

OPINION OF PROBABLE CONSTRUCTION COST
NORTHEAST OHIO REGIONAL SEWER DISTRICT
PROJECT 1641: VAUGHN ROAD FLOOD MITIGATION
BRECKSVILLE, OHIO

90% PHASE
October 2022

Item No.	Description	Quantity	Units	SubItem Unit Cost	SubItem Extended Cost	Unit Cost	Item Cost
1	Pre-Construction Video, Post-Construction Video, and Construction Photographs	1	LS			\$8,500.00	\$8,500.00
2	Bridge Inspection and Settlement Monitoring	1	LS			\$15,000.00	\$15,000.00
3	Clearing and Grubbing	1	LS			\$40,000.00	\$40,000.00
4	Control of Water	1	LS			\$99,225.00	\$99,225.00
	Bridge Temporary Work Platform	1	LS	\$86,625.00	\$86,625.00		
	Culvert Bypass Pumping	1	LS	\$12,600.00	\$12,600.00		
5	Bridge Substructure Reinforcement	1	LS			\$301,809.06	\$301,809.06
	Steel Sheet Piling Left in Place	2340	SF	\$87.50	\$204,741.81		
	Concrete Slope Protection Removed	98	SY	\$31.50	\$3,087.00		
	Dowel Holes With Nonshrink, Nonmetallic Grout	222	EA	\$26.25	\$5,827.50		
	Concrete Repair by Epoxy Injection	67	FT	\$131.25	\$8,793.75		
	1" Preformed Expansion Joint Filler	38	SF	\$10.50	\$399.00		
	Patching Concrete Structure	57	SF	\$210.00	\$11,970.00		
	Concrete Slope Protection	234	SY	\$183.75	\$42,997.50		
	Grout Backfill	12	CY	\$1,050.00	\$12,600.00		
	Rock Channel Protection, Type A with Filter	62	CY	\$183.75	\$11,392.50		
6	Roadway Demolition	1	LS			\$30,232.13	\$30,232.13
	Storm Pipe Removed, 15"	41	FT	\$26.25	\$1,076.25		
	Guardrail Removed	175	FT	\$5.25	\$918.75		
	Swing Gate Removed	4	EA	\$1,050.00	\$4,200.00		
	Asphalt Pavement Removed	1000	SY	\$15.75	\$15,750.00		
	Roadway Pavement Pulverized in Place	3157	SY	\$2.63	\$8,287.13		
7	Roadway Earthwork	1	LS			\$529,984.88	\$529,984.88
	Excavation	1632	CY	\$36.75	\$59,976.00		
	Embankment	7399	CY	\$26.25	\$194,223.75		
	Subgrade Compaction	7161	SF	\$2.63	\$18,797.63		
	Proof Rolling	8	HR	\$210.00	\$1,680.00		
	Excavation of Subgrade	1000	CY	\$21.00	\$21,000.00		
	Granular Material, No. 2 Stone	1000	CY	\$52.50	\$52,500.00		
	Geogrid	3000	SY	\$2.63	\$7,875.00		
	Monument Reset	1	EA	\$2,100.00	\$2,100.00		
	Steel Sheet Piling Left in Place	2958	SF	\$52.50	\$155,295.00		
	Rock Channel Protection, Type A	90	CYD	\$183.75	\$16,537.50		
8	Roadway Pavement	1	LS			\$401,544.15	\$401,544.15
	Bituminous Asphalt Concrete Base	1081	CY	\$183.75	\$198,633.75		
	Aggregate Base	1110	CY	\$63.00	\$69,930.00		
	Tack Coat	1137	GAL	\$4.20	\$4,775.40		
	Asphalt Concrete Surface Course, Type 1, (448), PG64-22	220	CY	\$288.75	\$63,525.00		
	Asphalt Concrete Intermediate Course, Type 2, (448)	308	CY	\$210.00	\$64,680.00		

**OPINION OF PROBABLE CONSTRUCTION COST
NORTHEAST OHIO REGIONAL SEWER DISTRICT
PROJECT 1641: VAUGHN ROAD FLOOD MITIGATION
BRECKSVILLE, OHIO**

**90% PHASE
October 2022**

Item No.	Description	Quantity	Units	SubItem Unit Cost	SubItem Extended Cost	Unit Cost	Item Cost
9	Drainage and Guardrail	1	LS			\$77,166.60	\$77,166.60
	Guardrail, Type MGS	100	FT	\$26.25	\$2,625.00		
	Anchor Assembly, MGS Type E	2	EA	\$2,625.00	\$5,250.00		
	Rock Channel Protection, Type C with Filter	5	CY	\$189.00	\$945.00		
	Headwall, 12" Pipe (SCD HW-2.1)	2	EA	\$2,625.00	\$5,250.00		
	Headwall, 24" Pipe (SCD HW-1.1)	2	EA	\$3,150.00	\$6,300.00		
	6" Unclassified Pipe Underdrain	3041	FT	\$12.60	\$38,316.60		
	12" Conduit, Type B	22	FT	\$131.25	\$2,887.50		
	24" Conduit, Type B	99	FT	\$157.50	\$15,592.50		
10	Erosion and Sediment Controls	1	LS			\$416,247.30	\$416,247.30
	Topsoil, Furnished and Placed	920	CY	\$47.25	\$43,470.00		
	Seeding and Mulching	11593	SY	\$2.10	\$24,345.30		
	Construction Seeding and Mulching	11593	SY	\$1.05	\$12,172.65		
	Compost Filter Sock	2080	LF	\$8.40	\$17,472.00		
	Concrete Washout	1	EA	\$2,625.00	\$2,625.00		
	Stabilized Construction Entrance	40	CY	\$78.75	\$3,150.00		
	Ditch Check	13	EA	\$183.75	\$2,388.75		
	Bridle Trail	711	SY	\$42.00	\$29,862.00		
	Bridle Trail RCP	320	CY	\$157.50	\$50,400.00		
	Stabilized Shoulder, Turf Reinforcement Mat	10554	SY	\$21.00	\$221,634.00		
	Temporary Erosion Control Mat	1039	SY	\$8.40	\$8,727.60		
11	Maintenance of Traffic	1	LS			\$72,213.75	\$72,213.75
	Maintaining Traffic, As Per Plan	1	LS	\$52,500.00	\$52,500.00		
	Temporary Chain Link Fence	170	LF	\$36.75	\$6,247.50		
	Water	5	MGAL	\$105.00	\$525.00		
	Calcium Chloride	0.5	TON	\$525.00	\$262.50		
	Sign, Flat Sheet, Type G	82	SF	\$26.25	\$2,152.50		
	Ground Mounted Support, No. 3 Post	286	FT	\$15.75	\$4,504.50		
	Removal of Ground Mounted Sign and Disposal	9	EA	\$52.50	\$472.50		
	Removal of Ground Mounted Sign and Reerection	7	EA	\$105.00	\$735.00		
	Removal of Ground Mounted Support and Disposal	16	EA	\$52.50	\$840.00		
	Crosswalk Line	44	LF	\$5.25	\$231.00		
	Center Line, Double Yellow	0.31	MILE	\$6,825.00	\$2,115.75		
	Edge Line	0.62	MILE	\$2,625.00	\$1,627.50		
12	Watering	1	LS			\$10,000.00	\$10,000.00

Subtotal #1 = **\$2,001,922.86**

Note: Unit Prices increased 5% to include mobilization

Base Bid Amount = **\$2,001,922.86**

OPINION OF PROBABLE CONSTRUCTION COST
NORTHEAST OHIO REGIONAL SEWER DISTRICT
PROJECT 1641: VAUGHN ROAD FLOOD MITIGATION
BRECKSVILLE, OHIO

90% PHASE
October 2022

Item No.	Description	Quantity	Units	SubItem Unit Cost	SubItem Extended Cost	Unit Cost	Item Cost
Allowances							
13	General Allowance (Max 10% of Base Bid)						\$200,192.29
14	Specific Allowance #1: Unforeseen Buried and Utility Conditions						\$20,000.00
15	Specific Allowance #2: Unforeseen Pavement Repairs						\$20,000.00
						Subtotal #2=	\$2,242,115.15
16	Bid, Performance, and Payment Bond (Max 1% of Subtotal #2)						\$22,421.15

OPINION OF PROBABLE CONSTRUCTION COST = **\$2,264,536.30**

AACE Class 3 Expected Accuracy Range

Low -20%	\$1,811,629.00
High + 30%	\$2,943,898.00

PREPARED BY: RF/RPS/RW

CHECKED BY: SA

CHECKED DATE: 10/5/2022