

APPENDIX I

Cost Estimates



Estimate US 42 NB LT

Estimated Cost:\$189,639.57

Contingency: 16.80%

Estimated Total: \$221,499.02

US 42 and Township Line Rd
Northbound Left Turn Lane
Mid-Point Construction Spring 2027
Inflation 16.8%

Base Date: 01/17/24

Spec Year: 23

Unit System: E

Work Type: ASPHALT

Highway Type:

Urban/Rural Type: URBAN CLASS

Season: SPRING

County: WARREN

Latitude of Midpoint: 0

Longitude of Midpoint: 0

District: 08

Federal/State Project Number:

Prepared by Matt Hebebrand on 01/17/24

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Group 0010: Items of Work

0001	254E01000	3,409.000	SY	\$5.08719	\$17,342.23
PAVEMENT PLANING, ASPHALT CONCRETE					
0002	301E56000	35.000	CY	\$359.55602	\$12,584.46
ASPHALT CONCRETE BASE, PG64-22, (449)					
0003	304E20000	35.000	CY	\$106.71638	\$3,735.07
AGGREGATE BASE					
0004	407E20000	398.000	GAL	\$3.94384	\$1,569.65
NON-TRACKING TACK COAT					
0005	441E50000	126.000	CY	\$300.00000	\$37,800.00
ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22					
0006	441E50300	176.000	CY	\$250.00000	\$44,000.00
ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)					
0007	630E03100	39.000	FT	\$17.95503	\$700.25
GROUND MOUNTED SUPPORT, NO. 3 POST					
0008	630E80100	36.000	SF	\$26.82137	\$965.57
SIGN, FLAT SHEET					
0009	642E50040	1.000	LS	\$1,000.00000	\$1,000.00
PAVEMENT MARKING, MISC.: PAVEMENT MARKING					

Total for Group 0010:\$119,697.23

Group 0020: Incidentals

0010	614E11000	1.000	LS	\$10,000.00000	\$10,000.00
MAINTAINING TRAFFIC					
0011	619E16000	3.000	MNTH	\$1,980.77921	\$5,942.34
FIELD OFFICE, TYPE A					
0012	623E10000	1.000	LS	\$20,000.00000	\$20,000.00
CONSTRUCTION LAYOUT STAKES AND SURVEYING					
0013	624E10000	1.000	LS	\$4,000.00000	\$4,000.00
MOBILIZATION					
0014	690E21000	1.000	LS	\$30,000.00000	\$30,000.00
SPECIAL - 25% Design Contingency					

Total for Group 0020:\$69,942.34

Estimate Middle Round

Estimated Cost:\$1,206,509.40

Contingency: 28.10%

Estimated Total: \$1,545,538.54

US 42 and Middletown Rd
Single Lane Roundabout
Mid-Point Construction Spring 2030
Inflation 28.1%

Base Date: 01/17/24

Spec Year: 23

Unit System: E

Work Type: ASPHALT

Highway Type:

Urban/Rural Type: URBAN CLASS

Season: SPRING

County: WARREN

Latitude of Midpoint: 0

Longitude of Midpoint: 0

District: 08

Federal/State Project Number:

Prepared by Matt Hebebrand on 01/17/24

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Group 0010: Items of Work

0001	202E23000	1,047.000	SY	\$18.50844	\$19,378.34
PAVEMENT REMOVED					
0002	203E10000	396.000	CY	\$32.78133	\$12,981.41
EXCAVATION					
0003	203E20000	33,333.000	CY	\$9.94305	\$331,431.69
EMBANKMENT					
0004	301E56000	557.000	CY	\$211.68061	\$117,906.10
ASPHALT CONCRETE BASE, PG64-22, (449)					
0005	304E20000	628.000	CY	\$76.16904	\$47,834.16
AGGREGATE BASE					
0006	407E20000	367.000	GAL	\$3.94710	\$1,448.59
NON-TRACKING TACK COAT					
0007	441E50000	116.000	CY	\$300.00000	\$34,800.00
ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22					
0008	441E50300	162.000	CY	\$250.00000	\$40,500.00
ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)					
0009	452E12010	428.000	SY	\$116.17337	\$49,722.20
8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P					
0010	609E14000	628.000	FT	\$12.44151	\$7,813.27
CURB, TYPE 2-A					
0011	609E26000	1,780.000	FT	\$38.15761	\$67,920.55
CURB, TYPE 6					
0012	609E72000	222.000	SY	\$108.93315	\$24,183.16
CONCRETE MEDIAN					
0013	611E05900	160.000	FT	\$122.77439	\$19,643.90
15" CONDUIT, TYPE B					
0014	611E98180	8.000	EACH	\$3,735.00551	\$29,880.04
CATCH BASIN, NO. 3A					
0015	630E03100	208.000	FT	\$14.74526	\$3,067.01
GROUND MOUNTED SUPPORT, NO. 3 POST					
0016	630E80100	132.000	SF	\$24.67988	\$3,257.74
SIGN, FLAT SHEET					
0017	642E50040	1.000	LS	\$2,500.00000	\$2,500.00
PAVEMENT MARKING, MISC.:					

Line #	Item Number	Quantity	Units	Unit Price	Extension
Description					
Supplemental Description					
PAVEMENT MARKING					
Total for Group 0010:					\$814,268.16
Group 0020: Incidentals					
0018	614E11000	1.000	LS	\$30,000.00000	\$30,000.00
MAINTAINING TRAFFIC					
0019	619E16010	6.000	MNTH	\$2,040.20619	\$12,241.24
FIELD OFFICE, TYPE B					
0020	623E10000	1.000	LS	\$120,000.00000	\$120,000.00
CONSTRUCTION LAYOUT STAKES AND SURVEYING					
0021	624E10000	1.000	LS	\$40,000.00000	\$40,000.00
MOBILIZATION					
0022	690E21000	1.000	LS	\$190,000.00000	\$190,000.00
SPECIAL - 25% Design Contingency					
Total for Group 0020:					\$392,241.24

Estimate US 42 RT OUT

Estimated Cost:\$100,783.43

Contingency: 6.80%

Estimated Total: \$107,636.70

US 42 and Township Line Rd
Right Out Only Operation
Mid-Point Construction Spring 2025
Inflation 6.8%

Base Date: 01/17/24

Spec Year: 23

Unit System: E

Work Type: ASPHALT

Highway Type:

Urban/Rural Type: URBAN CLASS

Season: SPRING

County: WARREN

Latitude of Midpoint: 0

Longitude of Midpoint: 0

District: 08

Federal/State Project Number:

Prepared by Matt Hebebrand on 01/17/24

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Group 0010: Items of Work

0001	202E23000	87.000	SY	\$34.96996	\$3,042.39
PAVEMENT REMOVED					
0002	254E01000	1,755.000	SY	\$5.91041	\$10,372.77
PAVEMENT PLANING, ASPHALT CONCRETE					
0003	407E20000	193.000	GAL	\$3.97298	\$766.79
NON-TRACKING TACK COAT					
0004	441E50000	61.000	CY	\$300.00000	\$18,300.00
ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22					
0005	441E50300	85.000	CY	\$250.00000	\$21,250.00
ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)					
0006	630E03100	91.000	FT	\$16.25146	\$1,478.88
GROUND MOUNTED SUPPORT, NO. 3 POST					
0007	630E80100	63.000	SF	\$25.87712	\$1,630.26
SIGN, FLAT SHEET					

Total for Group 0010:\$56,841.09

Group 0020: Incidentals

0008	614E11000	1.000	LS	\$10,000.00000	\$10,000.00
MAINTAINING TRAFFIC					
0009	619E16000	3.000	MNTH	\$1,980.77921	\$5,942.34
FIELD OFFICE, TYPE A					
0010	623E10000	1.000	LS	\$9,000.00000	\$9,000.00
CONSTRUCTION LAYOUT STAKES AND SURVEYING					
0011	624E10000	1.000	LS	\$4,000.00000	\$4,000.00
MOBILIZATION					
0012	690E21000	1.000	LS	\$15,000.00000	\$15,000.00
SPECIAL - 25% Design Contingency					

Total for Group 0020:\$43,942.34

Estimate CDS

Estimated Cost:\$158,979.32

Contingency: 6.80%

Estimated Total: \$169,789.91

US 42 and Middletown Rd
Close West Leg of Middletown Rd
Mid-Point Construction Spring 2025
Inflation 6.8%

Base Date: 01/17/24

Spec Year: 23

Unit System: E

Work Type: ASPHALT

Highway Type:

Urban/Rural Type: URBAN CLASS

Season: SPRING

County: WARREN

Latitude of Midpoint: 0

Longitude of Midpoint: 0

District: 08

Federal/State Project Number:

Prepared by Matt Hebebrand on 01/17/24

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Group 0010: Items of Work

0001	202E23000	475.000	SY	\$22.65472	\$10,760.99
PAVEMENT REMOVED					
0002	254E01000	1,051.000	SY	\$6.63621	\$6,974.66
PAVEMENT PLANING, ASPHALT CONCRETE					
0003	301E56000	105.000	CY	\$291.35359	\$30,592.13
ASPHALT CONCRETE BASE, PG64-22, (449)					
0004	304E20000	108.000	CY	\$93.55674	\$10,104.13
AGGREGATE BASE					
0005	407E20000	186.000	GAL	\$3.97447	\$739.25
NON-TRACKING TACK COAT					
0006	441E50000	59.000	CY	\$300.00000	\$17,700.00
ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22					
0007	441E50300	82.000	CY	\$250.00000	\$20,500.00
ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)					
0008	630E03100	39.000	FT	\$17.95503	\$700.25
GROUND MOUNTED SUPPORT, NO. 3 POST					
0009	630E80100	36.000	SF	\$26.82137	\$965.57
SIGN, FLAT SHEET					

Total for Group 0010:\$99,036.98

Group 0020: Incidentals

0010	614E11000	1.000	LS	\$10,000.00000	\$10,000.00
MAINTAINING TRAFFIC					
0011	619E16000	3.000	MNTH	\$1,980.77921	\$5,942.34
FIELD OFFICE, TYPE A					
0012	623E10000	1.000	LS	\$15,000.00000	\$15,000.00
CONSTRUCTION LAYOUT STAKES AND SURVEYING					
0013	624E10000	1.000	LS	\$4,000.00000	\$4,000.00
MOBILIZATION					
0014	690E21000	1.000	LS	\$25,000.00000	\$25,000.00
SPECIAL - 25% Design Contingency					

Total for Group 0020:\$59,942.34

Estimate US42 Town Round

Estimated Cost:\$1,480,213.23

Contingency: 28.10%

Estimated Total: \$1,896,153.15

US 42 and Township Line Rd
Roundabout
Mid-Point Construction Spring 2030
Inflation 28.1%

Base Date: 01/17/24

Spec Year: 23

Unit System: E

Work Type: ASPHALT

Highway Type:

Urban/Rural Type: URBAN CLASS

Season: SPRING

County: WARREN

Latitude of Midpoint: 0

Longitude of Midpoint: 0

District: 08

Federal/State Project Number:

Prepared by Matt Hebebrand on 01/17/24

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Group 0010: Items of Work

0001	202E23000	4,313.000	SY	\$12.88614	\$55,577.92
PAVEMENT REMOVED					
0002	203E10000	607.000	CY	\$30.37630	\$18,438.41
EXCAVATION					
0003	203E20000	33,333.000	CY	\$9.94305	\$331,431.69
EMBANKMENT					
0004	301E56000	801.000	CY	\$197.45774	\$158,163.65
ASPHALT CONCRETE BASE, PG64-22, (449)					
0005	304E20000	915.000	CY	\$72.89311	\$66,697.20
AGGREGATE BASE					
0006	407E20000	545.000	GAL	\$3.93126	\$2,142.54
NON-TRACKING TACK COAT					
0007	441E50000	177.000	CY	\$300.00000	\$53,100.00
ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22					
0008	441E50300	234.000	CY	\$250.00000	\$58,500.00
ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)					
0009	452E12010	385.000	SY	\$116.17337	\$44,726.75
8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P					
0010	609E14000	400.000	FT	\$14.60691	\$5,842.76
CURB, TYPE 2-A					
0011	609E26000	2,730.000	FT	\$35.98152	\$98,229.55
CURB, TYPE 6					
0012	609E72000	468.000	SY	\$97.12595	\$45,454.94
CONCRETE MEDIAN					
0013	611E05900	200.000	FT	\$118.35518	\$23,671.04
15" CONDUIT, TYPE B					
0014	611E98180	10.000	EACH	\$3,735.00551	\$37,350.06
CATCH BASIN, NO. 3A					
0015	630E03100	221.000	FT	\$14.64046	\$3,235.54
GROUND MOUNTED SUPPORT, NO. 3 POST					
0016	630E80100	117.000	SF	\$24.87128	\$2,909.94
SIGN, FLAT SHEET					
0017	642E50040	1.000	LS	\$2,500.00000	\$2,500.00
PAVEMENT MARKING, MISC.:					

Line #	Item Number	Quantity	Units	Unit Price	Extension
Description					
Supplemental Description					
PAVEMENT MARKING					
				Total for Group 0010:\$1,007,971.99	
Group 0020: Incidentals					
0018	614E11000	1.000	LS	\$40,000.00000	\$40,000.00
MAINTAINING TRAFFIC					
0019	619E16010	6.000	MNTH	\$2,040.20619	\$12,241.24
FIELD OFFICE, TYPE B					
0020	623E10000	1.000	LS	\$145,000.00000	\$145,000.00
CONSTRUCTION LAYOUT STAKES AND SURVEYING					
0021	624E10000	1.000	LS	\$40,000.00000	\$40,000.00
MOBILIZATION					
0022	690E21000	1.000	LS	\$235,000.00000	\$235,000.00
SPECIAL - 25% Design Contingency					
				Total for Group 0020:\$472,241.24	