

Mouse River Enhanced Flood Protection (MREFP) Phase MI-4A
Engineer's Opinion of Probable Construction Cost (OPC)
100% Preliminary Cost



Bid Item	M&P Item	Tech Spec Section	Item Description	Unit	Estimated Quantity	Unit Price	Amount
1	1	1100	Mobilization / Demobilization	LS	1	\$ 200,000.00	\$ 200,000.00
2	2	02 41 00	Pre-Condition Roadway Assessment	LS	1	\$ 12,000.00	\$ 12,000.00
3	3	02 41 00	Post-Condition Roadway Assessment	LS	1	\$ 12,000.00	\$ 12,000.00
4	4	01 32 36	Video Monitoring and Documentation	LS	1	\$ 30,000.00	\$ 30,000.00
5	5	1100	Control of Water and Dewatering	LS	1	\$ 50,000.00	\$ 50,000.00
6	6	1100	Temporary Traffic Control	LS	1	\$ 30,000.00	\$ 30,000.00
7	7	1100	Construction Fence (Orange)	LF	1,000	\$ 4.00	\$ 4,000.00
8	8	1200	Temporary Cover Crop	AC	1.0	\$ 3,000.00	\$ 3,000.00
9	9	1200	Silt Fence	LF	610	\$ 3.00	\$ 1,830.00
10	10	1200	Fiber Roll (6")	LF	475	\$ 3.50	\$ 1,662.50
11	11	1200	Stabilized Construction Entrance	EA	2	\$ 5,500.00	\$ 11,000.00
12	12	1200	Storm Drain Inlet Protection (All Types)	EA	17	\$ 350.00	\$ 5,950.00
13	13	1200	Erosion Control Blanket	SY	1,000	\$ 6.00	\$ 6,000.00
14	14	1200	Dust Control	LS	1	\$ 15,000.00	\$ 15,000.00
15	15	1500	Remove Bituminous Pavement	SY	6,180	\$ 7.00	\$ 43,260.00
16	16	1500	Remove Concrete Pavement	SY	50	\$ 12.50	\$ 625.00
17	17	1500	Remove Concrete Sidewalks & Driveways	SY	720	\$ 9.00	\$ 6,480.00
18	18	1500	Remove Curb and Gutter (All Types)	LF	2,610	\$ 8.00	\$ 20,880.00
19	19	1500	Remove Gravel Surfacing	SY	60	\$ 2.50	\$ 150.00
20	20	1500	Remove Pipe (Sanitary Main, All Sizes)	LF	370	\$ 24.00	\$ 8,880.00
21	20	1500	Remove Pipe (Sanitary Service, All Sizes)	LF	21	\$ 20.00	\$ 420.00
22	21	1500	Remove Manhole (Sanitary, All Sizes)	EA	3	\$ 800.00	\$ 2,400.00
23	20	1500	Remove Pipe (Storm Sewer, All Sizes)	LF	28	\$ 24.00	\$ 672.00
24	20	1500	Remove Pipe (Watermain, All Sizes)	LF	1,310	\$ 20.00	\$ 26,200.00
25	20	1500	Remove Pipe (Water Service, All Sizes)	LF	307	\$ 15.00	\$ 4,605.00
26	22	1500	Remove and Salvage Hydrant	EA	2	\$ 700.00	\$ 1,400.00
27	23	1500	Remove and Salvage Gate Valve (All Sizes)	EA	7	\$ 250.00	\$ 1,750.00
28	24	1500	Remove Curb Stop (All Sizes)	EA	2	\$ 250.00	\$ 500.00
29	25	1500	Remove Abandoned Railroad Spur Lines	LS	1	\$ 2,500.00	\$ 2,500.00
30	26	1500	Partially Remove Manhole (Sanitary, All Sizes)	EA	3	\$ 400.00	\$ 1,200.00
31	27	1500	Partially Remove Gate Valve (All Sizes)	EA	1	\$ 125.00	\$ 125.00
32	26	1500	Partially Remove Manhole (Water, All Sizes)	EA	1	\$ 1,000.00	\$ 1,000.00
33	28	1500	Partially Remove Fire Hydrant	EA	1	\$ 225.00	\$ 225.00
34	29	1500	Partially Remove Curb Stop (All Sizes)	EA	3	\$ 125.00	\$ 375.00
35	30	1500	Partially Remove Park Street Lift Station	LS	1	\$ 20,000.00	\$ 20,000.00
36	31	1500	Abandon Manhole (Sanitary, All Sizes)	EA	2	\$ 1,250.00	\$ 2,500.00
37	32	1500	Abandon & Fill Pipe (All Types, All Sizes)	LF	322	\$ 40.00	\$ 12,880.00
38	33	1500	Bulkhead Existing Pipe (All Types, ID 12" and Smaller)	EA	11	\$ 600.00	\$ 6,600.00
39	33	1500	Bulkhead Existing Pipe (All Types, ID Larger Than 12")	EA	2	\$ 1,800.00	\$ 3,600.00
40	34	1500	Salvage & Reinstall Guardrail	LF	63	\$ 10.00	\$ 630.00
41	35	1500 & 3600	Salvage & Reinstall Street Light	EA	1	\$ 2,500.00	\$ 2,500.00
42	36	1500 & 3600	Salvage & Reinstall Building Light	EA	1	\$ 1,500.00	\$ 1,500.00
43	37	1600	Clearing and Grubbing	SY	810	\$ 2.00	\$ 1,620.00
44	38	1600	Remove Tree	EA	15	\$ 950.00	\$ 14,250.00
45	39	1800	Common Borrow	CY	367	\$ 20.00	\$ 7,340.00
46	40	1900	Geotextile Fabric (Type R1)	SY	7,055	\$ 2.50	\$ 17,637.50
47	41	1900	Subgrade Preparation	SY	7,055	\$ 2.25	\$ 15,873.75
48	42	2100	Water Main (6" PVC C-900 DR 18)	LF	93	\$ 80.00	\$ 7,440.00
49	42	2100	Water Main (8" PVC C-900 DR 18)	LF	63	\$ 85.00	\$ 5,355.00
50	42	2100	Water Main (18" PVC C-900 DR 18)	LF	1,195	\$ 60.00	\$ 71,700.00
51	42	2100	Water Main (18" Fusible PVC C-900 DR 18)	LF	115	\$ 150.00	\$ 17,250.00
52	43	33 05 07.13	HDD Water Main (18" Fusible PVC C-900 DR 18)	LF	819	\$ 235.00	\$ 192,465.00
53	44	2100	Water Main Fitting (18"x18" DI Tee)	EA	2	\$ 5,500.00	\$ 11,000.00
54	44	2100	Water Main Fitting (18"x8" DI Tee)	EA	3	\$ 3,750.00	\$ 11,250.00
55	44	2100	Water Main Fitting (18"x6" DI Tee)	EA	4	\$ 3,500.00	\$ 14,000.00
56	44	2100	Water Main Fitting (8"x6" DI Reducer)	EA	2	\$ 320.00	\$ 640.00
57	44	2100	Water Main Fitting (6" DI 22.5° Bend)	EA	1	\$ 500.00	\$ 500.00
58	44	2100	Water Main Fitting (6" DI 45° Bend)	EA	1	\$ 500.00	\$ 500.00
59	44	2100	Water Main Fitting (8" DI 22.5° Bend)	EA	1	\$ 650.00	\$ 650.00
60	44	2100	Water Main Fitting (8" DI 45° Bend)	EA	2	\$ 650.00	\$ 1,300.00
61	44	2100	Water Main Fitting (18" DI 11.25° Bend)	EA	4	\$ 2,000.00	\$ 8,000.00
62	44	2100	Water Main Fitting (18" DI 22.5° Bend)	EA	1	\$ 3,000.00	\$ 3,000.00
63	44	2100	Water Main Fitting (18" DI 45° Bend)	EA	8	\$ 3,000.00	\$ 24,000.00
64	44	2100	Water Main Fitting (6" DI Plug)	EA	3	\$ 200.00	\$ 600.00
65	44	2100	Water Main Fitting (18" DI Plug)	EA	2	\$ 1,250.00	\$ 2,500.00
66	45	2100	Valve and Box (6" Gate)	EA	4	\$ 2,250.00	\$ 9,000.00
67	45	2100	Valve and Box (8" Gate)	EA	3	\$ 3,000.00	\$ 9,000.00
68	45	2100	Valve and Box (18" Gate)	EA	8	\$ 10,000.00	\$ 80,000.00
69	46	2100	Fire Hydrant	EA	4	\$ 6,500.00	\$ 26,000.00
70	47	2100	Polystyrene Insulation	CF	140	\$ 30.00	\$ 4,200.00
71	48	2100	Connect to Existing Water (All Sizes)	EA	6	\$ 3,300.00	\$ 19,800.00
72	49	33 05 07.23	Jack and Bore (6" Steel Casing)	LF	100	\$ 200.00	\$ 20,000.00
73	49	33 05 07.23	Jack and Bore (24" Steel Casing)	LF	100	\$ 470.00	\$ 47,000.00
74	50	1100	Temporary Water Service	LS	1	\$ 25,000.00	\$ 25,000.00
75	51	2200	Water Service (1" Copper Type "K")	LF	167	\$ 60.00	\$ 10,020.00
76	51	2200	Water Service (2" Copper Type "K")	LF	58	\$ 70.00	\$ 4,060.00
77	52	2200	HDD Water Service (1" HDPE DR 7)	LF	63	\$ 70.00	\$ 4,410.00
78	52	2200	HDD Water Service (2" HDPE DR 7)	LF	195	\$ 80.00	\$ 15,600.00
79	53	2200	Service Tap (18"x1")	EA	6	\$ 900.00	\$ 5,400.00
80	53	2200	Service Tap (18"x2")	EA	2	\$ 1,100.00	\$ 2,200.00
81	54	2200	Tapping Gate Valve and Sleeve (18"x4")	EA	1	\$ 9,500.00	\$ 9,500.00
82	55	2200	Curb Stop and Box (1")	EA	5	\$ 600.00	\$ 3,000.00
83	55	2200	Curb Stop and Box (2")	EA	2	\$ 1,300.00	\$ 2,600.00
84	56	2200	Connect to Existing Water Service (All Sizes)	EA	8	\$ 1,000.00	\$ 8,000.00
85	57	2300	Sanitary Sewer Main (8" PVC SDR 35)	LF	139	\$ 75.00	\$ 10,425.00
86	57	2300	Sanitary Sewer Main (10" PVC SDR 35)	LF	228	\$ 110.00	\$ 25,080.00
87	57	2300	Sanitary Sewer Main (10" PVC SDR 26)	LF	8	\$ 150.00	\$ 1,200.00

Bid Item	M&P Item	Tech Spec Section	Item Description	Unit	Estimated Quantity	Unit Price	Amount
88	58	2300	Sanitary Sewer Force Main (1-1/4" HDPE DR 7)	LF	234	\$ 50.00	\$ 11,700.00
89	58	2300	Sanitary Sewer Force Main (6" PVC C-900 DR 18)	LF	57	\$ 80.00	\$ 4,560.00
90	59	33 05 07.13	HDD Sanitary Sewer Force Main (6" Fusible PVC C-900 DR 18)	LF	488	\$ 160.00	\$ 78,080.00
91	60	34 05 07.13	HDD Sanitary Sewer Main (10" FPVC SDR 26)	LF	397	\$ 235.00	\$ 93,295.00
92	61	2300	Sanitary Sewer Manhole Structure (48")	EA	6	\$ 5,500.00	\$ 33,000.00
93	62	2300	Sanitary Manhole Overdepth (48")	LF	36.7	\$ 500.00	\$ 18,350.00
94	63	2300	Outside drop Inlet Pipe (8")	LF	10.5	\$ 200.00	\$ 2,100.00
95	64	2300	Remove and Replace Manhole Casting	EA	2	\$ 2,500.00	\$ 5,000.00
96	65	2300	Sanitary Sewer Fitting (6" DI Coupling)	EA	1	\$ 500.00	\$ 500.00
97	65	2300	Sanitary Sewer Fitting (6" DI 45° Bend)	EA	4	\$ 425.00	\$ 1,700.00
98	65	2300	Sanitary Sewer Fitting (10"x4" PVC SCH 40)	EA	1	\$ 1,000.00	\$ 1,000.00
99	65	2300	Sanitary Sewer Fitting (1-1/4" HDPE DR 7)	EA	1	\$ 250.00	\$ 250.00
100	66	2300	Connect to Existing Sanitary Sewer (All Sizes)	EA	6	\$ 750.00	\$ 4,500.00
101	66	33 01 30.72	Trim Protruding Tap (All Sizes, Iron)	EA	-	\$ 500.00	\$ -
102	67	34 01 30.72	Trim Protruding Tap (All Sizes, Non-Iron)	EA	15	\$ 200.00	\$ 3,000.00
103	68	35 01 30.72	Sewer Line Preparation (All Sizes, All Types)	LF	947	\$ 4.00	\$ 3,788.00
104	69	36 01 30.72	CIPP Lining (10")	LF	947	\$ 35.00	\$ 33,145.00
105	70	36 01 30.72	Reinstate Tap (All Types, All Sizes)	EA	15	\$ 65.00	\$ 975.00
106	71	2310	Temporary Bypass Pumping	LS	1	\$ 20,000.00	\$ 20,000.00
107	72	2400	Sanitary Service (4" PVC SCH 40)	LF	35	\$ 50.00	\$ 1,750.00
108	73	2400	Connect to Existing Sanitary Service (All Sizes)	EA	1	\$ 800.00	\$ 800.00
109	74	2400	Sanitary Service Riser (4" PVC SCH 40)	LF	4	\$ 30.00	\$ 120.00
110	75	2400	Sanitary Cleanout (4" PVC SCH 40)	EA	1	\$ 450.00	\$ 450.00
111	76	2700	Slotted Drain (18")	LF	28	\$ 220.00	\$ 6,160.00
112	77	2700	Connect to Existing Storm Sewer (All Sizes)	EA	1	\$ 750.00	\$ 750.00
113	78	2900	Aggregate Base Course (CL 5)	TON	3,465	\$ 22.00	\$ 76,230.00
114	79	3000	Hot Bituminous Pavement Superpave FAA 43	TON	1,362	\$ 55.00	\$ 74,910.00
115	80	3000	PG 58S-34 Asphalt Cement	TON	76	\$ 600.00	\$ 45,600.00
116	81	3200	Concrete Curb and Gutter (Type 1A Inflow)	LF	2,343	\$ 25.00	\$ 58,575.00
117	81	3200	Concrete Curb and Gutter (Type 1B Outflow)	LF	225	\$ 30.00	\$ 6,750.00
118	81	3200	Concrete Curb and Gutter (Type Valley Gutter)	LF	78	\$ 40.00	\$ 3,120.00
119	82	3300	6" Concrete Driveway	SY	885	\$ 120.00	\$ 106,200.00
120	83	3300	4" Concrete Sidewalk	SY	327	\$ 45.00	\$ 14,715.00
121	84	3400	Flexible Delineator	EA	8	\$ 75.00	\$ 600.00
122	85	3400	Sign Sheeting	SF	87.3	\$ 50.00	\$ 4,365.00
123	86	3500	4" Pavement Marking	LF	1,176	\$ 1.00	\$ 1,176.00
124	86	3500	8" Pavement Marking	LF	190	\$ 4.00	\$ 760.00
125	86	3500	24" Pavement Marking	LF	82	\$ 25.00	\$ 2,050.00
126	87	3500	Pavement Marking Message	SF	179	\$ 20.00	\$ 3,580.00
127	88	3600	Type A Yard Light	EA	1	\$ 5,000.00	\$ 5,000.00
128	89	3700	Seeding and Hydromulching	AC	1.7	\$ 3,500.00	\$ 5,950.00
129	90	32 31 32	Wood Composite Fence	LS	1	\$ 11,000.00	\$ 11,000.00
130	91	Div 33, 40, 43	Park Street Lift Station General Construction	LS	1	\$ 410,000.00	\$ 410,000.00
131	92	Div 26	Park Street Lift Station Electrical, Instrumentation and Controls, and Programming	LS	1	\$ 97,000.00	\$ 97,000.00
132	93	26 32 13	Park Street Lift Station Generator	LS	1	\$ 66,000.00	\$ 66,000.00
Subtotal Phase MI-4A Construction Cost							\$ 2,645,219.75
5% Contingency							\$ 132,260.99
Subtotal Phase MI-4A Opinion of Cost							\$ 2,777,480.74