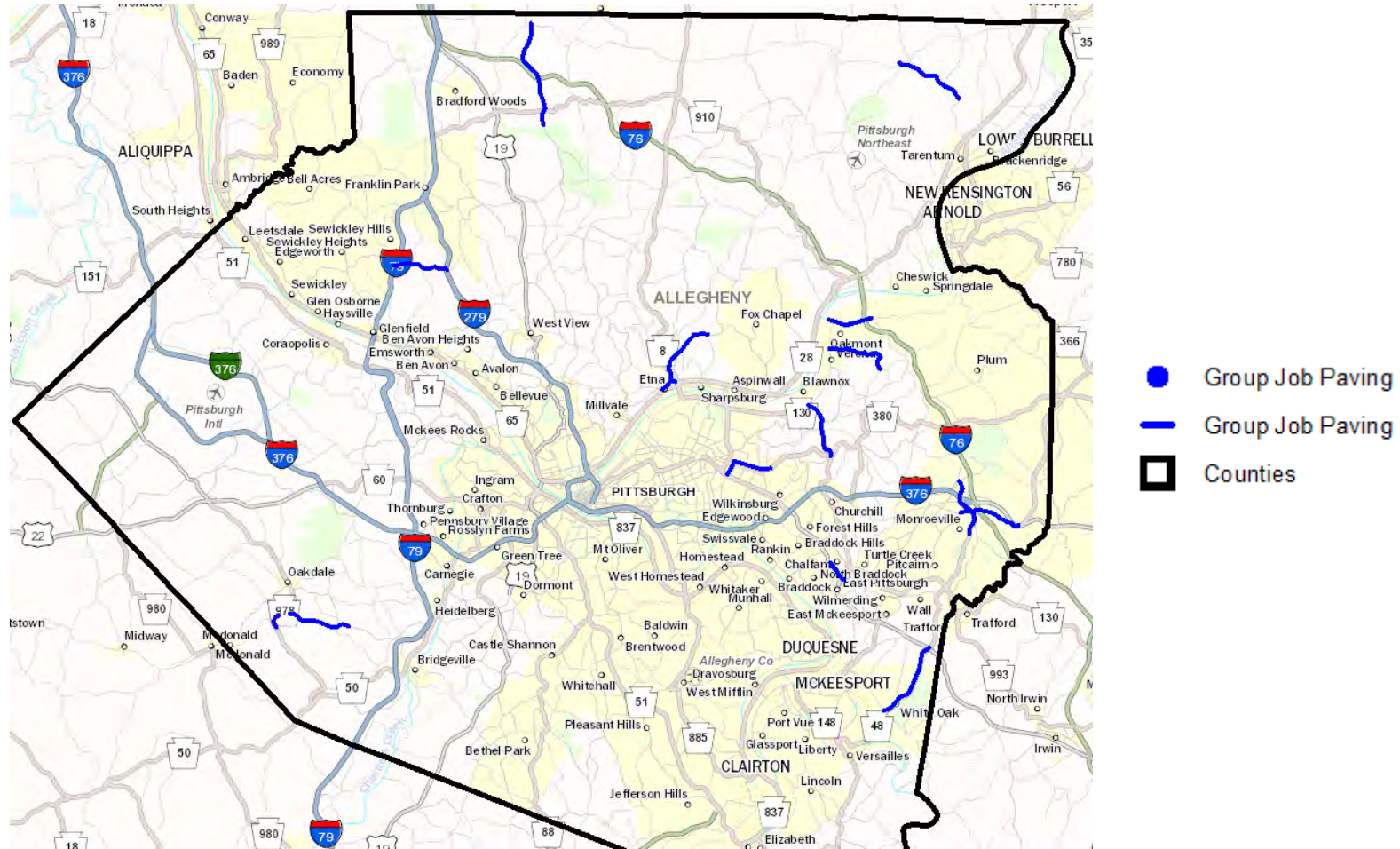


- Base Repair and Mech Patch
- DF paving
- Base Repair and Mech Patch
- DF paving
- Counties

# 2017 Group Paving Routes

Group Job Paving	
State Route	Route Name
48	Jacks Run Rd.
48	Mosside Blvd.
130	Mosside Blvd.
400	Sandy Creek Rd.
978	N. Dallas/Bennett St.
1001	Oakdale Rd.
1003	Bridge St.
1034	Dorseyville Rd.
2054	Bull Creek Rd.
2054	Northern Pike
2057	Haymaker Rd.
2080	Plum St.
2082	Hulton Rd.
2112	Electric Ave.
3024	Battle Ridge Rd.
4019	Butler St.
4022	Mt. Nebo Rd.
4063	Pearce Mill Rd.

# 2017 Group Job Paving



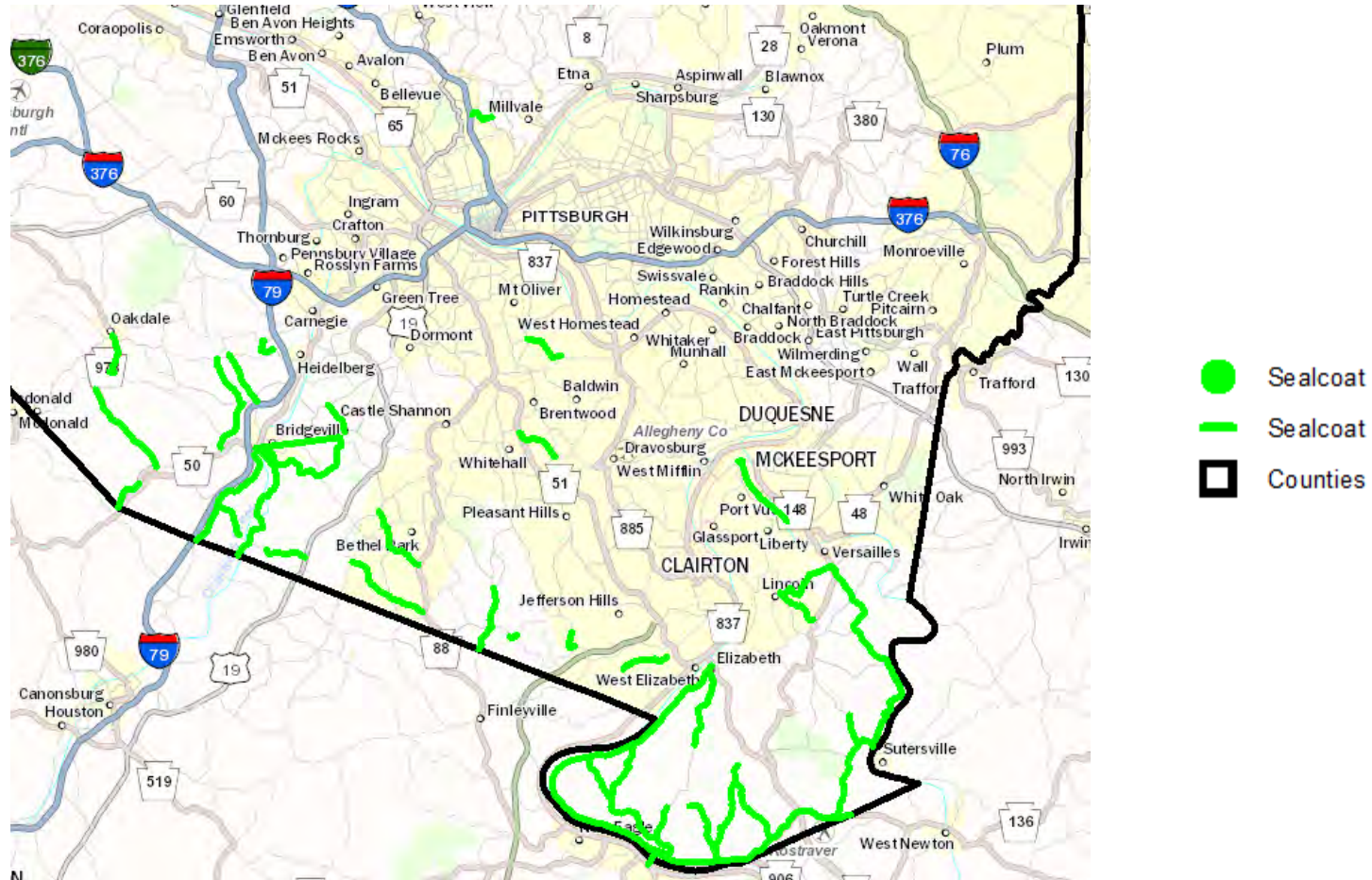
# 2017 Seal Coat Routes

SR	Road Name
136	Rainbow Run/West Newton Rd.
978	Battle Ridge Rd. Interchange
978	Union Ave.
2001	Bunola River Rd/Second Ave
2003	Church Hollow Rd.
2005	Raccoon Run Rd.
2007	River Hill Rd.
2009	Sunnyside Hollow Rd.
2011	Miracle Ridge Rd./Mentor Rd.
2013	Ella Hollow Rd.
2015	Williamsport Rd./Ninth St./Bayard St./Third Ave.
2017	Long Hollow Rd./Douglas Run Rd./Blythedale Rd./Industry Rd./Greenock Rd./Renzie St.
2018	Liberty Wy./West Smithfield St.
2020	Douglas Run Rd.
2025	Finney Rd.
2027	River Rd.
2079	Nichols Hill Rd.

3001	Millers Run Rd.
3003	Washington Pike
3004	Clifton Road
3005	Mayview Rd./Bank St.
3006	Boyce Rd.
3007	Walton Rd.
3010	Logan Rd.
3013	Brownsville Rd. Ext./Brownsville Rd.
3016	Single Track Rd.
3017	Gill Hall Rd.
3028	Presto Sygan Rd./Boyd's Run Rd.
3031	Forsythe Rd.
3034	Chartiers St/Lesnett St./McMillen Rd./Robb Hollow Rd./Kelso Rd.
3046	Doyle Rd.
3098	Agnew Ave./Joseph St.
3117	Dorrington Rd./Noblestown Rd. Ext.
4010	Mr. Pleasant Rd.
9104	Battle Ridge Rd. Interchange



# 2017 Seal Coat





# 2017 Crack Sealing Routes

State Route	Road Name
8	Ardmore Blvd./Penn Ave.
8	Ardmore Blvd.
8	Washington Blvd./Allegheny River Blvd./Butler St.
8	Washington Blvd./Allegheny River Blvd.
8	William Flynn Hwy.
8	William Flynn Hwy.
19	Perry Hwy.
19	Perry Hwy.
22	SR 0022 SH
22	SR 0022 SH
22	New William Penn Hwy.
22	New William Penn Hwy.
50	Washington Ave.
50	Noblestown Rd.
79	Raymond P. Shafer Hwy.
79	Raymond P. Shafer Hwy.
79	Raymond P. Shafer Hwy.
79	Raymond P. Shafer Hwy.
130	Allegheny River Blvd.
130	Tri-Boro Ave./Watkins Ave./Broadway Blvd.
130	Tri-Boro Ave./Watkins Ave./Broadway Blvd.
286	Golden Mile Hwy.
366	Tarrentum Bridge/Stevenson Blvd.
366	Tarrentum Bridge/Stevenson Blvd.
376	Penn Lincoln Hwy.
376	Penn Lincoln Hwy.
400	Bigelow Blvd./Baum Bl./Center Ave./Penn Ave.
400	Bigelow Blvd./Baum Bl./Center Ave./Penn Ave.
400	Frankstown Rd.
791	Rodi Rd.
791	Rodi Rd.
910	Gibsonia Rd./SR 910 SH/Indianola Rd./SR 910 SH
1001	Bridge St./Main St./Freeport Rd.
1001	Freeport Rd.
1001	Freeport Rd.
1001	Freeport Rd.
1001	Pittsburgh St./Freeport Rd./Seventh Ave./Tenth Ave.
1002	Freeport Rd.
1008	Gulf Lab Rd.

1028	Bakerstown Rd.
1034	Bull Creek Rd.
1034	Bull Creek Rd.
1035	Ridge Rd.
1046	Pittsburgh Mills Blvd.
1046	Pittsburgh Mills Blvd.
2037	Pennsylvania Ave./Westinghouse Ave./McKeesport Blvd.
2037	McKeesport Blvd.
2048	William Penn Hwy.
2048	William Penn Hwy.
2051	Center St./Main St./Brinton Ave.
2051	Center St.
2058	Swissvale Ave./Montier St.
2058	Swissvale Ave./Park Ave.
2058	Hulton Rd.
2060	Aber Rd.
2064	Lime Hollow Rd.
2081	Old Northern Pike
2084	Mill St.
2101	Forward Ave. Int. Ramp F Rd.
2110	Penn Ave.
2110	Penn Ave.
2122	31st St. Bridge/Penn Ave./Butler St.
2152	South Bend Ln.
2183	Braddock Ave. Ramp A
2208	Blvd. of the Allies
2208	Blvd. of the Allies
3005	Station St.
3022	Church Hill Rd.
3035	Weyman Rd.

# 2017 Crack Sealing Routes Extended

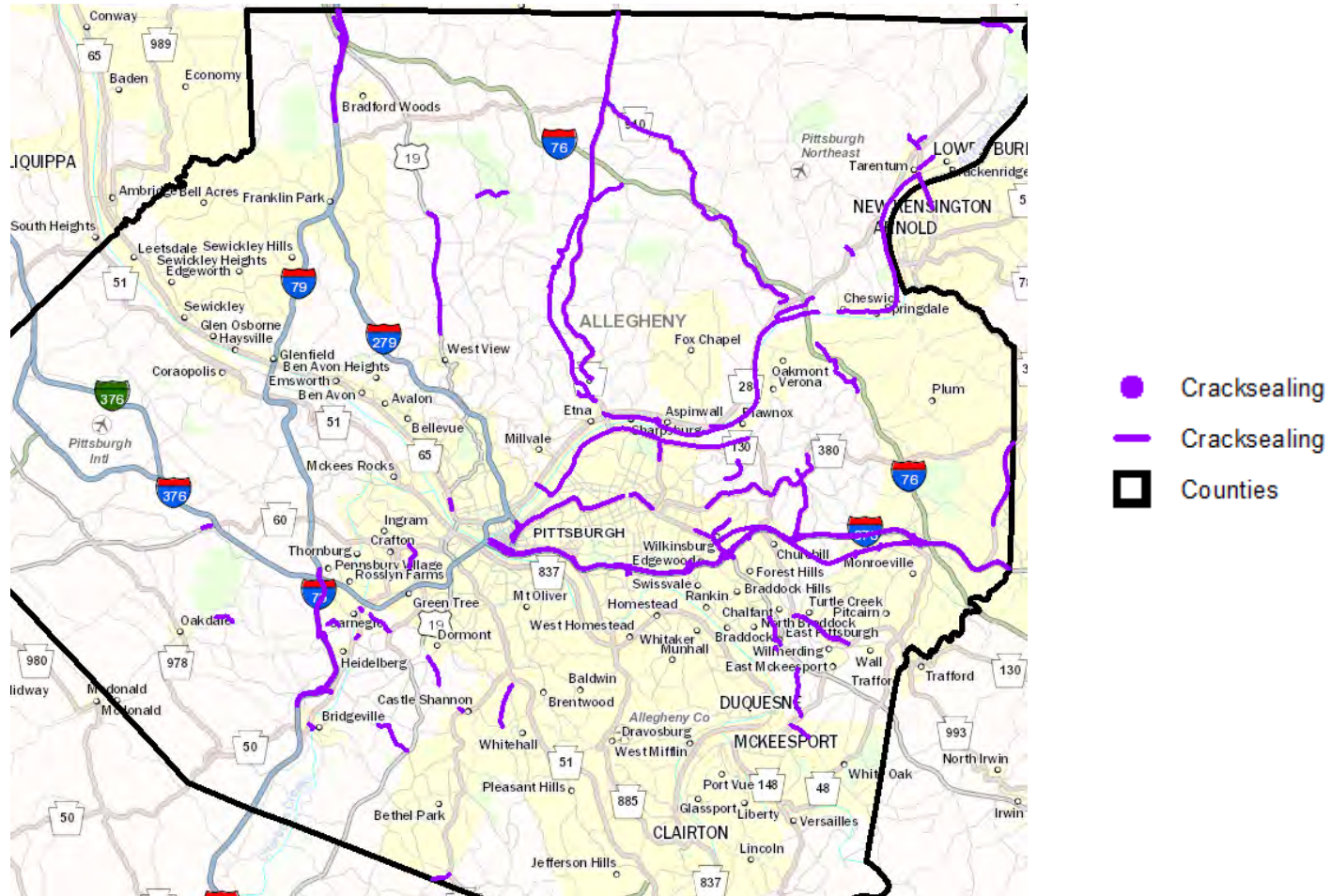
3036	Fort Couch Rd.
3037	Castle Shannon Blvd.
3037	Scott Rd.
3054	Collier Ave.
3056	Chestnut St.
3056	Forsythe Rd.
3064	Gregg Station Rd.
4017	Grant Ave./Wilson St.
4017	Wilson St.
4019	Grant Ave./Mount Royal Blvd.
4070	Ingomar Rd.
4070	Wildwood Rd. Ext.
8005	Kirwan Heights Int. Ramp C
8005	Kirwan Heights Int. Ramp A
8005	Kirwan Heights Int. Ramp B
8005	Kirwan Heights Int. Ramp D
8006	Bates St. Int. Ramp D
8006	Bates St. Int. Ramp A
8006	Bates St. Int. Ramp B
8007	Carnegie Int. Ramp A
8007	Carnegie Int. Ramp B
8007	Carnegie Int. Ramp C
8007	Carnegie Int. Ramp D
8008	Forward Ave. Int. Ramp B
8008	Forward Ave. Int. Ramp A
8008	Forward Ave. Int. Ramp C
8008	Forward Ave. Int. Ramp D
8008	Forward Ave. Int. Ramp H
8008	Forward Ave. Int. Ramp E
8008	Forward Ave. Int. Ramp G

8008	Forward Ave. Int. Ramp M
8010	Braddock Ave. Int. Ramp A
8010	Braddock Ave. Int. Ramp B
8010	Braddock Ave. Int. Ramp X
8010	Braddock Ave. Int. Ramp F
8010	Braddock Ave. Int. Ramp C
8010	Braddock Ave. Int. Ramp D
8010	Braddock Ave. Int. Ramp H
8010	Braddock Ave. Int. Ramp E
8010	Braddock Ave. Int. Ramp G
8012	Ardmore Blvd. Int. Ramp B
8012	Ardmore Blvd. Int. Ramp A2
8012	Ardmore Blvd. Int. Ramp Y
8012	Ardmore Blvd. Int. Ramp C
8012	Ardmore Blvd. Int. Ramp D
8012	Ardmore Blvd. Int. Ramp G
8012	Ardmore Blvd. Int. Ramp A
8012	Ardmore Blvd. Int. Ramp F
8014	Greensburg Pike Int. Ramp R
8014	Greensburg Pike Int. Ramp S
8016	Churchill Int. Ramp A
8016	Churchill Int. Ramp B
8018	Business 22 Int. Ramp A
8018	Business 22 Int. Ramp AU
8020	Penn Hills Int. Ramp C
8020	Penn Hills Int. Ramp F
8020	Penn Hills Int. Ramp E
8020	Penn Hills Int. Ramp D

# 2017 Crack Sealing Routes Extended

8022	Monroeville Int. Ramp K
8022	Monroeville Int. Ramp M
8022	Monroeville Int. Ramp J
8022	Monroeville Int. Ramp L
8025	Warrendale Int. Ramp J
8025	Warrendale Int. Ramp K
8027	Marshall Int. Ramp W
8027	Marshall Int. Ramp L
8029	Ramp D
8076	Patton St. Int. Ramp D1
8076	Patton St. Int. Ramp D2
8076	Patton St. Int. Ramp D3
8078	Crosstown Blvd. Int. Ramp B
8078	Crosstown Blvd. Int. Ramp K
8078	Crosstown Blvd. Int. Ramp F
8078	Crosstown Blvd. Int. Ramp 7th Ave.
8078	Crosstown Blvd. Int. Ramp D
8078	Crosstown Blvd. Int. Ramp G
8078	Crosstown Blvd. Int. Ramp J
8078	Crosstown Blvd. Int. Ramp 510
8078	Crosstown Blvd. Int. Ramp 520
8080	Monroeville Mall Int. Ramp D
8080	Monroeville Mall Int. Ramp C
8082	Highland Park Bridge Int. Ramp C
8082	Highland Park Bridge Int. Ramp E
8082	Highland Park Bridge Int. Ramp K
8082	Highland Park Bridge Int. Ramp X
8082	Highland Park Bridge Int. Ramp F
8082	Highland Park Bridge Int. Ramp G
8082	Highland Park Bridge Int. Ramp W
8082	Highland Park Bridge Int. Ramp D
8124	Lindon Ave. Ramp

# 2017 Crack Sealing

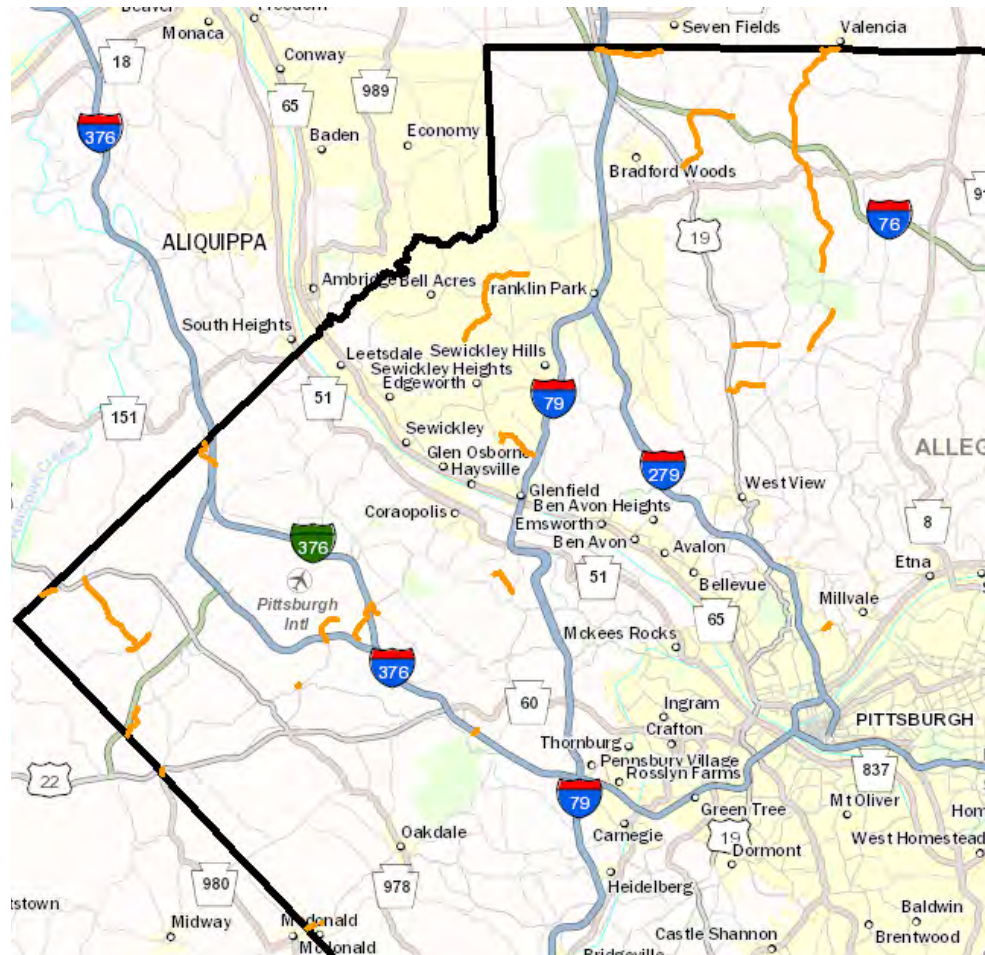


# 2017 Drainage Routes

SR	Road Name
980	Robinson Hwy.
3048	Noblestown Rd.
3070	McClaren Rd.
3070	Ewing Rd.
3071	Potato Garden Run Rd./Corkbocktown Rd.
3075	Hookstown Grade Rd.
3078	Burgettstown Rd.
3082	Clinton Frankfort Rd.
3083	South Petrie Rd.
3084	Economy Grade Rd.
3089	Washinton Rd.
3145	Ridge Rd.
4008	Williams Rd.
4024	Cumberland Rd.
4030	Ferry Rd.
4031	Babcock Bl.
4032	Fern Hollow Rd./Campmeeting Rd.
4052	Graham Rd.
4054	Freeport Rd.
4056	Perrymont Rd.
4059	Mars Valencia Rd. Ext.
4064	Peebles Rd.
4068	Wallace Rd.



# 2017 Drainage

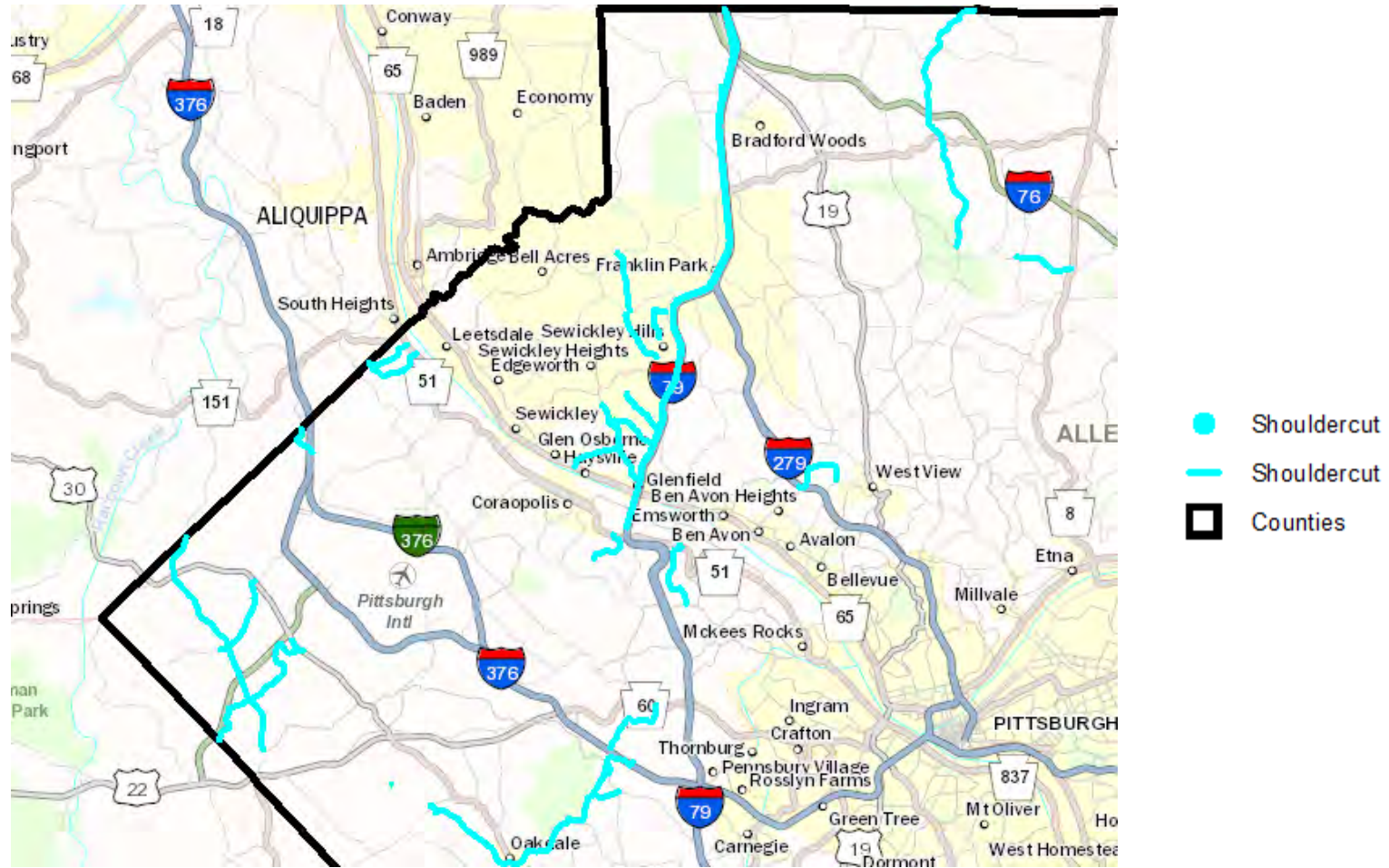


- Drainage
- Drainage
- Counties

# 2017 Shoulder Cutting Routes

Shouldercut	
State Route	Route Name
79	SR 79
3041	McMichael Rd
3043	Cowan Rd
3048	Noblestown Road Shoulder cutting
3054	Baldwin Rd
3057	Whittengale Rd
3071	Potato Garden Rd.
3078	Burgettstown Rd.
3080	Burgettstown Rd
3083	North Petrie Rd
3084	Economy Grade
3089	Washington Rd
3091	Herbst Road Shoulder Cutting
3094	Bocktown Rd
3096	Harper Rd
4014	Gass Rd
4028	River Rd/Redgate Rd
4030	Ferry Rd
4031	Babcock Bl
4033	Center Av/Merriman Rd
4035	Lang Rd
4039	Audubon Rd/Henry Rd
4041	Magee Rd
4070	Wildwood Rd
8025	Warrendale Int/Rmp J Rd

# 2017 Shoulder Cutting





# Allegheny County Transformation

The Department utilizes various methods to obtain material at a cost savings:

- High Recycled Asphalt Pavement
- Virgin #8 Chipping Stone
- Crushed Concrete

# Allegheny County Transformation

## High Recycled Asphalt Pavement

Department Forces develop plans of roadways to be paved then request the necessary 19mm and 9.5mm asphalt from the vendor. In return, we provide the vendor the millings from those roads.

Anticipated 2017 savings to the Department:

**\$631,500**

# Allegheny County Transformation

## Virgin #8 Chipping Stone

The Department sends millings from several resurfacing projects to a contract awarded vendor and receives new chipping stone in return.

Cost of #8 stone without millings - \$37/ton

Cost of #8 stone with millings - \$12.80/ton

Anticipated 2017 savings to the Department

**\$302,500**

# Allegheny County Transformation

## Crushed Concrete

Old concrete from patched and reconstructed highways can be provided to a vendor who then transforms the slabs into different sizes for our Department Forces. Examples include: 2A, #1, #3, & R6.

Anticipated 2017 savings to the Department

**\$212,000**

# Allegheny County Contact Information

County Office Phone Number: 412-781-3260

**Jason Zang, P.E.**

Highway Maintenance Manager

**Carmen Angotti**

Principal Assistant County Maintenance Manager

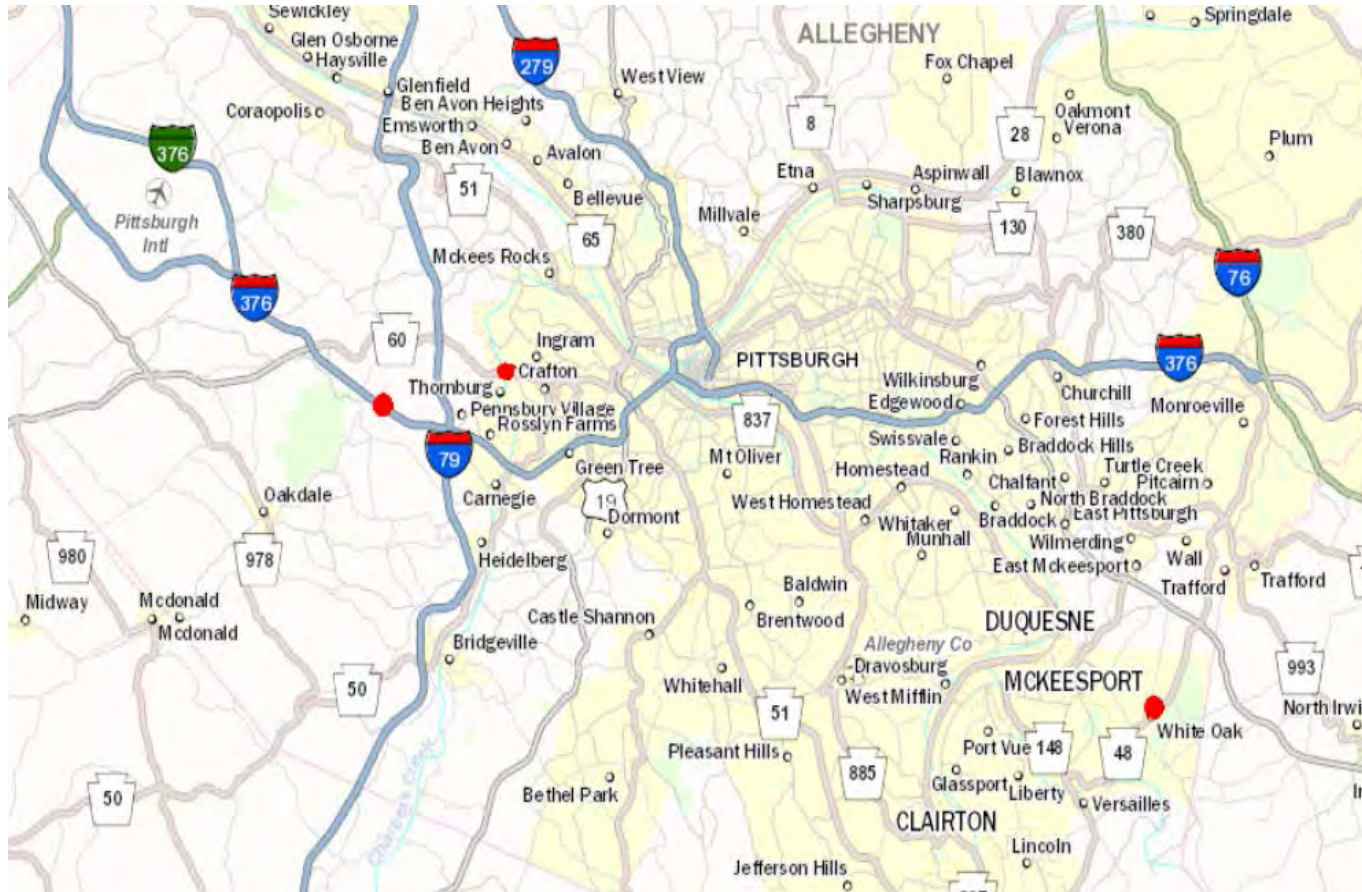


# Bridge Maintenance Crews

**Michael Adams, P.E.**  
**Maintenance Operations Engineer**  
412-429-3813



# 2017 South Allegheny County Bridge Crew Sites



# Bridge Crew Planned Sites

- **White Oak Borough** – Jacks Run Rd. (SR48) over Jacks Run
  - Barrier repairs; Single lane closures with alternating traffic
- **Pittsburgh** - Thornburg Bridge (SR60) over Chartiers Creek
  - Concrete deck spall repairs; Single lane closures
- **Collier Twp.** – Boyce Rd. (SR3041) over Campbells Run
  - Concrete substructure repairs; Temporary single lane closures as needed



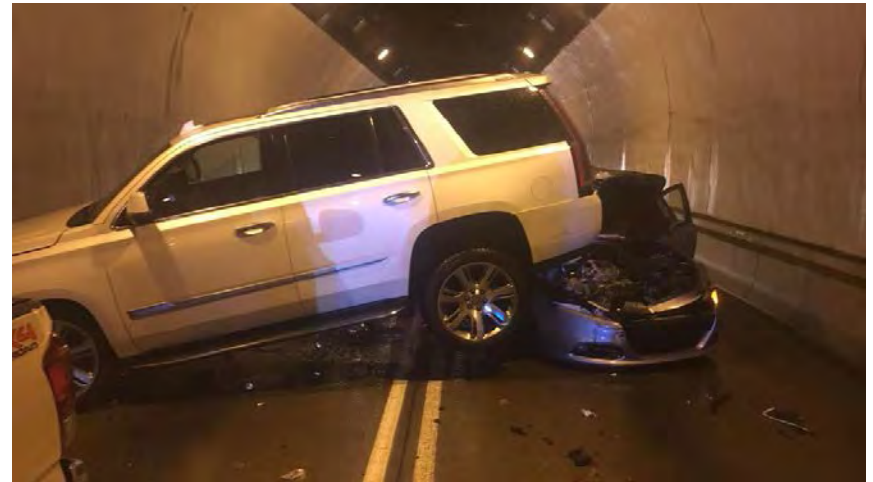
# Tunnel Maintenance

**Benjamin DeVore, P.E.**  
**Tunnel Maintenance Manager**  
412-381-1815



# Incident Management

- 24/7/365 staff at each tunnel
- Respond to any incident affecting traffic
- 7 tow trucks in service
- Assist 1<sup>st</sup> responders
- Clear disabled vehicles
- Provide assistance to motorists
- 2,262 assists provided in 2016





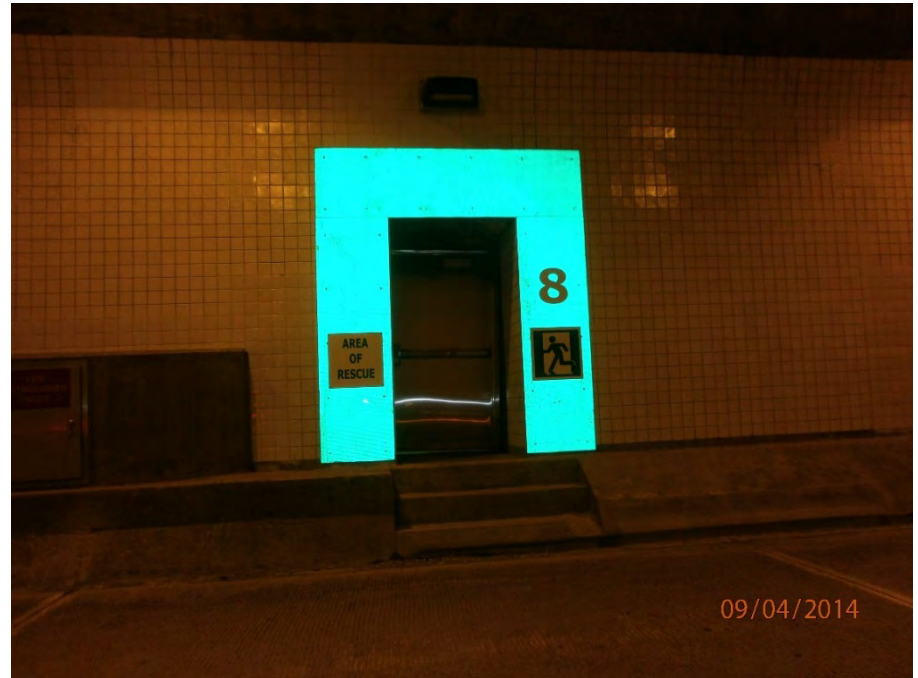
## Tunnels/Pittsburgh Traffic Incident Management (TIM) Team

- Multi-disciplinary team of 1<sup>st</sup> responders, PennDOT, local municipalities, tow companies, PSP, utilities, and other stakeholders
- Focus on responder safety, quick clearance, and prompt, reliable, interoperable communications
- Learn how to work together better
- Joint training
- Conduct After Action Reviews
- 3-4 meetings/year
- **1st meeting May 2017 – Get involved!**



# ➤ Installation of Emergency Exit and Marking Systems

- Based on NCHRP research project that developed guidelines
- Emergency Exit signs
- Running Man signs
- Distance markers
- Exit door illumination



# Tunnel Washing

- Nightly lane closures
- April – November
- Fort Pitt, Liberty, and Squirrel Hill Tunnels
- Sunday night through Thursday night
  - 9:30pm – 5:30am
- Stowe Tunnel
  - 2x/year



# Electrical Maintenance

- Maintain lighting, ventilation, and life-safety systems
- Occasional lane closures
  - 9:30pm – 5:30am
- Ensure the operation of tunnel systems that keeps the tunnels safe for the motoring public





# Cell Phone Service

- Distributed Antenna System (DAS)
- Shared system between AT&T, Sprint, T-Mobile, and Verizon
- Carriers responsible for maintaining system
- No taxpayer money included in project
- Liberty & Squirrel Hill Tunnels online
- Ft Pitt Tunnel nearing completion



# Waze Beacons

- Installed September 2016
  - Liberty Tunnel
  - Fort Pitt Tunnel
- Allows GPS to work without reception
- Allows GPS to work without reception
- Open source technology
- 1<sup>st</sup> Tunnel in US to install
- 2nd Tunnel worldwide



# ➤ I-279 Freeway Service Patrol & HOV Lane

- Open/Close HOV lane daily Monday – Friday
- Provide assistance to motorists during AM rush & PM rush hours
- Patrol I-279 construction zone April – September 5:30 am – 9:30 pm to clear incidents safely and quickly



# Traffic Engineering & Operations Unit

**Todd Kravits, P.E.**  
**District Traffic Engineer**  
412-429-4975





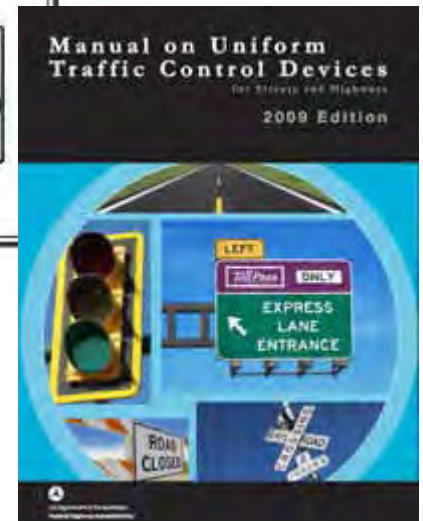
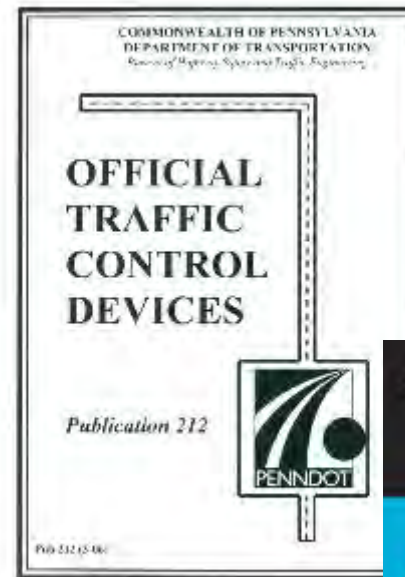
# What You Need to Know

We provide the following services at no cost to our municipal partners when state roads are involved:

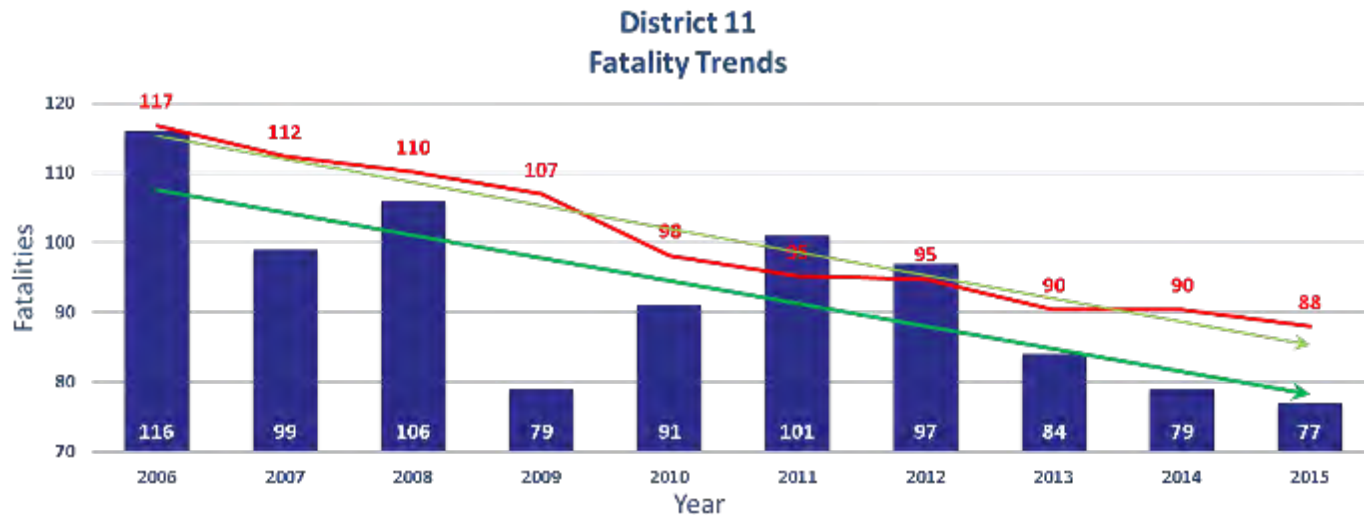
- **Traffic Signal Design and Operation Reviews**
- **Traffic Engineering and Safety Studies**
  - Speed, Signal, Stop and Yield Sign, Turn Restriction, Weight Limit, School Zone and Engine Brake Retarder Studies
- **Other Services**
  - Special Event (Races/Parades) Permits
  - Banner Agreements
  - Mid-Block Crosswalks Reviews
  - Hazardous Walking Route Reviews
  - Traffic Counts
  - Crash Data Analysis

# Why Do We Do This?

A Traffic Engineering and Safety Study is required for approval, location, installation, revision, operation, maintenance, and removal of all traffic signs, signals, markings, and other traffic control devices on all streets and highways in the Commonwealth.



# Safety Management



- Over the last decade\* (2006-2015), we have reduced our 5-year average fatalities and serious injuries by 25%, How?
- Through an aggressive program of:
  - Systematic Low Cost Safety Improvements
  - Site Specific Safety Projects
  - Construction Work Zone Enhancements
  - Pedestrian/Bicycle Improvements
  - Safety and Enforcement Programs

# Signing & Pavement Markings

Although PennDOT is responsible for installing and maintaining most of the signs and pavement markings on state owned roads, we are not responsible for:

- Speed limit postings less than 40 MPH
- Stop signs on local roads
- Crosswalks, Stop Bars, and Legends
- Entrance and crossing related warning signs
  - School, Pedestrian, etc. crossings
  - Plant, Park, School, etc. entrances

Certain businesses may qualify for signing under PA Tourism Signing Trust. Call us for more information.

# Traffic Signals

PennDOT does not own, operate or maintain traffic signals. We do however:

- Issue permits for traffic signals and flashing devices
- Provide design assistance for local municipalities
- Respond to complaints/operational issues
  - Signal timing





# Traffic Signals

- There are 1,712 traffic signals and 392 flashing devices throughout the District. This includes 617 signals and 110 flashing devices in the City of Pittsburgh
  - Improper signal timing contributes to delay, traffic congestion, pollution and excessive fuel consumption
- Available programs
  - Green Light Go: Pennsylvania's Municipal Signal Partnership Program
    - Application period begins in January
    - 20% Required Match
  - Automated Red Light Enforcement (ARLE)
    - Application period begins in June
    - No Match Required

# Construction Division

**Jim Foringer, P.E.**  
**Assistant District Executive**  
412-429-5007



**Doug Thompson, P.E.**  
**Principal Assistant Construction Engineer**  
412-429-5060

# Construction



Doug Thompson, P.E.  
**412-429-5060**



Elwood Balog, P.E.



Bill Lester



Jim McKnight  
**412-429-5061**



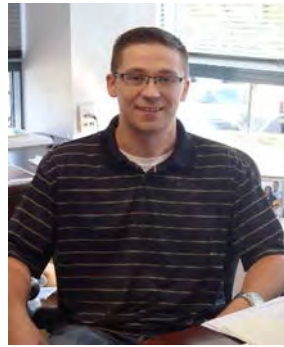
Lori Musto



John Myler  
**412-429-5063**



Doug Seeley, P.E.



Shane Szalankiewicz, P.E.



Joe Wieseckel, P.E.

# Construction Material Usage

## 2016 Usage

- 579,160 tons of asphalt
- 418,986 square yards of concrete for pavement
- 13,329 cubic yards of concrete for structures
- 906,550 tons of aggregate

## 2017 Projected Usage

- 507,171 tons of asphalt
- 618,098 square yards of concrete for pavement
- 54,379 cubic yards of concrete for structures
- 809,162 tons of aggregate

# Liberty Bridge

- \$80.08 million
- Continuation of Liberty Bridge deck replacement, latex overlay, expansion dam replacement, and rehabilitation of Boulevard of the Allies structure





# Liberty Bridge



- 80 consecutive day closure of the on and off ramps from the Liberty Bridge to the Boulevard of the Allies
- 80 consecutive day closure of the Boulevard of the Allies between Grant Street and the Liberty Bridge
- 10 overnight bridge closures (Subject To Change)
- 11 weekend bridge closures
- Contractor permitted to have single-lane restrictions on Liberty Bridge overnight (none currently scheduled)
- 42 consecutive day single-lane restrictions on Second Avenue
- 3<sup>rd</sup> week of April to end of June, the North end will be restricted to 3 lanes long term with 2 lanes in the peak direction
- Major work will begin in early April
- Overall work continues into 2018

# Liberty Tunnel

- Estimated \$20-25 million
- Rehabilitation of the Liberty Tunnels including pavement repairs and grinding, roadway ventilation (fans, motors and drives), office-area HVAC, safety, and electrical systems; structural repairs to the fan house, stabilization of a retaining wall supporting portions of the fan house grounds



# Liberty Tunnel

- 3 full weekend tunnel closures in each direction
- Between 96 and 168 overnight tunnel closures in the northbound direction
- Between 96 and 120 overnight tunnel closures in the southbound direction
- Work will begin in May and the overall project will conclude in February 2019



# Liberty Tunnel Interchange



- \$4.32 million
- The project consists of concrete patching and an asphalt overlay of West Liberty Avenue and Route 51 at the south portal of the tunnel
- Rehabilitation work will occur on two Route 51 bridges and on several ramps at the interchange



# Liberty Tunnel Interchange

- Ramp closures, approximately two weeks in length each, will occur
- Overnight and weekend lane restrictions will be implemented
- March 15 through late July 2017.





# I-376 Fort Pitt Tunnel Repairs

- \$14.51 million
- Installation of fire suppression system
- Overnight closures and single-lane restrictions will occur in the outbound (westbound) Fort Pitt Tunnel through early April
- Mid-May 2017 completion



# Route 65

- \$25.28 million
- Northbound Route 65 work includes concrete patching, asphalt overlay, bridge rehabilitation, ramp reconstruction, drainage, guiderails and various other construction activities



# Route 65



- Single lane restriction from Fort Duquesne Bridge to McKees Rocks Bridge
- Two travel lanes will be maintained from Fort Duquesne to West End Bridge
- One travel lane will be maintained from West End Bridge to McKees Rocks Bridge
- Various ramp closures will occur
- Work began on March 6 and will end in early September



# ➤ SR 19 West End Circle Sign Improvement

- Estimated as \$0.5-1 million
- Sign improvements at the West End Circle
- Between SR 51 approach to Carson Street and at the South Main Street Connector (SR60)
- Off-peak lane restrictions
- Work will occur late summer 2017 and conclude by the end of 2017



# SR 3067 Industrial Highway

- Estimated at \$2.5-\$3.5 million
- Between Roswell Drive and Beechnut Drive
- Concrete rehabilitation and asphalt overlay
- Anticipated start of mid-2017
- The work will conclude in late 2017 or early 2018





## SR 3088 Hookstown Grade Rd Bridge Deck Replacement

- Estimated at \$1.5-\$2 million
- Hookstown Grade Road over Business 376 in Findlay Township
- Anticipated start in August 2017 and concluding in mid-November 2017
- Deck replacement, beam repair, and approach work
- Traffic will be maintained by a temporary signal for duration of the project

# I-79 Roll-Over Detection System

- Estimated \$1.1 – 1.3 million
- I-79 at S bends in Robinson and Kennedy Townships
- Work includes installation of an automatic warning system to help truck drivers take preventative action prior to entering into a curved section of the road



# I-376 – Beaver to McClaren

- \$66.34 million
- Eastbound I-376 reconstruction and rehabilitation
- Maintain 2 lanes of traffic in the eastbound direction with a crossed over “express” lane
- The express lane will be crossed over in the westbound lanes and will not have access to any exits
- Cross over will begin in late April
- Overall project will conclude in November 2017



# I-376 – Business Loop 376 to Airport



- \$42.36 million
- Roadway reconstruction, concrete patching, subgrade stabilizations, bridge rehabilitation work
- Work will occur in the westbound direction in 2017
- Two lanes of shifted traffic will be maintained with intermittent off-peak single-lane restrictions
- Project starts March 17 and will conclude in December 2018





# ➤ SR 22 Washington County Line to N. Fayette

- \$7.3 million
- Overlay and bridge preservation
- Early May 2017 completion





# SR 3054 Ewing Road Slide



- \$608,000
- Emergency slide repair with a geosynthetic reinforced soil slope construction
- Milling and asphalt paving to be completed by early June 2017



# SR 19 Cochran Road

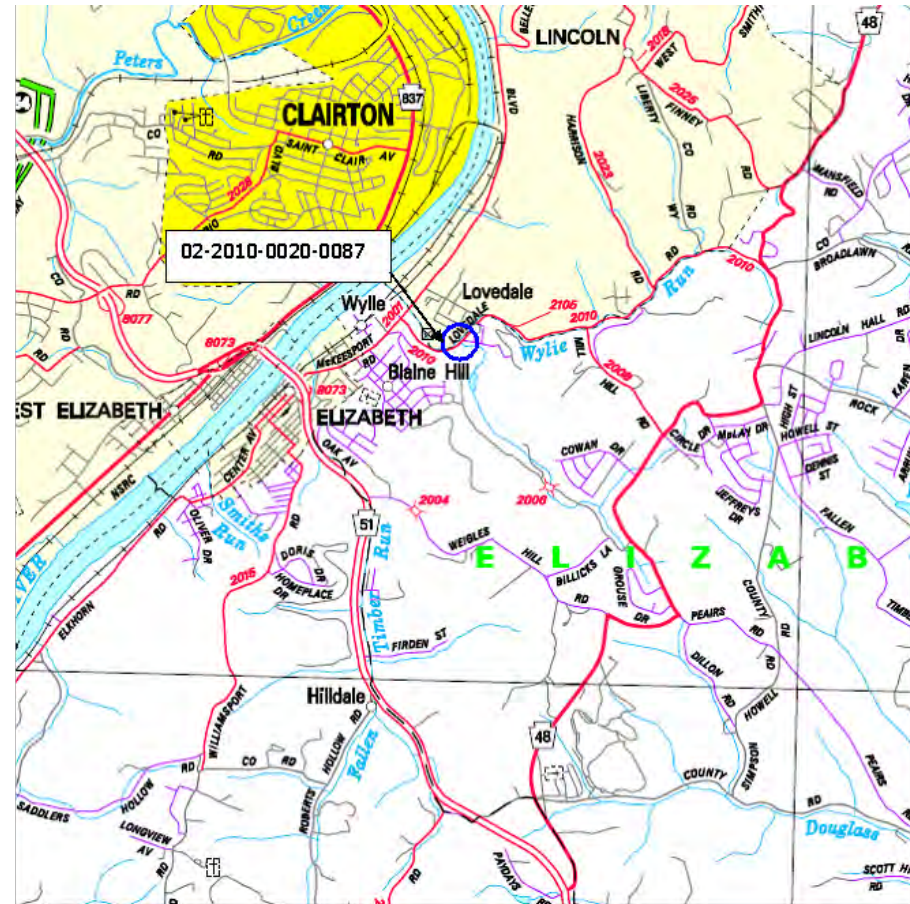
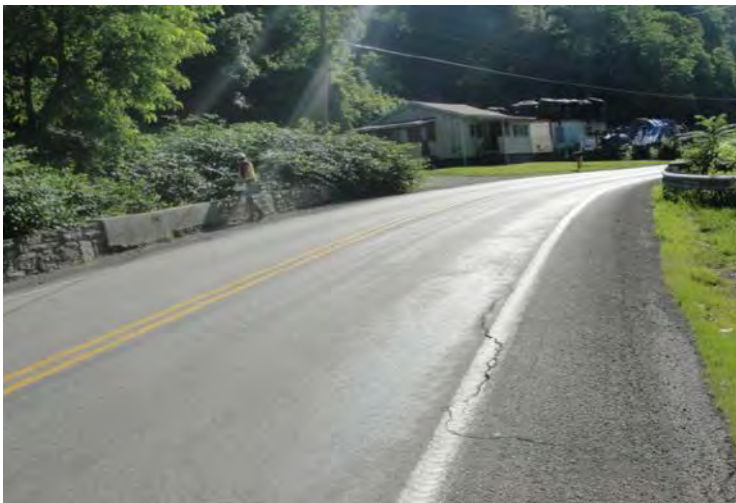
- \$2.8 million
- Milling and asphalt paving
- Traffic signals and concrete curb ramps
- End of April 2017 completion date





# ➤ SR 2010 Lovedale Road Bridge Replacement

- Estimated at \$1-\$2 million
- Lovedale Rd over Wylie Run in Liberty Borough
- Anticipated to begin in late 2017
- Traffic will be detoured



# SR 50 Elizabeth Bridge

- Estimated at \$30-32 million
- Bridge rehabilitation
- One lane of traffic in each direction on Route 51 over the bridge will be maintained during peak travel hours. Ramp closures may occur during the project.
- Work begins in July and the project will finish in the Spring of 2019





# SR 837 Glenwood Interchange Phase 3



- \$17.33 million
- Continuation of Route 837 bridge deck replacement requiring cross over traffic pattern, various ramp closures, and lane restrictions
- Bridge deck replacement on Route 885
- Anticipated to end December 2017





# ▶ SR 2048 Business 22 Adaptive Traffic Signal System



- \$1.5-\$2 million
- Let date of 6/8/2017
- Municipality of Monroeville, Wilkins Township, & Churchill Borough
- Adaptive traffic signal system installation on Business 22 between Rodi Road and Mosside Boulevard.

# I-279

- \$87.94 million
- Concrete patching and overlay, preservation on 30 bridges and 49 overhead signs structures, repairs to 29 walls, ramp repairs, reconfiguration of ramp from northbound I-579 to northbound I-279, lengthening of the Madison Avenue on-ramp, lengthening of the northbound Perrysville Avenue on-ramp



# I-279



- Southbound work in 2017
- One lane of traffic will be crossed over into the northbound lanes between Camp Horne Road and Perrysville interchanges. Southbound traffic will then access the HOV lanes.
- Overnight and weekend lane closures will occur
- Crossover begins weekend of April 15-16
- Overall project continues through June 2019

# Allegheny Group 111-17-7135-3

- Let Date: 4/6/2017
- Estimated Cost: \$6-\$7 million
- Milling, resurfacing, shoulder repair, base repair, drainage, pavement marking, and other miscellaneous construction
- **Mossie Boulevard (Route 48)** from Cambridge Square Drive to Route 22 (William Penn Highway) in the Municipality of Monroeville
- **Jacks Run Road (Route 48)** from Lincoln Way (Route 2031) in White Oak Borough to Route 30 (Lincoln Highway) in North Versailles Township
- **Battle Ridge Road (Route 978)** from Sterling Drive to Union Avenue (Route 978) in South Fayette Township
- **Northern Pike (Route 2054)** from Pitcairn Road to Route 22 (William Penn Highway) in the Municipality of Monroeville
- **Haymaker Road (Route 2057)** from Beatty Road to Route 22 (William Penn Highway) in the Municipality of Monroeville
- **Electric Avenue (Route 2112)** from Route 30 (Lincoln Highway) in North Braddock and Chalfant boroughs to Braddock Avenue (Route 2037) in East Pittsburgh Borough
- **Battle Ridge Road (Route 3024)** from Union Avenue (Route 978) to Dutch Hill Road in South Fayette Township



# 7<sup>th</sup> Street Bridge (Andy Warhol)

- \$25.4 million
- The rehabilitation of the Andy Warhol 7th Street Bridge spans
- Complete concrete deck replacement, beam and structural member repair, upgrade to the bearings, complete painting of all structural steel, roadway approaches, temporary relocation of existing utilities
- A late November 2017 completion date





# S. 10<sup>th</sup> Street Bridge Rehabilitation

- \$20 million
- Carries 10<sup>th</sup> Street from the intersection of 2<sup>nd</sup> Ave and Armstrong Tunnel to near Muriel St on the South Side in City of Pittsburgh
- Deck rehabilitation, approach roadway work, painting, sidewalks, and suspension cable re-socketing
- Late September 2019 completion date



# ► Smithfield Bridge Pedestrian Ramp - Wharf

- \$3.29 million
- Connect Smithfield Street Bridge ramp to Mon Wharf in the City of Pittsburgh
- Replacement of staircase with a switchback pedestrian ramp
- Late November 2017 completion date



# Greenfield Avenue Bridge #39



- \$17.5 million
- Bridge replacement
- Spans the Parkway East connecting the Greenfield neighborhood to the Schenley Park section of City of Pittsburgh
- An early September 2017 completion

## Lower Hill Element Phase IIC

- \$1.76 million
- Located on Centre Avenue near the PPG Arena
- Reconstruction and streetscape improvements
- New traffic signal installation

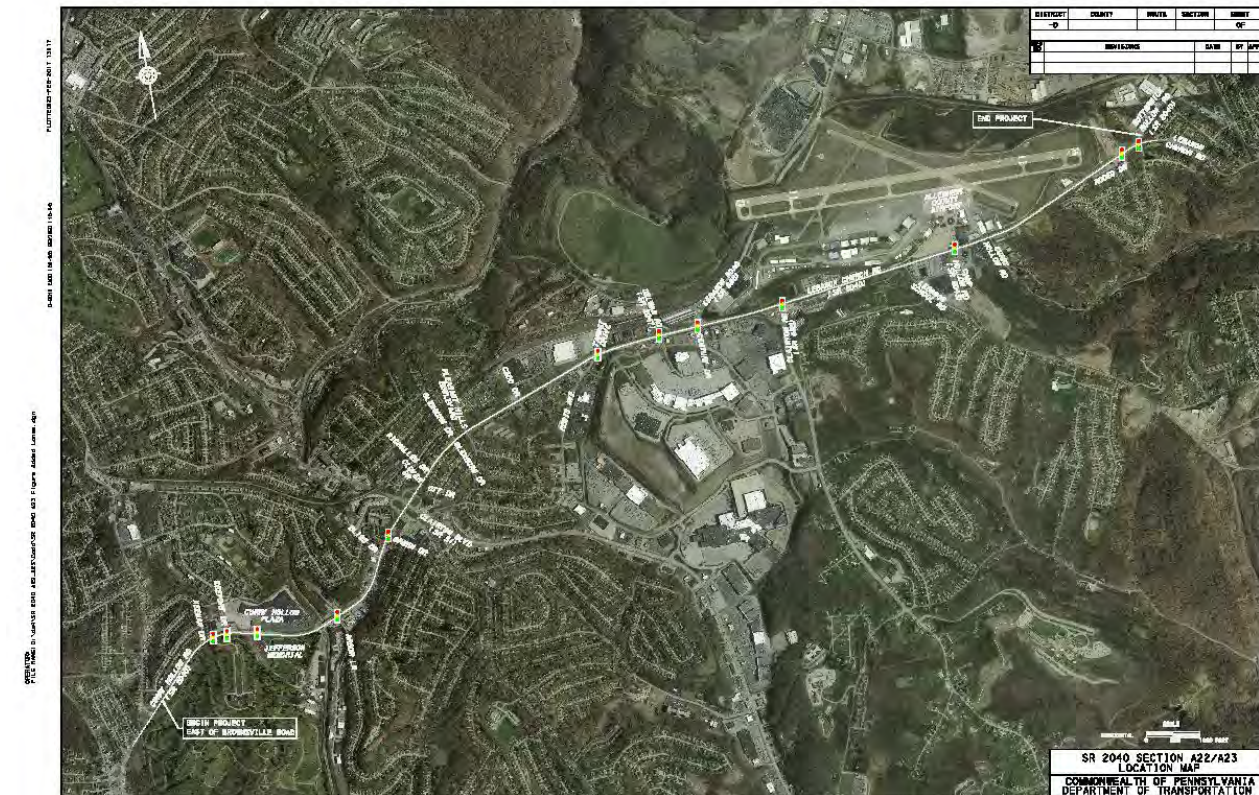


**Cheryl Moon-Sirianni, P.E.**  
**Assistant District Executive**  
412-429-5005



# SR 2040 A22/A23

SR 2040 A22/A23 – Curry Hollow Road/Lebanon Church Rd -  
Brownsville Rd to Buttermilk Hollow



## SR 2040 A22/A23

- Keenan & Keeport – Changing Keenan to Right – In/Right – Out and installing left turn lane at Keeport
- Bliss & Green – Installing left turn lanes at Bliss and Green
- East of Cloverleaf – Converting Clover/Ott/Rich Allen to Right – In/Right – Out and installing left turn lanes at Glenburn and Pleasant Hills. Open Glenburn to full access. Signalization Possible.
- Rodeo – Shifting left turn and signal from East Rodeo to West Rodeo. East Rodeo would become exit only. West Rodeo would be signalized.
- 885 North (Lebanon Road) – Possible right turn lane extension.



# SR 2001 Section A17

McKeesport Road over Fallen Timber Run

Elizabeth Borough, Allegheny County

Construction Anticipated During Summer of 2018



## Scope of Work:

Replacement of Existing Superstructure  
with New Steel Superstructure or a  
Reinforced Concrete Culvert at Grade with  
Minor Approach Roadway Work.



# SR 48-Section A34





# SR 48-Section A34



# SR 0050-A26



Roadway widening at SR 50/Vanadium Road Intersection



# SR 0050



Travelling westbound



# SR 0050



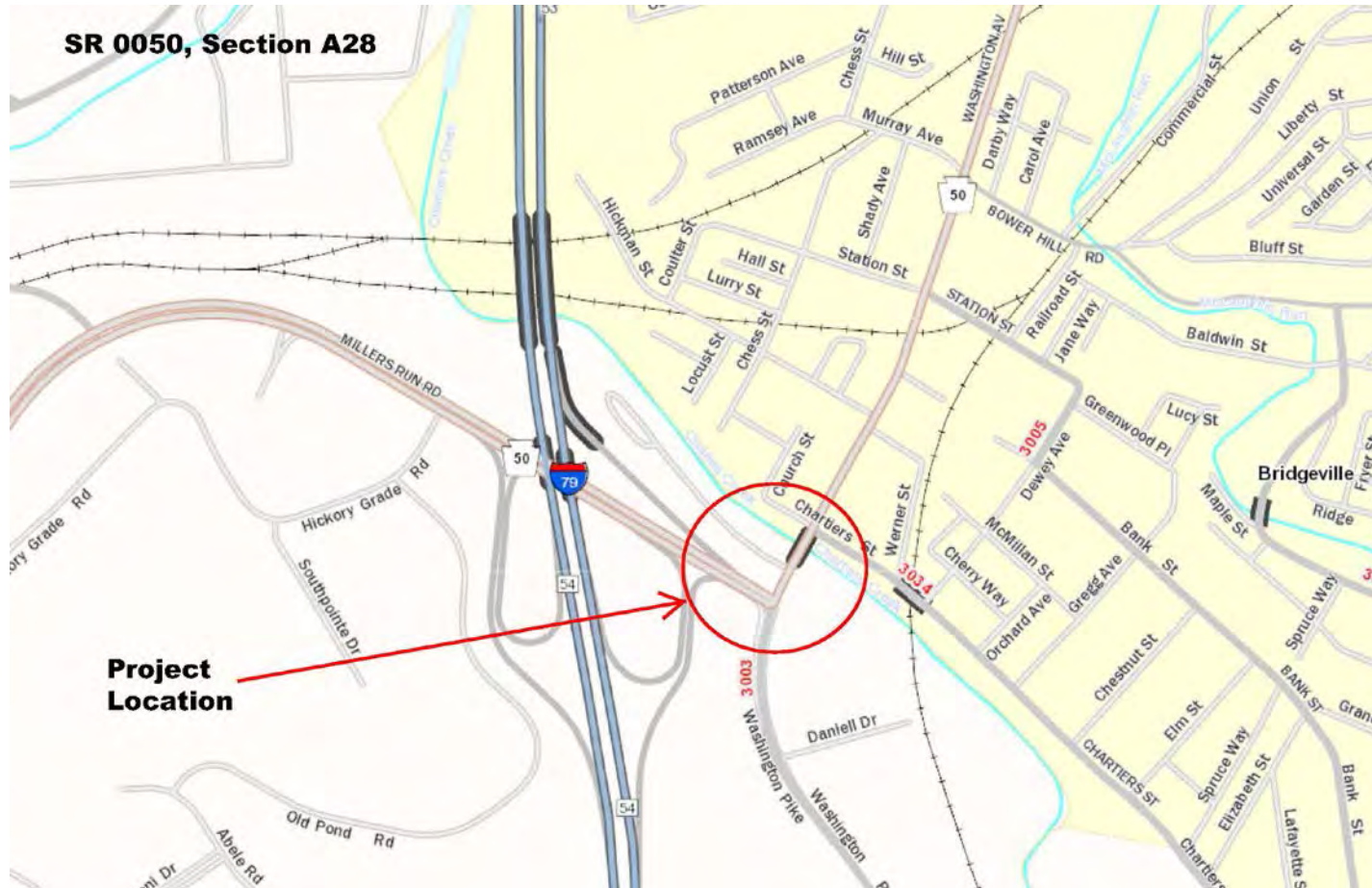
*SR 50 between Vanadium Road and Great Southern Shopping Center*

# SR 0050



*Eastbound SR 50 Queuing at Vanadium Road*

# SR 0050-A28





# SR 0050



Looking eastbound



# SR 0050



Looking westbound

# Bridge views





# Traffic queue



# Chartiers Street Traffic Queue





# Washington Pike/Millers Run Road



SR 3005—A05 Mayview Boyce Road

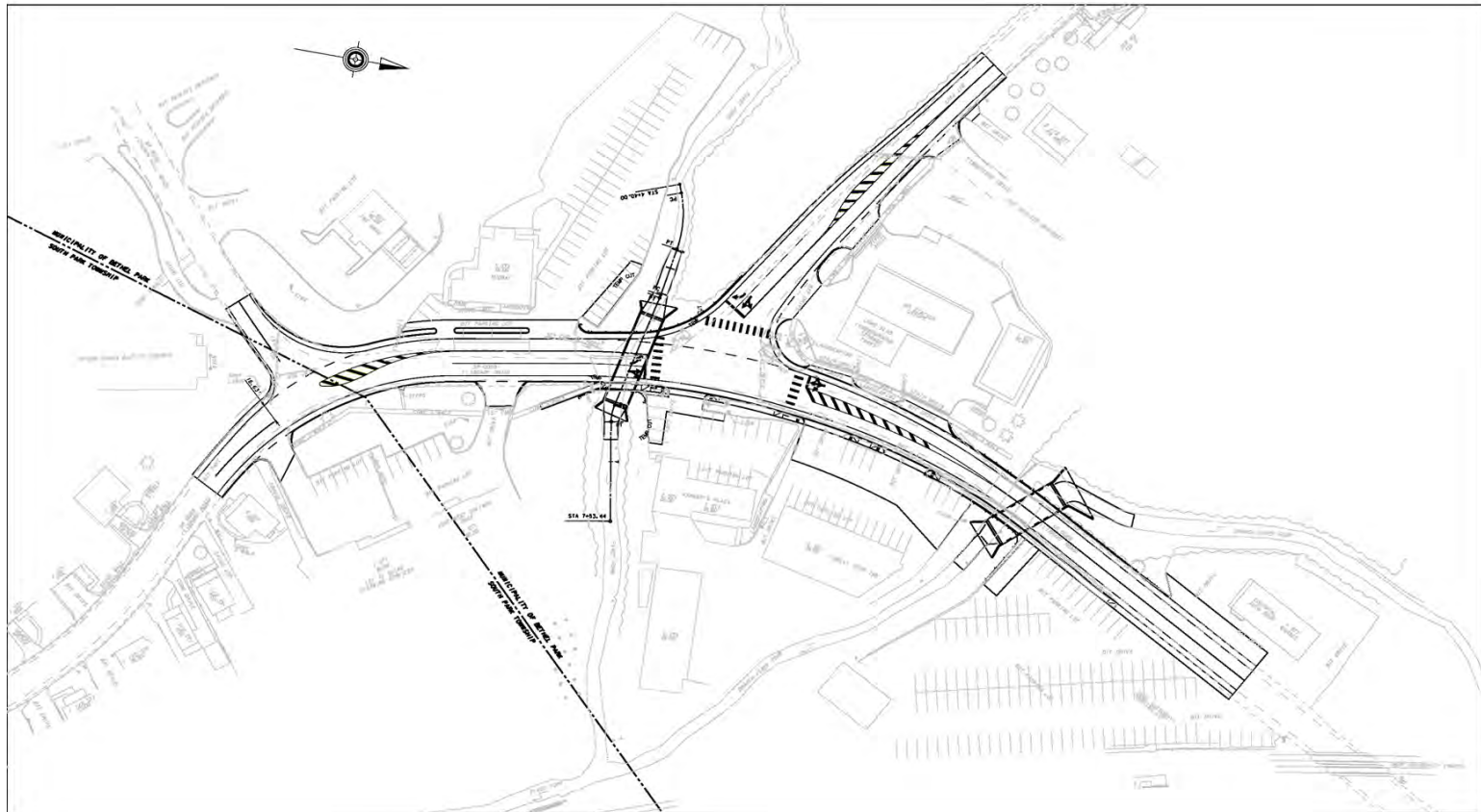




# SR 3005—A05 Mayview Boyce Road



# SR 88-A23 Library Road at Clifton





# SR 88-A23 Library Road at Clifton



# SR 88-A23 Library Road at Clifton

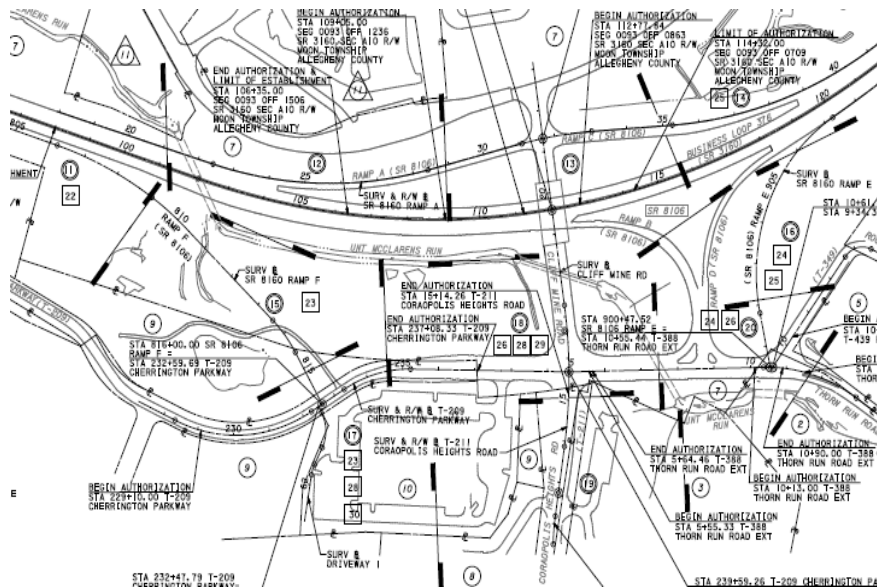




## ➤ SR 8004 A02—Blvd. of the Allies Ramp to Parkway East over Brady



SR 3160 A10 - Thorn Run Interchange





## SR 88 A22 - Library Rd between Logan Rd and Kings School



## SR 48 A28 – Boston Hollow Road Culvert Replacement





# SR 2152-A01 Rodi Road Culvert Replacement



# ➤ SR 3039-A05 Nike Site Road Bridge Rehabilitation





# Kenmawr Bridge Replacement

Local 7463-BRG, Allegheny Co. Kenmawr Bridge Replacement over Norfolk Southern Railroad



## SR 30-A30 -Ardmore Boulevard over Falls Run





## ➤ SR 30-A31 -Ardmore Boulevard over Falls Run Group 3



## SR 30-A32 -Ardmore Boulevard of Falls Run





## SR 837-A46 (Eighth Ave) over Homestead Run



## ➤ SR 3035 A03 – Weyman Road over Saw Mill Run





# SR 3004 – A13

## McLaughlin Run Road (SR 3004) & McMillan/Lesnett Road (SR 3034) Intersection Upper St. Clair, Allegheny County Let date: Summer 2018



# SR 3004-Section A13



**Looking east on Lesnet Road**

**Looking south on  
McLaughlin Run Road**



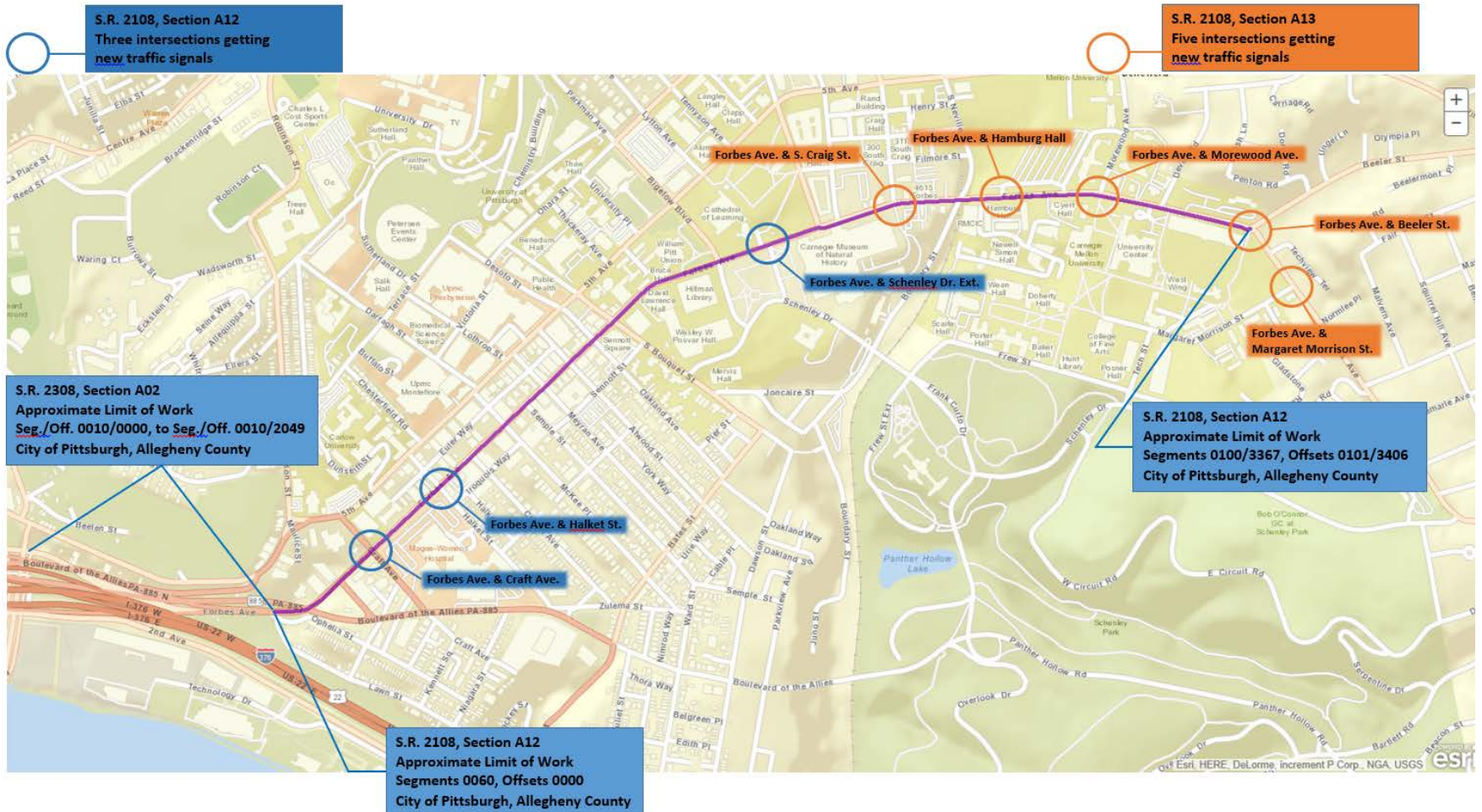


# SR 19-A63 West End Bypass



# SR 2108-A12/A13 Forbes Avenue

## Project Location Map





## SR 2108-A12/A13 Forbes Avenue



Looking West in the Business Section



## SR 2108-A12/A13 Forbes Avenue



Looking East at Pitt Pedestrian Bridge

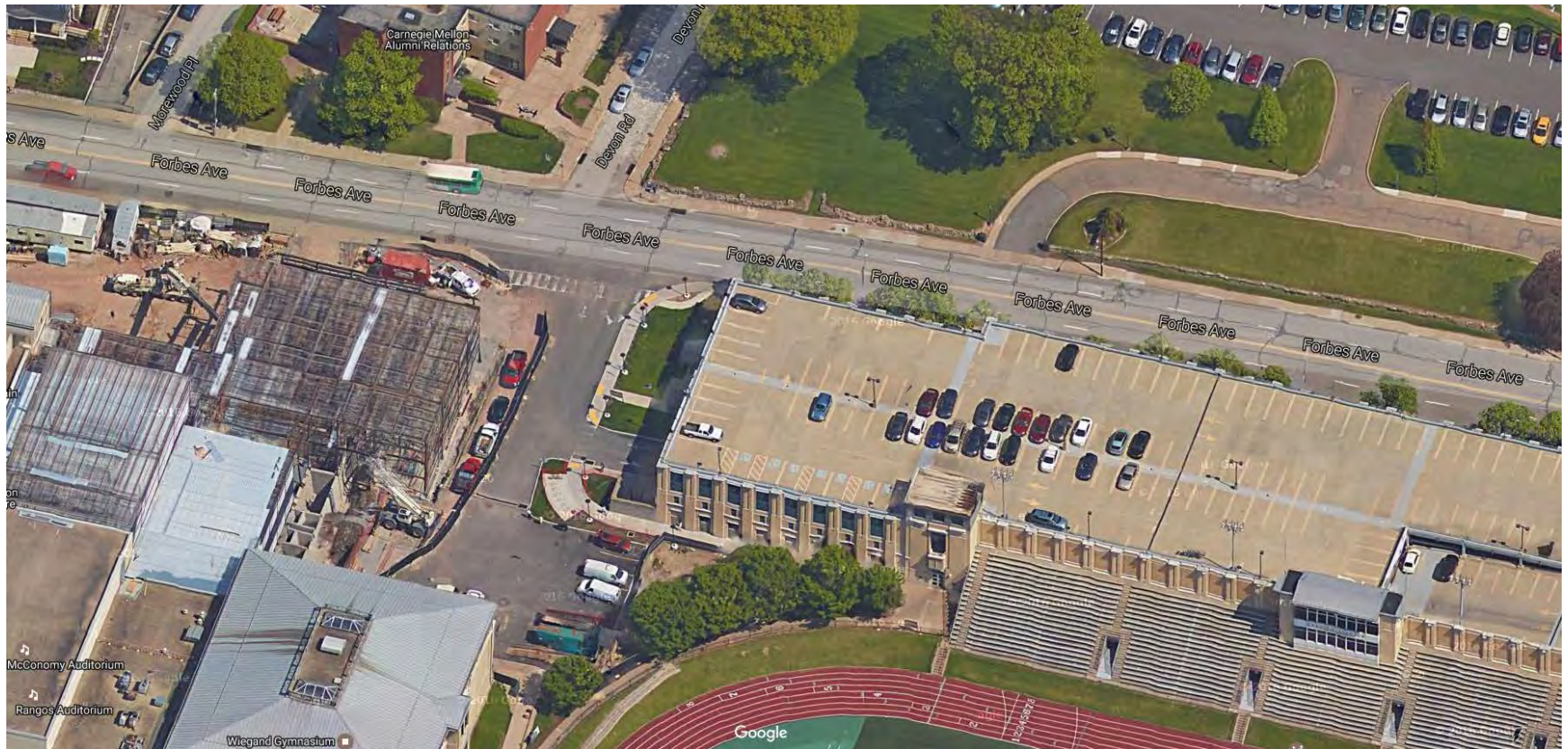
# SR 2108-A12/A13 Forbes Avenue



Overhead View of Forbes Ave. and Bigelow Blvd. Intersection



# SR 2108-A12/A13 Forbes Avenue



Overhead View of Forbes Ave. along CMU Campus



# SR 2108-A12/A13 Forbes Avenue



Looking West near Morewood Ave.

# ➤ SR 8057-A02 Ramp A to McKeesport Bridge

- Estimated cost of \$1 million
- Location: City of Duquesne
- Let date: 12/21/2017
- Deck repairs, substructure repairs, expansion dam replacements
- Construction anticipated to begin in March of 2 temporary

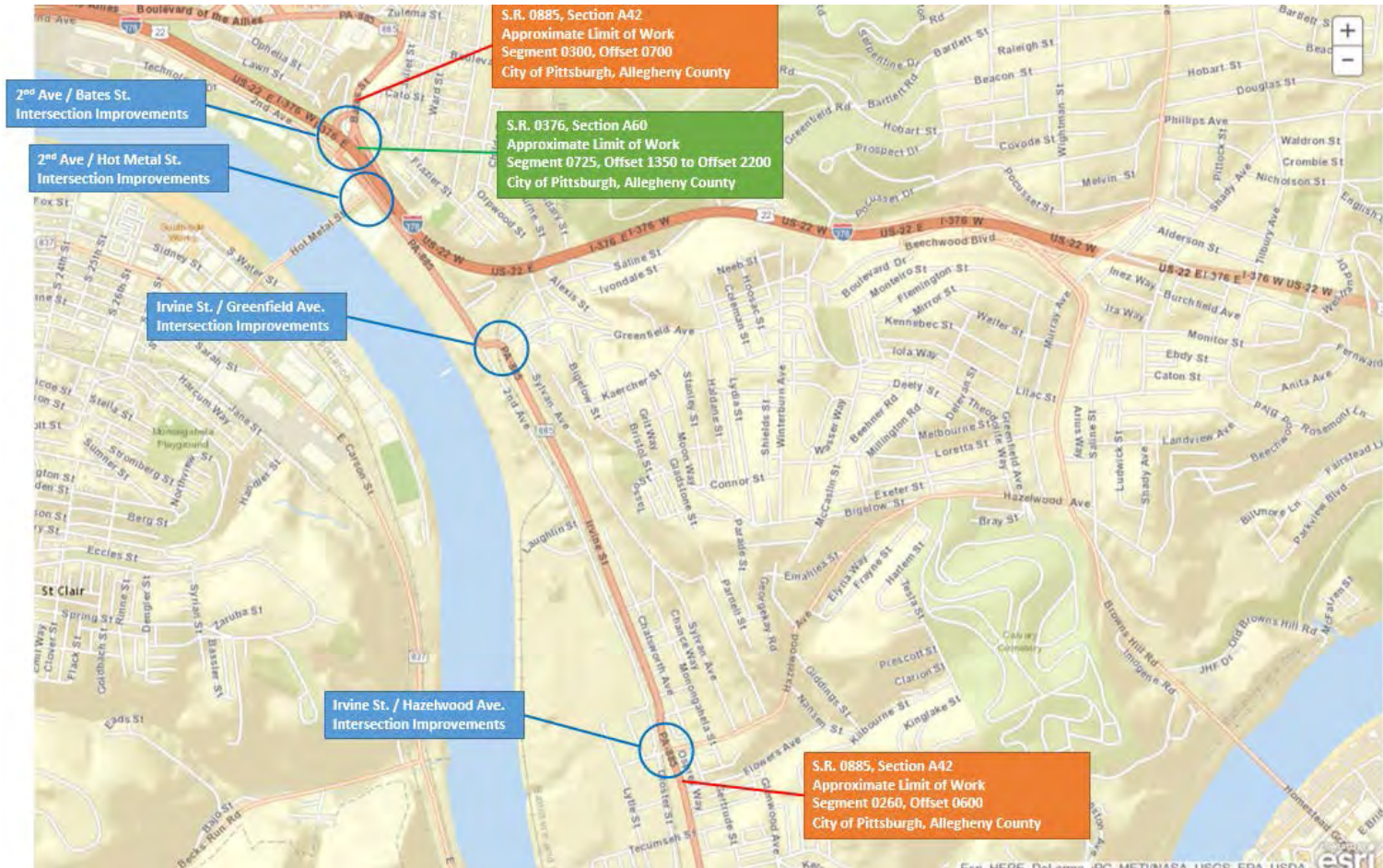


# ALMONO-Project Information

- Phase 1 Roadway Improvements for Almono Development
  - S.R. 376, Section A60
  - S.R. 885, Section A42
- Project located in the City of Pittsburgh
- Scope of work:
  - Upgrades, including turn lanes and signal work, to five intersections near the development site
    - Bates St. and Glennwood off-ramp, 2<sup>nd</sup> Ave. and Bates St., 2<sup>nd</sup> Ave. and Hot Metal St., 2<sup>nd</sup> Ave./Irvine St. and Greenfield Ave., 2<sup>nd</sup> Ave./Irvine St. and Hazelwood Ave.
  - Widening SR 376 bridge over Bates St. to lengthen deceleration lane on Glennwood off-ramp
- Anticipated Let Date: Spring 2018



# ➤ Roadway Improvements – Almono Phase 1



Project Location Map



# ➤ Roadway Improvements – Almono Phase 1



Overhead of I-376 and Bates St. Interchange



# ➤ Roadway Improvements – Almono Phase 1



Looking South on Bates St.



# ➤ Roadway Improvements – Almono Phase 1



Looking at Ramp D from I-376

# ➤ Roadway Improvements – Almono Phase 1



Looking at I-376 Structure to be widened



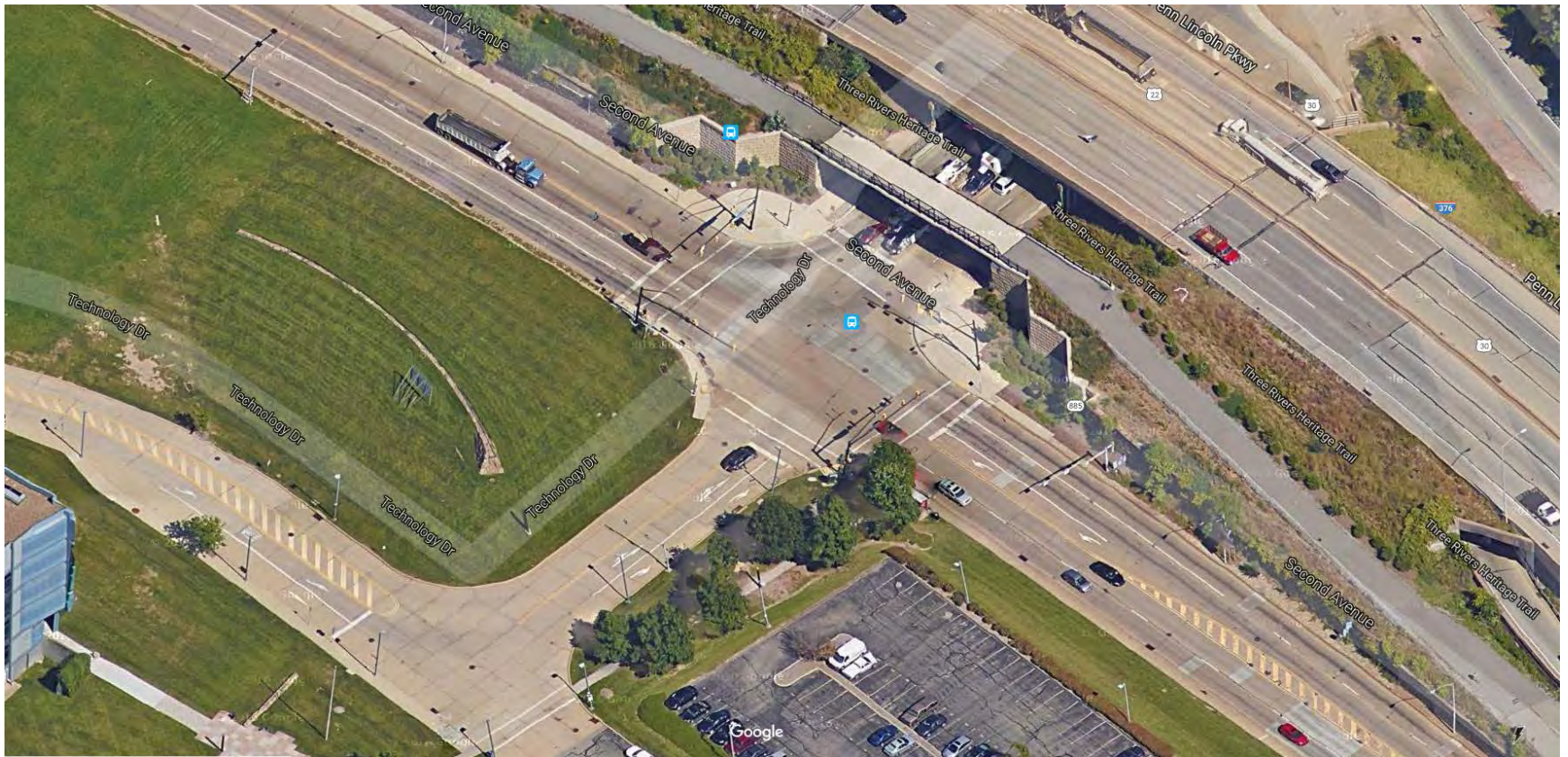
# ➤ Roadway Improvements – Almono Phase 1



Looking East along I376 Structure to be widened



# ➤ Roadway Improvements – Almono Phase 1



Overhead of 2<sup>nd</sup> Ave. and Technology Dr. Intersection

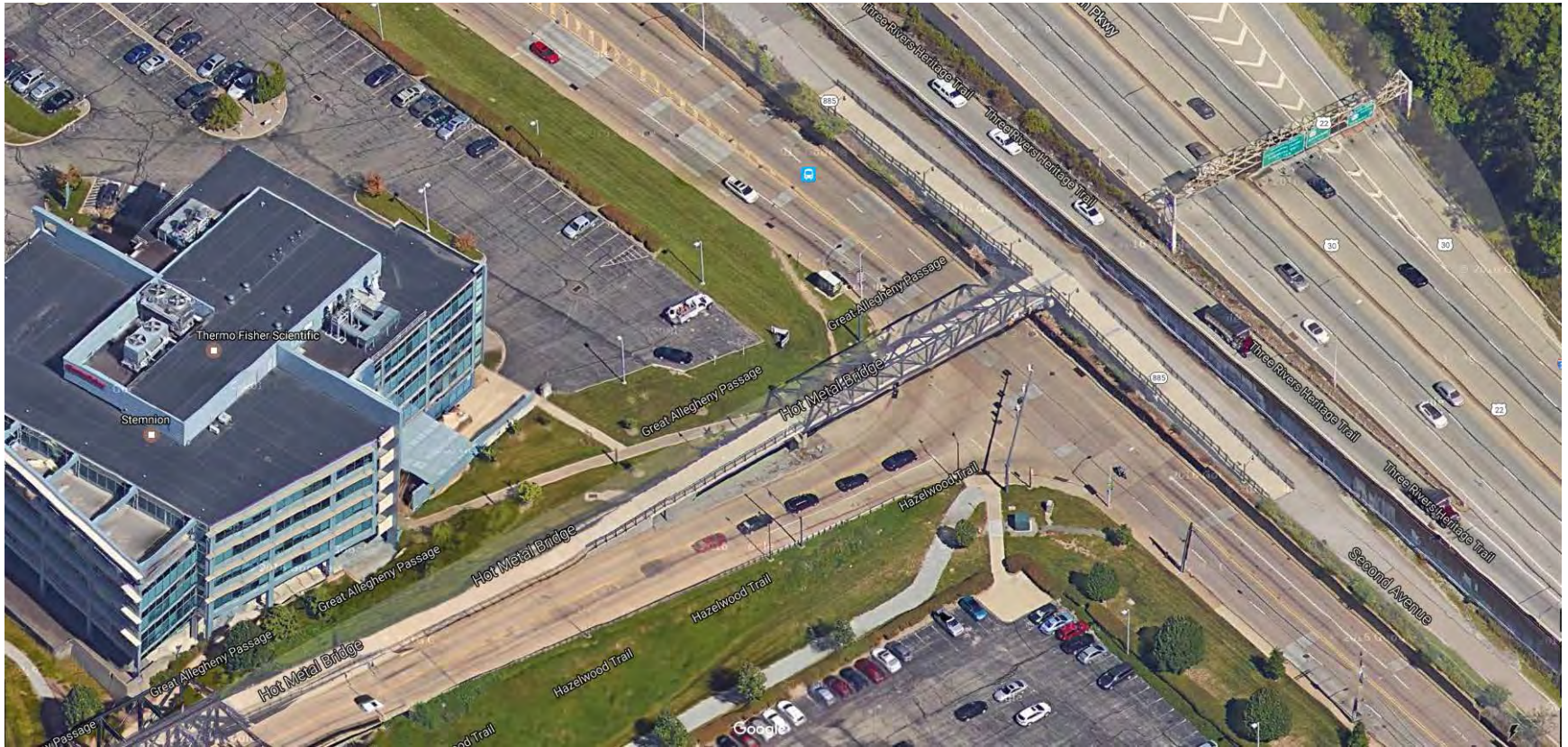
# ➤ Roadway Improvements – Almono Phase 1



Looking South along 2<sup>nd</sup> Ave. at Technology Dr.



# ➤ Roadway Improvements – Almono Phase 1



Overhead of 2<sup>nd</sup> Ave. and Hot Metal Bridge Intersection



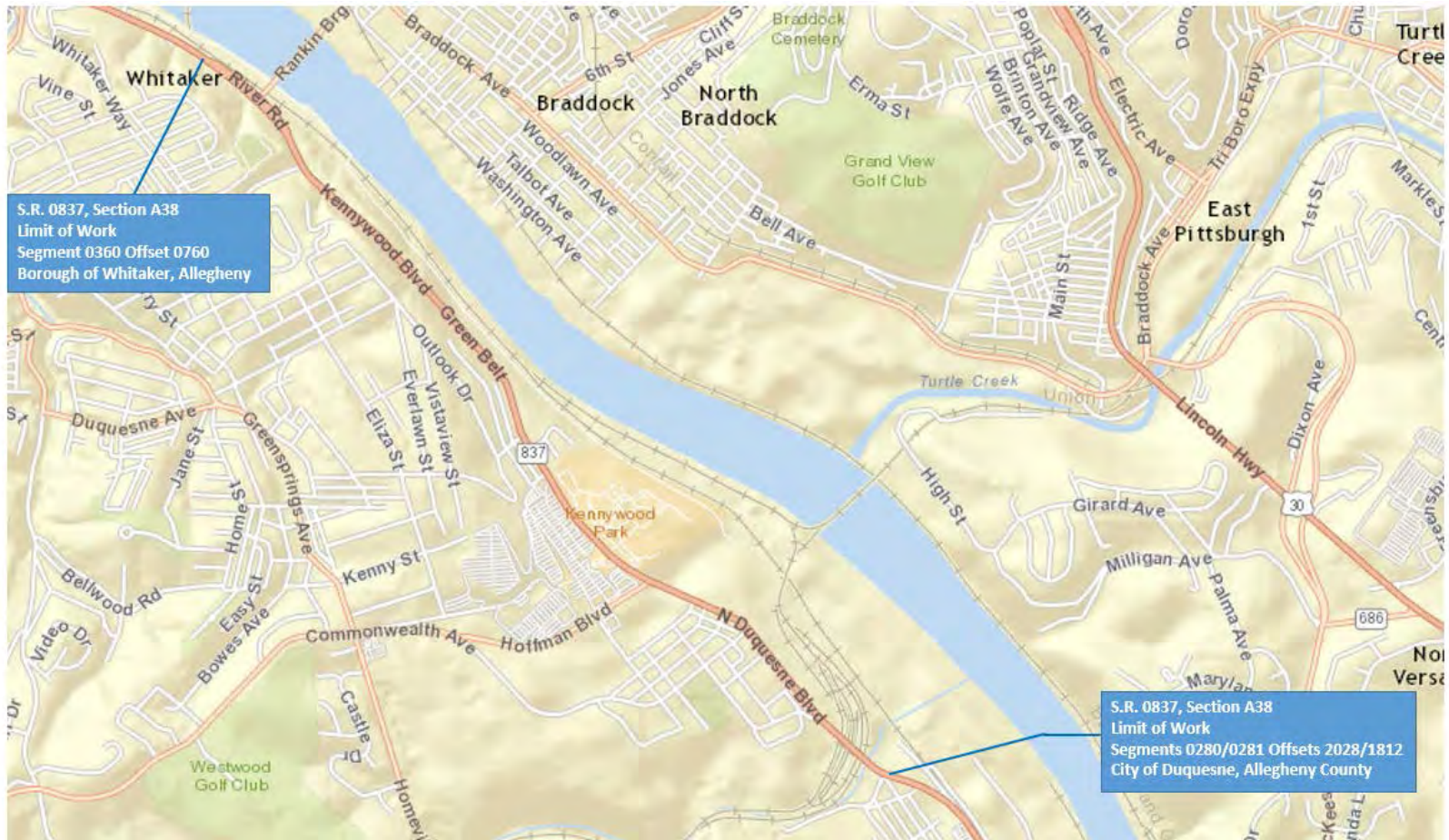
# ➤ Roadway Improvements – Almono Phase 1



Overhead of 2<sup>nd</sup> Ave. and Greenfield Ave. Intersection



# SR 0837-A38



Project Location Map

# SR 0837-A38



Bridge over Union Railroad – Looking North

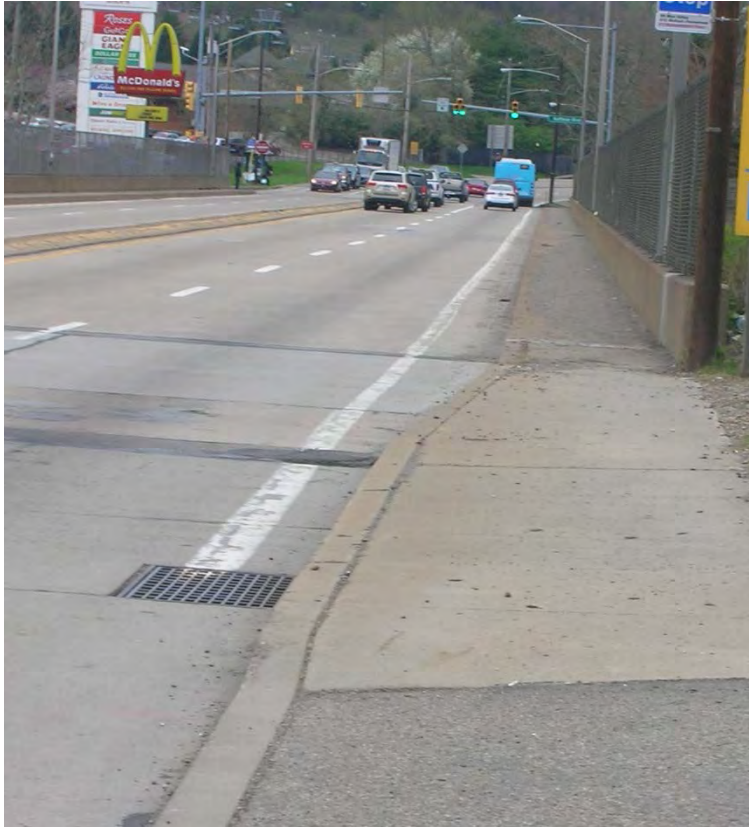


# SR 0837-A38



Looking North

# SR 0837-A38



Bridge over Kennywood Property



SR 0837-A38



Looking North near Kennywood Park



# SR 0837-A38

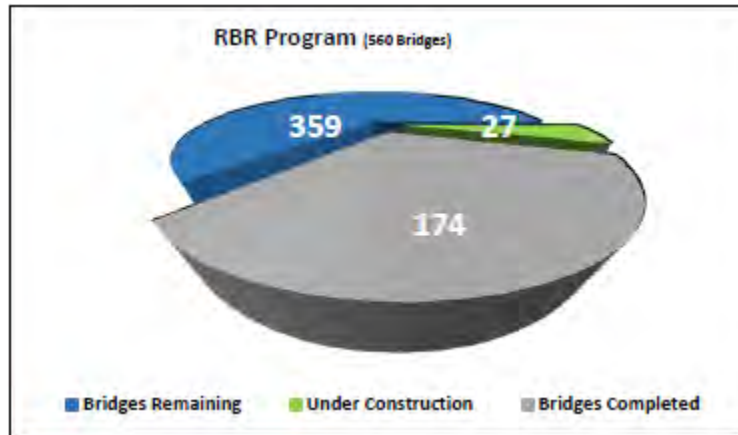


Looking North approaching Rankin Bridge

# Group Paving Projects

- SR 50 – Noblestown Road – Pittsburgh
- SR 60 – Main Street/Crafton Boulevard – Pittsburgh/ Crafton
- SR 121 – Poplar Street – Green Tree Borough
- SR 3062 – Mansfield Avenue – Green Tree Borough
- SR 3063 – Oakdale Road – North Fayette Township
- SR 3066 – Steubenville Pike – North Fayette Township
- SR 978 – Clinton Avenue/Oakdale Road – Oakdale/North Fayette
- SR 3048 – Noblestown Road – North Fayette Twp
- SR 4011 – Rochester Road – Ross, McCandless, Franklin Park
- SR 4021 – Camp Horne – Lowries Run – Ohio/Ross
- SR 4067 – Wildwood Sample./E&W Hardies - Hampton

# Rapid Bridge Replacement Project



## District 11 Bridges:

- 8 in 2015
- 23 in 2016
- 45 in 2017
- 9 in 2018
- **85 total bridges**



# Rapid Bridge Replacement Project (P3)

SR 3021, WALTON RD	3/20/2017	5/5/2017
SR 2017, INDUSTRY RD	3/27/2017	4/21/2017
SR 2075, NEW TEXAS RD	4/3/2017	5/15/2017
SR 2001, MONONGAHELA RD	4/10/2017	5/22/2017
SR 3098, GLASS RUN RD	5/1/2017	6/1/2017
SR 2010, LOVEDALE ROAD	5/8/2017	6/14/2017
SR 2017, BUENA VISTA RD	5/8/2017	6/20/2017
SR 3098, GLASS RUN RD	6/2/2017	7/1/2017
SR 136, MONONGAHELA RD	6/5/2017	7/1/2017
SR 2046, STREETS RUN RD	6/6/2017	7/9/2017

# Rapid Bridge Replacement Project (P3)

SR 3008, MORROW RD	7/1/2017	8/8/2017
SR 3048, NOBLESTOWN RD	7/1/2017	8/4/2017
SR 3108, NORTH BRANCH R	7/5/2017	8/3/2017
SR 2046, STREETS RUN RD	8/1/2017	10/3/2017
SR 30, ARDMORE BL	9/11/2017	11/1/2017
SR 0051	3/1/2018	8/7/2018
SR 2075, LOGAN FERRY RD	4/1/2018	5/16/2018
SR 2022, STEWARTSVILLE H	6/1/2018	7/14/2018
SR 3014, PINEY FORK RD.	6/1/2018	6/1/2018
SR 2045, MCKEESPORT BL	7/2/2018	1/3/2019

# What are Liquid Fuels?

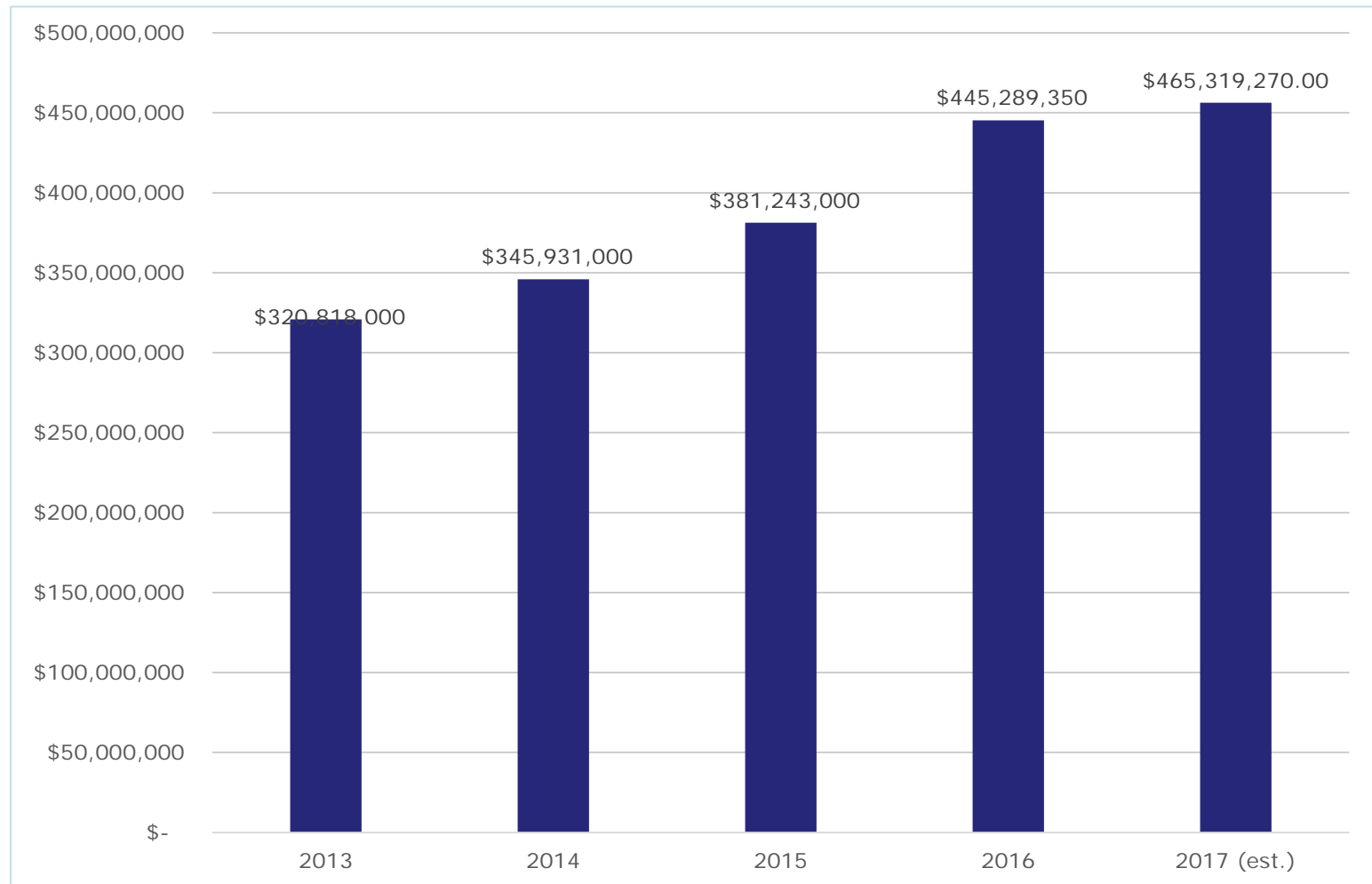
- The Commonwealth provides dedicated funding to Local Governments for eligible expenditures that results in improvement to the local roadways and bridges that they are legally responsible to maintain.
- Municipal funding is dedicated through a portion of the Oil Franchise Tax collected, and is based on 50% population and 50% municipal roadway mileage.
- County funding is dedicated through 4.17% of a millage rate as set by Act 89 of 2013.



## Funding and Partnership

- District 11-0 has 208 Municipalities and 3 Counties which are responsible for approximately 6,000 miles of local roadways and 560 local bridges.
- Payment for Municipalities is once a year, on or about April 1. Over \$46,000,000.00 in 2017.
- Payment for Counties is twice per year. June and December. Over \$2,400,000.00 Est. for 2017.

Since 2013 Municipal Liquid Fuels have increased **45%**



## Stay Compliant – Remain Certified!

- It is extremely important that the County and local governments handle this funding source properly as they are subject to audit by the Department of the Auditor General.
- The District's Municipal Services Unit can provide local officials with the information necessary for the proper administration of their Liquid Fuels Tax Funding. If you have a question...just ask!



## Assistance in the areas of:

- Road Inventory – Certification for Payment
- Project Delivery – Technical Assistance
- Project Approvals
- County Aid Projects
- Approved Materials
- Additional Mileage
- Eligible Expenditures of Funding
- Point of Contact for PENNDOT Questions - Programs
- Resolution of Audit Issues
- Interpretation of Codes, Standards, and Specifications
- Troubleshooting State/Local Roadway Issues
- Mediation and Problem-solving

# Warm Mix Asphalt (WMA)



# Warm Mix Asphalt (WMA)

## Benefits of Warm Mix Asphalt

- Improves asphalt mix compaction density
- Improves consistency of asphalt coating and reduces the concern for stripping
- Extends the paving season
- Allows asphalt mix to be hauled longer distances
- Improves working conditions by reducing exposure to fuel emissions, fumes, and odors



# Municipal Services Unit Contacts

- Dan Woodall – Supervisor  
Phone: 412-429-4809
- Barry DeAngelis – Specialist  
Phone: 412-429-4813
- Jon Johnson – Specialist  
Phone: 412-429-4812

# Press Office Contacts

- **Steve Cowan – Press Officer**

Phone: 412-429-5010

- **Yasmeen Manyisha – Safety Press Officer**

Phone: 412-429-5044

- **Joel Morris – Community Relations Coordinator**

Phone: 412-429-5011

# *Questions?*

