

Inliner Solutions, LLC
 28529 Goddard Rd. Ste 106
 Romulus, MI 48174
 734-955-2508

Pipeline Management Co., LLC
 2673 Maple Rd.
 Milford, MI 48381
 248-685-1500

Engineer Estimate

Item	Quantity	Unit	Unit Price	Total Cost	Unit Price	Total Cost	Unit Price	Total Cost	
DIVISION 1: PIPE REPLACEMENTS AND SPOT REPAIRS									
1	Replacement Location #1	1	LS	\$ 97,410.00	\$ 97,410.00	\$ 145,000.00	\$ 145,000.00	\$ 172,100.00	\$ 172,100.00
2	Replacement Location #2	1	LS	\$ 21,708.00	\$ 21,708.00	\$ 30,000.00	\$ 30,000.00	\$ 14,100.00	\$ 14,100.00
3	Replacement Location #3	1	LS	\$ 173,385.00	\$ 173,385.00	\$ 250,000.00	\$ 250,000.00	\$ 279,600.00	\$ 279,600.00
4	Replacement Location #4	1	LS	\$ 89,051.00	\$ 89,051.00	\$ 125,000.00	\$ 125,000.00	\$ 32,700.00	\$ 32,700.00
5	Replacement Location #5	1	LS	\$ 366,228.00	\$ 366,228.00	\$ 750,000.00	\$ 750,000.00	\$ 406,200.00	\$ 406,200.00
6	Replacement Location #6	1	LS	\$ 70,240.00	\$ 70,240.00	\$ 105,000.00	\$ 105,000.00	\$ 24,300.00	\$ 24,300.00
7	Replacement Location #7	1	LS	\$ 88,431.00	\$ 88,431.00	\$ 135,000.00	\$ 135,000.00	\$ 40,600.00	\$ 40,600.00
8	Replacement Location #8	1	LS	\$ 89,941.00	\$ 89,941.00	\$ 130,000.00	\$ 130,000.00	\$ 115,600.00	\$ 115,600.00
9	Replacement Location #9	1	LS	\$ 489,061.00	\$ 489,061.00	\$ 1,200,000.00	\$ 1,200,000.00	\$ 616,800.00	\$ 616,800.00
10	Replacement Location #10	1	LS	\$ 271,169.00	\$ 271,169.00	\$ 400,000.00	\$ 400,000.00	\$ 484,200.00	\$ 484,200.00
11	Permit Allowance	1	LS	\$ 500.00	\$ 500.00	\$ 500.00	\$ 500.00	\$ 10,000.00	\$ 10,000.00
12	As-Needed Conc. Pavt, Reinf., 9 inch	0	SYD	\$ 325.00	\$ -	\$ 600.00	\$ -	\$ 100.00	\$ -
13	As-Needed HMA, MDOT 1300T	0	TON	\$ 425.00	\$ -	\$ 700.00	\$ -	\$ 90.00	\$ -
14	As-Needed HMA, MDOT 1100L	0	TON	\$ 425.00	\$ -	\$ 700.00	\$ -	\$ 90.00	\$ -
15	As-Needed Hand Patch, HMA	0	TON	\$ 500.00	\$ -	\$ 900.00	\$ -	\$ 200.00	\$ -
16	As-Needed Contaminated Soils Disposal (Hazardous)	0	CYD	\$ 216.00	\$ -	\$ 400.00	\$ -	\$ 80.00	\$ -
17	As-Needed Contaminated Soils Disposal (Non-Hazardous)	0	CYD	\$ 134.00	\$ -	\$ 250.00	\$ -	\$ 40.00	\$ -
DIVISION 1 TOTALS:				\$ 1,757,124.00	*	\$ 3,270,500.00	*	\$ 2,196,200.00	
DIVISION 2: TRENCHLESS PIPE REHABILITATION									
18	Chemical Pipe Joint Grouting, (8")	42	EA	\$ 1,826.00	\$ 76,692.00	\$ 2,000.00	\$ 84,000.00	\$ 520.00	\$ 21,840.00
19	Chemical Pipe Joint Grouting, (10")	240	EA	\$ 1,862.00	\$ 446,880.00	\$ 2,000.00	\$ 480,000.00	\$ 520.00	\$ 124,800.00
20	Chemical Pipe Joint Grouting, (12")	66	EA	\$ 1,862.00	\$ 122,892.00	\$ 2,200.00	\$ 145,200.00	\$ 520.00	\$ 34,320.00
21	Chemical Pipe Joint Grouting, (15")	21	EA	\$ 1,862.00	\$ 39,102.00	\$ 2,500.00	\$ 52,500.00	\$ 590.00	\$ 12,390.00
22	Chemical Pipe Joint Grouting, (18")	60	EA	\$ 1,862.00	\$ 111,720.00	\$ 2,750.00	\$ 165,000.00	\$ 590.00	\$ 35,400.00
23	Chemical Pipe Joint Grouting, (21")	0	EA	\$ 2,000.00	\$ -	\$ 3,000.00	\$ -	\$ 590.00	\$ -
24	Chemical Pipe Joint Grouting, (24")	5	EA	\$ 2,069.00	\$ 10,345.00	\$ 3,500.00	\$ 17,500.00	\$ 590.00	\$ 2,950.00
25	Sewer, Cured-In-Place Pipe Lining, (8")	882	LFT	\$ 60.00	\$ 52,920.00	\$ 95.00	\$ 83,790.00	\$ 60.00	\$ 52,920.00
26	Sewer, Cured-In-Place Pipe Lining, (10")	8,487	LFT	\$ 63.00	\$ 534,681.00	\$ 98.00	\$ 831,726.00	\$ 60.00	\$ 509,220.00
27	Sewer, Cured-In-Place Pipe Lining, (12")	2,369	LFT	\$ 66.00	\$ 156,354.00	\$ 145.00	\$ 343,505.00	\$ 60.00	\$ 142,140.00
28	Sewer, Cured-In-Place Pipe Lining, (15")	354	LFT	\$ 104.00	\$ 36,816.00	\$ 180.00	\$ 63,720.00	\$ 80.00	\$ 28,320.00
29	Sewer, Cured-In-Place Pipe Lining, (18")	1,556	LFT	\$ 129.00	\$ 200,724.00	\$ 215.00	\$ 334,540.00	\$ 80.00	\$ 124,480.00
30	Sewer, Cured-In-Place Pipe Lining, (21")	765	LFT	\$ 143.00	\$ 109,395.00	\$ 225.00	\$ 172,125.00	\$ 80.00	\$ 61,200.00
31	Sewer, Cured-In-Place Pipe Lining, (24")	0	LFT	\$ 175.00	\$ -	\$ 350.00	\$ -	\$ 80.00	\$ -
32	Sewer, Cured-In-Place Pipe Lining, Sectional, 4-foot (8")	26	EA	\$ 4,525.00	\$ 117,650.00	\$ 3,500.00	\$ 91,000.00	\$ 2,200.00	\$ 57,200.00
33	Sewer, Cured-In-Place Pipe Lining, Sectional, 4-foot (10")	58	EA	\$ 4,525.00	\$ 262,450.00	\$ 3,750.00	\$ 217,500.00	\$ 2,200.00	\$ 127,600.00
34	Sewer, Cured-In-Place Pipe Lining, Sectional, 4-foot (12")	14	EA	\$ 4,525.00	\$ 63,350.00	\$ 4,000.00	\$ 56,000.00	\$ 2,200.00	\$ 30,800.00
35	Sewer, Cured-In-Place Pipe Lining, Sectional, 4-foot (15")	10	EA	\$ 7,638.00	\$ 76,380.00	\$ 4,500.00	\$ 45,000.00	\$ 2,200.00	\$ 22,000.00
36	Sewer, Cured-In-Place Pipe Lining, Sectional, 4-foot (18")	12	EA	\$ 7,739.00	\$ 92,868.00	\$ 5,500.00	\$ 66,000.00	\$ 2,200.00	\$ 26,400.00
37	Sewer, Cured-In-Place Pipe Lining, Sectional, 4-foot (21")	0	EA	\$ 8,000.00	\$ -	\$ 7,500.00	\$ -	\$ 2,200.00	\$ -
38	Sewer, Cured-In-Place Pipe Lining, Sectional, 4-foot (24")	2	EA	\$ 8,055.00	\$ 16,110.00	\$ 10,000.00	\$ 20,000.00	\$ 2,200.00	\$ 4,400.00
DIVISION 2 TOTALS:				\$ 2,527,329.00	*	\$ 3,269,106.00	*	\$ 1,418,380.00	

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Engineer Estimate

Item	Quantity	Unit	Unit Price	Total Cost	Unit Price	Total Cost	Unit Price	Total Cost
DIVISION 3: MANHOLE REHABILITATION								
39	Remove & Replace Cover	3	EA	\$ 4,669.00	\$ 14,007.00	\$ 5,500.00	\$ 16,500.00	\$ 1,900.00 \$ 5,700.00
40	Remove & Reset Frame & Cover (Vegetation/Gravel)	10	EA	\$ 3,406.00	\$ 34,060.00	\$ 4,750.00	\$ 47,500.00	\$ 1,600.00 \$ 16,000.00
41	Remove & Reset Frame & Cover (Pavement)	5	EA	\$ 9,536.00	\$ 47,680.00	\$ 11,800.00	\$ 59,000.00	\$ 2,700.00 \$ 13,500.00
42	Remove & Replace Frame & Cover (Vegetation/Gravel)	3	EA	\$ 4,794.00	\$ 14,382.00	\$ 6,000.00	\$ 18,000.00	\$ 2,900.00 \$ 8,700.00
43	Remove & Replace Frame & Cover (Pavement)	3	EA	\$ 10,853.00	\$ 32,559.00	\$ 13,600.00	\$ 40,800.00	\$ 4,000.00 \$ 12,000.00
44	Replace Chimney	15	EA	\$ 1,883.00	\$ 28,245.00	\$ 2,750.00	\$ 41,250.00	\$ 3,600.00 \$ 54,000.00
45	Adjust Elevation (< 2 ft) to Bring to Grade	1	EA	\$ 5,987.00	\$ 5,987.00	\$ 8,500.00	\$ 8,500.00	\$ 1,900.00 \$ 1,900.00
46	Adjust Elevation 4" Above Grade	2	EA	\$ 2,260.00	\$ 4,520.00	\$ 3,500.00	\$ 7,000.00	\$ 1,900.00 \$ 3,800.00
47	Adjust Elevation 2" Above Grade	1	EA	\$ 2,261.00	\$ 2,261.00	\$ 3,750.00	\$ 3,750.00	\$ 1,900.00 \$ 1,900.00
48	Apply External Manhole Wrap/Seal	14	EA	\$ 986.00	\$ 13,804.00	\$ 1,400.00	\$ 19,600.00	\$ 2,000.00 \$ 28,000.00
49	Apply Internal Chemical Chimney Wrap/Seal	1	EA	\$ 609.00	\$ 609.00	\$ 1,250.00	\$ 1,250.00	\$ 300.00 \$ 300.00
50	Seal Joint(s) with Mortar	26	EA	\$ 49.00	\$ 1,274.00	\$ 150.00	\$ 3,900.00	\$ 900.00 \$ 23,400.00
51	Seal Leak(s) with Hydrophobic Grout	77	EA	\$ 49.00	\$ 3,773.00	\$ 150.00	\$ 11,550.00	\$ 900.00 \$ 69,300.00
52	Apply Internal Manhole Lining (per linear ft. depth)	220	LFT	\$ 231.00	\$ 50,820.00	\$ 275.00	\$ 60,500.00	\$ 1,600.00 \$ 352,000.00
53	Furnish and Install O-Ring	1	EA	\$ 1,217.00	\$ 1,217.00	\$ 1,000.00	\$ 1,000.00	\$ 100.00 \$ 100.00
54	Complete Manhole Rebuild	1	EA	\$ 13,212.00	\$ 13,212.00	\$ 18,500.00	\$ 18,500.00	\$ 1,800.00 \$ 1,800.00
55	Point Inside Chimney with Mortar	79	EA	\$ 304.00	\$ 24,016.00	\$ 150.00	\$ 11,850.00	\$ 900.00 \$ 71,100.00
56	Vactor Manhole	4	EA	\$ 609.00	\$ 2,436.00	\$ 500.00	\$ 2,000.00	\$ 120.00 \$ 480.00
57	Furnish and Install new Sanitary Manhole (Vegetation)	1	EA	\$ 18,259.00	\$ 18,259.00	\$ 29,500.00	\$ 29,500.00	\$ 4,200.00 \$ 4,200.00
58	As-Needed Conc. Pavt, Reinf., 9 inch	0	SYD	\$ 309.00	\$ -	\$ 500.00	\$ -	\$ 100.00 \$ -
59	As-Needed HMA, MDOT 1300T	0	TON	\$ 414.00	\$ -	\$ 600.00	\$ -	\$ 90.00 \$ -
60	As-Needed HMA, MDOT 1100L	0	TON	\$ 414.00	\$ -	\$ 600.00	\$ -	\$ 90.00 \$ -
61	As-Needed Hand Patch, HMA	0	TON	\$ 483.00	\$ -	\$ 800.00	\$ -	\$ 200.00 \$ -
62	As-Needed Contaminated Soils Disposal (Hazardous)	0	CYD	\$ 184.00	\$ -	\$ 350.00	\$ -	\$ 80.00 \$ -
63	As-Needed Contaminated Soils Disposal (Non-Hazardous)	0	CYD	\$ 115.00	\$ -	\$ 200.00	\$ -	\$ 40.00 \$ -

DIVISION 3 TOTALS: \$ 313,121.00 \$ 401,950.00 \$ 668,180.00

Total Bid Amount: \$ 4,597,574.00 * \$ 6,941,556.00 * Subtotal: \$ 4,282,760.00

As Read Bid Amount \$ 4,578,642.00 \$ 6,926,056.00 10% Contingency: \$ 428,276.00
 Total: \$ 4,711,036.00

Red text with * indicates a mathematical error was corrected