

ROADWAY EVALUATION

East Union Township

SCHUYLKILL COUNTY, PENNSYLVANIA

PREPARED FOR

East Union Township Supervisors

10 EAST ELM STREET
SHEPPTON, PA 18248

April 2021

PROJECT NO. 31195.02



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PURPOSE OF REPORT

The purpose of this report is to provide the East Union Township Supervisors with an assessment of roadways in the Township and to identify and prioritize recommended roadway improvements. This report also provides costs and potential funding sources for the repairs.

BACKGROUND

As a result of discussions with representatives of East Union Township Supervisors, it was determined that roadways listed below within East Union needed evaluation. These roadways consist of mostly dirt and minimally paved roads that need improvements to improve rideability and to reduce yearly maintenance costs. All roads were visited to evaluate existing conditions and identify potential pavement repairs.

ROADWAY EVALUATION

The sections of roadways that were evaluated and our observations of each are as follows. An overview of the indicated roads and photos of existing conditions are included in the appendix.

1. **West Cranberry Alley from Centre St. to Hemlock Springs Dr.** (1120 LF) – This roadway is a dirt road in need of a durable pavement surface to improve rideability and reduce yearly maintenance costs.
2. **East Cranberry Alley from Centre St. to Shepp St.** (250 LF) – This roadway is a dirt road in need of a durable pavement surface to improve rideability and reduce yearly maintenance costs.
3. **Girard Manor Rd. from Phineyville Rd. to Pole Rd.** (8750 LF) – This roadway is a dirt road in need of a durable pavement surface to improve rideability and reduce yearly maintenance costs. Swale improvements are also needed.
4. **Pumping Station Rd. from Main Blvd. (SR 924) to Pole Road** (2400 LF) – This roadway is a dirt road in need of a durable pavement surface to improve rideability and reduce yearly maintenance costs.
5. **Dombrowski Lane from Main Blvd. (SR 924) to Foose Lane** (924 LF) – This roadway is a dirt road in need of a durable pavement surface to improve rideability and reduce yearly maintenance costs.
6. **Trailer Rd. from Bridge to Main Blvd. (SR 924)** (1850 LF) – This roadway is a dirt road in need of a durable pavement surface to improve rideability and reduce yearly maintenance costs.
7. **Foose Lane from Bridge to Paved Section** (1500 LF) – This roadway is a dirt road in need of a durable pavement surface to improve rideability and reduce yearly maintenance costs.
8. **Old Mill Road from Bridge to Green Mountain Road** (1030 LF) - This roadway is a dirt road in need of a durable pavement surface to improve rideability and reduce yearly maintenance costs.

9. **Swanks Grove Road** (1100 LF) - This roadway is a dirt road in need of a durable pavement surface to improve rideability and reduce yearly maintenance costs.

ROADWAY EVALUATION CONCLUSION

The observations in this report provide comprehensive overview of the conditions of the indicated roadways within East Union. Recommendations are intended to provide solutions to many recurring problems along the roadway. This report can be utilized for East Union Township Supervisors' decision-making process on roadway improvements.

ROAD PROJECT RECOMMENDATIONS

The roadways indicated below have been prioritized by their need for improvements. Suggested recommendations are as follows:

1. **West Cranberry Lane** – Surface Prep to fill potholes with modified. FB-Modified Overlay and Double Asphalt Seal Coat over the roadway.
2. **East Cranberry Lane** – Surface Prep to fill potholes with modified. FB-Modified Overlay and Double Asphalt Seal Coat over the roadway.
3. **Girard Manor Road** – FB-Modified Leveling, FB-Modified Overlay, and Double Asphalt Seal Coat over the roadway. Scattered Subgrade Repairs (12 #3's and 4" 2A Modified) and #4s in Shoulders as specified.
4. **Pumping Station Road** – Paver Placed 2A Modified, AEP Prime Coat Application, FB-Modified Overlay, and Double Asphalt Seal Coat over specified section. Scattered Subgrade Repairs (12 #3's and 4" 2A Modified) and #4s in Shoulders as specified.
5. **Dombrowski Lane** – Surface Prep to apply fine grading and scrape soft areas. Paver Placed 2A Modified, AEP Prime Coat Application, FB-Modified Overlay, and Double Asphalt Seal Coat over the roadway. Scattered Subgrade Repairs (12 #3's) as specified.
6. **Trailer Road** – Surface Prep to apply fine grading and scrape soft areas. Paver Placed 2A Modified, AEP Prime Coat Application, FB-Modified Overlay, and Double Asphalt Seal Coat over the roadway.
7. **Foose Lane** – Surface Prep to apply fine grading and scrape soft areas. Paver Placed 2A Modified, AEP Prime Coat Application, FB-Modified Overlay, and Double Asphalt Seal Coat over the roadway.
8. **Old Mill Road** – Paver Placed 2A Modified, AEP Prime Coat Application, FB-Modified Overlay, and Double Asphalt Seal Coat over the roadway.
9. **Swanks Grove Road** – Paver Placed 2A Modified, AEP Prime Coat Application, FB-Modified Overlay, and Double Asphalt Seal Coat over the roadway.

Proposed roadway improvement repair areas shown on aerials and cost estimates are included in the appendix. A Pennsylvania One-Call ticket will be completed to identify any utilities in the evaluated locations once the Supervisors authorize the project. Responses from utility companies and a notification letter will be sent to all utilities included in the appendix.

UTILITY CUT AND EXCAVATION ORDINANCE RECOMMENDATIONS

Utilities will be contacted upon approval of the project by East Union Township Supervisors.

POTENTIAL FUNDING SOURCES

Due to the scope of work described in the project recommendations, it is anticipated that outside sources of funding will be required. These may include:

1. **CFA Multimodal Transportation Fund** – These funds are administered by the PA-DCED. The grant award ranges from \$100,000 to \$3 million. A 30% local match is typically required, but this requirement has been waived through the end of 2020. Applications are due between March 1st and July 31st of each year, but due to COVID-19, the application period for 2020 has been extended to September 30th.
2. **PennDOT Multimodal Transportation Fund** – These funds are administered separately from the CFA MTF by PennDOT. The grant award ranges from \$100,000 to \$3 million. A 30% local match is required and may include general funds, liquid fuels tax, Act 13 impact fees, and other statutorily allocated municipal fees/taxes. Applications are usually due in October of each year, but due to COVID-19, the deadline is uncertain.
3. **Transportation Alternatives** – This program provides funding for sidewalks, walking lanes, streetscapes, and other projects defined as transportation alternatives. It is not applicable to roadway construction. Grant awards range from \$50,000 to \$1 million. Application deadline varies from year to year.
4. **Other Small Programs** – Various annual programs announced each year. These funding sources provide small awards and are typically not practical for large scale projects.
5. **Stimulus Funds** – From time to time, stimulus funding is allocated at the state and federal levels. None of these funds are currently available.
6. **PIB Loan** – Pennsylvania Infrastructure Bank Loan. This is a low interest loan that can be paid back over a period of 10 years with Liquid Fuels funds.

COST ESTIMATE SUMMARY

The following table provides an overview of the total cost for each roadway. Detailed cost breakdowns are provided in the appendix.

SUMMARY OF OVERALL COSTS	
West Cranberry Lane	<i>\$37,000</i>
East Cranberry Lane	<i>\$12,000</i>
Girard Manor Rd.	<i>\$455,000</i>
Pumping Station Rd.	<i>\$107,000</i>
Dombrowski Lane	<i>\$41,000</i>
Trailer Rd.	<i>\$86,000</i>
Foose Lane	<i>\$71,000</i>
Old Mill Rd.	<i>\$70,000</i>
Swanks Grove Rd.	<i>\$49,000</i>
<u>TOTAL</u>	\$928,000

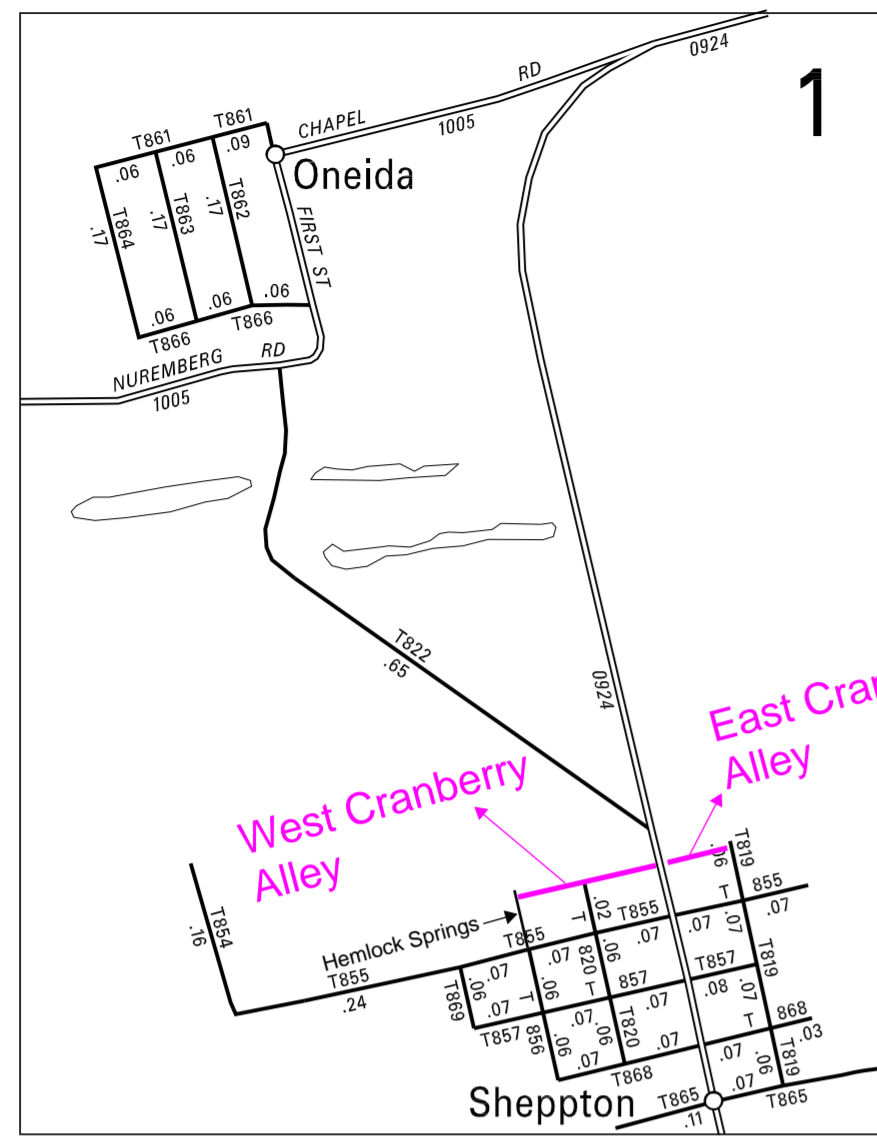
OVERVIEW OF ROADWAYS

TOTAL MILES	
Township Road System	22.89*
State Highway System	13.44
Total	36.33

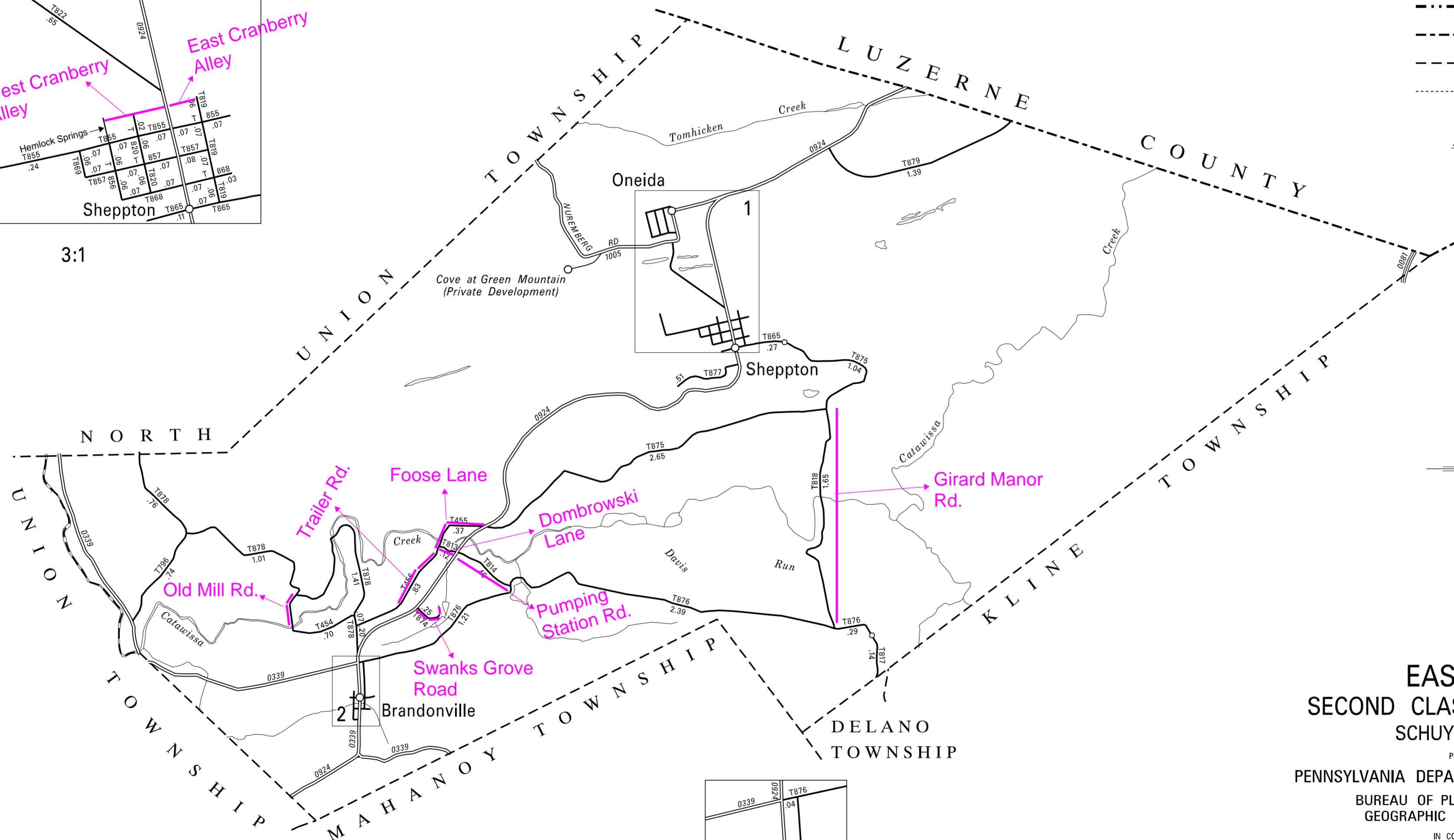
* Includes ACT 32 Turnback Mileage of 7.96

LEGEND

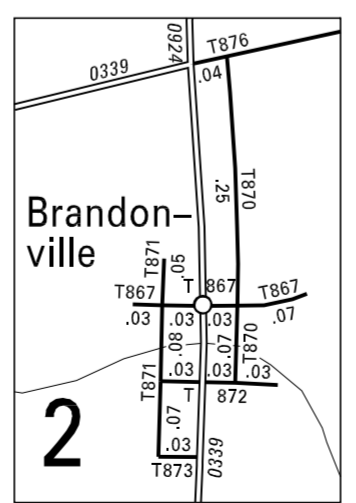
- LIMITED ACCESS HIGHWAY
- STATE ROUTE AND NUMBER
- STATE MAINTAINED BRIDGE ON TOWNSHIP ROAD
- TOWNSHIP ROAD, NUMBER AND SEGMENT LENGTH IN MILES
- IMPASSABLE TOWNSHIP ROAD
- OTHER ROAD
- RAILROAD (IN SERVICE)
- RAILROAD ABANDONED (TRACK RETAINED)
- STATE BOUNDARY
- COUNTY BOUNDARY
- TOWNSHIP BOUNDARY
- CITY OR BOROUGH BOUNDARY
- MUNICIPAL BUILDING
- SPLIT MILEAGE BETWEEN MUNICIPALITIES



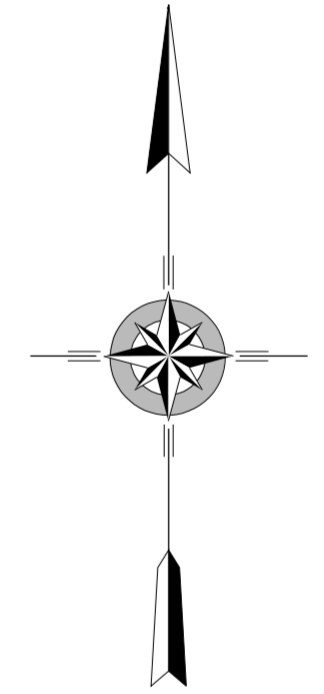
3:1



- 454 OLD MILL RD
- 455 FOOSE LA
- 456 TRAILER RD
- 796 KUNKELS HILL RD
- 813 DOMBROWSKI LA
- 814 PUMPING STATION RD
- 817 PARK PLACE
- 818 GIRARD MANOR RD
- 819 SHEPP ST
- 820 FRANKLIN ST
- 822 SCHOOL HOUSE RD
- 854 CEMETERY RD
- 855 PINE ST
- 856 WASHINGTON ST
- 857 MARKET ST
- 861 NORTH ST
- 862 SECOND ST
- 863 THIRD ST
- 864 FOURTH ST
- 865 BRANDON ST
- 866 SOUTH ST
- 867 PARK AV
- 868 OAK ST
- 869 DEFRAIN ST
- 870 SECOND BLVD
- 871 FOURTH BLVD
- 872 SPRUCE ST
- 873 IRON ST
- 874 SWANKS GROVE RD
- 875 PHINEYVILLE RD
- 876 POLE RD
- 877 MOUNTAIN DR
- 878 GREEN MOUNTAIN RD
- 879 GREEN MOUNTAIN RD (HUMBOLDT)



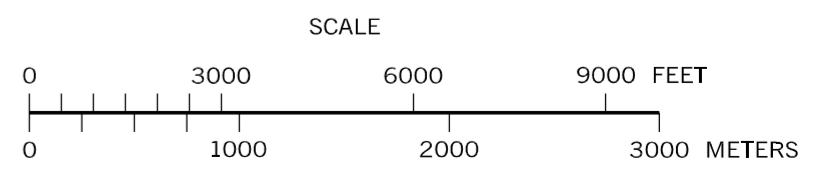
3:1



**EAST UNION
SECOND CLASS TOWNSHIP MAP
SCHUYLKILL COUNTY**

PREPARED BY THE
PENNSYLVANIA DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING AND RESEARCH
GEOGRAPHIC INFORMATION DIVISION
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
MUNICIPAL CODE 53 209

REVISED PER FORM 990 DATED 12-7-01



PHOTOS OF EXISTING CONDITIONS



West Cranberry Lane



East Cranberry Lane



Girard Manor Rd



Pumping Station Rd



Dombrowski Lane



Trailer Rd



Foose Rd

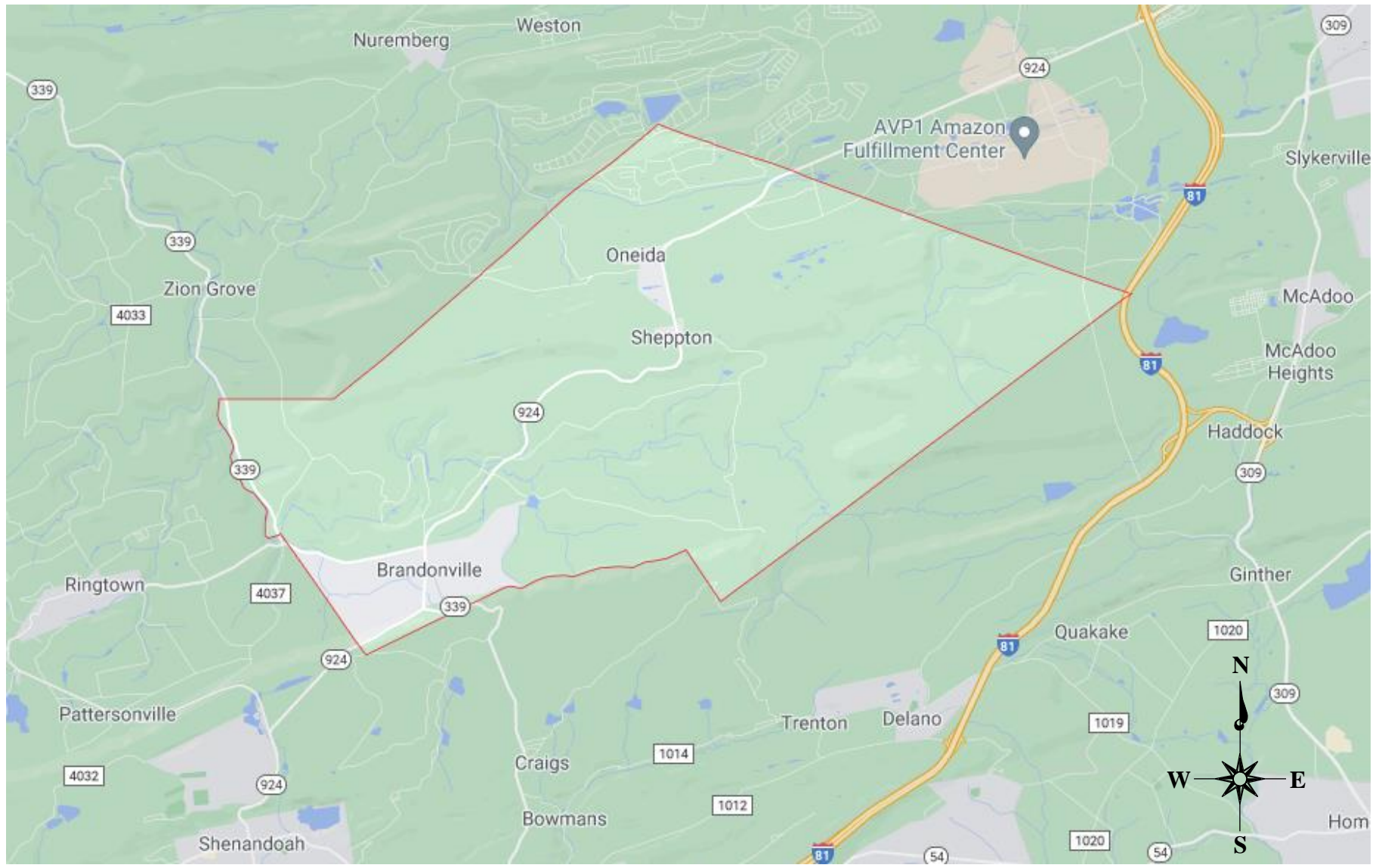


Old Mill Rd



Swanks Grove Rd

REPAIR MAPS



East Union Township Road Evaluation 2021

East Union Township,
Schuylkill County, Pennsylvania



Alfred Benesch & Company
Wilkes Barre, Pennsylvania
(570) 914-9030

Date
4/20/2021

Dwn
PPC

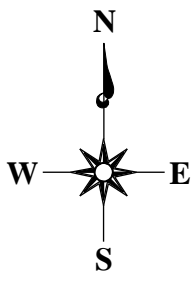
Scale
NTS

PRJ #
31195.02

Location Map

FIGURE

1



Legend

 - Roadway Rehabilitation



East Union Township Road Evaluation 2021

Borough of West Hazleton,
Luzerne County, Pennsylvania



Alfred Benesch & Company
Wilkes Barre, Pennsylvania
(570) 914-9030

Date
4/20/2021

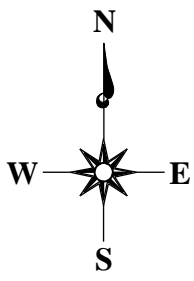
Dwn
PPC

Scale
NTS

PRJ #
31195.02

West Cranberry

FIGURE
2



Legend



-Roadway Rehabilitation



**East Union Township
Road Evaluation 2021**

Borough of West Hazleton,
Luzerne County, Pennsylvania



Alfred Benesch & Company
Wilkes Barre, Pennsylvania
(570) 914-9030

Date
4/20/2021

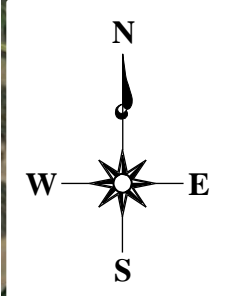
Dwn
PPC

Scale
NTS

PRJ #
31195.02

East Cranberry

FIGURE
3



Legend

 - Roadway Rehabilitation

**East Union Township
Road Evaluation 2021**

**Borough of West Hazleton,
Luzerne County, Pennsylvania**



Alfred Benesch & Company
Wilkes Barre, Pennsylvania
(570) 914-9030

Date
4/20/2021

Dwn
PPC

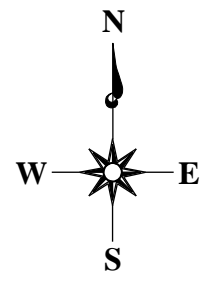
Scale
NTS

PRJ #
31195.02


Girard Manor Rd

FIGURE

4



Legend

 -Roadway Rehabilitation



**East Union Township
Road Evaluation 2021**

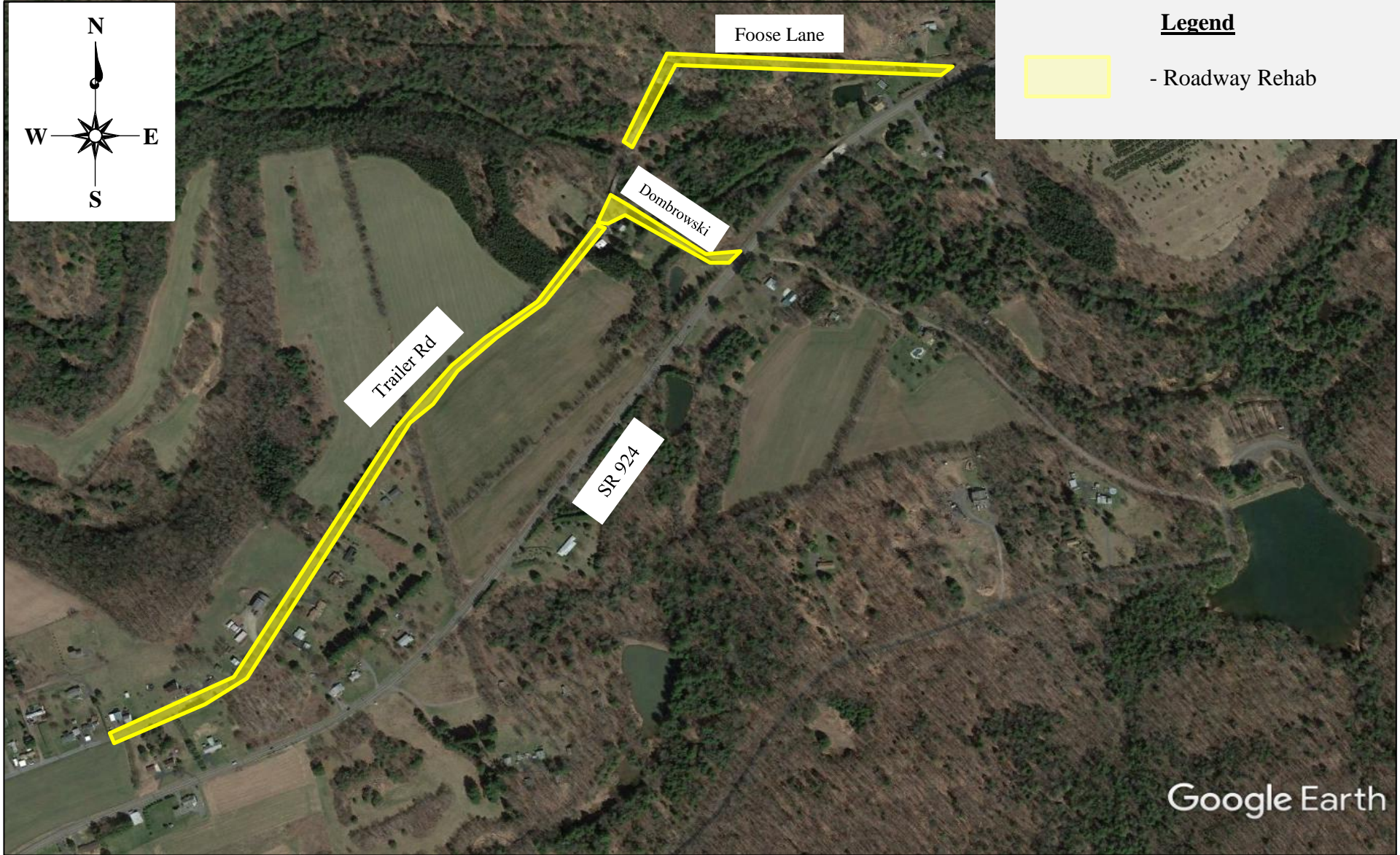
Borough of West Hazleton,
Luzerne County, Pennsylvania

 **benesch** Alfred Benesch & Company
Wilkes Barre, Pennsylvania
(570) 914-9030

Date 4/20/2021	Dwn PPC
Scale NTS	PRJ # 31195.02

Pumping Station

FIGURE
5



East Union Township Road Evaluation 2021

Borough of West Hazleton,
 Luzerne County, Pennsylvania



benesch

Alfred Benesch & Company
 Wilkes Barre, Pennsylvania
 (570) 914-9030

Date
 4/20/2021

Dwn
 PPC

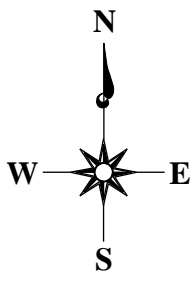
Scale
 NTS

PRJ #
 31195.02

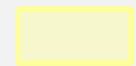
**Foose, Dombrowski,
 and Trailer**

FIGURE

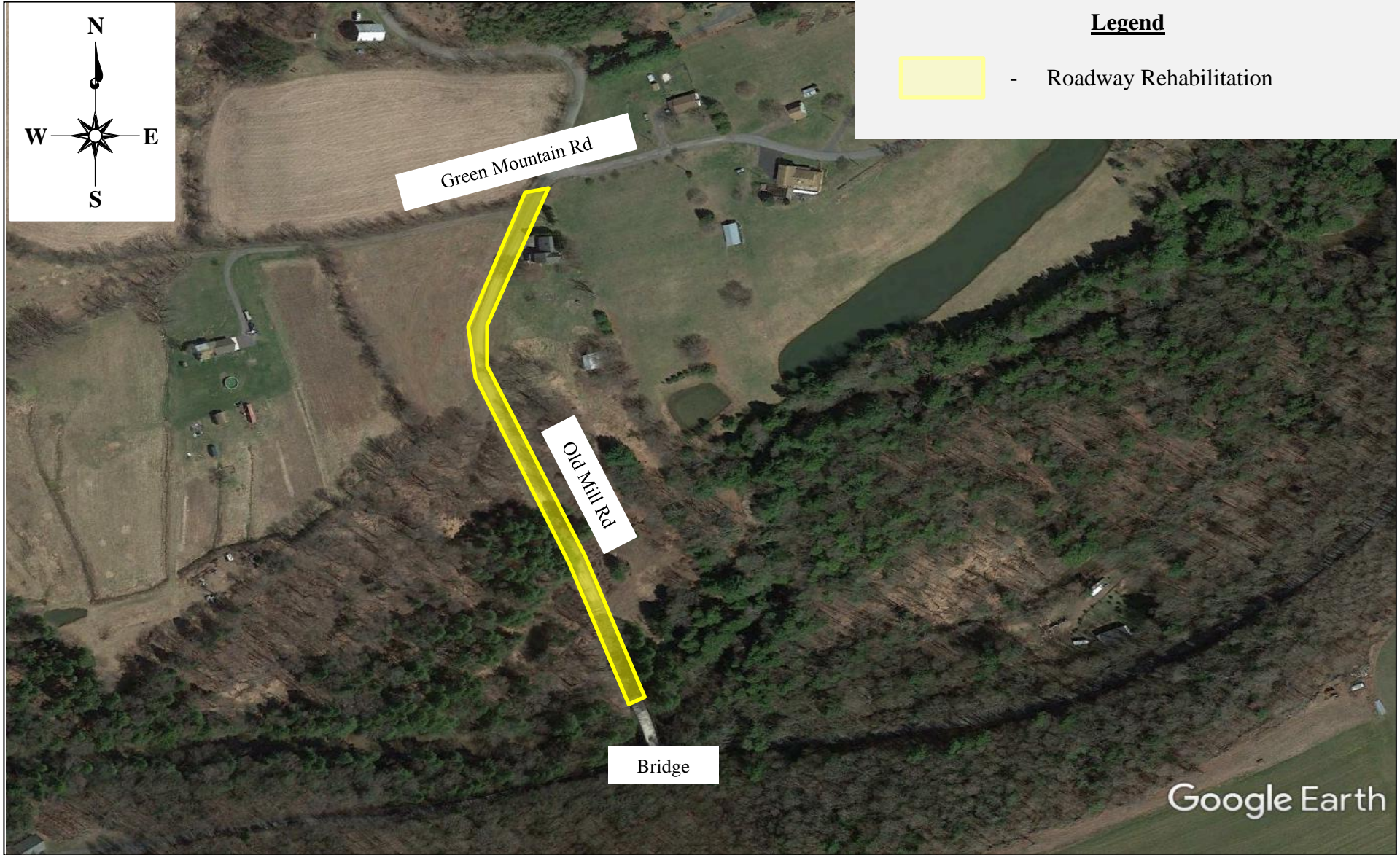
10



Legend



- Roadway Rehabilitation



Green Mountain Rd

Old Mill Rd

Bridge

Google Earth

**East Union Township
Road Evaluation 2021**

Borough of West Hazleton,
Luzerne County, Pennsylvania



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Alfred Benesch & Company
Wilkes Barre, Pennsylvania
(570) 914-9030

Date
4/20/2021

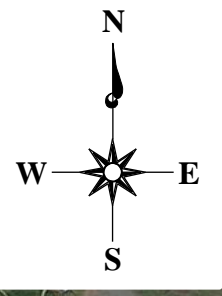
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Scale
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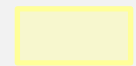
PRJ #
31195.02

Old Mill Rd

FIGURE
9



SR 924



Legend
- Roadway Rehabilitation

Swanks Grove Rd

Google Earth

East Union Township Road Evaluation 2021

Borough of West Hazleton,
Luzerne County, Pennsylvania



Alfred Benesch & Company
Wilkes Barre, Pennsylvania
(570) 914-9030

Date
4/20/2021

Dwn
PPC

Scale
NTS

PRJ #
31195.02

Swank Groves Rd

FIGURE
10

COST ESTIMATE BREAKDOWN

East Union Township (Luzerne County)
CDBG Roadway Paving - 2021
\$928,000.00

West Cranberry Lane from Centre St. to Hemlock Springs Dr. (1120 LF)					
Item No.	Bid	Unit	Item Title	Unit Price (\$)	Total Amount (\$)
	1	EACH	Surface Prep	\$ 3,000.00	\$ 3,000.00
	1493	SY	FB-Modified Overlay, 2.5" Depth	\$ 14.50	\$ 21,648.50
	1493	SY	Double Asphalt Seal Coat	\$ 3.75	\$ 5,598.75
					\$ -
					\$ -
					\$ -
					\$ -
					\$ -
					\$ -
					\$ -
					\$ -
				Subtotal	\$ 30,247.25
				Construction Contingencies 5%	\$ 1,512.36
				Total	\$ 31,759.61
				Engineering 10%	\$ 3,175.96
				Inspection 6%	\$ 1,905.58
				<u>2021 COST ESTIMATE</u>	\$ 36,841.15
					SAY \$ 37,000.00

East Union Township (Luzerne County)
CDBG Roadway Paving - 2021
\$928,000.00

East Cranberry Lane from Centre St. to Shepp St. (250 LF)					
Item No.	Bid	Unit	Item Title	Unit Price (\$)	Total Amount (\$)
	1	EACH	Surface Prep	\$ 3,000.00	\$ 3,000.00
	333	SY	FB-Modified Overlay, 2.5" Depth	\$ 14.50	\$ 4,828.50
	467	SY	Double Asphalt Seal Coat	\$ 3.75	\$ 1,751.25
					\$ -
					\$ -
					\$ -
					\$ -
					\$ -
Subtotal				\$	9,579.75
Construction Contingencies 5%				\$	478.99
Total				\$	10,058.74
Engineering 10%				\$	1,005.87
Inspection 6%				\$	603.52
<u>2021 COST ESTIMATE</u>				\$	11,668.14
SAY					\$ 12,000.00

East Union Township (Luzerne County)
CDBG Roadway Paving - 2021
\$928,000.00

Girard Manor Rd. from Phineyville Rd. to Pole Rd. (8750 LF)					
Item No.	Bid	Unit	Item Title	Unit Price (\$)	Total Amount (\$)
	16126	SY	FB-Modified Overlay, 2.5" Depth	\$ 14.50	\$ 233,827.00
	4356	SY	FB-Modified Leveling, 1.25" Depth	\$ 7.50	\$ 32,670.00
	16126	SY	Double Asphalt Seal Coat	\$ 3.75	\$ 60,472.50
	350	SY	16" Subgrade Repairs (12 #3's and 4' 2A Modified)	\$ 25.00	\$ 8,750.00
	2500	LF	#4's in Shoulders	\$ 15.00	\$ 37,500.00
					\$ -
					\$ -
					\$ -
					\$ -
					\$ -
					\$ -
					\$ -
					\$ -
			Subtotal	\$	<i>373,219.50</i>
			Construction Contingencies 5%	\$	<i>18,660.98</i>
			Total	\$	<i>391,880.48</i>
			Engineering 10%	\$	<i>39,188.05</i>
			Inspection 6%	\$	<i>23,512.83</i>
			<u>2021 COST ESTIMATE</u>	\$	454,581.35
				SAY	\$ 455,000.00

East Union Township (Luzerne County)
CDBG Roadway Paving - 2021
\$928,000.00

Pumping Station Rd. from Main Blvd. (SR 924) to Pole Road (2400 LF)					
Item No.	Bid	Unit	Item Title	Unit Price (\$)	Total Amount (\$)
	3200	SY	FB-Modified Overlay, 2.5" Depth	\$ 14.50	\$ 46,400.00
	2400	SY	Paver Placed 2A Modified, 4" Depth	\$ 7.85	\$ 18,840.00
	2400	SY	AEP Prime Coat Application	\$ 1.30	\$ 3,120.00
	3200	SY	Double Asphalt Seal Coat	\$ 3.75	\$ 12,000.00
	267	SY	16" Subgrade Repairs (12 #3's and 4' 2A Modified)	\$ 25.00	\$ 6,675.00
					\$ -
					\$ -
					\$ -
					\$ -
Subtotal				\$	87,035.00
Construction Contingencies 5%				\$	4,351.75
Total				\$	91,386.75
Engineering 10%				\$	9,138.68
Inspection 6%				\$	5,483.21
<u>2021 COST ESTIMATE</u>				\$	106,008.63

*- Additional Funds needed for RR crossing through PennDOT.

SAY \$ 107,000.00

Dombrowski Lane from Main Blvd. (SR 924) to Foose Lane (924 LF)					
Item No.	Bid	Unit	Item Title	Unit Price (\$)	Total Amount (\$)
	1	EACH	Surface Prep	\$ 3,000.00	\$ 3,000.00
	933	SY	FB-Modified Overlay, 2.5" Depth	\$ 14.50	\$ 13,528.50
	933	SY	Paver Placed 2A Modified, 4" Depth	\$ 7.85	\$ 7,324.05
	933	SY	AEP Prime Coat Application	\$ 1.30	\$ 1,212.90
	933	SY	Double Asphalt Seal Coat	\$ 3.75	\$ 3,498.75
	200	SY	12" Subgrade Repairs (12 #3's)	\$ 25.00	\$ 5,000.00
					\$ -
					\$ -
Subtotal				\$	33,564.20
Construction Contingencies 5%				\$	1,678.21
Total				\$	35,242.41
Engineering 10%				\$	3,524.24
Inspection 6%				\$	2,114.54
<u>2021 COST ESTIMATE</u>				\$	40,881.20

SAY \$ 41,000.00

East Union Township (Luzerne County)
CDBG Roadway Paving - 2021
\$928,000.00

Trailer Rd. from Bridge to Main Blvd. (SR 924) (1850 LF)					
Item No.	Bid	Unit	Item Title	Unit Price (\$)	Total Amount (\$)
	1	EACH	Surface Prep	\$ 3,000.00	\$ 3,000.00
	2467	SY	FB-Modified Overlay, 2.5" Depth	\$ 14.50	\$ 35,771.50
	2467	SY	Paver Placed 2A Modified, 4" Depth	\$ 7.85	\$ 19,365.95
	2467	SY	AEP Prime Coat Application	\$ 1.30	\$ 3,207.10
	2467	SY	Double Asphalt Seal Coat	\$ 3.75	\$ 9,251.25
					\$ -
					\$ -
					\$ -
					\$ -
					\$ -
Subtotal				\$	70,595.80
Construction Contingencies 5%				\$	3,529.79
Total				\$	74,125.59
Engineering 10%				\$	7,412.56
Inspection 6%				\$	4,447.54
<u>2021 COST ESTIMATE</u>				\$	85,985.68
SAY					\$ 86,000.00

Foose Lane from Bridge to Paved Section (1500 LF)					
Item No.	Bid	Unit	Item Title	Unit Price (\$)	Total Amount (\$)
	1	EACH	Surface Prep	\$ 3,000.00	\$ 3,000.00
	2000	SY	FB-Modified Overlay, 2.5" Depth	\$ 14.50	\$ 29,000.00
	2000	SY	Paver Placed 2A Modified, 4" Depth	\$ 7.85	\$ 15,700.00
	2000	SY	AEP Prime Coat Application	\$ 1.30	\$ 2,600.00
	2000	SY	Double Asphalt Seal Coat	\$ 3.75	\$ 7,500.00
					\$ -
					\$ -
					\$ -
					\$ -
Subtotal				\$	57,800.00
Construction Contingencies 5%				\$	2,890.00
Total				\$	60,690.00
Engineering 10%				\$	6,069.00
Inspection 6%				\$	3,641.40
<u>2021 COST ESTIMATE</u>				\$	70,400.40
SAY					\$ 71,000.00

East Union Township (Luzerne County)
CDBG Roadway Paving - 2021
\$928,000.00

Old Mill Road from Bridge to Green Mountain Road (1030 LF)					
Item No.	Bid	Unit	Item Title	Unit Price (\$)	Total Amount (\$)
	2041	SY	FB-Modified Overlay, 2.5" Depth	\$ 14.50	\$ 29,594.50
	2041	SY	Paver Placed 2A Modified, 4" Depth	\$ 7.85	\$ 16,021.85
	2041	SY	AEP Prime Coat Application	\$ 1.30	\$ 2,653.30
	2397	SY	Double Asphalt Seal Coat	\$ 3.75	\$ 8,988.75
					\$ -
					\$ -
					\$ -
					\$ -
					\$ -
					\$ -
			Subtotal	\$	57,258.40
			Construction Contingencies 5%	\$	2,862.92
			Total	\$	60,121.32
			Engineering 10%	\$	6,012.13
			Inspection 6%	\$	3,607.28
			<u>2021 COST ESTIMATE</u>	\$	69,740.73
				SAY	\$ 70,000.00

East Union Township (Luzerne County)
CDBG Roadway Paving - 2021
\$928,000.00

Swanks Grove Road (1100 LF)					
Item No.	Bid	Unit	Item Title	Unit Price (\$)	Total Amount (\$)
	1467	SY	FB-Modified Overlay, 2.5" Depth	\$ 14.50	\$ 21,271.50
	1467	SY	Paver Placed 2A Modified, 4" Depth	\$ 7.85	\$ 11,515.95
	1467	SY	AEP Prime Coat Application	\$ 1.30	\$ 1,907.10
	1467	SY	Double Asphalt Seal Coat	\$ 3.75	\$ 5,501.25
					\$ -
					\$ -
					\$ -
					\$ -
					\$ -
			Subtotal	\$	40,195.80
			Construction Contingencies 5%	\$	2,009.79
			Total	\$	42,205.59
			Engineering 10%	\$	4,220.56
			Inspection 6%	\$	2,532.34
			<u>2021 COST ESTIMATE</u>	\$	48,958.48
			SAY	\$	49,000.00