

Estimate 117607

Estimated Cost:\$7,125,864.17

Contingency: 4.30%

Estimated Total: \$7,432,276.33

FRA-161-15.80 NOISE WALLS - TRACINGS

Base Date: 05/23/24

Spec Year: 23

Unit System: E

Work Type: ASPHALT

Highway Type:

Urban/Rural Type: URBAN CLASS

Season: SUMMER

County: FRANKLIN

Latitude of Midpoint: 400708

Longitude of Midpoint: 825259

District: 06

Federal Project Number:

State Project Number: 117607

Prepared by JAW on 05/23/24

Checked by JDH on 05/23/24

<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 0100: ROADWAY

0001	201E11001	1.000	LS	\$50,000.00000	\$50,000.00
CLEARING AND GRUBBING, AS PER PLAN					
0002	202E38000	1,262.000	FT	\$1.69481	\$2,138.85
GUARDRAIL REMOVED					
0003	202E42040	1.000	EACH	\$80.64799	\$80.65
ANCHOR ASSEMBLY REMOVED, TYPE T					
0004	202E75000	4,001.000	FT	\$2.83514	\$11,343.40
FENCE REMOVED					
0005	203E10000	3,458.000	CY	\$17.68415	\$61,151.79
EXCAVATION					
0006	203E20000	684.000	CY	\$18.25226	\$12,484.55
EMBANKMENT					
0007	203E98000	67.000	CY	\$21.00000	\$1,407.00
ROADWAY, MISC.: TEMPORARY OVER-STEEPENED FILL					
0008	606E15050	362.000	FT	\$18.34933	\$6,642.46
GUARDRAIL, TYPE MGS					
0009	606E26150	3.000	EACH	\$2,158.94873	\$6,476.85
ANCHOR ASSEMBLY, MGS TYPE E					
0010	606E35002	4.000	EACH	\$2,119.45624	\$8,477.82
MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1					
0011	606E35102	1.000	EACH	\$454.19233	\$454.19
MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2					
0012	606E60002	1.000	EACH	\$4,179.14286	\$4,179.14
IMPACT ATTENUATOR, TYPE 1 (UNIDIRECTIONAL)					
0013	607E35000	201.000	FT	\$30.19967	\$6,070.13
FENCE REMOVED AND REBUILT					
0014	607E98000	80.000	FT	\$20.00000	\$1,600.00
FENCE, MISC.: WHITE SPLIT RAIL FENCE					
0015	622E90000	3,743.000	FT	\$185.00000	\$692,455.00
BARRIER, MISC.: 81" SINGLE SLOPE BARRIER					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
0016	622E90200 BARRIER, MISC.: <i>BARRIER DRAINAGE WINDOW SECTION</i>	6.000	EACH	\$8,000.00000	\$48,000.00
0017	622E90200 BARRIER, MISC.: <i>81" CONCRETE BARRIER END SECTION</i>	6.000	EACH	\$15,000.00000	\$90,000.00
0018	622E90200 BARRIER, MISC.: <i>81" SINGLE SLOPE BARRIER END ANCHORAGE, REINFORCED</i>	29.000	EACH	\$20,000.00000	\$580,000.00
0019	878E25000 INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS	1.000	LS	\$15,000.00000	\$15,000.00

Total for Group 0100:\$1,597,961.83

Group 0200: EROSION CONTROL

0020	659E00100 SOIL ANALYSIS TEST	1.000	EACH	\$124.77787	\$124.78
0021	659E00300 TOPSOIL	1,899.000	CY	\$32.28867	\$61,316.18
0022	659E00590 SEEDING AND MULCHING, CLASS 6	955.000	SY	\$5.00000	\$4,775.00
0023	659E10000 SEEDING AND MULCHING	7,985.000	SY	\$1.12951	\$9,019.14
0024	659E14000 REPAIR SEEDING AND MULCHING	400.000	SY	\$0.64747	\$258.99
0025	659E15000 INTER-SEEDING	400.000	SY	\$0.18876	\$75.50
0026	659E20000 COMMERCIAL FERTILIZER	1.080	TON	\$524.69565	\$566.67
0027	659E31000 LIME	1.650	ACRE	\$81.10517	\$133.82
0028	659E35000 WATER	45.000	MGAL	\$0.95099	\$42.79
0029	670E00500 SLOPE EROSION PROTECTION	9,090.000	SY	\$2.10554	\$19,139.36

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<u>Description</u>					
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0030	832E15000	1.000	LS	\$5,000.00000	\$5,000.00
STORM WATER POLLUTION PREVENTION PLAN					
0031	832E15002	1.000	LS	\$11,000.00000	\$11,000.00
STORM WATER POLLUTION PREVENTION INSPECTIONS					
0032	832E15010	1.000	LS	\$11,500.00000	\$11,500.00
STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE					
0033	832E30000	142,257.000	EACH	\$1.00000	\$142,257.00
EROSION CONTROL					
Total for Group 0200:\$265,209.23					

Group 0300: DRAINAGE

0034	601E21050	247.000	SY	\$64.04209	\$15,818.40
TIED CONCRETE BLOCK MAT, TYPE 1					
0035	602E20000	2.970	CY	\$1,721.28828	\$5,112.23
CONCRETE MASONRY					
0036	605E13300	9,383.000	FT	\$7.07513	\$66,385.94
6" UNCLASSIFIED PIPE UNDERDRAINS					
0037	605E31100	50.000	FT	\$21.95397	\$1,097.70
AGGREGATE DRAINS					
0038	611E00510	557.000	FT	\$26.19896	\$14,592.82
6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS					
0039	611E06100	279.000	FT	\$77.49151	\$21,620.13
15" CONDUIT, TYPE C					
0040	611E06700	83.000	FT	\$77.10163	\$6,399.44
15" CONDUIT, TYPE F					
0041	611E99500	11.000	EACH	\$8,500.00000	\$93,500.00
INLET, MISC.: INLET NO. 3 FOR 81" SINGLE SLOPE BARRIER					
0042	611E99710	31.000	EACH	\$284.56885	\$8,821.63
PRECAST REINFORCED CONCRETE OUTLET					
Total for Group 0300:\$233,348.29					

Group 0400: PAVEMENT

<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>					
0043	254E01000 PAVEMENT PLANING, ASPHALT CONCRETE , 3"	4,822.000	SY	\$3.05732	\$14,742.40
0044	304E20000 AGGREGATE BASE	998.000	CY	\$69.33199	\$69,193.33
0045	407E10000 TACK COAT (APPLIED AT A RATE 0.055 GAL/SY)	219.000	GAL	\$2.15158	\$471.20
0046	407E20000 NON-TRACKING TACK COAT (APPLIED AT A RATE 0.085 GAL/SY)	760.000	GAL	\$3.11877	\$2,370.27
0047	442E10001 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS P ER PLAN	189.000	CY	\$207.10000	\$39,141.90
0048	442E10080 ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)	189.000	CY	\$235.55157	\$44,519.25
0049	452E12010 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1	1,803.000	SY	\$90.00000	\$162,270.00
0050	452E13010 9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1	1,147.000	SY	\$66.48485	\$76,258.12
0051	609E24000 CURB, TYPE 4-A	108.000	FT	\$9.48910	\$1,024.82
0052	872E10000 VOID REDUCING ASPHALT MEMBRANE (VRAM)	4,401.000	FT	\$2.45000	\$10,782.45

Total for Group 0400:\$420,773.74

Group 0500: NOISE BARRIERS

0053	519E11101 PATCHING CONCRETE STRUCTURE, AS PER PLAN	4.000	SF	\$236.00000	\$944.00
0054	606E10210 SPECIAL - NOISE BARRIER (REFLECTIVE), OVER 10' TO 14' HEIGHT	115,010.000	SF	\$32.07000	\$3,688,370.70
0055	690E98000 SPECIAL - UTILITY TEST HOLE (CITY OF COLUMBUS DIVISION OF WATER)	1.000	EACH	\$5,000.00000	\$5,000.00
0056	690E98000 SPECIAL - UTILITY TEST HOLE (TC ENERGY)	2.000	EACH	\$5,000.00000	\$10,000.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
0057	690E98000	2.000	EACH	\$5,000.00000	\$10,000.00
	SPECIAL - UTILITY TEST HOLE (COLUMBIA GAS)				

Total for Group 0500:\$3,714,314.70

Group 0600: TRAFFIC CONTROL

0058	630E03100	6.700	FT	\$15.12367	\$101.33
	GROUND MOUNTED SUPPORT, NO. 3 POST				
0059	630E07000	39.900	FT	\$30.40227	\$1,213.05
	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W8X18				
0060	630E74601	1.000	EACH	\$5,000.00000	\$5,000.00
	OVERHEAD SIGN SUPPORT, INSTALLATION ONLY, AS PER PLAN				
0061	630E81020	2.000	EACH	\$1,025.00000	\$2,050.00
	CONCRETE MEDIAN BARRIER SIGN BRACKET				
0062	630E82000	1.000	EACH	\$130.81717	\$130.82
	SIGN BACKING ASSEMBLY				
0063	630E84500	2.000	EACH	\$787.74858	\$1,575.50
	GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION				
0064	630E84510	1.000	EACH	\$3,998.81148	\$3,998.81
	RIGID OVERHEAD SIGN SUPPORT FOUNDATION				
0065	630E85100	3.000	EACH	\$54.77089	\$164.31
	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION				
0066	630E85600	1.000	EACH	\$340.68050	\$340.68
	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND REERECTION				
0067	630E86002	2.000	EACH	\$13.43488	\$26.87
	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL				
0068	630E86102	2.000	EACH	\$168.48819	\$336.98
	REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL				
0069	633E67201	1.000	EACH	\$1,000.00000	\$1,000.00
	CONTROLLER WORK PAD, AS PER PLAN				
0070	807E13110	0.450	MILE	\$1,700.00000	\$765.00
	WET REFLECTIVE SPRAY THERMOPLASTIC PAVEMENT MARKING, LANE LI NE, 6"				

Total for Group 0600:\$16,703.35

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<u>Description</u>					
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Group 0700: MAINTENANCE OF TRAFFIC

0071	614E11110	300.000	HOUR	\$78.21680	\$23,465.04
LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE					
0072	614E11630	5,735.000	FT	\$0.93888	\$5,384.48
INCREASED BARRIER DELINEATION					
0073	614E12380	5.000	EACH	\$2,745.04832	\$13,725.24
WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTION AL)					
0074	614E12420	1.000	LS	\$20,000.00000	\$20,000.00
DETOUR SIGNING					
0075	614E13310	119.000	EACH	\$7.94758	\$945.76
BARRIER REFLECTOR, TYPE 1					
0076	614E13350	119.000	EACH	\$12.15224	\$1,446.12
OBJECT MARKER, ONE WAY					
0077	614E18601	96.000	SNMT	\$1,000.00000	\$96,000.00
PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN					
0078	614E22210	0.630	MILE	\$7,361.27671	\$4,637.60
WORK ZONE EDGE LINE, CLASS I, 6", 740.06, TYPE I					
0079	614E24402	780.000	FT	\$0.87275	\$680.75
WORK ZONE DOTTED LINE, CLASS I, 6", 740.06, TYPE I					
0080	616E10000	50.000	MGAL	\$6.75534	\$337.77
WATER					
0081	622E41100	13,700.000	FT	\$14.76601	\$202,294.34
PORTABLE BARRIER, UNANCHORED					

Total for Group 0700:\$368,917.10

Group 0800: INCIDENTALS

0082	614E11000	1.000	LS	\$200,000.00000	\$200,000.00
MAINTAINING TRAFFIC 3% OF TCC					
0083	619E16010	24.000	MNTH	\$1,488.99700	\$35,735.93
FIELD OFFICE, TYPE B					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
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0084	623E10000	1.000	LS	\$42,300.00000	\$42,300.00
CONSTRUCTION LAYOUT STAKES AND SURVEYING 0.75% OF TCC					
0085	624E10000	1.000	LS	\$225,600.00000	\$225,600.00
MOBILIZATION					
0086	690E21000	1.000	LS	\$5,000.00000	\$5,000.00
SPECIAL - SURVEY CONTROL VERIFICATION					

Total for Group 0800:\$508,635.93