

**ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST
MAD US 42 14.00 - ROUNDABOUT ALTERNATIVE**

Project number: PID 119698

Date: March 15, 2024

Client name: ODOT District 6

(Based upon 2022 Construction Costs)

Ref. No.	Item No.	Description	Total Estimated Quantity	Unit	Estimated Unit Cost	Total Estimated Cost
ROADWAY						
1	201	CLEARING AND GRUBBING	1	LS	\$ 20,000.00	\$ 20,000.00
2	202	PAVEMENT REMOVED	3,400	SQ YD	\$ 20.00	\$ 68,000.00
3	202	FENCE REMOVED	250	FT	\$ 10.00	\$ 2,500.00
4	203	EXCAVATION	3,100	CU YD	\$ 40.00	\$ 124,000.00
5	204	EMBANKMENT	3,100	CU YD	\$ 25.00	\$ 77,500.00
6	204	SUBGRADE COMPACTION	7,500	SQ YD	\$ 3.00	\$ 22,500.00
7	204	PROOF ROLLING	3	HOUR	\$ 250.00	\$ 750.00
8	206	CEMENT STABILIZED SUBGRADE, 16 INCHES DEEP	7,500	SQ YD	\$ 4.00	\$ 30,000.00
9	206	LIME	275	TON	\$ 184.00	\$ 50,600.00
10	206	CURING COAT	7,500	SQ YD	\$ 1.20	\$ 9,000.00
11	206	TEST ROLLING	2	HOUR	\$ 250.00	\$ 500.00
12	206	MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS	1	LS	\$ 25,000.00	\$ 25,000.00
EROSION CONTROL						
13	832	TOPSOIL, SEEDING AND MULCHING	13,700	SQ YD	\$ 8.00	\$ 109,600.00
14	832	CONSTRUCTION EROSION CONTROL	40,000	EACH	\$ 1.00	\$ 40,000.00
15	832	SWPPP	1	LS	\$ 5,000.00	\$ 5,000.00
16	832	SWPPP INSPECTIONS	1	LS	\$ 5,000.00	\$ 5,000.00
17	832	SWPPP SOFTWARE	1	LS	\$ 5,000.00	\$ 5,000.00
PAVEMENT						
18	252	FULL DEPTH PAVEMENT SAWING	4,725	FT	\$ 3.00	\$ 14,175.00
19	254	PAVEMENT PLANING, ASPHALT CONCRETE (VARIABLE DEPTH)	3,145	SQ YD	\$ 6.00	\$ 18,870.00
20	302	ASPHALT CONCRETE BASE, PG64-22, (449)	920	CU YD	\$ 250.00	\$ 230,000.00
21	304	AGGREGATE BASE 1160 CU YD \$ 85.00 \$ 98,600.00	1,160	CU YD	\$ 85.00	\$ 98,600.00
22	407	NON-TRACKING TACK COAT	790	GAL	\$ 4.00	\$ 3,160.00
23	441	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)	385	CU YD	\$ 345.00	\$ 132,825.00
24	441	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22, (449)	330	CU YD	\$ 300.00	\$ 99,000.00
25	441	ASPHALT CONCRETE WEDGE COURSE, TYPE 2, (449)	82	CU YD	\$ 330.00	\$ 27,060.00
26	452	NON-REINFORCED CONCRETE PAVEMENT (ISLANDS)	810	SQ YD	\$ 80.00	\$ 64,800.00
27	452	NON-REINFORCED CONCRETE PAVEMENT (DRIVEWAYS)	110	SQ YD	\$ 110.00	\$ 12,100.00
28	452	NON-REINFORCED CONCRETE PAVEMENT (TRUCK APRON)	760	SQ YD	\$ 140.00	\$ 106,400.00
29	609	CURB TYPE 6	1,585	FT	\$ 35.00	\$ 55,475.00
30	609	COMBINATION CURB AND GUTTER, TYPE 2	1,400	FT	\$ 45.00	\$ 63,000.00
31	609	COMBINATION CURB AND GUTTER, TYPE 9	300	FT	\$ 40.00	\$ 12,000.00
DRAINAGE						
32	605	4" BASE PIPE UNDERDRAINS	1,695	FT	\$ 12.00	\$ 20,340.00
33	611	DRAINAGE (STORM SEWER AND STRUCTURES)	1	LS	\$ 120,000.00	\$ 120,000.00
34	611	30" CONDUIT, TYPE B	25	FT	\$ 265.00	\$ 6,625.00
35	611	STORM WATER BMP	1	LS	\$ 25,000.00	\$ 25,000.00

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TRAFFIC CONTROL, SIGNALS & LIGHTING						
36	625	LIGHTING	1	LS	\$ 120,000.00	\$ 120,000.00
37	630	GROUND MOUNTED SIGNAGE	1	LS	\$ 20,000.00	\$ 20,000.00
38	644	PAVEMENT MARKINGS	1	LS	\$ 12,000.00	\$ 12,000.00
MISCELLANEOUS						
39	614	MAINTAINING TRAFFIC	1	LS	\$ 149,000.00	\$ 149,000.00
40	619	FIELD OFFICE	8	MONTH	\$ 2,500.00	\$ 20,000.00
41	623	CONSTRUCTION LAYOUT STAKES AND SURVEYING	1	LS	\$ 21,000.00	\$ 21,000.00
42	624	MOBILIZATION	1	LS	\$ 75,000.00	\$ 75,000.00
SUBTOTAL ESTIMATED CONSTRUCTION COST						\$ 2,121,380.00
SUBTOTAL ESTIMATED UTILITY RELOCATION ALLOWANCE						\$ 200,000.00
SUBTOTAL ESTIMATED RIGHT OF WAY COST						\$ 312,000.00
<i>subtotal</i>						\$ 2,633,380.00
CONSTRUCTION CONTINGENCY 30%						\$ 790,014.00
ENGINEERING, DESIGN & CONSTRUCTION ADMINISTRATION 30%						\$ 790,014.00
<i>subtotal</i>						\$ 4,213,408.00
INFLATION CONTINGENCY (CONSTRUCTION MIDPOINT ESTIMATED 7/1/2028) 24.2%						\$ 636,750.00
TOTAL ESTIMATED PROJECT COST						\$ 4,850,158.00

ASSUMPTIONS:

- (1) Partial Detour and Maintaining Traffic are the assumed MOT scheme.
- (2) Utility relocation costs are assumed to be non-reimbursable (inside existing right of way) to utility owners.
Allowance included above right of way costs for potential reimbursable utility relocations unknown at time of concept development.
- (3) Earthwork balanced site.