



State Route 28 Highland Park Interchange Reconstruction Project

S.R. 0028, Section A56, Allegheny County, PA

Boroughs of Sharpsburg, Aspinwall, and Fox Chapel
O'Hara Township, City of Pittsburgh

Updated Project Information March 19, 2020



▶ Project Team

PennDOT

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➤ Overview of the Updated Project Information

- Purpose of the Updated Project Information
- Project Development Process
- Project Purpose & Need
- Project Overview
- Improvements to SR 28 On-Ramp from Virginia Avenue Extension
- Proposed Sound Barriers
- Anticipated Traffic Control
- Project Timeline
- Other Project Coordination
- PennDOT Website Navigation

► Purpose of the Updated Project Information

- Present Final Project Details
- Describe Anticipated Traffic Control During Construction
- Communicate Anticipated Construction Schedule
- Answer Questions

▶ Project Development Process

- Alternatives Analysis (2015 - 2016)
- Preliminary Engineering / Environmental Studies (2016 - 2018)
- Public Meeting #1 – December 12, 2017
- Final Design / Bid Package Development (2018 - 2020)
- Sound Barrier Public Meeting – February 12, 2019
- **Updated Project Information – March 19, 2020**
- Construction (To Begin Late Summer 2020)

► Project Purpose

To address the identified deficiencies related to the State Route 28 bottleneck, congested traffic conditions, and other operational issues of the interchange.

Project Needs

Congestion / Traffic Operations that impede mobility

- Congestion within the project limits is undesirable today and further degrades in Design Year (2040)

Facility Deficiencies / Lack of Continuity impede the movement of goods & services

- The two-lane section of SR 28 within the interchange lacks continuity with four-lane sections to the north and south of the interchange
- Vertical clearance through the interchange is substandard

Safety

- Crash incident frequency for the SR 28 / SR 1005 Highland Park Interchange exceeds the Statewide average in several locations

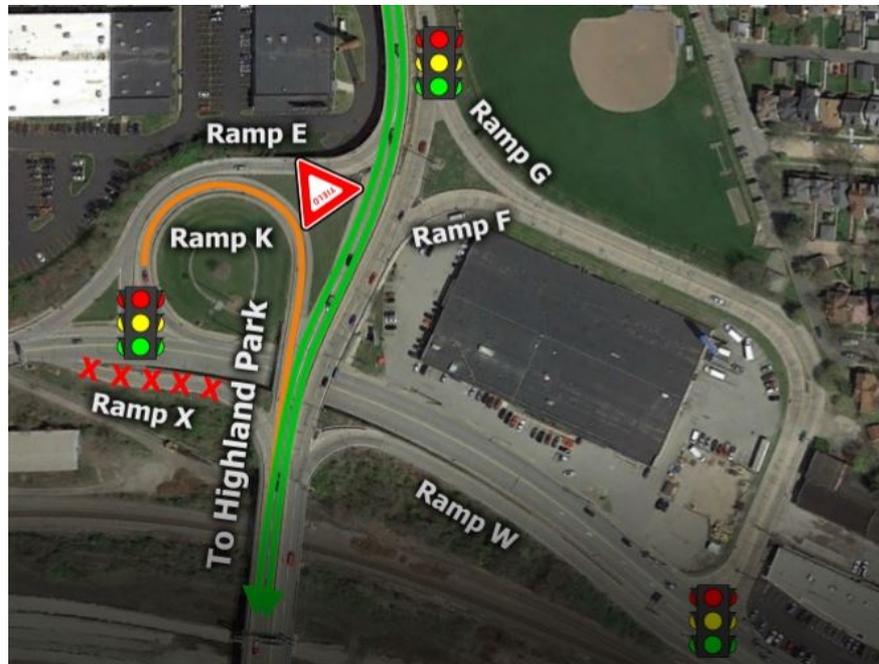
Project Overview

- A primary purpose of the project is to relieve the single-lane bottleneck currently on SR 28. Two through lanes will be re-established on SR 28 through the interchange.
- The SR 28 on-ramp from Virginia Avenue Extension will remain, further details will be provided.
- The Highland Park Bridge to northbound SR 28 ramp creates a third auxiliary lane to Delafield Ave off-ramp.



Project Overview

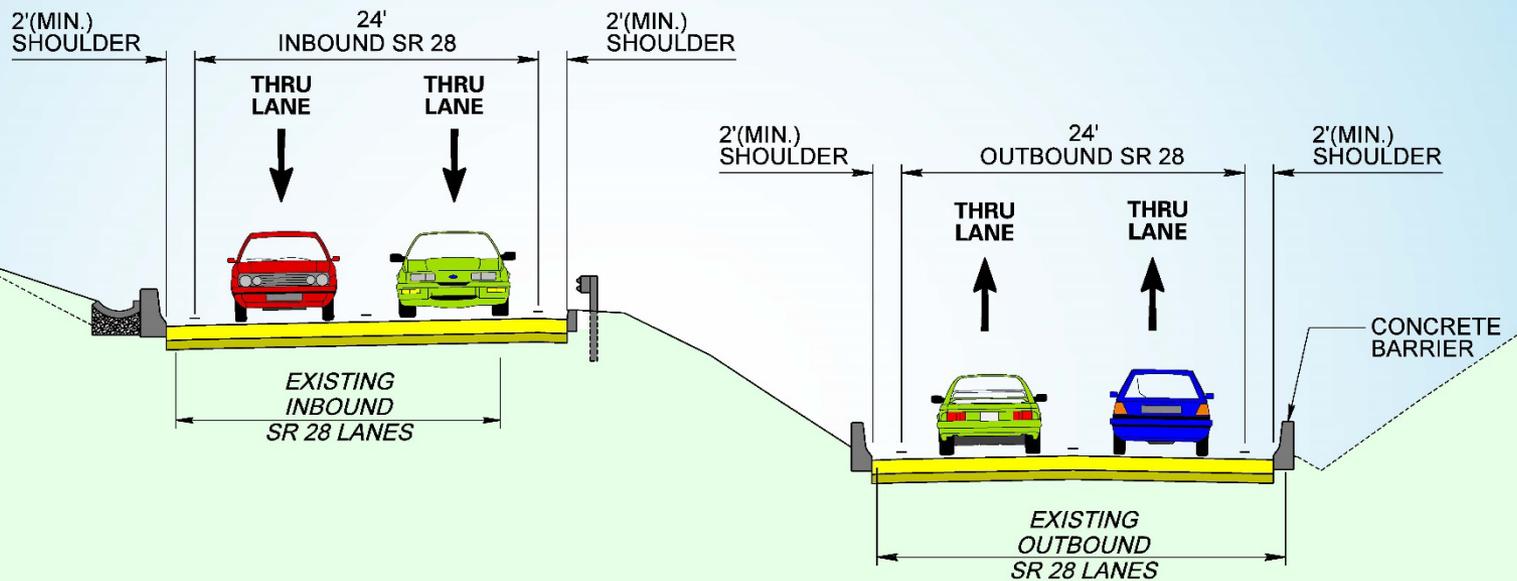
- Sound Barriers will be constructed as part of the project based on votes received from benefited owners and renters, further details will be provided.
- Project is independent of the Riverfront 47 Development and separate from the Highland Park Bridge river crossing.
- Operational modifications will be made to the ramps within the interchange, including three new traffic signals.



Project Overview

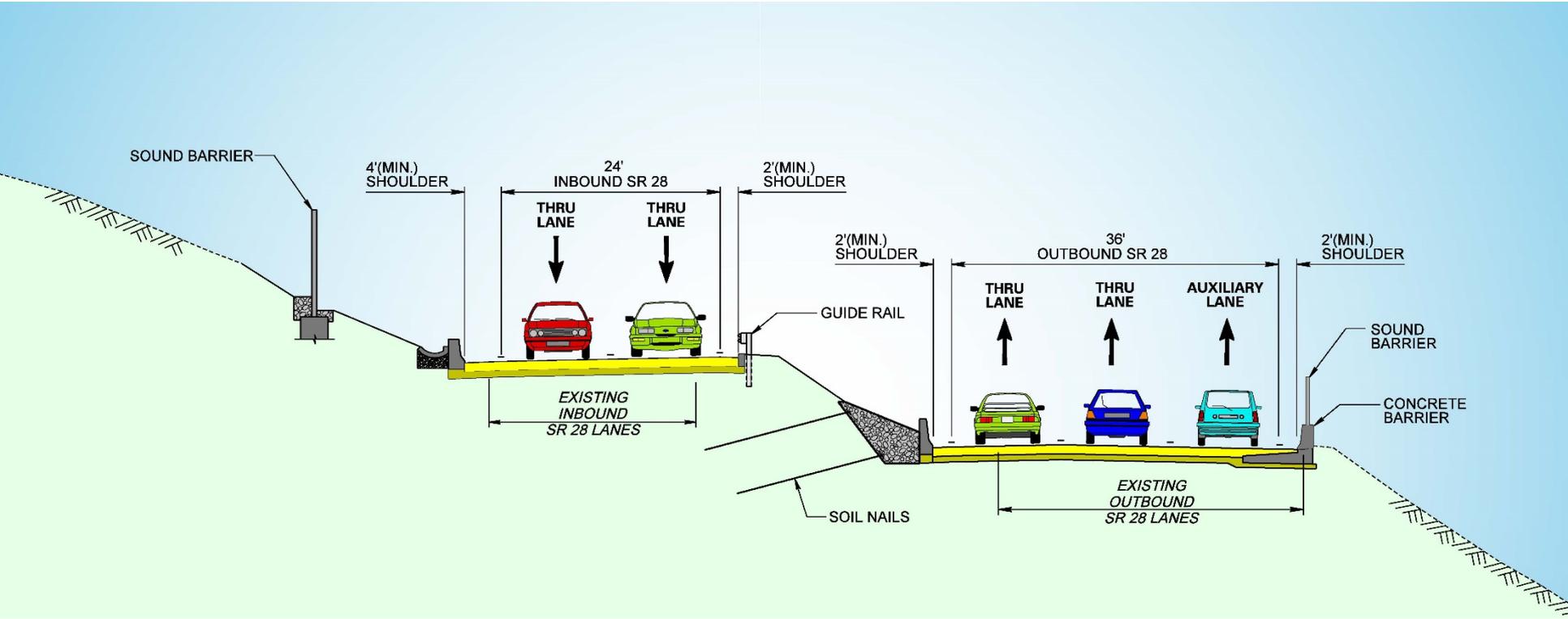
- Bridge Preservations - 10
- Widened Bridges - 4
- Wall Preservations - 7
- Sound Barriers – 7
- Sign Structure Preservations - 8
- New Sign Structures - 5
- Culvert Preservations - 1
- New Traffic Signals – Intersection of SR 1005 and Ramp G; Intersection of Freeport Road and Ramps F/G/W; Intersection of Freeport Road and Ramps E/K
- New / Upgraded Highway Lighting (LED)
- Alternate Concrete Pavement Bid Item

Project Overview



SR 28 Typical Section (West of the Interchange)

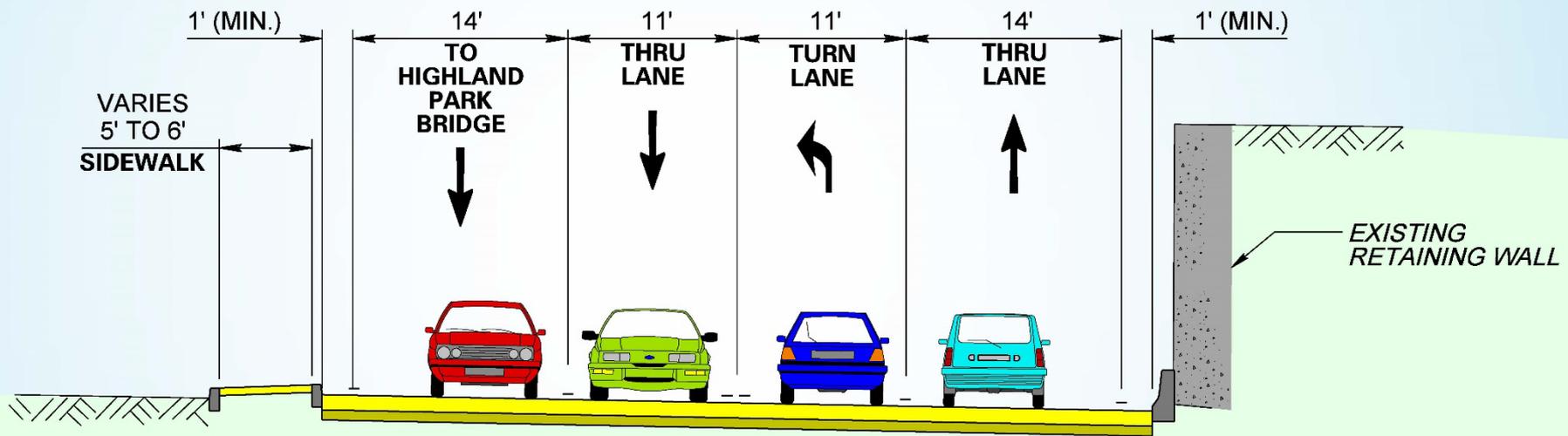
Project Overview



SR 28 Typical Section (East of the Interchange)

Project Overview

Looking Toward Aspinwall



Freeport Road (SR 1001) Typical Section

▶ Project Overview - Highlights

- **Project avoids the following resources:**
 - Residential and commercial displacements
 - Historic districts (Sauer Building & Aspinwall Historic Districts)
 - Highland Park Bridge river crossing
- **There are minimal temporary and permanent right-of-way acquisitions**
 - Temporary Construction Easements required for Camp Guyasuta and Aspinwall Recreational Park properties
- **Project addresses sound impacted areas**

Improvements to SR 28 On-Ramp from Virginia Avenue Ext.



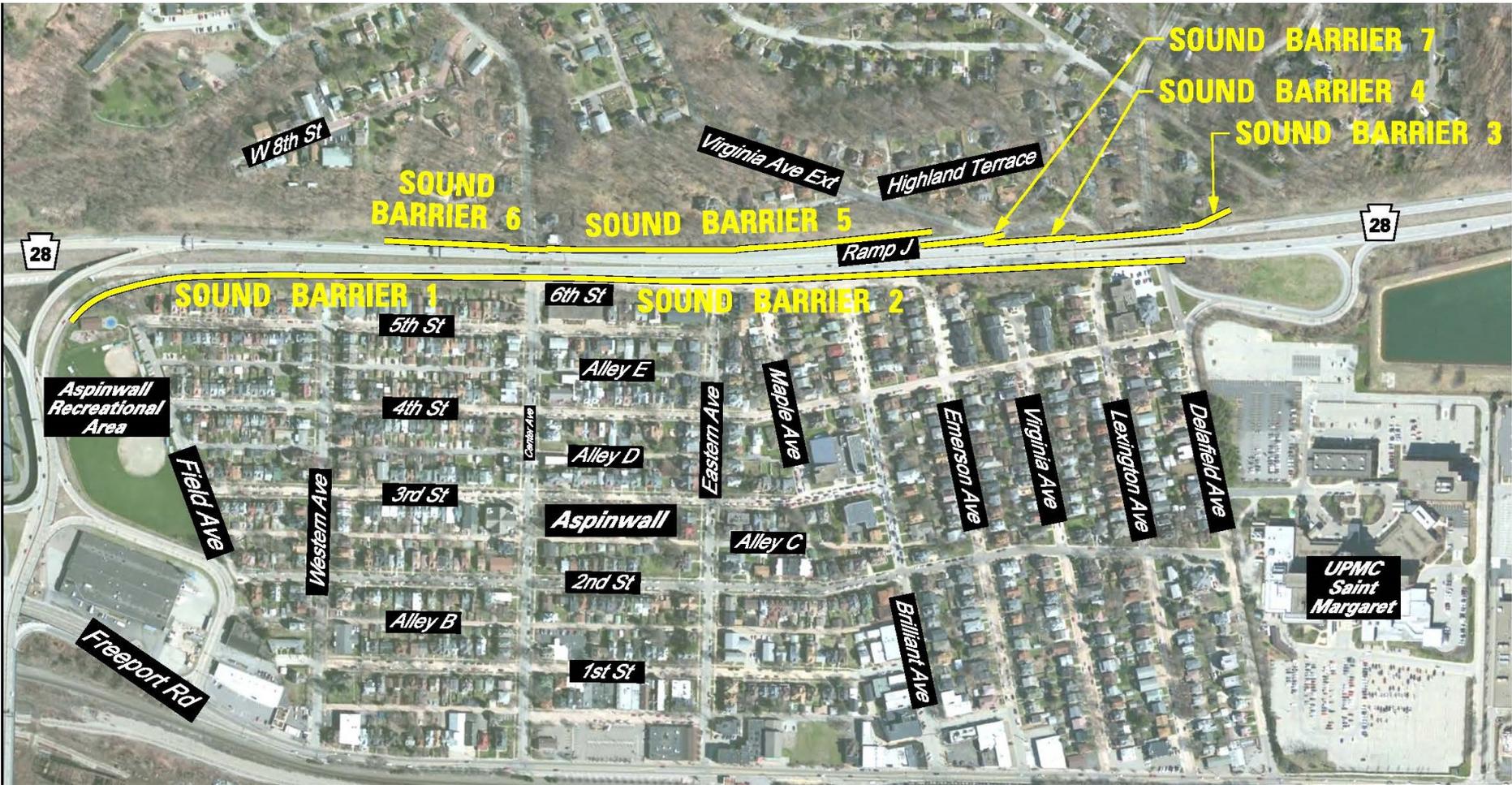
- Goal is to deter traffic from the SR 28 on-ramp (Ramp J) from Virginia Avenue Extension from accessing the Highland Park Bridge
- Double White Line striping (similar to line striping in tunnels) will be installed from the beginning of the SR 28 on-ramp gore area to beyond the exit ramp to the Highland Park Bridge to prohibit lane changing

Improvements to SR 28 On-Ramp from Virginia Avenue Ext.



- “Stay In Lane” signs will be installed within the limits of the double white lines

▶ Proposed Sound Barriers



Proposed Sound Barrier Locations

▶ Proposed Sound Barriers

- Based on the sound barrier voting process, all sound barriers originally anticipated were added to the project
- O'Hara Residential Side – Sound Barriers 3, 4, 5, 6, and 7



Ashlar Stone
Desert Tan
AMS-STD 33446



- Aspinwall Residential Side – Sound Barriers 1 and 2



Ashlar Stone
Neutral Gray
AMS-STD 36173



▶ Proposed Sound Barriers

Highway Side – Sound Barriers 1, 2, 3, 4, 5, 6, and 7



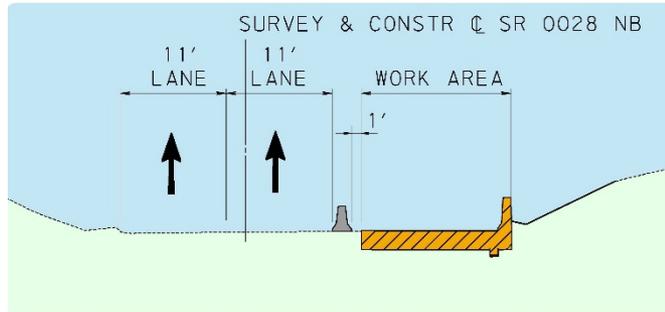
- The highway side of the sound barriers will consist of a blend of colors such as brown, beige, red, and gray, similar to what was constructed on southbound SR 28 near the 31st Street Bridge, and several panels will be left blank on Sound Barrier #1 and Sound Barrier #3 in order to install art murals.

▶ Anticipated Traffic Control

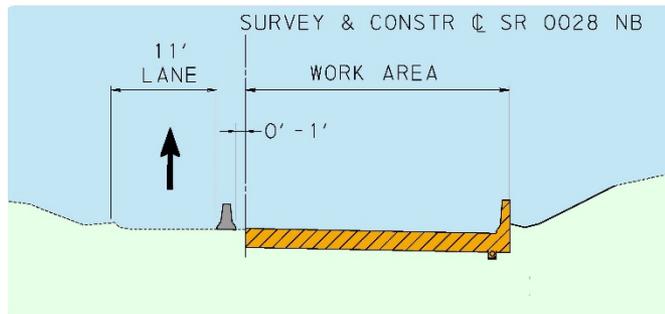
- Construction phasing will be bid as design / build, so contractor has the option to modify, if approval is obtained
- S.R. 0028 traffic generally to be maintained similar to existing travel patterns
- Ramps to be detoured in a phased approach including:
 - Ramps to/from Highland Park Bridge
 - Ramps to/from Freeport Road / Main Street
 - Duration of ramp closures range from 3 to 17 weeks
- Detours will utilize Etna, Delafield, Aspinwall, and Fox Chapel Interchanges
- Some of the detours will utilize local streets
- Night work will be required

Anticipated Traffic Control

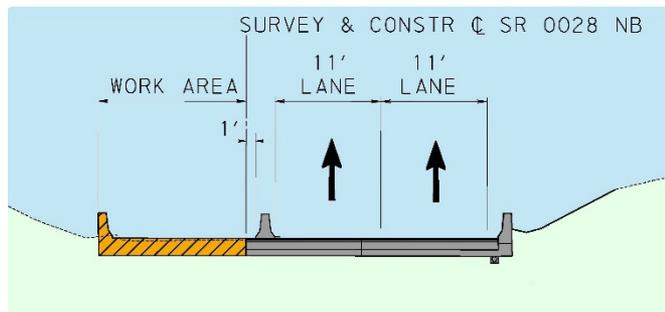
S.R. 0028 Northbound Phasing



- Traffic is maintained in two lanes on existing pavement, while widening is constructed to the right.



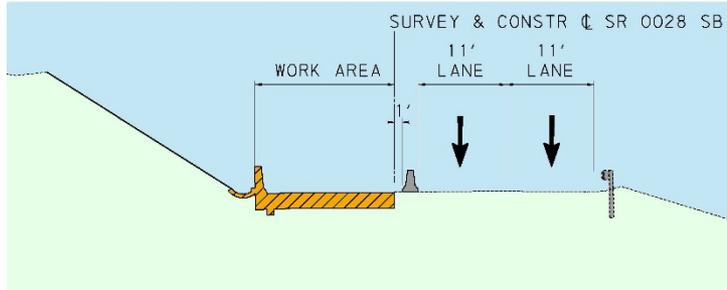
- Traffic is maintained in one lane on existing pavement with the ramp to the Highland Park Bridge closed to facilitate additional construction to the right.



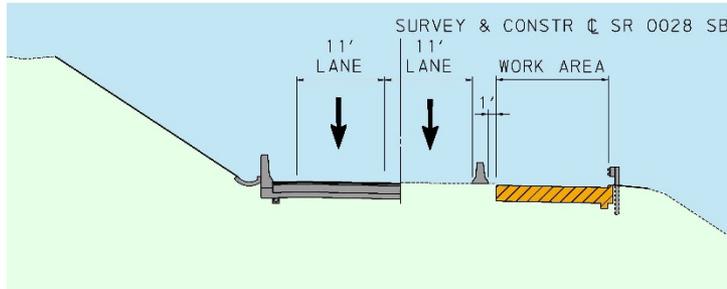
- Traffic is maintained on the new pavement, while the existing pavement on the left side is reconstructed.

Anticipated Traffic Control

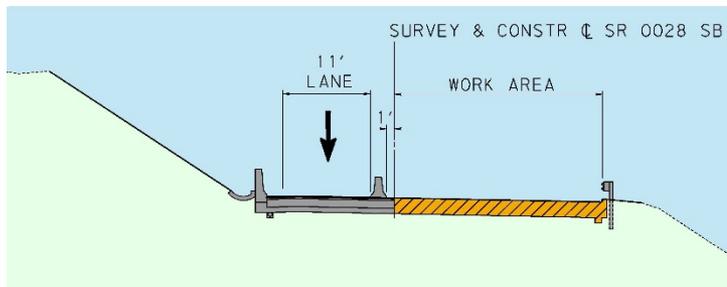
S.R. 0028 Southbound Phasing



- Traffic is maintained in two lanes on existing pavement, while widening is constructed to the left.



- Traffic is maintained in two lanes on the new pavement and existing pavement, while the existing pavement on the right side is reconstructed.



- Traffic is maintained in one lane on the new pavement with the ramp from the Highland Park bridge closed to facilitate additional construction to the right.

Project Timeline

Design Schedule / Anticipated Construction Schedule:

PROJECT DEVELOPMENT PROCESS	2016				2017				2018				2019				2020				2021				2022			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
PRELIMINARY DESIGN / ENVIRONMENTAL STUDIES	[Orange bar]																											
• Public Meeting #1								[Light Orange bar]																				
FINAL DESIGN / BID PACKAGE DEVELOPMENT																												
• Finalization of Sound Barriers																												
• Sound Barrier Meeting																												
• Updated Project Information																												
CONSTRUCTION																												

Anticipated Construction Cost: Approx. \$55 Million

Other Project Coordination

Anticipated Construction Schedules:

PROJECT DEVELOPMENT PROCESS	2020				2021				2022				2023				2024				2025				2026				2027			
	Q1	Q2	Q3	Q4																												
S.R. 0028-A56: Interchange Reconstruction Sharpsburg to Aspinwall				■	■	■	■	■	■	■	■	■																				
S.R. 0028-A58: Resurfacing Project Delafield Avenue to Harmar						■	■	■																								
S.R. 0028-A59/A60: Resurfacing Project / Slide Millvale to Highland Park Interchange	■	■	■	■																												
S.R. 0028-A62: Resurfacing Project Harmar to Creighton Interchange						■	■	■																								
S.R. 1001-A60: Ravine Street DSI Removal Sharpsburg			■	■	■	■	■																									
S.R. 1005-A06: Highland Park Bridge Preservation Highland Park Bridge																												■	■	■	■	

The above project schedules are subject to change based on operational ability and capacity.

▶ PennDOT Website Navigation

www.penndot.gov

- Click on “Regional Offices” in the white bar at the upper right portion of the screen
- Go to the map and click on 
- Under “District Links” click on “Public Meetings”
- Pick the “Allegheny County” box
- Choose:
“Highland Park Interchange Project”

▶ Video Rendering – Project Comments

- **Now please close out of this file and return to the project webpage to view the video rendering of the proposed project improvements.**
- **Comments may be submitted through the comment link on the project webpage.**