



**2022 EVALUATION AND REHABILITATION TOOLBOX  
 FOR WASTEWATER COLLECTION SYSTEM  
 CITY OF JOPLIN, MISSOURI**

ENGINEER'S ESTIMATE = \$2,835,000

**Ace Pipe  
 Cleaning, Inc.  
 Kansas City, MO**

**Hydro-Klean,  
 LLC  
 Des Moines, IA**

SEWER LINE CLEANING AND CCTV INSPECTION				
Item No.	Item Description	Unit	Unit Price	Unit Price
1.00	Mobilization for Sewer Line Cleaning and Inspection (Each Work Order)	LS	\$ 1,500.00	\$ 1,400.00
<b>Light Cleaning (Up to 3 Cleaning Passes)</b>				
1.01	6" to 10" Diameter Light Cleaning	LF	\$ 1.12	\$ 0.89
1.02	12" to 16" Diameter Light Cleaning	LF	\$ 1.12	\$ 0.89
1.03	18" to 21" Diameter Light Cleaning	LF	\$ 1.40	\$ 1.10
1.04	24" to 27" Diameter Light Cleaning	LF	\$ 2.24	\$ 2.00
1.05	30" to 32" Diameter Light Cleaning	LF	\$ 3.36	\$ 2.00
1.06	36" to 38" Diameter Light Cleaning	LF	\$ 3.92	\$ 2.50
1.07	42" to 48" Diameter Light Cleaning	LF	\$ 5.04	\$ 4.00
1.08	54" to 60" Diameter Light Cleaning	LF	\$ 5.32	\$ 4.50
<b>Heavy Cleaning (4 to 10 Cleaning Passes)</b>				
1.09	6" to 10" Diameter Heavy Cleaning	LF	\$ 1.23	\$ 1.10
1.10	12" to 16" Diameter Heavy Cleaning	LF	\$ 2.02	\$ 1.10
1.11	18" to 21" Diameter Heavy Cleaning	LF	\$ 5.60	\$ 5.00
1.12	24" to 27" Diameter Heavy Cleaning	LF	\$ 13.44	\$ 5.00
1.13	30" to 32" Diameter Heavy Cleaning	LF	\$ 14.56	\$ 12.00
1.14	36" to 38" Diameter Heavy Cleaning	LF	\$ 15.68	\$ 12.00
1.15	42" to 48" Diameter Heavy Cleaning	LF	\$ 17.92	\$ 15.00
1.16	54" to 60" Diameter Heavy Cleaning	LF	\$ 20.16	\$ 19.00
<b>CCTV Inspection (PACP Compliant)</b>				
1.17	6" to 10" Diameter CCTV Inspection	LF	\$ 1.40	\$ 1.00
1.18	12" to 16" Diameter CCTV Inspection	LF	\$ 1.40	\$ 1.00
1.19	18" to 21" Diameter CCTV Inspection	LF	\$ 1.40	\$ 1.00
1.20	24" to 27" Diameter CCTV Inspection	LF	\$ 1.40	\$ 1.00
1.21	30" to 32" Diameter CCTV Inspection	LF	\$ 2.24	\$ 1.00
1.22	36" to 38" Diameter CCTV Inspection	LF	\$ 2.24	\$ 1.00
1.23	42" to 48" Diameter CCTV Inspection	LF	\$ 2.24	\$ 1.00
1.24	54" to 60" Diameter CCTV Inspection	LF	\$ 2.24	\$ 1.00

LATERAL SEWER LINE CLEANING AND CCTV INSPECTION				
Item No.	Item Description	Unit		
2.00	Mobilization for Lateral Sewer Line Cleaning and Inspection (Each Work Order)	LS	\$ 1,000.00	\$ 1,400.00
2.01	Lateral Inspection Setup Per Manhole to Manhole Segment	EA	\$ 225.00	\$ 125.00
2.02	4" to 6" Diameter Lateral Sewer Line Light Cleaning	LF	\$ 3.35	\$ 65.00
2.03	4" to 6" Diameter Lateral Sewer Line Heavy Cleaning	LF	\$ 95.00	\$ 75.00
2.04	4" to 6" Diameter Lateral Sewer Line CCTV Inspection	LF	\$ 3.35	\$ 75.00
2.05	Locate for Cleanout, via Lateral Launch Mainline Camera	EA	\$ 225.00	\$ 200.00
LARGE DIAMETER SEWER LINE INSPECTION AND SONAR AND LASER PROFILING				
Item No.	Item Description	Unit		
3.00	Mobilization for Large Diameter Sewer Line Inspection (Each Work Order)	LS	\$ 1,500.00	\$ 1,400.00
3.01	≥18" Diameter Large Dia. Sewer Line Inspection	LF	\$ 5.88	\$ 12.00
MANHOLE CLEANING AND INSPECTION				
Item No.	Item Description	Unit		
4.00	Mobilization for Manhole Cleaning and Inspection (Each Work Order)	LS	\$ 1,500.00	\$ 700.00
4.01	Manhole Cleaning	EA	\$ 40.00	\$ 250.00
4.02	Manhole Inspection	EA	\$ 150.00	\$ 125.00
FOAMING ROOT CONTROL				
Item No.	Item Description	Unit		
5.00	Mobilization for Foaming Root Control (Each Work Order)	LS	\$ 1,750.00	\$ 3,500.00
5.01	8" to 12" Diameter Foaming Root Control	LF	\$ 1.45	\$ 5.00
5.02	14" to 18" Diameter Foaming Root Control	LF	\$ 1.60	\$ 5.00
SMOKE TESTING				
Item No.	Item Description	Unit		
6.00	Mobilization for Smoke Testing (Each Work Order)	LS	\$ 2,040.00	\$ 1,400.00
6.01	8" to 30" Diameter Smoke Testing	LF	\$ 0.46	\$ 0.50
TRANSMISSIVE ACOUSTIC SEWER INSPECTION				
Item No.	Item Description	Unit		
7.00	Mobilization for Transmissive Acoustic Inspection (Each Work Order)	LS	\$ 2,000.00	\$ 3,000.00
7.01	8" to 48" Diameter Transmissive Acoustic Inspection	LF	\$ 0.35	\$ 10.00

## SEWER LINE CLEANING, CCTV INSPECTION, &amp; MISCELLANEOUS SERVICES

**Regular Rates (A minimum 4-hour charge shall be applied to all hourly services to account for mobilization)**

Item No.	Item Description	Unit		
8.00	Operator and TV Truck	HR	\$ 190.00	\$ 200.00
8.01	Operator and Jetter Unit	HR	\$ 175.00	\$ 200.00
8.02	Operator and Jetter/Combo Unit	HR	\$ 190.00	\$ 200.00
8.03	Operator and Jumbo Jetter/Combo Unit	HR	\$ 205.00	\$ 200.00
8.04	Operator and Wet Vacuum	HR	\$ 175.00	\$ 200.00
8.05	Operator and Dry Vacuum	HR	\$ 185.00	\$ 200.00
8.06	Operator and Waterblaster	HR	\$ 185.00	\$ 200.00
8.07	Operator and Bucket Machines	HR	\$ 280.00	\$ 200.00
8.08	2-Operators, TV Truck, and Jetter Unit	HR	\$ 280.00	\$ 350.00
8.09	2-Operators, TV Truck, and Jetter/Combo Unit	HR	\$ 320.00	\$ 350.00
8.10	Additional Laborer	HR	\$ 90.00	\$ 80.00
8.11	Support Truck (Safety, Fuel, and/or Pipe Supplies)	HR	\$ 70.00	\$ 25.00
<b>Overtime Rates</b>				
8.12	Operator and TV Truck	HR	\$ 195.00	\$ 250.00
8.13	Operator and Jetter Unit	HR	\$ 180.00	\$ 250.00
8.14	Operator and Jetter/Combo Unit	HR	\$ 200.00	\$ 250.00
8.15	Operator and Jumbo Jetter/Combo Unit	HR	\$ 225.00	\$ 250.00
8.16	Operator and Wet Vacuum	HR	\$ 175.00	\$ 250.00
8.17	Operator and Dry Vacuum	HR	\$ 195.00	\$ 250.00
8.18	Operator and Waterblaster	HR	\$ 195.00	\$ 300.00
8.19	Operator and Bucket Machines	HR	\$ 300.00	\$ 350.00
8.20	2-Operators, TV Truck, and Jetter Unit	HR	\$ 310.00	\$ 370.00
8.21	2-Operators, TV Truck, and Jetter/Combo Unit	HR	\$ 360.00	\$ 370.00
8.22	Additional Laborer	HR	\$ 100.00	\$ 100.00
8.23	Support Truck (Safety, Fuel, and/or Pipe Supplies)	HR	\$ 70.00	\$ 25.00
<b>Accessories</b>				
8.24	Powdered Lime	LBS	\$ 3.00	\$ 275.00
8.25	6-Inch Plastic Vacuum Hose	100' Roll	\$ 175.00	\$ 170.00
8.26	6-Inch Metal Flex Hose	LF	\$ 15.00	\$ 22.50
8.27	Confined Space Equipment - Tripod, Gas Detector, Etc.	DAY	\$ 150.00	\$ 125.00
8.28	Hurricane Nozzle	HR	\$ 35.00	\$ 25.00

LINING OF EXISTING SEWERS - CIPP				
Item No.	Item Description	Unit		
9.00	Mobilization For MH to MH CIPP (Each Work Order)	LS	\$ 9,000.00	\$ 9,000.00
9.01	8" Diameter (6 mm Liner Thickness) CIPP	LF	\$ 29.50	\$ 31.35
9.02	8" Diameter (7.5 mm Liner Thickness) CIPP	LF	\$ 30.25	\$ 33.00
9.03	10" Diameter (6 mm Liner Thickness) CIPP	LF	\$ 34.75	\$ 35.20
9.04	10" Diameter (7.5 mm Liner Thickness) CIPP	LF	\$ 33.75	\$ 37.68
9.05	12" Diameter (6 mm Liner Thickness) CIPP	LF	\$ 43.00	\$ 44.55
9.06	12" Diameter (7.5 mm Liner Thickness) CIPP	LF	\$ 46.00	\$ 47.85
9.07	12" Diameter (9.0 mm Liner Thickness) CIPP	LF	\$ 48.00	\$ 55.00
9.08	12" Diameter (10.5 mm Liner Thickness) CIPP	LF	\$ 55.00	\$ 60.23
9.09	12" Diameter (12.0 mm Liner Thickness) CIPP	LF	\$ 60.00	\$ 64.35
9.10	15" Diameter (7.5 mm Liner Thickness) CIPP	LF	\$ 83.00	\$ 73.15
9.11	15" Diameter (9.0 mm Liner Thickness) CIPP	LF	\$ 87.00	\$ 83.60
9.12	15" Diameter (10.5 mm Liner Thickness) CIPP	LF	\$ 90.00	\$ 88.00
9.13	15" Diameter (12.0 mm Liner Thickness) CIPP	LF	\$ 92.00	\$ 90.48
9.14	18" Diameter (9.0 mm Liner Thickness) CIPP	LF	\$ 97.00	\$ 93.23
9.15	18" Diameter (10.5 mm Liner Thickness) CIPP	LF	\$ 100.00	\$ 98.45
9.16	18" Diameter (12.0 mm Liner Thickness) CIPP	LF	\$ 115.00	\$ 103.95
9.17	18" Diameter (13.5 mm Liner Thickness) CIPP	LF	\$ 135.00	\$ 127.05
CIPP POINT REPAIRS (5-FOOT LONG)				
Item No.	Item Description	Unit		
10.00	Mobilization for CIPP Point Repair (Each Work Order)	LS	\$ 2,000.00	\$ 2,500.00
10.01	8" Diameter CIPP Point Repair	EA	\$ 1,600.00	\$ 1,975.00
10.02	10" Diameter CIPP Point Repair	EA	\$ 1,700.00	\$ 2,000.00
10.03	12" Diameter CIPP Point Repair	EA	\$ 1,800.00	\$ 2,100.00
10.04	15" Diameter CIPP Point Repair	EA	\$ 2,000.00	\$ 3,200.00
10.05	18" Diameter CIPP Point Repair	EA	\$ 4,500.00	\$ 5,000.00
LINING OF EXISTING SEWERS - THERMOFORM (FOLD AND FORM) PIPE				
Item No.	Item Description	Unit		
11.00	Mobilization for Thermoform CIPP (Each Work Order)	LS	\$ 9,000.00	\$ 6,000.00
11.01	8" Diameter Thermoform CIPP	LF	\$ 42.00	\$ 40.00
11.02	10" Diameter Thermoform CIPP	LF	\$ 60.00	\$ 55.00
11.03	12" Diameter Thermoform CIPP	LF	\$ 90.00	\$ 80.00
11.04	15" Diameter Thermoform CIPP	LF	\$ 150.00	\$ 130.00
11.05	18" Diameter Thermoform CIPP	LF	\$ 198.00	\$ 175.00

LINING OF EXISTING SEWERS - GLASS REINFORCED PLASTIC (GRP) CIPP (CURED WITH UV-LIGHT)				
Item No.	Item Description	Unit		
12.00	Mobilization for GRP CIPP (Each Work Order)	LS	\$ 9,000.00	\$ 6,000.00
12.01	8" Diameter GRP CIPP	LF	\$ 48.00	\$ 50.00
12.02	10" Diameter GRP CIPP	LF	\$ 63.00	\$ 55.00
12.03	12" Diameter GRP CIPP	LF	\$ 84.00	\$ 65.00
12.04	15" Diameter GRP CIPP	LF	\$ 118.00	\$ 90.00
12.05	18" Diameter GRP CIPP	LF	\$ 153.00	\$ 100.00
LINING OF EXISTING SEWERS - CENTRIFUGALLY CAST CONCRETE PIPE (CCCP)				
Item No.	Item Description	Unit		
13.00	Mobilization for CCCP (Each Work Order)	LS	\$ 3,500.00	\$ 5,000.00
13.01	36" Diameter CCCP	LF	\$ 396.00	\$ 400.00
13.02	38" Diameter CCCP	LF	\$ 418.00	\$ 400.00
13.03	42" Diameter CCCP	LF	\$ 462.00	\$ 450.00
13.04	48" Diameter CCCP	LF	\$ 528.00	\$ 475.00
13.05	54" Diameter CCCP	LF	\$ 594.00	\$ 525.00
13.06	60" Diameter CCCP	LF	\$ 660.00	\$ 600.00
TRENCHLESS LATERAL CONNECTION REPAIR (LCR)				
Item No.	Item Description	Unit		
14.00	Mobilization for Trenchless LCR (Each Work Order)	LS	\$ 2,500.00	\$ 4,000.00
14.01	Trenchless LCR Setup Per Manhole to Manhole Segment	EA	\$ 500.00	\$ 650.00
14.02	Ambient Steam Cured LCR - 8" to 12" Diameter Main, 4" to 6" Diameter Lateral, Up to 18" Long	EA	\$ 1,400.00	\$ 1,550.00
14.03	Ambient Steam Cured LCR - 15" to 21" Diameter Main, 4" to 6" Diameter Lateral, Up to 18" Long	EA	\$ 3,500.00	\$ 5,250.00
14.04	Additional Steam Cured Lateral Liner – 8" to 21" Diameter Main, 4" to 6" Diameter Lateral, > 18" Long	LF	\$ 175.00	\$ 225.00
14.05	UV Light Cured LCR - 8" to 12" Dia. Main, 4" to 6" Diameter Lateral, Up to 18" Long	EA	\$ 1,400.00	\$ 1,800.00
14.06	UV Light Cured LCR - 15" to 21" Dia. Main, 4" to 6" Diameter Lateral, Up to 18" Long	EA	\$ 4,000.00	\$ 5,000.00
14.07	Additional UV Light Cured Lateral Liner – 8" to 21" Diameter Main, 4" to 6" Diameter Lateral, > 18" Long	LF	\$ 175.00	\$ 225.00
14.08	Lateral Liner Terminating in Manhole, 4" to 6" Diameter	EA	\$ 1,850.00	\$ 2,250.00
14.09	In-Lateral Transition from 6" to 4" Diameter or 8" to 6" Diameter	EA	\$ 1,000.00	\$ 1,500.00
14.10	Mainline Manhole Drops, 8" to 12" Diameter	EA	\$ 4,500.00	\$ 5,000.00

PRESSURE TESTING AND GROUTING OF SEWER LINE JOINTS				
Item No.	Item Description	Unit		
15.00	Mobilization for Sewer Joint Testing and Grouting (Each Work Order)	LS	\$ 1,500.00	\$ 1,400.00
15.01	Testing of 8" Diameter Pipe Joints	EA	\$ 50.00	\$ 60.00
15.02	Testing of 10" Diameter Pipe Joints	EA	\$ 50.00	\$ 60.00
15.03	Testing of 12" Diameter Pipe Joints	EA	\$ 50.00	\$ 60.00
15.04	Grouting of 8" Diameter Pipe Joints	EA	\$ 30.00	\$ 30.00
15.05	Grouting of 10" Diameter Pipe Joints	EA	\$ 30.00	\$ 30.00
15.06	Grouting of 12" Diameter Pipe Joints	EA	\$ 30.00	\$ 30.00
15.07	Testing Lateral Connections on an 8" Diameter Sewer Main	EA	\$ 425.00	\$ 500.00
15.08	Testing Lateral Connections on a 10" Diameter Sewer Main	EA	\$ 425.00	\$ 500.00
15.09	Testing Lateral Connections on a 12" Diameter Sewer Main	EA	\$ 425.00	\$ 500.00
15.10	Grouting Lateral Connections on an 8" Diameter Sewer Main	EA	\$ 100.00	\$ 100.00
15.11	Grouting Lateral Connections on a 10" Diameter Sewer Main	EA	\$ 100.00	\$ 100.00
15.12	Grouting Lateral Connections on a 12" Diameter Sewer Main	EA	\$ 100.00	\$ 100.00
15.13	Testing of Small Diameter Sewer Lines Connected to Manholes	EA	\$ 425.00	\$ 500.00
15.14	Grouting of Small Diameter Sewer Lines Connected to Manholes	EA	\$ 100.00	\$ 100.00
15.15	Injectable Urethane Grout	GAL	\$ 15.00	\$ 25.00
15.16	Injectable Acrylamide Grout	GAL	\$ 15.00	\$ 25.00

MANHOLE FRAME AND COVER REPLACEMENT				
Item No.	Item Description	Unit		
16.00	Mobilization for MH Frame and Cover Replacement (Each Work Order)	LS	\$ 1,250.00	\$ 29.40
16.01	Frame and Cover Under Arterial Street (Material)	EA	\$ 435.00	\$ 920.00
16.02	Frame and Cover Not Under Arterial Street (Material)	EA	\$ 435.00	\$ 680.00
16.03	Under Turf (Installation)	EA	\$ 925.00	\$ 500.00
16.04	Under Alleyway (Installation)	EA	\$ 1,125.00	\$ 925.00
16.05	Under Pavement (Installation)	EA	\$ 2,800.00	\$ 1,700.00

CEMENTITIOUS & EPOXY MANHOLE RENOVATION AND PIPE END SEALS				
Item No.	Item Description	Unit		
17.00	Mobilization for Cementitious & Epoxy MH Renovation (Each Work Order)	LS	\$ 3,500.00	\$ 2,940.00
17.01	Cementitious (Type 1 Portland Cement) Lining	SF	\$ 14.25	\$ 12.50
17.02	Cementitious H <sub>2</sub> S Resistant (Fused Aluminate Clinker) Lining	SF	\$ 16.00	\$ 14.10
17.03	Cementitious Lining with Antimicrobial Additive	SF	\$ 18.00	\$ 17.03
17.04	Epoxy Lining	SF	\$ 20.50	\$ 25.00
17.05	Cementitious & Epoxy Lining	SF	\$ 35.75	\$ 15.70
17.06	Polyurea Lining	SF	\$ 10.25	\$ 11.20
17.07	Polyurea Lining with Foam Backing	SF	\$ 20.25	\$ 22.10

CIPP End Seals					
17.08	Mobilization for CIPP End Seals (Each Work Order)	LS	\$	3,000.00	\$ 2,000.00
17.09	8" Diameter CIPP End Seal	EA	\$	700.00	\$ 600.00
17.10	10" Diameter CIPP End Seal	EA	\$	800.00	\$ 650.00
17.11	12" Diameter CIPP End Seal	EA	\$	900.00	\$ 700.00
17.12	15" Diameter CIPP End Seal	EA	\$	1,000.00	\$ 750.00
17.13	18" Diameter CIPP End Seal	EA	\$	1,100.00	\$ 900.00

FLEXIBLE MANHOLE CHIMNEY SEALANT					
Item No.	Item Description	Unit			
18.00	Mobilization for Flexible MH Chimney Sealant (Each Work Order)	LS	\$	2,500.00	\$ 2,940.00
18.01	Chimney Sealant	SF	\$	215.00	\$ 100.00

MANHOLE RENOVATION USING CIPM					
Item No.	Item Description	Unit			
19.00	Mobilization for CIPM Renovation (Each Work Order)	LS	\$	3,500.00	\$ 2,940.00
19.01	4' Diameter CIPM (Up to 6' Deep)	EA	\$	5,460.00	\$ 4,800.00
19.02	4' Diameter CIPM Extra Depth	VF	\$	910.00	\$ 550.00
19.03	5' Diameter CIPM (Up to 6' Deep)	EA	\$	8,400.00	\$ 6,000.00
19.04	5' Diameter CIPM Extra Depth	VF	\$	1,400.00	\$ 687.50
19.05	6' Diameter CIPM (Up to 6' Deep)	EA	\$	10,500.00	\$ 7,200.00
19.06	6" Diameter CIPM Extra Depth	VF	\$	1,750.00	\$ 825.00

MANHOLE GROUTING					
Item No.	Item Description	Unit			
20.00	Mobilization for MH Grouting (Each Work Order)	LS	\$	1,500.00	\$ 2,940.00
20.01	Setup Per Manhole	EA	\$	100.00	\$ 65.00
20.02	Manhole Grouting Labor, Including Operators and Equipment	HR	\$	280.00	\$ 250.00
20.03	Injectable Grout	GAL	\$	15.00	\$ 20.00

OPEN CUT SEWER LINE WORK 8" THROUGH 12" DIAMETER					
Item No.	Item Description	Unit			
21.00	Mobilization for Open Cut Sewer Line Work 8" to 12" Diameter (Each Work Order)	LS	\$	1,250.00	\$ 1,750.00
<b>Point Repair for 8" and 10" Diameter Existing Sewer Line</b>					
21.01	8" and 10" Dia. Point Repair, 0'-6' Deep Under Turf, Up to 10' Long	EA	\$	2,250.00	\$ 2,000.00
21.02	8" and 10" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Turf	LF	\$	118.00	\$ 110.00
21.03	8" and 10" Dia. Point Repair, 6'-12' Deep Under Turf, Up to 10' Long	EA	\$	2,550.00	\$ 2,250.00
21.04	8" and 10" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Turf	LF	\$	118.00	\$ 125.00
21.05	8" and 10" Point Repair, 12'-18' Deep Under Turf, Up to 10' Long	EA	\$	3,350.00	\$ 3,500.00
21.06	8" and 10" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Turf	LF	\$	195.00	\$ 225.00
21.07	8" and 10" Dia. Point Repair, 0'-6' Deep Under Alleyway, Up to 10' Long	EA	\$	2,800.00	\$ 2,500.00

21.08	8" and 10" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Alleyway	LF	\$ 138.00	\$ 250.00
21.09	8" and 10" Dia. Point Repair, 6'-12' Deep Under Alleyway, Up to 10' Long	EA	\$ 3,500.00	\$ 2,500.00
21.10	8" and 10" Point Repair, Additional Footage (>10'), 6'-12' Deep Under Alleyway	LF	\$ 165.00	\$ 145.00
21.11	8" and 10" Dia. Point Repair, 12'-18' Deep Under Alleyway, Up to 10' Long	EA	\$ 4,200.00	\$ 3,250.00
21.12	8" and 10" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Alleyway	LF	\$ 235.00	\$ 175.00
21.13	8" and 10" Dia. Point Repair, 0'-6' Deep Under Pavement, Up to 10' Long	EA	\$ 4,100.00	\$ 4,250.00
21.14	8" and 10" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Pavement	LF	\$ 245.00	\$ 250.00
21.15	8" and 10" Dia. Point Repair, 6'-12' Deep Under Pavement, Up to 10' Long	EA	\$ 4,600.00	\$ 4,000.00
21.16	8" and 10" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Pavement	LF	\$ 260.00	\$ 250.00
21.17	8" and 10" Dia. Point Repair, 12'-18' Deep Under Pavement, Up to 10' Long	EA	\$ 6,200.00	\$ 4,500.00
21.18	8" and 10" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Pavement	LF	\$ 385.00	\$ 260.00
<b>Installation of New 8" and 10" Diameter Sewer Line</b>				
21.19	New 8" to 10" Dia. Sewer Main, 0'-6' Deep Under Turf (Max 350')	LF	\$ 76.50	\$ 85.00
21.20	New 8" to 10" Dia. Sewer Main, 6'-12' Deep Under Turf (Max 350')	LF	\$ 102.00	\$ 110.00
21.21	New 8" to 10" Dia. Sewer Main, 12'-18' Deep Under Turf (Max 350')	LF	\$ 155.00	\$ 165.00
21.22	New 8" to 10" Dia. Sewer Main, 0'-6' Deep Under Alleyway (Max 350')	LF	\$ 110.00	\$ 95.00
21.23	New 8" to 10" Dia. Sewer Main, 6'-12' Deep Under Alleyway (Max 350')	LF	\$ 117.00	\$ 125.00
21.24	New 8" to 10" Dia. Sewer Main, 12'-18' Deep Under Alleyway (Max 350')	LF	\$ 165.00	\$ 175.00
21.25	New 8" to 10" Dia. Sewer Main, 0'-6' Deep Under Pavement (Max 350')	LF	\$ 205.00	\$ 205.00
21.26	New 8" to 10" Dia. Sewer Main, 6'-12' Deep Under Pavement (Max 350')	LF	\$ 235.00	\$ 235.00
21.27	New 8" to 10" Dia. Sewer Main, 12'-18' Deep Under Pavement (Max 350')	LF	\$ 300.00	\$ 285.00
21.28	Open Trench Stream Crossing for an 8" or 10" Dia. Sewer Line (Min. 20')	LF	\$ 260.00	\$ 275.00
<b>Point Repair for 12" Diameter Existing Sewer Line</b>				
21.29	12" Dia. Point Repair, 0'-6' Deep Under Turf, Up to 10' Long	EA	\$ 2,150.00	\$ 2,000.00
21.30	12" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Turf	LF	\$ 117.00	\$ 105.00
21.31	12" Dia. Point Repair, 6'-12' Deep Under Turf, Up to 10' Long	EA	\$ 2,500.00	\$ 2,500.00
21.32	12" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Turf	LF	\$ 123.00	\$ 130.00
21.33	12" Dia. Point Repair, 12'-18' Deep Under Turf, Up to 10' Long	EA	\$ 3,600.00	\$ 4,000.00
21.34	12" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Turf	LF	\$ 183.50	\$ 200.00
21.35	12" Dia. Point Repair, 0'-6' Deep Under Alleyway, Up to 10' Long	EA	\$ 2,650.00	\$ 2,600.00
21.36	12" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Alleyway	LF	\$ 138.00	\$ 150.00
21.37	12" Dia. Point Repair, 6'-12' Deep Under Alleyway, Up to 10' Long	EA	\$ 3,300.00	\$ 2,900.00
21.38	12" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Alleyway	LF	\$ 1,625.00	\$ 170.00
21.39	12" Dia. Point Repair, 12'-18' Deep Under Alleyway, Up to 10' Long	EA	\$ 4,400.00	\$ 3,600.00
21.40	12" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Alleyway	LF	\$ 225.00	\$ 260.00
21.41	12" Dia. Point Repair, 0'-6' Deep Under Pavement, Up to 10' Long	EA	\$ 4,400.00	\$ 4,000.00



21.42	12" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Pavement	LF	\$ 255.00	\$ 250.00
21.43	12" Dia. Point Repair, 6'-12' Deep Under Pavement, Up to 10' Long	EA	\$ 5,200.00	\$ 4,500.00
21.44	12" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Pavement	LF	\$ 280.00	\$ 290.00
21.45	12" Dia. Point Repair, 12'-18' Deep Under Pavement, Up to 10' Long	EA	\$ 6,600.00	\$ 6,750.00
21.46	12" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Pavement	LF	\$ 400.00	\$ 400.00
<b>Installation of New 12" Diameter Sewer Line</b>				
21.47	New 12" Dia. Sewer Main, 0'-6' Deep Under Turf (Max 350')	LF	\$ 115.00	\$ 90.00
21.48	New 12" Dia. Sewer Main, 6'-12' Deep Under Turf (Max 350')	LF	\$ 130.00	\$ 115.00
21.49	New 12" Dia. Sewer Main, 12'-18' Deep Under Turf (Max 350')	LF	\$ 145.00	\$ 175.00
21.50	New 12" Dia. Sewer Main, 0'-6' Deep Under Alleyway (Max 350')	LF	\$ 135.00	\$ 100.00
21.51	New 12" Dia. Sewer Main, 6'-12' Deep Under Alleyway (Max 350')	LF	\$ 155.00	\$ 135.00
21.52	New 12" Dia. Sewer Main, 12'-18' Deep Under Alleyway (Max 350')	LF	\$ 200.00	\$ 175.00
21.53	New 12" Dia. Sewer Main, 0'-6' Deep Under Pavement (Max 350')	LF	\$ 210.00	\$ 200.00
21.54	New 12" Dia. Sewer Main, 6'-12' Deep Under Pavement (Max 350')	LF	\$ 265.00	\$ 225.00
21.55	New 12" Dia. Sewer Main, 12'-18' Deep Under Pavement (Max 350')	LF	\$ 350.00	\$ 275.00
21.56	Open Trench Stream Crossing for a 12" Dia. Sewer Line (Min. 20')	LF	\$ 415.00	\$ 325.00

OPEN CUT SEWER LINE WORK 15" THROUGH 18" DIAMETER				
Item No.	Item Description	Unit		
22.00	Mobilization for Open Cut Sewer Line Work 15" to 18" Diameter (Each Work Order)	LS	\$ 1,250.00	\$ 1,500.00
<b>Point Repair for 15" Diameter Existing Sewer Line</b>				
22.01	15" Dia. Point Repair, 0'-6' Deep Under Turf, Up to 10' Long	EA	\$ 2,450.00	\$ 2,500.00
22.02	15" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Turf	LF	\$ 123.00	\$ 125.00
22.03	15" Dia. Point Repair, 6'-12' Deep Under Turf, Up to 10' Long	EA	\$ 2,650.00	\$ 2,750.00
22.04	15" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Turf	LF	\$ 138.00	\$ 150.00
22.05	15" Dia. Point Repair, 12'-18' Deep Under Turf, Up to 10' Long	EA	\$ 2,850.00	\$ 3,250.00
22.06	15" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Turf	LF	\$ 183.50	\$ 250.00
22.07	15" Dia. Point Repair, 0'-6' Deep Under Alleyway, Up to 10' Long	EA	\$ 2,700.00	\$ 3,000.00
22.08	15" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Alleyway	LF	\$ 137.50	\$ 150.00
22.09	15" Dia. Point Repair, 6'-12' Deep Under Alleyway, Up to 10' Long	EA	\$ 3,000.00	\$ 3,250.00
22.10	15" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Alleyway	LF	\$ 153.00	\$ 185.00
22.11	15" Dia. Point Repair, 12'-18' Deep Under Alleyway, Up to 10' Long	EA	\$ 3,700.00	\$ 4,250.00
22.12	15" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Alleyway	LF	\$ 250.00	\$ 75.00
22.13	15" Dia. Point Repair, 0'-6' Deep Under Pavement, Up to 10' Long	EA	\$ 3,750.00	\$ 4,350.00
22.14	15" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Pavement	LF	\$ 255.00	\$ 325.00
22.15	15" Dia. Point Repair, 6'-12' Deep Under Pavement, Up to 10' Long	EA	\$ 3,950.00	\$ 5,000.00
22.16	15" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Pavement	LF	\$ 365.00	\$ 375.00

22.17	15" Dia. Point Repair, 12'-18' Deep Under Pavement, Up to 10' Long	EA	\$ 5,100.00	\$ 7,000.00
22.18	15" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Pavement	LF	\$ 403.00	\$ 400.00
<b>Installation of New 15" Diameter Sewer Line</b>				
22.19	New 15" Dia. Sewer Main, 0'-6' Deep Under Turf (Max 350')	LF	\$ 135.00	\$ 110.00
22.20	New 8" to 10" Dia. Sewer Main, 6'-12' Deep Under Turf (Max 350')	LF	\$ 145.00	\$ 150.00
22.21	New 15" Dia. Sewer Main, 12'-18' Deep Under Turf (Max 350')	LF	\$ 175.00	\$ 175.00
22.22	New 8" to 10" Dia. Sewer Main, 0'-6' Deep Under Alleyway (Max 350')	LF	\$ 155.00	\$ 125.00
22.23	New 15" Dia. Sewer Main, 6'-12' Deep Under Alleyway (Max 350')	LF	\$ 180.00	\$ 150.00
22.24	New 8" to 10" Dia. Sewer Main, 12'-18' Deep Under Alleyway (Max 350')	LF	\$ 215.00	\$ 205.00
22.25	New 15" Dia. Sewer Main, 0'-6' Deep Under Pavement (Max 350')	LF	\$ 250.00	\$ 225.00
22.26	New 8" to 10" Dia. Sewer Main, 6'-12' Deep Under Pavement (Max 350')	LF	\$ 315.00	\$ 250.00
22.27	New 15" Dia. Sewer Main, 12'-18' Deep Under Pavement (Max 350')	LF	\$ 395.00	\$ 300.00
22.28	Open Trench Creek Crossing for a 15" Dia. Sewer Line (Min. 20')	LF	\$ 575.00	\$ 350.00
<b>Point Repair for 18" Diameter Existing Sewer Line</b>				
22.29	18" Dia. Point Repair, 0'-6' Deep Under Turf, Up to 10' Long	EA	\$ 2,550.00	\$ 3,000.00
22.30	18" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Turf	LF	\$ 168.50	\$ 175.00
22.31	18" Dia. Point Repair, 6'-12' Deep Under Turf, Up to 10' Long	EA	\$ 2,650.00	\$ 3,250.00
22.32	18" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Turf	LF	\$ 200.00	\$ 200.00
22.33	18" Dia. Point Repair, 12'-18' Deep Under Turf, Up to 10' Long	EA	\$ 3,200.00	\$ 4,000.00
22.34	18" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Turf	LF	\$ 245.00	\$ 300.00
22.35	18" Dia. Point Repair, 0'-6' Deep Under Alleyway, Up to 10' Long	EA	\$ 2,550.00	\$ 3,250.00
22.36	18" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Alleyway	LF	\$ 189.00	\$ 210.00
22.37	18" Dia. Point Repair, 6'-12' Deep Under Alleyway, Up to 10' Long	EA	\$ 2,900.00	\$ 3,350.00
22.38	18" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Alleyway	LF	\$ 205.00	\$ 225.00
22.39	18" Dia. Point Repair, 12'-18' Deep Under Alleyway, Up to 10' Long	EA	\$ 4,200.00	\$ 5,000.00
22.40	18" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Alleyway	LF	\$ 265.00	\$ 300.00
22.41	18" Dia. Point Repair, 0'-6' Deep Under Pavement, Up to 10' Long	EA	\$ 4,400.00	\$ 5,000.00
22.42	18" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Pavement	LF	\$ 315.00	\$ 300.00
22.43	18" Dia. Point Repair, 6'-12' Deep Under Pavement, Up to 10' Long	EA	\$ 4,600.00	\$ 5,500.00
22.44	18" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Pavement	LF	\$ 345.00	\$ 350.00
22.45	18" Dia. Point Repair, 12'-18' Deep Under Pavement, Up to 10' Long	EA	\$ 5,300.00	\$ 7,500.00
22.46	18" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Pavement	LF	\$ 410.00	\$ 475.00

**Installation of New 18" Diameter Sewer Line**

22.47	New 18" Dia. Sewer Main, 0'-6' Deep Under Turf (Max 350')	LF	\$ 150.00	\$ 125.00
22.48	New 18" Dia. Sewer Main, 6'-12' Deep Under Turf (Max 350')	LF	\$ 175.00	\$ 150.00
22.49	New 18" Dia. Sewer Main, 12'-18' Deep Under Turf (Max 350')	LF	\$ 215.00	\$ 175.00
22.50	New 18" Dia. Sewer Main, 0'-6' Deep Under Alleyway (Max 350')	LF	\$ 175.00	\$ 140.00
22.51	New 18" Dia. Sewer Main, 6'-12' Deep Under Alleyway (Max 350')	LF	\$ 200.00	\$ 160.00
22.52	New 18" Dia. Sewer Main, 12'-18' Deep Under Alleyway (Max 350')	LF	\$ 225.00	\$ 225.00
22.53	New 18" Dia. Sewer Main, 0'-6' Deep Under Pavement (Max 350')	LF	\$ 325.00	\$ 250.00
22.54	New 18" Dia. Sewer Main, 6'-12' Deep Under Pavement (Max 350')	LF	\$ 375.00	\$ 275.00
22.55	New 18" to 10" Dia. Sewer Main, 12'-18' Deep Under Pavement (Max 350')	LF	\$ 425.00	\$ 300.00
22.56	Open Trench Creek Crossing for an 18" Dia. Sewer Line (Min. 20')	LF	\$ 595.00	\$ 375.00

**OPEN CUT LATERAL SEWER LINE WORK**

Item No.	Item Description	Unit		
23.00	Mobilization for Open Cut Lateral Sewer Line Work (Each Work Order)	LS	\$ 1,200.00	\$ 1,500.00
<b>Connection Repair (4" and 6" Dia.) on an 8" to 10" Diameter Sewer Main</b>				
23.01	Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 0'-6' Deep Under Turf	EA	\$ 2,350.00	\$ 2,200.00
23.02	Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 6'-12' Deep Under Turf	EA	\$ 2,850.00	\$ 2,750.00
23.03	Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 12'-18' Deep Under Turf	EA	\$ 4,000.00	\$ 4,000.00
23.04	Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 0'-6' Deep Under Alleyway	EA	\$ 3,025.00	\$ 2,700.00
23.05	Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 6'-12' Deep Under Alleyway	EA	\$ 3,500.00	\$ 3,000.00
23.06	Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 12'-18' Deep Under Alleyway	EA	\$ 4,600.00	\$ 4,250.00
23.07	Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 0'-6' Deep Under Pavement	EA	\$ 5,050.00	\$ 4,500.00
23.08	Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 6'-12' Deep Under Pavement	EA	\$ 5,200.00	\$ 5,000.00
23.09	Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 12'-18' Deep Under Pavement	EA	\$ 7,100.00	\$ 6,000.00
23.10	Open Cut Lateral Connection Repair 8" to 10" Dia. Main Completed During an Open Cut Point Repair or Simultaneous Open Cut Lateral Connection Repair	EA	\$ 715.00	\$ 1,000.00
<b>Connection Repair (4" and 6" Dia.) on a 12" Diameter Sewer Main</b>				
23.11	Open Cut Lateral Connection Repair 12" Dia. Main, 0'-6' Deep Under Turf	EA	\$ 2,650.00	\$ 2,300.00
23.12	Open Cut Lateral Connection Repair 12" Dia. Main, 6'-12' Deep Under Turf	EA	\$ 3,600.00	\$ 3,000.00
23.13	Open Cut Lateral Connection Repair 12" Dia. Main, 12'-18' Deep Under Turf	EA	\$ 4,350.00	\$ 4,500.00
23.14	Open Cut Lateral Connection Repair 12" Dia. Main, 0'-6' Deep Under Alleyway	EA	\$ 3,200.00	\$ 3,000.00
23.15	Open Cut Lateral Connection Repair 12" Dia. Main, 6'-12' Deep Under Alleyway	EA	\$ 3,775.00	\$ 3,250.00
23.16	Open Cut Lateral Connection Repair 12" Dia. Main, 12'-18' Deep Under Alleyway	EA	\$ 4,800.00	\$ 4,900.00
23.17	Open Cut Lateral Connection Repair 12" Dia. Main, 0'-6' Deep Under Pavement	EA	\$ 5,900.00	\$ 5,250.00
23.18	Open Cut Lateral Connection Repair 12" Dia. Main, 6'-12' Deep Under Pavement	EA	\$ 6,750.00	\$ 5,550.00
23.19	Open Cut Lateral Connection Repair 12" Dia. Main, 12'-18' Deep Under Pavement	EA	\$ 8,675.00	\$ 7,250.00

23.20	Open Cut Lateral Connection Repair 12" Dia. Main Completed During an Open Cut Point Repair or Simultaneous Open Cut Lateral Connection Repair	EA	\$ 975.00	\$ 1,250.00
<b>Connection Repair (4" and 6" Dia.) on a 15" Diameter Sewer Main</b>				
23.21	Open Cut Lateral Connection Repair 15" Dia. Main, 0'-6' Deep Under Turf	EA	\$ 2,850.00	\$ 2,250.00
23.22	Open Cut Lateral Connection Repair 15" Dia. Main, 6'-12' Deep Under Turf	EA	\$ 3,100.00	\$ 2,750.00
23.23	Open Cut Lateral Connection Repair 15" Dia. Main, 12'-18' Deep Under Turf	EA	\$ 4,900.00	\$ 4,500.00
23.24	Open Cut Lateral Connection Repair 15" Dia. Main, 0'-6' Deep Under Alleyway	EA	\$ 6,700.00	\$ 2,750.00
23.25	Open Cut Lateral Connection Repair 15" Dia. Main, 6'-12' Deep Under Alleyway	EA	\$ 4,000.00	\$ 3,250.00
23.26	Open Cut Lateral Connection Repair 15" Dia. Main, 12'-18' Deep Under Alleyway	EA	\$ 5,075.00	\$ 4,750.00
23.27	Open Cut Lateral Connection Repair 15" Dia. Main, 0'-6' Deep Under Pavement	EA	\$ 5,500.00	\$ 3,900.00
23.28	Open Cut Lateral Connection Repair 15" Dia. Main, 6'-12' Deep Under Pavement	EA	\$ 5,900.00	\$ 4,750.00
23.29	Open Cut Lateral Connection Repair 15" Dia. Main, 12'-18' Deep Under Pavement	EA	\$ 8,000.00	\$ 6,250.00
23.30	Open Cut Lateral Connection Repair 15" Dia. Main Completed During an Open Cut Point Repair or Simultaneous Open Cut Lateral Connection Repair	EA	\$ 925.00	\$ 1,250.00
<b>Connection Repair (4" and 6" Dia.) on an 18" Diameter Sewer Main</b>				
23.31	Open Cut Lateral Connection Repair 18" Dia. Main, 0'-6' Deep Under Turf	EA	\$ 3,025.00	\$ 2,275.00
23.32	Open Cut Lateral Connection Repair 18" Dia. Main, 6'-12' Deep Under Turf	EA	\$ 3,300.00	\$ 3,000.00
23.33	Open Cut Lateral Connection Repair 18" Dia. Main, 12'-18' Deep Under Turf	EA	\$ 5,100.00	\$ 4,500.00
23.34	Open Cut Lateral Connection Repair 18" Dia. Main, 0'-6' Deep Under Alleyway	EA	\$ 3,875.00	\$ 2,750.00
23.35	Open Cut Lateral Connection Repair 18" Dia. Main, 6'-12' Deep Under Alleyway	EA	\$ 4,300.00	\$ 3,250.00
23.36	Open Cut Lateral Connection Repair 18" Dia. Main, 12'-18' Deep Under Alleyway	EA	\$ 5,100.00	\$ 5,000.00
23.37	Open Cut Lateral Connection Repair 18" Dia. Main, 0'-6' Deep Under Pavement	EA	\$ 5,900.00	\$ 4,000.00
23.38	Open Cut Lateral Connection Repair 18" Dia. Main, 6'-12' Deep Under Pavement	EA	\$ 6,950.00	\$ 4,750.00
23.39	Open Cut Lateral Connection Repair 18" Dia. Main, 12'-18' Deep Under Pavement	EA	\$ 8,975.00	\$ 6,500.00
23.40	Open Cut Lateral Connection Repair 18" Dia. Main Completed During an Open Cut Point Repair or Simultaneous Open Cut Lateral Connection Repair	EA	\$ 1,025.00	\$ 1,500.00
<b>4" Diameter Sewer Lateral Line</b>				
23.41	4" Dia. Sewer Lateral, 0'-6' Deep Under Turf	LF	\$ 46.00	\$ 47.50
23.42	4" Dia. Sewer Lateral, 6'-12' Deep Under Turf	LF	\$ 51.00	\$ 55.00
23.43	4" Dia. Sewer Lateral, 12'-18' Deep Under Turf	LF	\$ 76.50	\$ 80.00
23.44	4" Dia. Sewer Lateral, 0'-6' Deep Under Alleyway	LF	\$ 61.25	\$ 65.00
23.45	4" Dia. Sewer Lateral, 6'-12' Deep Under Alleyway	LF	\$ 71.40	\$ 85.00
23.46	4" Dia. Sewer Lateral, 12'-18' Deep Under Alleyway	LF	\$ 102.00	\$ 115.00
23.47	4" Dia. Sewer Lateral, 0'-6' Deep Under Pavement	LF	\$ 112.25	\$ 105.00
23.48	4" Dia. Sewer Lateral, 6'-12' Deep Under Pavement	LF	\$ 127.50	\$ 120.00
23.49	4" Dia. Sewer Lateral, 12'-18' Deep Under Pavement	LF	\$ 174.00	\$ 150.00

6" Diameter Sewer Lateral Line					
23.50	6" Dia. Sewer Lateral, 0'-6' Deep Under Turf	LF	\$ 47.00	\$ 50.00	
23.51	6" Dia. Sewer Lateral, 6'-12' Deep Under Turf	LF	\$ 52.00	\$ 60.00	
23.52	6" Dia. Sewer Lateral, 12'-18' Deep Under Turf	LF	\$ 77.50	\$ 90.00	
23.53	6" Dia. Sewer Lateral, 0'-6' Deep Under Alleyway	LF	\$ 62.25	\$ 75.00	
23.54	6" Dia. Sewer Lateral, 6'-12' Deep Under Alleyway	LF	\$ 72.50	\$ 85.00	
23.55	6" Dia. Sewer Lateral, 12'-18' Deep Under Alleyway	LF	\$ 107.00	\$ 105.00	
23.56	6" Dia. Sewer Lateral, 0'-6' Deep Under Pavement	LF	\$ 117.25	\$ 120.00	
23.57	6" Dia. Sewer Lateral, 6'-12' Deep Under Pavement	LF	\$ 132.50	\$ 130.00	
23.58	6" Dia. Sewer Lateral, 12'-18' Deep Under Pavement	LF	\$ 178.50	\$ 160.00	
Service Lateral Line Cleanout					
23.59	Cleanout, 0'-6' Deep Under Turf	EA	\$ 1,630.00	\$ 1,500.00	
23.60	Cleanout, 6'-12' Deep Under Turf	EA	\$ 2,200.00	\$ 1,750.00	
23.61	Cleanout, 0'-6' Deep Under Crushed Stone	EA	\$ 2,350.00	\$ 2,000.00	
23.62	Cleanout, 6'-12' Deep Under Crushed Stone	EA	\$ 3,500.00	\$ 2,500.00	
23.63	Cleanout, 0'-6' Deep Under Pavement	EA	\$ 3,875.00	\$ 3,500.00	
23.64	Cleanout, 6'-12' Deep Under Pavement	EA	\$ 5,100.00	\$ 4,000.00	
INSTALLATION OF NEW MANHOLES					
Item No.	Item Description	Unit			
24.00	Mobilization for Installation of New Manholes (Each Work Order)	LS	\$ 1,200.00	\$ 2,500.00	
Lamphole					
24.01	8" Dia. Lamphole, Up to 6' Deep	EA	\$ 3,575.00	\$ 3,000.00	
24.02	10" Dia. Lamphole, Up to 6' Deep	EA	\$ 4,350.00	\$ 3,250.00	
4-Foot Diameter					
24.03	4' Dia. Manhole Under Turf, Up to 8' Deep	EA	\$ 4,600.00	\$ 5,000.00	
24.04	4' Dia. Manhole Under Alleyway, Up to 8' Deep	EA	\$ 4,850.00	\$ 5,500.00	
24.05	4' Dia. Manhole Under Pavement, Up to 8' Deep	EA	\$ 6,325.00	\$ 7,000.00	
24.06	4' Dia. Manhole Extra Depth, > 8' Deep	FT	\$ 205.00	\$ 450.00	
5-Foot Diameter					
24.07	5' Dia. Manhole Under Turf, Up to 8' Deep	EA	\$ 6,875.00	\$ 7,000.00	
24.08	5' Dia. Manhole Under Alleyway, Up to 8' Deep	EA	\$ 7,150.00	\$ 7,250.00	
24.09	5' Dia. Manhole Under Pavement, Up to 8' Deep	EA	\$ 8,625.00	\$ 8,000.00	
24.10	5' Dia. Manhole Extra Depth, > 8' Deep	FT	\$ 305.00	\$ 750.00	
6-Foot Diameter					
24.11	6' Dia. Manhole Under Turf, Up to 8' Deep	EA	\$ 8,150.00	\$ 8,000.00	
24.12	6' Dia. Manhole Under Alleyway, Up to 8' Deep	EA	\$ 8,775.00	\$ 8,250.00	
24.13	6' Dia. Manhole Under Pavement, Up to 8' Deep	EA	\$ 10,250.00	\$ 9,000.00	
24.14	6' Dia. Manhole Extra Depth, > 8' Deep	FT	\$ 815.00	\$ 775.00	

MISCELLANEOUS OPEN CUT SERVICES AND ITEMS				
<b>Hourly Rates (A minimum 4-hour charge shall be applied to all hourly services to account for mobilization)</b>				
<u>Item No.</u>	<u>Item Description</u>	<u>Unit</u>		
25.00	Laborer	HR	\$ 102.00	\$ 110.00
25.01	Backhoe and Operator	HR	\$ 127.50	\$ 200.00
25.02	12,000 Lb Excavator and Operator	HR	\$ 178.50	\$ 200.00
25.03	18,000 Lb Excavator and Operator	HR	\$ 204.00	\$ 225.00
25.04	40,000 Lb Excavator and Operator	HR	\$ 229.50	\$ 250.00
25.05	>40,000 Lb Excavator and Operator	HR	\$ 331.50	\$ 300.00
25.06	Standard Dump Truck and Driver	HR	\$ 91.75	\$ 150.00
25.07	End Dump Truck and Driver	HR	\$ 153.00	\$ 150.00
<b>Miscellaneous Items</b>				
25.08	Sewer Line Trench Plug	EA	\$ 1,185.00	\$ 2,000.00
25.09	Additional Crushed Stone Backfill	TON	\$ 22.50	\$ 30.00
25.10	Additional Saw Cutting Pavement, Up to 10" Thick	LF	\$ 20.50	\$ 10.00
25.11	Additional Concrete Pavement Replacement, 10" Thick	SF	\$ 13.25	\$ 15.00
25.12	Additional Curb and Gutter Replacement	LF	\$ 61.25	\$ 75.00
25.13	Disposal of Lead Contaminated Soil	CY	\$ 2.05	\$ 30.00

EASEMENT CLEARING AND GRUBBING				
<u>Item No.</u>	<u>Item Description</u>	<u>Unit</u>		
26.00	Mobilization for Easement Clearing and Grubbing (Each Work Order)	LS	\$ 1,200.00	\$ 1,500.00
26.01	Laborer	HR	\$ 102.00	\$ 100.00
26.02	Laborer with Hand Tools	HR	\$ 155.00	\$ 135.00
26.03	Operator with Machine	HR	\$ 255.00	\$ 200.00
26.04	Hauling/Trucking and Disposal of Vegetation	HR	\$ 205.00	\$ 140.00

PIPE BURSTING - HORIZONTAL DIRECTIONAL BORE				
<u>Item No.</u>	<u>Item Description</u>	<u>Unit</u>		
27.00	Mobilization for Pipe Bursting (Each Work Order)	LS	\$ 6,000.00	\$ 4,000.00
27.01	Setup Per Each Pipe Bursted Segment	EA	\$ 8,000.00	\$ 15,000.00
27.02	Pipe Bursting for 8" Dia. Pipe	LF	\$ 95.00	\$ 160.00
27.03	Pipe Bursting for 10" Dia. Pipe	LF	\$ 115.00	\$ 200.00
27.04	Pipe Bursting for 12" Dia. Pipe	LF	\$ 150.00	\$ 225.00

BY-PASS PUMPING					
Item No.	Item Description	Unit			
28.00	Mobilization for By-Pass Pumping (Each Work Order)	LS	\$	3,876.00	\$ 6,250.00
28.01	4-Inch By-Pass Pump	HR	\$	346.80	\$ 1,250.00
28.02	6-Inch By-Pass Pump	HR	\$	469.20	\$ 1,800.00
28.03	8-Inch By-Pass Pump	HR	\$	765.00	\$ 2,400.00

TRAFFIC CONTROL					
Item No.	Item Description	Unit			
29.00	Local Street Closure	EA	\$	775.00	\$ 800.00
29.01	Short Duration Traffic Control for Collector or Arterial	EA	\$	840.00	\$ 850.00
<b>Short-Term Stationary Traffic Control For Collector or Arterial</b>					
29.02	Outside Lane Closure (1-day)	EA	\$	1,250.00	\$ 1,250.00
29.03	Inside Lane Closure (1-day)	EA	\$	1,250.00	\$ 1,250.00
29.04	Center Turn Lane Closure (1-day)	EA	\$	1,100.00	\$ 1,100.00
29.05	Two-Lane Closure (1-day)	EA	\$	1,500.00	\$ 1,600.00
<b>Intermediate-Term Stationary Traffic Control For Collector or Arterial</b>					
29.06	Outside Lane Closure (Up to 3-days)	EA	\$	1,250.00	\$ 1,250.00
29.07	Outside Lane Closure (Each Additional Day)	DAY	\$	325.00	\$ 325.00
29.08	Inside Lane Closure (Up to 3-days)	EA	\$	1,250.00	\$ 1,250.00
29.09	Inside Lane Closure (Each Additional Day)	DAY	\$	325.00	\$ 325.00
29.10	Center Turn Lane Closure (Up to 3-days)	EA	\$	2,100.00	\$ 2,200.00
29.11	Center Turn Lane Closure (Each Additional Day)	DAY	\$	650.00	\$ 650.00
29.12	Two-Lane Closure (Up to 3-days)	EA	\$	2,100.00	\$ 2,200.00
29.13	Two-Lane Closure (Each Additional Day)	DAY	\$	750.00	\$ 750.00

PERFORMANCE AND PAYMENT BONDS					
Item No.	Item Description	Unit			
30.00	Performance and Payment Bonds (Percentage of Each Work Order)	%		1.00%	2.00%