



Lehigh Valley Planning Commission



Lehigh Valley Transportation Study

# TRANSPORTATION IMPROVEMENT PROGRAM 2017-2020

# L V T S

Lehigh Valley Transportation Study



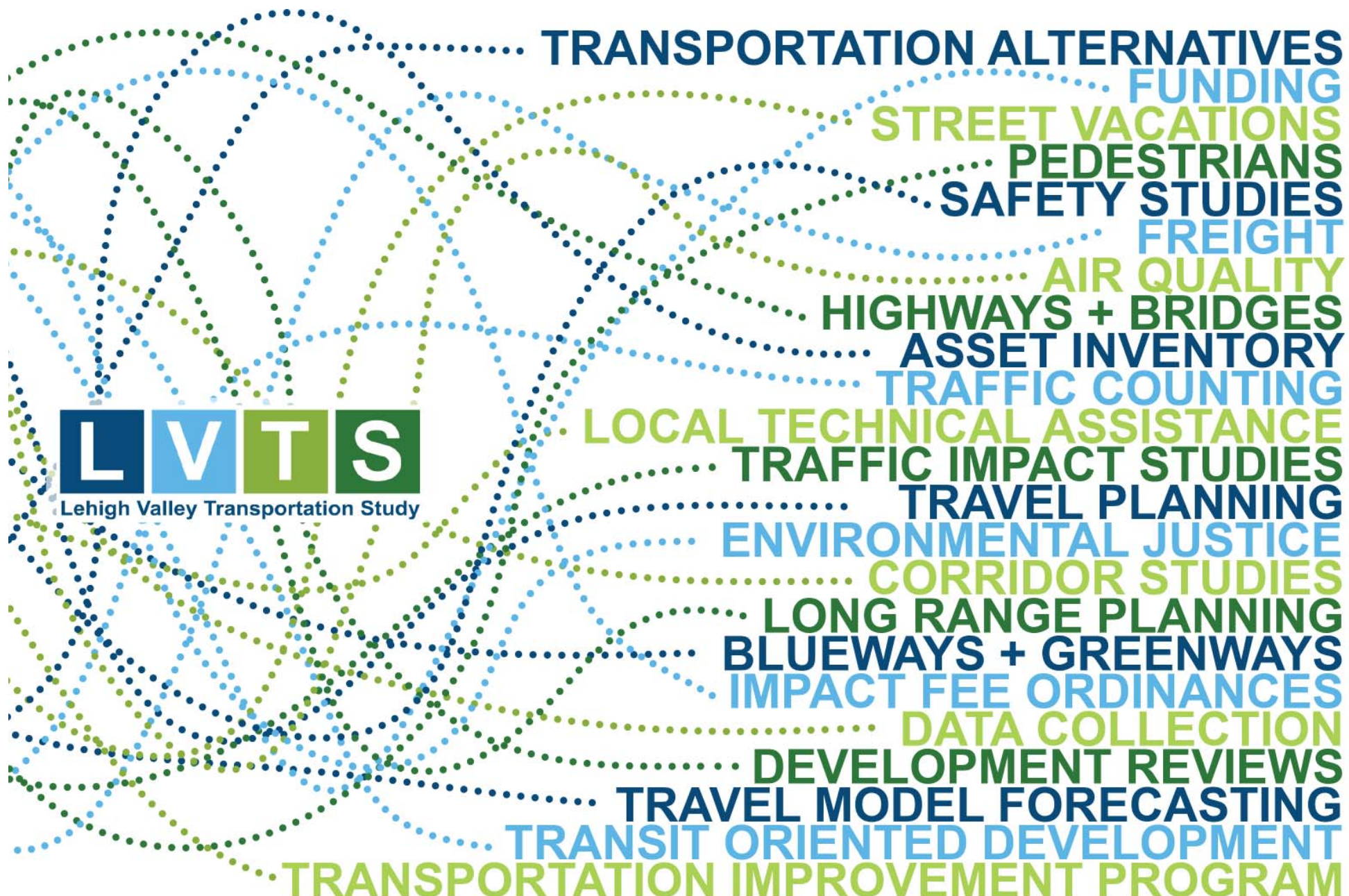


**Lehigh Valley Transportation Study  
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**L V T S**

Lehigh Valley Transportation Study

TRANSPORTATION ALTERNATIVES

FUNDING

STREET VACATIONS

PEDESTRIANS

SAFETY STUDIES

FREIGHT

AIR QUALITY

HIGHWAYS + BRIDGES

ASSET INVENTORY

TRAFFIC COUNTING

LOCAL TECHNICAL ASSISTANCE

TRAFFIC IMPACT STUDIES

TRAVEL PLANNING

ENVIRONMENTAL JUSTICE

CORRIDOR STUDIES

LONG RANGE PLANNING

BLUEWAYS + GREENWAYS

IMPACT FEE ORDINANCES

DATA COLLECTION

DEVELOPMENT REVIEWS

TRAVEL MODEL FORECASTING

TRANSIT ORIENTED DEVELOPMENT

TRANSPORTATION IMPROVEMENT PROGRAM

# INTRODUCTION

## LARGEST INVESTMENT IN THE LEHIGH VALLEY'S INFRASTRUCTURE

The 2017-2020 Transportation Improvement Program (TIP) encompasses over \$458 million in transportation infrastructure investment in the next four years. This plan targets the Lehigh Valley's highest priority road, bridge, transit, pedestrian, bicycle, and rail infrastructure projects proposed to be developed with Federal assistance. Including over 60 projects, the TIP seeks to preserve the region's assets, maintain and enhance mobility, reduce congestion, increase safety and operational efficiency, and promote partnerships.

## FEDERAL PROCESS TO ENSURE CONSISTENCY WITH REGIONAL GOALS

The Federal and State Governments designated the Lehigh Valley Transportation Study (LVTS) as the body responsible for preparing the TIP for Lehigh and Northampton Counties. The Federal Government requires that the TIP shall, at a minimum:

- ▶ Consist of improvements from the locally-developed transportation plan;
- ▶ Cover a period of not less than three years;
- ▶ Indicate the area's priorities; and
- ▶ Include realistic cost estimates of the total cost and revenues for the program period.

Both highway and transit projects proposed to be implemented with Federal assistance must be included in an approved TIP as a condition to Federal review and approval.

## PROJECT PRIORITIZATION

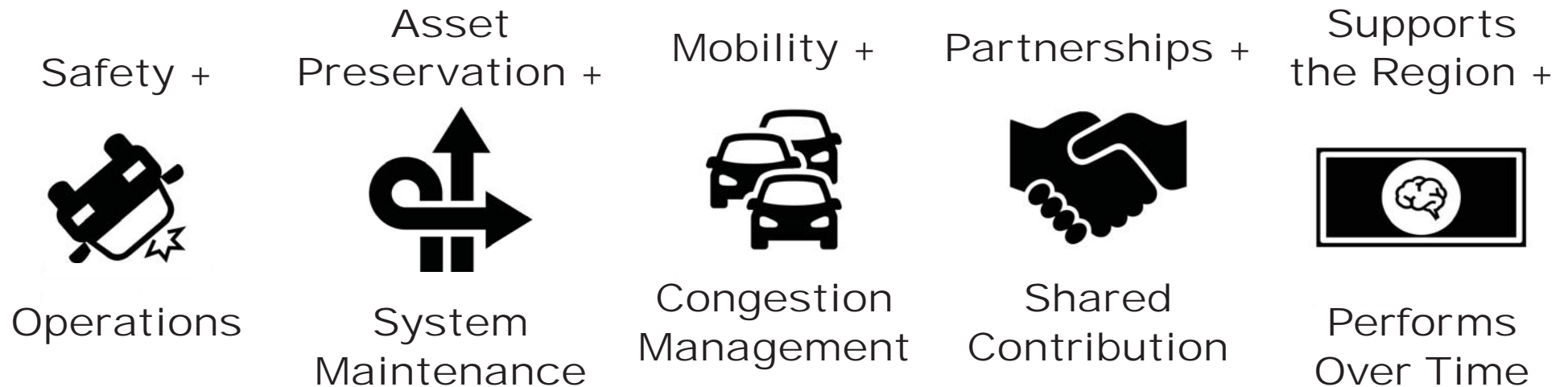


## PROJECT SELECTION FOCUSING ON SYSTEM PERFORMANCE FOR THE HIGHEST RETURN ON INVESTMENT

The project prioritization process begins with an evaluation of the goals, policies and projects outlined in *MoveLV: Long Range Transportation Plan*, *MoveLV: Lehigh Valley Regional Freight Plan*, and the *Lehigh Valley Comprehensive Plan*, as well as an assessment of the

projects on the standing *2015-2018 Transportation Improvement Program*. A technical and economic impact assessment of the draft project list is made utilizing US Department of Transportation standards to weigh the benefits and potential burdens of the proposed investments.

## PROJECT SELECTION CRITERIA



## INVESTMENT STRATEGY UNDERPINNING THE LEHIGH VALLEY'S SOCIAL + ECONOMIC FUTURE

The TIP is required by Federal statute to be fiscally constrained or only include those projects that do not exceed the total transportation dollars anticipated to be received by the Lehigh Valley Transportation Study between Federal Fiscal Year 2017-2020. All in all, the projects represent the largest infrastructure investment in the Lehigh Valley

and a 20% increase over the previous TIP. This funding strategy is critical to the economic and social future of the region, targeting infrastructure investment to support a bright and stable Lehigh Valley and reflecting short and long term, as well as new and diverse, transportation needs.

**2017-2020  
TOTAL INVESTMENT  
\$458,328,221**

**Highway**



**\$131,339,105**

**Transit**



**\$144,304,246**

**Bridge**



**\$182,684,870**



## **PUBLIC PARTICIPATION**

The draft TIP will be available for a 30-day public review and comment period starting Tuesday, June 14, 2016 and closing on Thursday, July 14, 2016. The draft TIP will be available in the following locations:

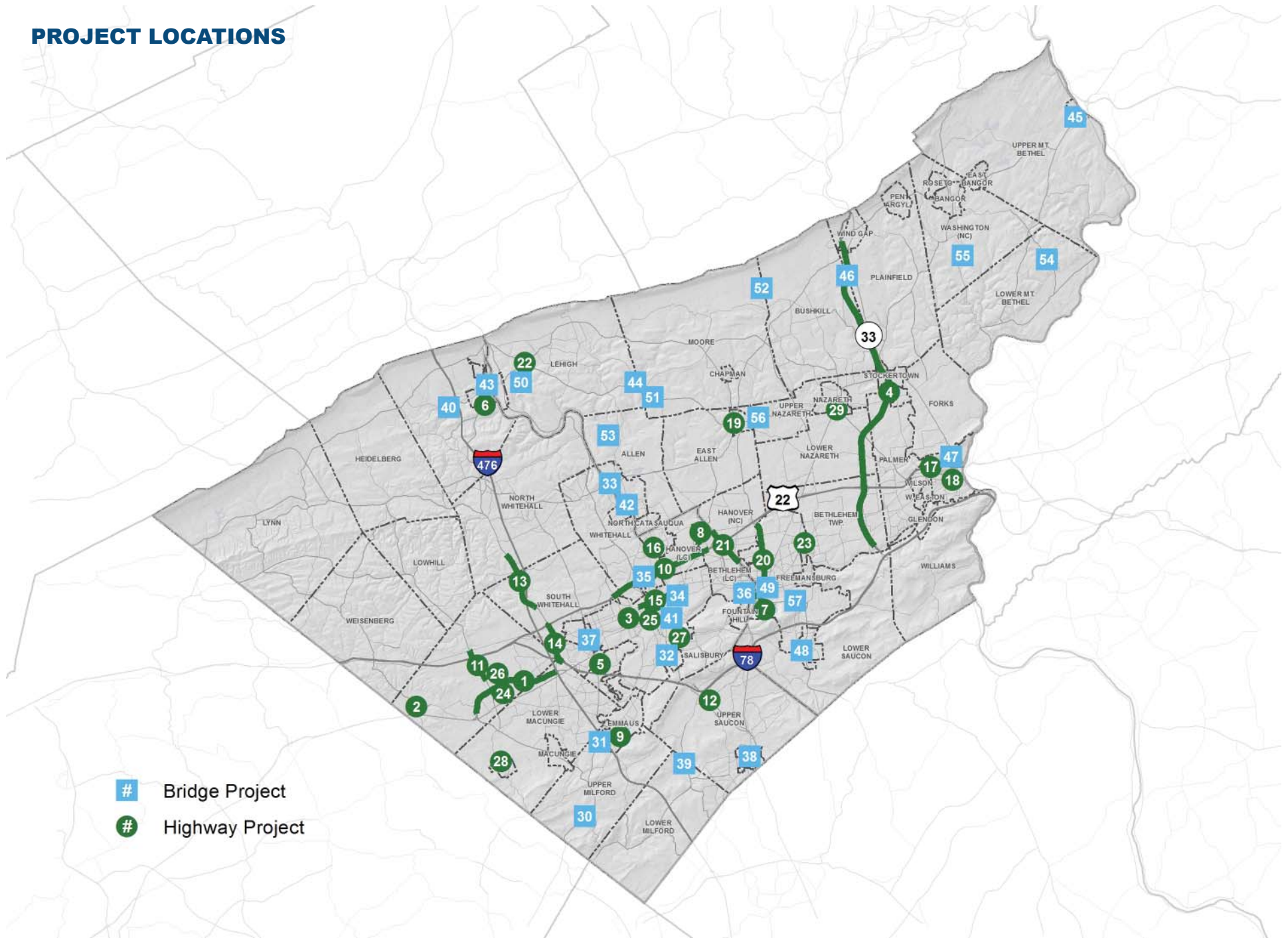
- ▶ Online at [www.lvpc.org](http://www.lvpc.org);
- ▶ Lehigh Valley Planning Commission, 961 Marcon Blvd, Suite 310, Allentown;
- ▶ Pennsylvania Department of Transportation, District 5-0, 1002 Hamilton Street, Allentown;
- ▶ Lehigh and Northampton Transportation Authority (LANta), 1060 Lehigh Street, Allentown;
- ▶ Allentown Public Library, 1210 Hamilton Street, Allentown;
- ▶ Bethlehem Public Library, 11 West Church Street, Bethlehem; and
- ▶ Easton Public Library, 515 Church Street, Easton.

Public meetings to solicit public comment on the draft document will be held on Tuesday, July 12, 2016 at 12:00 noon at PennDOT District 5-0, 1002 Hamilton Street, Allentown and at 6:00 PM at the Lehigh Valley Planning Commission, 961 Marcon Blvd., Suite 310, Allentown, PA.

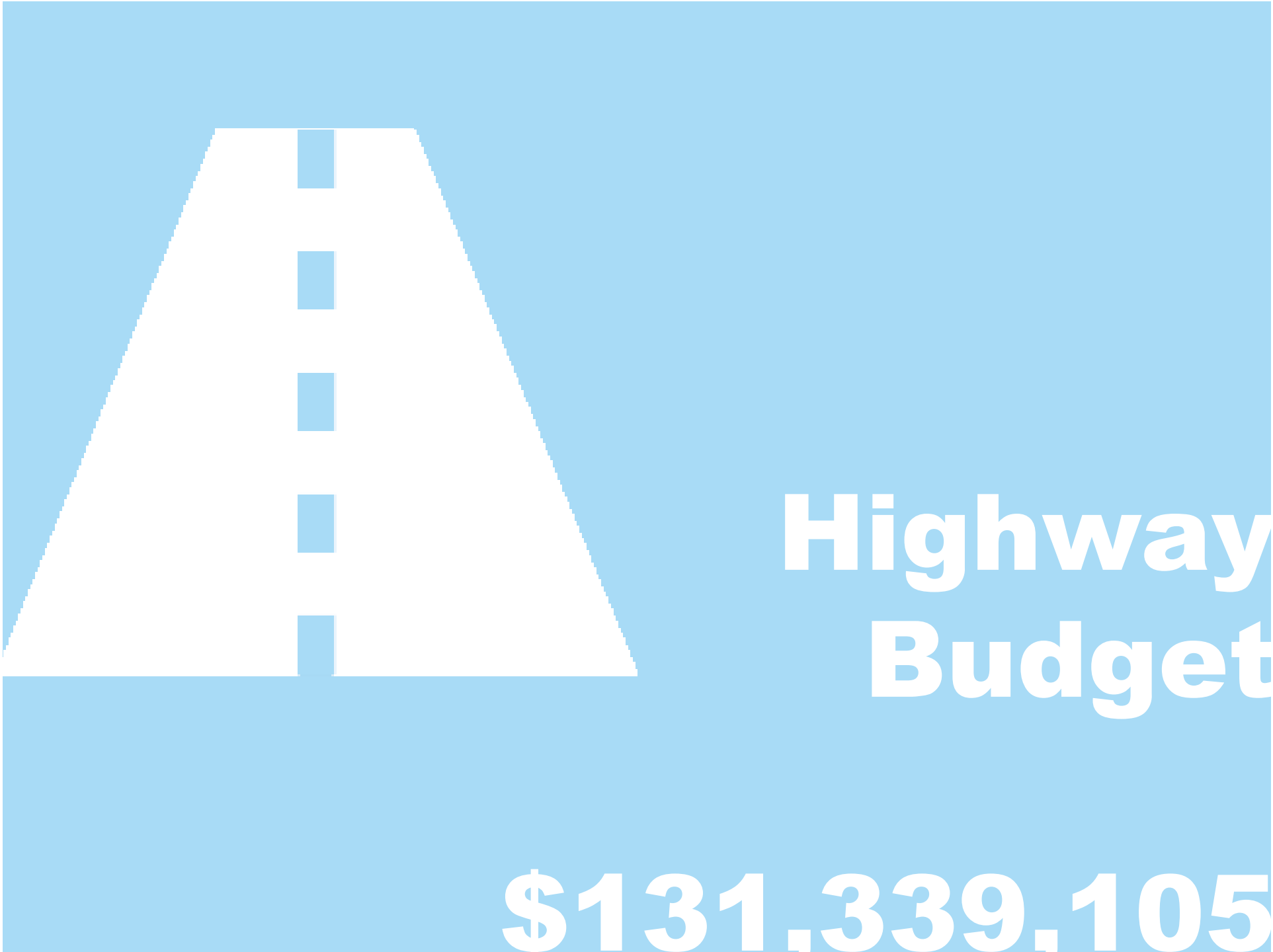
LVTS is committed to compliance with the nondiscrimination requirements of applicable civil rights statutes, executive orders, regulations, and policies. The meeting locations are accessible to persons with disabilities. With advance notification, accommodations may be provided for those with special needs related to language, sight, or hearing. If you have a request for a special need, wish to file a complaint, or desire additional information, please contact Michael Donchez at (610) 264-4544 or [mdonchez@lvpc.org](mailto:mdonchez@lvpc.org).



# PROJECT LOCATIONS



- Bridge Project
- Highway Project



# Highway Budget

**\$131,339,105**

**SAFETY PROJECTS**

MAP #	PROJECT NAME/DESCRIPTION	LOCATION	PROJECT PHASE	Federal Fiscal Year 2017	Federal Fiscal Year 2018	Federal Fiscal Year 2019	Federal Fiscal Year 2020	TOTAL
1	<b>SR 222 Median Barrier</b> Installation of high tension median barrier on State Route 222 from approximately Grim Road to North Brookside Road.	Upper & Lower Macungie Townships, Lehigh County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right of Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ -	\$ -	\$ -	\$ 570,000	\$ 570,000
			Total	\$ -	\$ -	\$ -	\$ 570,000	\$ 570,000
2	<b>SR 222 &amp; Schantz &amp; SR 863 Improvements</b> Signalization of two intersections on State Route 222 to improve safety; State Route 222 and Schantz Road (State Route 3012) intersection; and State Route 222 and 863 (Farmington Road).	Upper Macungie Township, Lehigh County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right of Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ -	\$ 4,814,278	\$ 6,486,062	\$ -	\$ 11,300,340
			Total	\$ -	\$ 4,814,278	\$ 6,486,062	\$ -	\$ 11,300,340
3	<b>15th Street Corridor</b> Installation of new signal equipment, coordinate signals at State Route 2003 (15th Street) from Hamilton Street to Tilghman Street to improve pedestrian intersection safety.	City of Allentown, Lehigh County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ 739,025	\$ -	\$ -	\$ -	\$ 739,025
			Right of Way Acquisition	\$ 145,745	\$ -	\$ -	\$ -	\$ 145,745
			Utility Relocation	\$ 108,150	\$ -	\$ -	\$ -	\$ 108,150
			Construction	\$ -	\$ 2,851,000	\$ 2,470,390	\$ 928,372	\$ 6,249,762
			Total	\$ 992,920	\$ 2,851,000	\$ 2,470,390	\$ 928,372	\$ 7,242,682
4	<b>SR 33 Median Barrier</b> Involves the installation of median barrier or guiderail along State Route 33 between Milepost 1.4 to Milepost 16 in Bethlehem Twp, Lower Nazareth, Palmer, Bushkill, Plainfield, Wind Gap & Stockertown.	Various Municipalities, Northampton County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right of Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ -	\$ 2,500,000	\$ -	\$ -	\$ 2,500,000
			Total	\$ -	\$ 2,500,000	\$ -	\$ -	\$ 2,500,000
N/A	<b>Freeway Service Patrol</b> Two roaming tow trucks to respond to incidents on I-78 from SR 100 to the Rt 309 split and I-78/SR 22 (at SR 100) to SR 22/Rt 33 in Upper Macungie, Lower Macungie, South Whitehall, Whitehall, Hanover & Bethlehem Twps & City of Bethlehem.	Various Municipalities, Lehigh/Northampton Counties	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right of Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ 1,183,187	\$ -	\$ -	\$ -	\$ 1,183,187
			Total	\$ 1,183,187	\$ -	\$ -	\$ -	\$ 1,183,187

**TRANSPORTATION ALTERNATIVES (BIKE/PEDESTRIAN) PROJECTS**

MAP #	PROJECT NAME/DESCRIPTION	LOCATION	PROJECT PHASE	Federal Fiscal Year 2017	Federal Fiscal Year 2018	Federal Fiscal Year 2019	Federal Fiscal Year 2020	TOTAL
N/A	<b>Safe Routes to School - Raub, Trexler, S. Mountain</b> Improve school route safety for Raub, South Mountain and Trexler Middle Schools. Includes crosswalk markings, sign installation, ADA-accessible ramps.	City of Allentown, Lehigh County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right of Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ 125,000	\$ -	\$ -	\$ -	\$ 125,000
			<b>Total</b>	<b>\$ 125,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 125,000</b>
5	<b>Salisbury Bike &amp; Sidewalk</b> Involves installation of bike lanes, sidewalk, crosswalks and ADA ramps along Lindberg Avenue and Flexer Avenue.	Salisbury Township, Lehigh County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right of Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ 215,939	\$ -	\$ -	\$ -	\$ 215,939
			<b>Total</b>	<b>\$ 215,939</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 215,939</b>
6	<b>Victory Park Sidewalk</b> Includes new sidewalks & curbs on east side of State Route 873 (Main St.) for direct access to Victory Park; two ADA crosswalks at northern limits of work with signage for safer crossing from west side of SR 873.	Slatington Borough, Lehigh County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right of Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ 45,430	\$ -	\$ -	\$ -	\$ 45,430
			<b>Total</b>	<b>\$ 45,430</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 45,430</b>
N/A	<b>Expansion Shared Lane Markings</b> Regional expansion of bicycle/pedestrian shared lane pavement markings network: Hanover Ave. (Allentown); Broad, New and Main streets (Bethlehem City) and North 3rd, Spring Garden, 4th, Ferry and 2nd streets (Easton).	Cities of Allentown, Bethlehem & Easton, Lehigh/Northampton Counties	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right of Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ 65,500	\$ -	\$ -	\$ -	\$ 65,500
			<b>Total</b>	<b>\$ 65,500</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 65,500</b>
7	<b>South Bethlehem Pedestrian Improvements</b> Involves pedestrian safety improvements, including replacement of deficient sidewalks and adding ADA-compliant curb ramps where needed on Fourth St from Hayes St to Buchanan St and Taylor St to Vine St.	City of Bethlehem, Northampton County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right of Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ 100,000	\$ -	\$ -	\$ -	\$ 100,000
			<b>Total</b>	<b>\$ 100,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 100,000</b>

**RESTORATION / REHABILITATION / RESURFACING / WIDENING / CONVERSION PROJECTS**

MAP #	PROJECT NAME/DESCRIPTION	LOCATION	PROJECT PHASE	Federal Fiscal Year 2017	Federal Fiscal Year 2018	Federal Fiscal Year 2019	Federal Fiscal Year 2020	TOTAL
8	<b>FedEx Roadway Improvements</b> Work consists primarily of roadway widening. An additional lane will be added to State Route 987 (Airport Road) southbound within the project limits. Intersection improvements at Postal Road/Avenue A and LVIA Driveway/City Line Road will also be required.	Hanover Township, Lehigh County/Allen Township, Northampton County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right of Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ 2,500,000	\$ 2,500,000	\$ -	\$ -	\$ 5,000,000
<b>Total</b>	<b>\$ 2,500,000</b>	<b>\$ 2,500,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 5,000,000</b>			
9	<b>Emmaus 10th Street Culvert</b> Involves a replacement/rehabilitation of the bridge over the culvert as well as adding a bike lane on 10th Street.	Emmaus Borough, Lehigh County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right of Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ 334,747	\$ -	\$ -	\$ -	\$ 334,747
<b>Total</b>	<b>\$ 334,747</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 334,747</b>			
10	<b>US 22 Widening</b> Involves highway widening to six lanes of US 22 from 15th Street to Airport Road.	Hanover/South Whitehall/Whitehall Townships, Lehigh County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ 5,000,000	\$ 5,500,000	\$ 10,500,000
			Right of Way Acquisition	\$ -	\$ -	\$ 5,270,058	\$ 1,685,149	\$ 6,955,207
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 10,270,058</b>	<b>\$ 7,185,149</b>	<b>\$ 17,455,207</b>			
11	<b>SR 100 Reconstruction</b> Involves roadway reconstruction on SR 100 from Schantz Road to Tilghman Street.	Upper Macungie Township, Lehigh County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ 1,030,000	\$ -	\$ -	\$ -	\$ 1,030,000
			Right of Way Acquisition	\$ 103,000	\$ -	\$ -	\$ -	\$ 103,000
			Utility Relocation	\$ 103,000	\$ -	\$ -	\$ -	\$ 103,000
			Construction	\$ -	\$ 3,760,558	\$ 395,090	\$ 8,750,000	\$ 12,905,648
<b>Total</b>	<b>\$ 1,236,000</b>	<b>\$ 3,760,558</b>	<b>\$ 395,090</b>	<b>\$ 8,750,000</b>	<b>\$ 14,141,648</b>			
12	<b>SR 309 Center Valley Interchange</b> Improvements to SR 309 Center Valley Interchange: changes to existing signalized intersection into a full direction grade-separated interchange to address current and future planned development.	Upper Saucon Township, Lehigh County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ 1,250,000	\$ 1,250,000
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right of Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,250,000</b>	<b>\$ 1,250,000</b>			
13	<b>SR 309 Resurface</b> Includes pavement restoration of SR 309 from Walbert Ave. to Shankweiler Rd. Also, reconstruction of Orefield Rd. & SR 309 intersection to accommodate truck turning movements & signal replacement.	North Whitehall & South Whitehall Townships, Lehigh County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ 819,545	\$ -	\$ -	\$ -	\$ 819,545
			Right of Way Acquisition	\$ 3,387,455	\$ -	\$ -	\$ -	\$ 3,387,455
			Utility Relocation	\$ 2,294,728	\$ -	\$ -	\$ -	\$ 2,294,728
			Construction	\$ -	\$ 4,200,646	\$ 2,104,000	\$ -	\$ 6,304,646
<b>Total</b>	<b>\$ 6,501,728</b>	<b>\$ 4,200,646</b>	<b>\$ 2,104,000</b>	<b>\$ -</b>	<b>\$ 12,806,374</b>			

**RESTORATION / REHABILITATION / RESURFACING / WIDENING / CONVERSION PROJECTS**

MAP #	PROJECT NAME/DESCRIPTION	LOCATION	PROJECT PHASE	Federal Fiscal Year 2017	Federal Fiscal Year 2018	Federal Fiscal Year 2019	Federal Fiscal Year 2020	TOTAL
14	<b>SR 309 &amp; Tilghman Intersection Reconstruction</b> Involves reconstruction & upgrade of SR 309/Tilghman St. Interchange. Also includes replacement & rehabilitation of US 22 Bridge over SR 309 & roadway drainage improvements, base repair and overlay.	South Whitehall/Upper Macungie/Lower Macungie Townships, Lehigh County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ 3,415,937	\$ 1,875,000	\$ -	\$ 5,290,937
			Right of Way Acquisition	\$ -	\$ -	\$ 1,999,677	\$ 1,415,095	\$ 3,414,772
			Utility Relocation	\$ -	\$ -	\$ 2,318,549	\$ -	\$ 2,318,549
			Construction	\$ -	\$ -	\$ -	\$ -	\$ -
			<b>Total</b>	\$ -	\$ 3,415,937	\$ 6,193,226	\$ 1,415,095	\$ 11,024,258
15	<b>Tilghman Street Resurface</b> Involves highway resurfacing of State Route 1002 (Tilghman Street) from Front Street to 10th Street.	City of Allentown, Lehigh County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right of Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ 600,000	\$ -	\$ -	\$ -	\$ 600,000
			<b>Total</b>	\$ 600,000	\$ -	\$ -	\$ -	\$ 600,000
16	<b>Lehigh Race Street Intersection</b> Extension of Second Street including new alignment with a new structure over Catasauqua Creek & connecting an upgraded intersection with Race Street.	Catasauqua Borough, Lehigh County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ 1,200,000	\$ -	\$ -	\$ -	\$ 1,200,000
			Right of Way Acquisition	\$ 1,000,000	\$ -	\$ -	\$ -	\$ 1,000,000
			Utility Relocation	\$ 400,000	\$ -	\$ -	\$ -	\$ 400,000
			Construction	\$ -	\$ 4,774,050	\$ -	\$ -	\$ 4,774,050
			<b>Total</b>	\$ 2,600,000	\$ 4,774,050	\$ -	\$ -	\$ 7,374,050
17	<b>US 22 &amp; 13th Street Interchange</b> Reconfigure 13th Street Interchange with Route 22 (Diverging Diamond Interchange). Replace Route 22 structure over 13th St. Replace Wood Ave structure over Route 22. Replace traffic signal with modern roundabout at 13th St & Wood Avenue.	City of Easton, Northampton County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ 4,375,000	\$ 4,375,000
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right of Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ -	\$ -	\$ -	\$ -	\$ -
			<b>Total</b>	\$ -	\$ -	\$ -	\$ 4,375,000	\$ 4,375,000
18	<b>Easton Two Way Street Conversion</b> Involves converting 4 one-way streets to two-way streets to facilitate traffic movement in Easton's Central Business District. Streets involved are 2nd Street, Spring Garden Street, 4th Street and Ferry Street.	City of Easton, Northampton County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ 159,135	\$ -	\$ -	\$ -	\$ 159,135
			Right of Way Acquisition	\$ 53,045	\$ -	\$ -	\$ -	\$ 53,045
			Utility Relocation	\$ 56,243	\$ -	\$ -	\$ -	\$ 56,243
			Construction	\$ -	\$ 1,754,788	\$ -	\$ -	\$ 1,754,788
			<b>Total</b>	\$ 268,423	\$ 1,754,788	\$ -	\$ -	\$ 2,023,211
19	<b>SR 248 Realignment</b> Project would designate Northampton Street to its intersection with Main Street as Route 248, reducing the number of turning movements in the Borough.	Bath Borough, Northampton County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ 360,500	\$ -	\$ -	\$ -	\$ 360,500
			Right of Way Acquisition	\$ 257,500	\$ -	\$ -	\$ -	\$ 257,500
			Utility Relocation	\$ 51,500	\$ -	\$ -	\$ -	\$ 51,500
			Construction	\$ -	\$ -	\$ 2,185,454	\$ -	\$ 2,185,454
			<b>Total</b>	\$ 669,500	\$ -	\$ 2,185,454	\$ -	\$ 2,854,954

**RESTORATION / REHABILITATION / RESURFACING / WIDENING / CONVERSION PROJECTS**

MAP #	PROJECT NAME/DESCRIPTION	LOCATION	PROJECT PHASE	Federal Fiscal Year 2017	Federal Fiscal Year 2018	Federal Fiscal Year 2019	Federal Fiscal Year 2020	TOTAL
20	<b>Center Street Resurfacing</b> Involves highway restoration of Center Street (SR 3011) from the Fahy Bridge to Monocacy Bridge.	City of Bethlehem, Northampton County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right of Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ 3,090,000	\$ -	\$ -	\$ -	\$ 3,090,000
			<b>Total</b>	<b>\$ 3,090,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 3,090,000</b>
<b>SIGNALIZATION IMPROVEMENTS</b>								
21	<b>Schoenersville Road Corridor</b> New signal timing plans, updated signal hardware & an upgrade in signal interconnection to a closed loop traffic responsive system along Schoenersville Road corridor from Avenue C/Stoke Park Road to 8th Avenue.	Hanover Townships, Lehigh/Northampton Counties	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right of Way Acquisition	\$ 54,000	\$ -	\$ -	\$ -	\$ 54,000
			Utility Relocation	\$ 690,000	\$ -	\$ -	\$ -	\$ 690,000
			Construction	\$ -	\$ 700,000	\$ 392,700	\$ -	\$ 1,092,700
			<b>Total</b>	<b>\$ 744,000</b>	<b>\$ 700,000</b>	<b>\$ 392,700</b>	<b>\$ -</b>	<b>\$ 1,836,700</b>
22	<b>SR 248/946 Intersection Improvements</b> Intersection improvements at State Route 248 (Lehigh Drive) and State Route 946 (W. Mountain View Drive) in Village of Berlinsville. New 12" LED signals with back plates, new traffic signal strain poles, widen shoulders at intersection and relocate utility poles, and update all intersection signage and pavement markings.	Lehigh Township, Northampton County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right of Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ 1,855,396	\$ -	\$ -	\$ -	\$ 1,855,396
			<b>Total</b>	<b>\$ 1,855,396</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,855,396</b>
23	<b>Easton Avenue Corridor Improvements</b> Involves corridor improvements and four signal upgrades on Easton Avenue from Stefko Boulevard to Willow Park Road. Includes installation of new signal heads, adjust timings, add new controllers and add left turn stand-by lanes where appropriate.	City of Bethlehem & Bethlehem Township, Northampton County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right of Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ 1,529,818	\$ -	\$ -	\$ -	\$ 1,529,818
			<b>Total</b>	<b>\$ 1,529,818</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,529,818</b>
<b>STUDIES</b>								
24	<b>Cetronia Road Hydrological Mitigation</b> Perform study of the hydrological conditions along State Route 3008 (Cetronia Road) to assess the area and determine why the area floods along sections of the road to prevent road closings.	Upper Macungie Township, Lehigh County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ 20,000	\$ -	\$ -	\$ -	\$ 20,000
			Right of Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ 10,000	\$ -	\$ -	\$ -	\$ 10,000
			Construction	\$ -	\$ -	\$ 428,000	\$ -	\$ 428,000
			<b>Total</b>	<b>\$ 30,000</b>	<b>\$ -</b>	<b>\$ 428,000</b>	<b>\$ -</b>	<b>\$ 458,000</b>
25	<b>7th Street Multimodal Corridor</b> Planning study to identify expected growth of entertainment, employment and residential needs. Establish a balance of traffic flow, business accessibility & pedestrian safety along 6th, 7th & 8th Streets bounded by Jordan Creek & Martin Luther King Jr. Drive.	City of Allentown, Lehigh County	Preliminary Engineering	\$ 103,000	\$ -	\$ -	\$ -	\$ 103,000
			Final Design	\$ -	\$ 122,004	\$ -	\$ -	\$ 122,004
			Right of Way Acquisition	\$ -	\$ 53,045	\$ -	\$ -	\$ 53,045
			Utility Relocation	\$ -	\$ 53,045	\$ -	\$ -	\$ 53,045
			Construction	\$ -	\$ -	\$ -	\$ 2,000,000	\$ 2,000,000
			<b>Total</b>	<b>\$ 103,000</b>	<b>\$ 228,094</b>	<b>\$ -</b>	<b>\$ 2,000,000</b>	<b>\$ 2,331,094</b>

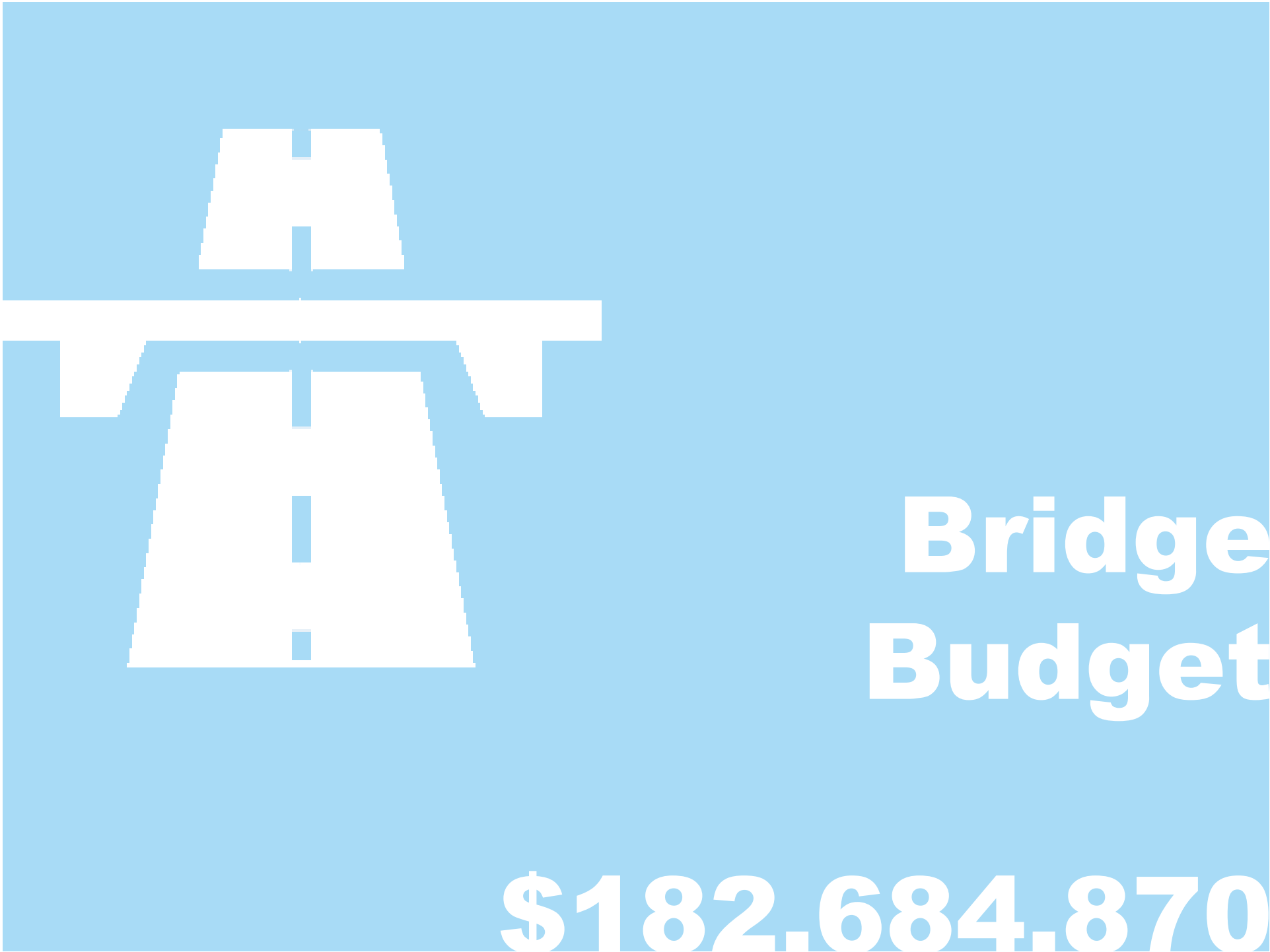
## RAILROAD CROSSING PROJECTS

MAP #	PROJECT NAME/DESCRIPTION	LOCATION	PROJECT PHASE	Federal Fiscal Year 2017	Federal Fiscal Year 2018	Federal Fiscal Year 2019	Federal Fiscal Year 2020	TOTAL
26	<b>Ruppsville Road</b> Involves an upgrade to the railroad safety equipment to cover ongoing traffic where Ruppsville Road crosses the track of Norfolk Southern Railway.	Upper Macungie Township, Lehigh County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right of Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ -	\$ 270,200	\$ -	\$ -	\$ 270,200
			<b>Total</b>	\$ -	\$ 270,200	\$ -	\$ -	\$ 270,200
27	<b>Union Street Railroad Upgrade</b> Involves Union Street rail crossing signalization upgrades.	City of Allentown, Lehigh County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right of Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ -	\$ -	\$ 185,700	\$ -	\$ 185,700
			<b>Total</b>	\$ -	\$ -	\$ 185,700	\$ -	\$ 185,700
28	<b>Penn Avenue Alburts Railroad Crossing</b> Involves an upgrade to railroad safety equipment where Penn Avenue crosses Norfolk Southern Railway.	Alburts Borough, Lehigh County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right of Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ -	\$ -	\$ -	\$ 282,000	\$ 282,000
			<b>Total</b>	\$ -	\$ -	\$ -	\$ 282,000	\$ 282,000
29	<b>Broad Street Nazareth Railroad Crossing</b> Involves safety improvements to upgrade railroad safety equipment where State Route 191 crosses the track of Norfolk Southern Railway.	Nazareth Borough, Northampton County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right of Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ 215,000	\$ 210,000	\$ -	\$ -	\$ 425,000
			<b>Total</b>	\$ 215,000	\$ 210,000	\$ -	\$ -	\$ 425,000
<b>HIGHWAY OPERATING / CONSULTING / CONTINGENCY FUNDS</b>								
N/A	<b>LANta Operating Funds</b> Transfer of Federal Congestion Management and Air Quality (CMAQ) highway improvement flex funds to provide operating assistance to LANta.	Lehigh/Northampton Counties	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right of Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ 850,000	\$ 850,000	\$ 850,000	\$ 850,000	\$ 3,400,000
			<b>Total</b>	\$ 850,000	\$ 850,000	\$ 850,000	\$ 850,000	\$ 3,400,000



**HIGHWAY OPERATING / CONSULTING / CONTINGENCY FUNDS**

MAP #	PROJECT NAME/DESCRIPTION	LOCATION	PROJECT PHASE	Federal Fiscal Year 2017	Federal Fiscal Year 2018	Federal Fiscal Year 2019	Federal Fiscal Year 2020	TOTAL
N/A	<b>Transportation Alternatives Program Funds</b> Set-aside line item for competitively selected projects defined as transportation alternatives, including pedestrian and bicycle facilities, community improvement activities, recreational trail program projects and safe routes to school projects.	Lehigh/Northampton Counties	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right of Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ 96,131	\$ 661,000	\$ 661,000	\$ 661,000	\$ 2,079,131
			<b>Total</b>	<b>\$ 96,131</b>	<b>\$ 661,000</b>	<b>\$ 661,000</b>	<b>\$ 661,000</b>	<b>\$ 2,079,131</b>
N/A	<b>Repair/Monitor Wetlands</b> Monitoring, maintenance & repair of constructed wetlands on approved highway/bridge projects from past & current Transportation Improvement Programs. Identifying potential sites for environmental mitigation requirements.	Lehigh/Northampton Counties	Preliminary Engineering	\$ 50,000	\$ -	\$ 50,000	\$ -	\$ 100,000
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right of Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ -	\$ -	\$ -	\$ -	\$ -
			<b>Total</b>	<b>\$ 50,000</b>	<b>\$ -</b>	<b>\$ 50,000</b>	<b>\$ -</b>	<b>\$ 100,000</b>
N/A	<b>Safety Contingency</b> Cost overruns on approved highway/bridge projects from past & current Transportation Improvement Programs & future safety projects: intersection safety, clear sight triangles, pavement markings, enhanced signage, rumble strips & guiderails.	Lehigh/Northampton Counties	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right of Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ 854,029	\$ -	\$ -	\$ 2,311,628	\$ 3,165,657
			<b>Total</b>	<b>\$ 854,029</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,311,628</b>	<b>\$ 3,165,657</b>
N/A	<b>Urban Contingency Reserve</b> Line item for cost overruns on approved highway and bridge projects and for future projects identified to enhance urban access and mobility.	Lehigh/Northampton Counties	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right of Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ 1,764,845	\$ -	\$ -	\$ 1,858,037	\$ 3,622,882
			<b>Total</b>	<b>\$ 1,764,845</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,858,037</b>	<b>\$ 3,622,882</b>
N/A	<b>Delivery Consultant Assistance</b> Consultant assistance for design aspects of project delivery of approved Transportation Improvement Program projects, including highway, bridge and transportation alternative projects.	Lehigh/Northampton Counties	Preliminary Engineering	\$ 2,500,000	\$ 500,000	\$ -	\$ 1,000,000	\$ 4,000,000
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right of Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ -	\$ -	\$ -	\$ -	\$ -
			<b>Total</b>	<b>\$ 2,500,000</b>	<b>\$ 500,000</b>	<b>\$ -</b>	<b>\$ 1,000,000</b>	<b>\$ 4,000,000</b>
N/A	<b>Multimodal Management</b> Consultant contract to assist local sponsors in developing approved transportation enhancement projects.	Lehigh/Northampton Counties	Preliminary Engineering	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 120,000
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right of Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ -	\$ -	\$ -	\$ -	\$ -
			<b>Total</b>	<b>\$ 30,000</b>	<b>\$ 30,000</b>	<b>\$ 30,000</b>	<b>\$ 30,000</b>	<b>\$ 120,000</b>
<b>TOTAL - HIGHWAY</b>				<b>\$ 28,445,197</b>	<b>\$ 33,170,551</b>	<b>\$ 31,851,680</b>	<b>\$ 32,616,281</b>	<b>\$ 131,339,105</b>



# Bridge Budget

**\$182,684,870**

## BRIDGE REPLACEMENT/REHABILITATION PROJECTS

MAP #	PROJECT NAME/DESCRIPTION	LOCATION	PROJECT PHASE	Federal	Federal	Federal	Federal	TOTAL
				Fiscal Year 2017	Fiscal Year 2018	Fiscal Year 2019	Fiscal Year 2020	
30	<b>SR 29/100 over Indian Creek</b> Replacement/rehabilitation of the bridge that carries SR 29/100 (Chestnut Street) over Indian Creek.	Upper Milford Township, Lehigh County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right-of-Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ -	\$ 890,694	\$ 2,238,961	\$ -	\$ 3,129,655
			<b>Total</b>	\$ -	\$ 890,694	\$ 2,238,961	\$ -	\$ 3,129,655
31	<b>SR 29/Reading Railroad Bridge</b> Replacement/rehabilitation of the bridge carrying SR 29 (Chestnut Street) over the Reading Railroad.	Upper Milford Township, Lehigh County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right-of-Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ -	\$ 8,593,290	\$ -	\$ -	\$ 8,593,290
			<b>Total</b>	\$ -	\$ 8,593,290	\$ -	\$ -	\$ 8,593,290
32	<b>Wire Mill Bridge</b> Replacement/rehabilitation of the Wire Mill Bridge that carries Lehigh Street (State Route 145) over Little Lehigh Creek.	City of Allentown, Lehigh County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ 364,000	\$ -	\$ -	\$ -	\$ 364,000
			Right-of-Way Acquisition	\$ -	\$ 58,349	\$ -	\$ -	\$ 58,349
			Utility Relocation	\$ -	\$ 53,045	\$ -	\$ -	\$ 53,045
			Construction	\$ -	\$ 7,900,000	\$ -	\$ -	\$ 7,900,000
			<b>Total</b>	\$ 364,000	\$ 8,011,394	\$ -	\$ -	\$ 8,375,394
33	<b>Cementon Bridge</b> Replacement/rehabilitation of the Cementon Bridge carrying State Route 329 (Main Street) over the Lehigh River.	Whitehall Township, Lehigh County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ 797,004	\$ 441,211	\$ -	\$ -	\$ 1,238,215
			Right-of-Way Acquisition	\$ 412,000	\$ -	\$ -	\$ -	\$ 412,000
			Utility Relocation	\$ 70,000	\$ 554,000	\$ -	\$ -	\$ 624,000
			Construction	\$ -	\$ -	\$ 6,399,869	\$ 10,492,405	\$ 16,892,274
			<b>Total</b>	\$ 1,279,004	\$ 995,211	\$ 6,399,869	\$ 10,492,405	\$ 19,166,489
34	<b>Tilghman Street over Lehigh River &amp; Railroad</b> Replacement/rehabilitation of the bridge carrying Tilghman Street (State Route 1002) over the Lehigh River and Corman Railroad.	City of Allentown, Lehigh County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right-of-Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ 13,689,180	\$ 10,200,150	\$ 4,593,770	\$ -	\$ 28,483,100
			<b>Total</b>	\$ 13,689,180	\$ 10,200,150	\$ 4,593,770	\$ -	\$ 28,483,100

## BRIDGE REPLACEMENT/REHABILITATION PROJECTS

MAP #	PROJECT NAME/DESCRIPTION	LOCATION	PROJECT PHASE	Federal	Federal	Federal	Federal	TOTAL
				Fiscal Year 2017	Fiscal Year 2018	Fiscal Year 2019	Fiscal Year 2020	
35	<b>US 22 Sec 400-Ph 2 (Lehigh River Bridge)</b> Reconstruct US 22/Fullerton Interchange and major rehabilitation/widening of the US 22 Lehigh River Bridge to improve safety and congestion. US 22: 5th to Irving Street.	Hanover/Whitehall Townships, Lehigh County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right-of-Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ 2,648,338	\$ 2,195,212	\$ 4,481,000	\$ 3,971,863	\$ 13,296,413
			<b>Total</b>	<b>\$ 2,648,338</b>	<b>\$ 2,195,212</b>	<b>\$ 4,481,000</b>	<b>\$ 3,971,863</b>	<b>\$ 13,296,413</b>
36	<b>Hill to Hill Bridge Rehab</b> Replacement/rehabilitation of the Hill to Hill Bridge (State Route 378) over the Lehigh River, railroad and city streets.	City of Bethlehem, Northampton County	Preliminary Engineering	\$ 3,742,519	\$ 1,375,000	\$ 2,206,056	\$ -	\$ 7,323,575
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right-of-Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ -	\$ -	\$ -	\$ -	\$ -
			<b>Total</b>	<b>\$ 3,742,519</b>	<b>\$ 1,375,000</b>	<b>\$ 2,206,056</b>	<b>\$ -</b>	<b>\$ 7,323,575</b>
37	<b>Cedar Crest Blvd. over Little Cedar Creek</b> Replacement/rehabilitation of the bridge carrying State Route 1019 (Cedar Crest Boulevard) over Little Cedar Creek.	City of Allentown, Lehigh County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right-of-Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ -	\$ 6,895,850	\$ -	\$ -	\$ 6,895,850
			<b>Total</b>	<b>\$ -</b>	<b>\$ 6,895,850</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 6,895,850</b>
38	<b>SR 2026 over Tributary to Saucon Creek</b> Replacement/rehabilitation of the Stone Arch Bridge carrying East Station Avenue (State Route 2026) over the tributary to Saucon Creek.	Coopersburg Borough, Lehigh County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right-of-Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ 1,272,845	\$ 487,155	\$ -	\$ -	\$ 1,760,000
			<b>Total</b>	<b>\$ 1,272,845</b>	<b>\$ 487,155</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,760,000</b>
39	<b>SR 2029/Tributary Saucon Creek</b> Replacement/rehabilitation of the bridge that carries State Route 2029 (Limeport Pike) over the tributary to Saucon Creek.	Lower Milford Township, Lehigh County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right-of-Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ -	\$ 1,052,874	\$ -	\$ -	\$ 1,052,874
			<b>Total</b>	<b>\$ -</b>	<b>\$ 1,052,874</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,052,874</b>
40	<b>Trout Creek Bridges</b> Replacement/rehabilitation of two Stone Arch Bridges: State Route 4018 (Main Street) over Trout Creek and State Route 4018 (Main Street) over branch of Trout Creek.	Washington Township, Lehigh County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right-of-Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ 575,000	\$ -	\$ -	\$ -	\$ 575,000
			<b>Total</b>	<b>\$ 575,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 575,000</b>

## BRIDGE REPLACEMENT/REHABILITATION PROJECTS

MAP #	PROJECT NAME/DESCRIPTION	LOCATION	PROJECT PHASE	Federal Fiscal Year 2017	Federal Fiscal Year 2018	Federal Fiscal Year 2019	Federal Fiscal Year 2020	TOTAL
41	<b>Gordon Street Bridge</b> Replacement/rehabilitation of the bridge carrying Gordon Street over the Jordan Creek.	City of Allentown, Lehigh County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ 360,500	\$ -	\$ -	\$ -	\$ 360,500
			Right-of-Way Acquisition	\$ 41,200	\$ -	\$ -	\$ -	\$ 41,200
			Utility Relocation	\$ 30,900	\$ -	\$ -	\$ -	\$ 30,900
			Construction		\$ 2,333,980	\$ 239,711	\$ -	\$ 2,573,691
			Total	\$ 432,600	\$ 2,333,980	\$ 239,711	\$ -	\$ 3,006,291
42	<b>Coplay/Northampton Bridge</b> Replacement/rehabilitation of the Coplay-Northampton Bridge on Chestnut Street over the Norfolk Southern Railroad, Lehigh River and Ironton Trail.	Coplay Borough/Whitehall Township, Lehigh County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right-of-Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ 4,986,104	\$ 3,393,813	\$ 6,579,286	\$ 6,840,793	\$ 21,799,996
			Total	\$ 4,986,104	\$ 3,393,813	\$ 6,579,286	\$ 6,840,793	\$ 21,799,996
43	<b>Walnut Street Bridge</b> Replacement/rehabilitation of the bridge that carries South Walnut Street over Trout Creek.	Slatington Borough, Lehigh County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ 360,500	\$ -	\$ -	\$ -	\$ 360,500
			Right-of-Way Acquisition	\$ 56,650	\$ -	\$ -	\$ -	\$ 56,650
			Utility Relocation	\$ 51,500	\$ -	\$ -	\$ -	\$ 51,500
			Construction	\$ -	\$ 1,250,000	\$ 2,574,545	\$ -	\$ 3,824,545
			Total	\$ 468,650	\$ 1,250,000	\$ 2,574,545	\$ -	\$ 4,293,195
44	<b>SR 248 over Hokendauqua Creek</b> Replacement/rehabilitation of the bridge that carries State Route 248 over Hokendauqua Creek.	Moore Township, Northampton County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design		\$ -	\$ -	\$ -	\$ -
			Right-of-Way Acquisition	\$ 51,500	\$ -	\$ -	\$ -	\$ 51,500
			Utility Relocation	\$ 25,750	\$ -	\$ -	\$ -	\$ 25,750
			Construction	\$ -	\$ 81,071	\$ 1,510,279	\$ -	\$ 1,591,350
			Total	\$ 77,250	\$ 81,071	\$ 1,510,279	\$ -	\$ 1,668,600
45	<b>SR 1032 over Jacoby Creek-Mill Race</b> Replacement/rehabilitation of the bridge that carries State Street (State Route 1032) over Jacoby Creek and Mill Race.	Portland Borough, Northampton County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right-of-Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ 757,120	\$ -	\$ -	\$ -	\$ 757,120
			Total	\$ 757,120	\$ -	\$ -	\$ -	\$ 757,120
46	<b>Kromer Road Bridge</b> Replacement/rehabilitation of the bridge that carries Kromer Road over State Route 33.	Plainfield Township, Northampton County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right-of-Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ 1,714,059	\$ 618,891	\$ -	\$ -	\$ 2,332,950
			Total	\$ 1,714,059	\$ 618,891	\$ -	\$ -	\$ 2,332,950

**BRIDGE REPLACEMENT/REHABILITATION PROJECTS**

MAP #	PROJECT NAME/DESCRIPTION	LOCATION	PROJECT PHASE	Federal	Federal	Federal	Federal	TOTAL
				Fiscal Year 2017	Fiscal Year 2018	Fiscal Year 2019	Fiscal Year 2020	
47	<b>Third Street over Bushkill Creek</b> Replacement/rehabilitation of the Stone Arch Bridge that carries North 3rd Street (State Route 2023) over Bushkill Creek.	City of Easton, Northampton County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right-of-Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ 150,000	\$ -	\$ -	\$ -	\$ 150,000
			Total	\$ 150,000	\$ -	\$ -	\$ -	\$ 150,000
48	<b>SR 3004 over Saucon Creek</b> Rehabilitation/replacement of the bridge that carries State Route 3004 (Friedensville Road) over Saucon Creek.	Hellertown Borough, Northampton County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right-of-Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ -	\$ 2,567,378	\$ -	\$ -	\$ 2,567,378
			Total	\$ -	\$ 2,567,378	\$ -	\$ -	\$ 2,567,378
49	<b>Fahy Bridge Rehabilitation</b> Replacement/rehabilitation of the Fahy Bridge which carries State Route 3011 (South New Street) over the Lehigh River, Norfolk Southern Railroad, Monocacy Creek and Delaware and Lehigh Canal.	City of Bethlehem, Northampton County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right-of-Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ 1,250,000	\$ -	\$ -	\$ -	\$ 1,250,000
			Total	\$ 1,250,000	\$ -	\$ -	\$ -	\$ 1,250,000
50	<b>SR 4020 over Bertsch Creek</b> Replacement/rehabilitation of the Stone Arch Bridge that carries State Route 4020 (Maple Drive) over Bertsch Creek.	Lehigh Township, Northampton County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right-of-Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ 1,760,000	\$ -	\$ -	\$ -	\$ 1,760,000
			Total	\$ 1,760,000	\$ -	\$ -	\$ -	\$ 1,760,000
51	<b>SR 248/Tributary to Hokendauqua Creek</b> Replacement/rehabilitation of the bridge that carries State Route 248 over tributary to Hokendauqua Creek.	Moore Township, Northampton County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right-of-Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ 25,750	\$ -	\$ -	\$ -	\$ 25,750
			Construction	\$ -	\$ -	\$ 1,420,545	\$ -	\$ 1,420,545
			Total	\$ 25,750	\$ -	\$ 1,420,545	\$ -	\$ 1,446,295
52	<b>SR 4019 Bridge Replacement</b> Bridge replacements at various locations: State Route 4019 (Bushkill Drive) over tributary to Bushkill Creek; SR 4019 (Mountain Road) over West Fork Bushkill Creek; SR 4019 (Mountain Road) over Horn Creek.	Bushkill and Moore Townships, Northampton County	Preliminary Engineering	\$ -	\$ 424,360	\$ -	\$ -	\$ 424,360
			Final Design	\$ -	\$ -	\$ -	\$ 701,915	\$ 701,915
			Right-of-Way Acquisition	\$ -	\$ -	\$ -	\$ 292,465	\$ 292,465
			Utility Relocation	\$ -	\$ -	\$ -	\$ 292,465	\$ 292,465
			Construction	\$ -	\$ -	\$ -	\$ -	\$ -
			Total	\$ -	\$ 424,360	\$ -	\$ 1,286,845	\$ 1,711,205

## BRIDGE REPLACEMENT/REHABILITATION PROJECTS

MAP #	PROJECT NAME/DESCRIPTION	LOCATION	PROJECT PHASE	Federal	Federal	Federal	Federal	TOTAL
				Fiscal Year 2017	Fiscal Year 2018	Fiscal Year 2019	Fiscal Year 2020	
53	<b>SR 3016 /Hokendauqua Creek</b> Replacement/rehabilitation of the bridge carrying State Route 3016 (Indian Trail Road) over Hokendauqua Creek.	Allen Township, Northampton County	Preliminary Engineering	\$ -	\$ 185,658	\$ -	\$ -	\$ 185,658
			Final Design	\$ -	\$ -	\$ -	\$ 204,725	\$ 204,725
			Right-of-Way Acquisition	\$ -	\$ -	\$ -	\$ 81,890	\$ 81,890
			Utility Relocation	\$ -	\$ -	\$ -	\$ 58,494	\$ 58,494
			Construction	\$ -	\$ -	\$ -	\$ -	\$ -
			Total	\$ -	\$ 185,658	\$ -	\$ 345,109	\$ 530,767
54	<b>SR 1017 Culvert</b> Replacement/rehabilitation of a culvert on State Route 1017 (Richmond Road).	Lower Mt. Bethel Township, Northampton County	Preliminary Engineering	\$ -	\$ 212,180	\$ -	\$ -	\$ 212,180
			Final Design	\$ -	\$ -	\$ -	\$ 146,232	\$ 146,232
			Right-of-Way Acquisition	\$ -	\$ -	\$ -	\$ 29,246	\$ 29,246
			Utility Relocation	\$ -	\$ -	\$ -	\$ 29,246	\$ 29,246
			Construction	\$ -	\$ -	\$ -	\$ -	\$ -
			Total	\$ -	\$ 212,180	\$ -	\$ 204,724	\$ 416,904
55	<b>SR 1015 over Martins Creek</b> Replacement/rehabilitation of the bridge carrying State Route 1015 (Main Street) over Martins Creek.	Washington Township, Northampton County	Preliminary Engineering	\$ -	\$ 140,000	\$ -	\$ -	\$ 140,000
			Final Design	\$ -	\$ -	\$ 142,055	\$ -	\$ 142,055
			Right-of-Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ 55,947	\$ 28,138	\$ 84,085
			Construction	\$ -	\$ -	\$ -	\$ 1,118,952	\$ 1,118,952
			Total	\$ -	\$ 140,000	\$ 198,002	\$ 1,147,090	\$ 1,485,092
56	<b>SR 248/E Branch Monocacy Creek</b> Replacement/rehabilitation of the bridge carrying State Route 248 over the East Branch of Monocacy Creek.	Upper Nazareth Township, Northampton County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right-of-Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ 25,750	\$ -	\$ -	\$ -	\$ 25,750
			Construction	\$ -	\$ -	\$ 1,256,636	\$ -	\$ 1,256,636
			Total	\$ 25,750	\$ -	\$ 1,256,636	\$ -	\$ 1,282,386
57	<b>Lynn Avenue Bridge</b> Replacement/rehabilitation of the bridge that carries Lynn Avenue over Lehigh Valley Rail Management Railroad and Bethlehem City greenway.	City of Bethlehem, Northampton County	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right-of-Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ 666,666	\$ -	\$ -	\$ -	\$ 666,666
			Total	\$ 666,666	\$ -	\$ -	\$ -	\$ 666,666

**BRIDGE OPERATING / CONSULTING / CONTINGENCY PROJECTS**

MAP #	PROJECT NAME/DESCRIPTION	LOCATION	PROJECT PHASE	Federal Fiscal Year 2017	Federal Fiscal Year 2018	Federal Fiscal Year 2019	Federal Fiscal Year 2020	TOTAL
N/A	<b>LVTS Bridge Preserve &amp; Repair 3</b> Consultant design and construction of bridge repairs and preservation of various bridges to reduce outstanding priority bridge repair items.	Lehigh/Northampton Counties	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right-of-Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ 150,000	\$ 150,000	\$ 150,000	\$ -	\$ 450,000
			<b>Total</b>	<b>\$ 150,000</b>	<b>\$ 150,000</b>	<b>\$ 150,000</b>	<b>\$ -</b>	<b>\$ 450,000</b>
N/A	<b>LVTS Bridge Preserve &amp; Repair 4</b> Consultant design and construction of bridge repairs and preservation of various bridges to reduce outstanding priority bridge repair items.	Lehigh/Northampton Counties	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right-of-Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ 4,000,000	\$ 1,000,000	\$ -	\$ -	\$ 5,000,000
			<b>Total</b>	<b>\$ 4,000,000</b>	<b>\$ 1,000,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 5,000,000</b>
N/A	<b>LVTS Highway &amp; Bridge Contingency</b> National Highway Performance Program based-reserve line item for cost overruns on approved highway/bridge projects from past & current Transportation Improvement Programs within LVTS.	Lehigh/Northampton Counties	Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right-of-Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ 5,685,592	\$ 1,840,823	\$ 7,917,704	\$ 15,789,161	\$ 31,233,280
			<b>Total</b>	<b>\$ 5,685,592</b>	<b>\$ 1,840,823</b>	<b>\$ 7,917,704</b>	<b>\$ 15,789,161</b>	<b>\$ 31,233,280</b>
N/A	<b>LVTS Bridge Preserve &amp; Repair 5</b> Bridge preservation and rehabilitation contract for various bridges.	Lehigh/Northampton Counties	Preliminary Engineering	\$ -	\$ -	\$ -	\$ 225,102	\$ 225,102
			Final Design	\$ -	\$ -	\$ -	\$ -	\$ -
			Right-of-Way Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
			Utility Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
			Construction	\$ -	\$ -	\$ -	\$ -	\$ -
			<b>Total</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 225,102</b>	<b>\$ 225,102</b>
<b>Total - Bridges</b>				<b>\$ 45,720,427</b>	<b>\$ 54,894,984</b>	<b>\$ 41,766,364</b>	<b>\$ 40,303,092</b>	<b>\$ 182,684,870</b>





# Transit Budget

**\$144,304,246**

PROJECT NAME/DESCRIPTION	FUNDING SOURCE	Federal Fiscal	Federal Fiscal	Federal Fiscal	Federal Fiscal	TOTAL
		Year 2017	Year 2018	Year 2019	Year 2020	
<b>LANta Operating Assistance</b> Provides funding for annual operating assistance to help cover the costs incurred by the state's urban and rural transit systems to provide local public transportation service.	Federal	\$ -	\$ -	\$ -	\$ -	\$ -
	State	\$ -	\$ -	\$ -	\$ -	\$ -
	Local	\$ 16,877,200	\$ 16,922,810	\$ 16,970,700	\$ 17,020,986	\$ 67,791,696
	Total	\$ 16,877,200	\$ 16,922,810	\$ 16,970,700	\$ 17,020,986	\$ 67,791,696
<b>LANta Shared-Ride Operating Assistance</b> Provides funding for the Shared-Ride Program, which enables senior citizens 65 years of age and older to use shared-ride, demand-responsive (normally curb to curb) services and pay only a small portion of the regular shared-ride fare.	Federal	\$ -	\$ -	\$ -	\$ -	\$ -
	State	\$ -	\$ -	\$ -	\$ -	\$ -
	Local	\$ 3,097,000	\$ 3,097,000	\$ 3,097,000	\$ 3,097,000	\$ 12,388,000
	Total	\$ 3,097,000	\$ 3,097,000	\$ 3,097,000	\$ 3,097,000	\$ 12,388,000
<b>Purchase Van/Minibuses</b> Over the 4-year period, 74 diesel vehicles to be replaced with gasoline vehicles. Specific vehicles to be replaced will be based on condition of vehicles in the fleet and recent maintenance history at time of arrival of replacement vehicles.	Federal	\$ -	\$ -	\$ -	\$ -	\$ -
	State	\$ -	\$ -	\$ -	\$ -	\$ -
	Local	\$ 1,400,000	\$ 1,420,000	\$ 1,368,000	\$ 1,095,000	\$ 5,283,000
	Total	\$ 1,400,000	\$ 1,420,000	\$ 1,368,000	\$ 1,095,000	\$ 5,283,000
<b>General Miscellaneous</b> Replace and refurbish items, including tire lease agreement, Capital Maintenance items, miscellaneous facility improvements, miscellaneous shop and office equipment. The purchase and installation of replacement power washers at Allentown & Easton garages.	Federal	\$ 960,000	\$ 1,000,000	\$ 1,040,000	\$ 1,280,000	\$ 4,280,000
	State	\$ -	\$ -	\$ -	\$ -	\$ -
	Local	\$ 240,000	\$ 250,000	\$ 260,000	\$ 320,000	\$ 1,070,000
	Total	\$ 1,200,000	\$ 1,250,000	\$ 1,300,000	\$ 1,600,000	\$ 5,350,000
<b>Preventive Maintenance (Federal)</b> Funding used toward Preventive Maintenance activities on LANta's transit vehicle fleet.	Federal	\$ 4,000,000	\$ 4,000,000	\$ 4,000,000	\$ 4,000,000	\$ 16,000,000
	State	\$ -	\$ -	\$ -	\$ -	\$ -
	Local	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 4,000,000
	Total	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 20,000,000
<b>ADA Paratransit Service Capitalization</b> Funding to cover a portion of operating expenses associated with the provision of Americans with Disabilities (ADA) paratransit service.	Federal	\$ 680,000	\$ 680,000	\$ 680,000	\$ 680,000	\$ 2,720,000
	State	\$ -	\$ -	\$ -	\$ -	\$ -
	Local	\$ 170,000	\$ 170,000	\$ 170,000	\$ 170,000	\$ 680,000
	Total	\$ 850,000	\$ 850,000	\$ 850,000	\$ 850,000	\$ 3,400,000
<b>Service Vehicle Replacement</b> LANta maintains a fleet of service vehicles for use in the conduct of daily duties. This line item includes funding for the replacement of five non-revenue service vehicles.	Federal	\$ 48,000	\$ 48,000	\$ 24,000	\$ -	\$ 120,000
	State	\$ -	\$ -	\$ -	\$ -	\$ -
	Local	\$ 12,000	\$ 12,000	\$ 6,000	\$ -	\$ 30,000
	Total	\$ 60,000	\$ 60,000	\$ 30,000	\$ -	\$ 150,000
<b>Planning/Programming Development</b> Includes administration of the grant program and preparation & maintenance of the TIP, public information activities, surveillance activities, transit system planning, programming of the annual program of projects, preparing input to regional planning documents, and special projects identified in the Unified Planning Work Program.	Federal	\$ 380,000	\$ 380,000	\$ 380,000	\$ 380,000	\$ 1,520,000
	State	\$ -	\$ -	\$ -	\$ -	\$ -
	Local	\$ 95,000	\$ 95,000	\$ 95,000	\$ 95,000	\$ 380,000
	Total	\$ 475,000	\$ 475,000	\$ 475,000	\$ 475,000	\$ 1,900,000

PROJECT NAME/DESCRIPTION	FUNDING SOURCE	Federal Fiscal	Federal Fiscal	Federal Fiscal	Federal Fiscal	TOTAL
		Year 2017	Year 2018	Year 2019	Year 2020	
<b>Heavy-Duty Bus Purchase</b> Over the 4-year period, 42 diesel buses will be replaced with either Hybrid Diesel-Electric buses or Compressed Natural Gas buses. Specific vehicles to be replaced will be based on condition of vehicles and recent maintenance history at time of arrival of replacement vehicles.	Federal	\$ 2,023,580	\$ 2,172,580	\$ 2,710,580	\$ 2,694,580	\$ 9,601,320
	State	\$ -	\$ -	\$ -	\$ -	\$ -
	Local	\$ 2,224,420	\$ 1,167,420	\$ 677,645	\$ 673,645	\$ 4,743,130
	Total	\$ 4,248,000	\$ 3,340,000	\$ 3,388,225	\$ 3,368,225	\$ 14,344,450
<b>LANta Fare Collection System</b> Funding is for a modernized fare collection system for LANtaBus and LANtaVan. These include hardware and software to allow for a multi-payment system to collect fares and sell fare material.	Federal	\$ 360,000	\$ 360,000	\$ -	\$ -	\$ 720,000
	State	\$ -	\$ -	\$ -	\$ -	\$ -
	Local	\$ 90,000	\$ 90,000	\$ -	\$ -	\$ 180,000
	Total	\$ 450,000	\$ 450,000	\$ -	\$ -	\$ 900,000
<b>Allentown Garage - Service Lane Building</b> Funding is for planning, design and engineering costs associated with a future Service Lane Building at LANta's Allentown Garage.	Federal	\$ -	\$ -	\$ -	\$ -	\$ -
	State	\$ -	\$ -	\$ -	\$ -	\$ -
	Local	\$ -	\$ 100,000	\$ 100,000	\$ -	\$ 200,000
	Total	\$ -	\$ 100,000	\$ 100,000	\$ -	\$ 200,000
<b>Easton Garage Renovations</b> Funding is for renovations to LANta's Easton Garage. Improvements include the replacement of the existing roof, repaving the parking lot and the purchase and installation of an emergency back-up power generator.	Federal	\$ -	\$ -	\$ -	\$ -	\$ -
	State	\$ -	\$ -	\$ -	\$ -	\$ -
	Local	\$ 275,000	\$ -	\$ -	\$ -	\$ 275,000
	Total	\$ 275,000	\$ -	\$ -	\$ -	\$ 275,000
<b>LANta Enhanced Bus/Bus Rapid Transit</b> Planning, design, engineering and construction of road treatment elements and other capital improvements of Phase I and II as recommended in the Lehigh Valley Enhanced Bus/Bus Rapid Transit Study and the addition of bus fleet expansion.	Federal	\$ -	\$ -	\$ -	\$ -	\$ -
	State	\$ -	\$ -	\$ -	\$ -	\$ -
	Local	\$ -	\$ -	\$ 3,455,000	\$ 7,690,000	\$ 11,145,000
	Total	\$ -	\$ -	\$ 3,455,000	\$ 7,690,000	\$ 11,145,000
<b>ITS and Security Project</b> Purchase/replace/upgrade communication or monitoring technology, computer hardware and software and servers, computers, printers and other computer technology for administration and operation of LANtaBus or LANtaVan systems.	Federal	\$ 75,420	\$ 75,420	\$ 75,420	\$ 75,420	\$ 301,680
	State	\$ -	\$ -	\$ -	\$ -	\$ -
	Local	\$ 18,855	\$ 18,855	\$ 18,855	\$ 18,855	\$ 75,420
	Total	\$ 94,275	\$ 94,275	\$ 94,275	\$ 94,275	\$ 377,100
<b>Sign, Shelters and Enhancements</b> Funding will be used to improve passenger amenities at heavily used bus stops and transit centers through the purchase, installation and maintenance of accurate and informative bus stop signs, passenger shelter waiting areas and benches.	Federal	\$ 160,000	\$ 160,000	\$ 160,000	\$ 160,000	\$ 640,000
	State	\$ -	\$ -	\$ -	\$ -	\$ -
	Local	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 160,000
	Total	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 800,000
<b>TOTAL - LANta</b>		<b>\$ 34,226,475</b>	<b>\$ 33,259,085</b>	<b>\$ 36,328,200</b>	<b>\$ 40,490,486</b>	<b>\$ 144,304,246</b>



Lehigh Valley Planning Commission



Lehigh Valley Transportation Study

Lehigh Valley Planning Commission / Lehigh Valley Transportation Study  
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