

2021-2023 EVALUATION AND REHABILITATION TOOLBOX FOR WASTEWATER COLLECTION SYSTEM CITY OF JOPLIN, MISSOURI

R'S ESTIMATE = \$2,540.000		Ace Pipe Cleaning, Inc.	Visu-Sewer of Missouri, LLC
		Kansas City, MO	E. St. Louis, IL
SEWER LINE CLEANING AND CCTV INSPECTION			
			Unit Price
	LS	\$1,000.00	\$2,625.00
	IF	\$1.00	\$0.84
		· · · · · · · · · · · · · · · · · · ·	\$0.84
		· · · · · · · · · · · · · · · · · · ·	\$0.84
			\$1.30
			\$1.76
	LF	\$3.50	\$1.76
42" to 48" Diameter Light Cleaning	LF	\$4.50	\$2.67
54" to 60" Diameter Light Cleaning	LF	\$4.75	\$3.59
Heavy Cleaning (4 to 10 Cleaning Passes)			
6" to 10" Diameter Heavy Cleaning	LF	\$1.10	\$2.05
12" to 16" Diameter Heavy Cleaning	LF	\$1.80	\$2.45
18" to 21" Diameter Heavy Cleaning	LF	\$5.00	\$5.85
24" to 27" Diameter Heavy Cleaning	LF	\$12.00	\$5.85
30" to 32" Diameter Heavy Cleaning	LF	\$13.00	\$10.50
36" to 38" Diameter Heavy Cleaning	LF	\$14.00	\$10.50
42" to 48" Diameter Heavy Cleaning	LF	\$16.00	\$15.00
54" to 60" Diameter Heavy Cleaning	LF	\$18.00	\$20.60
CCTV Inspection (PACP Compliant)			
6" to 10" Diameter CCTV Inspection	LF	\$1.25	\$1.00
12" to 16" Diameter CCTV Inspection	LF	\$1.25	\$1.00
18" to 21" Diameter CCTV Inspection	LF	\$1.25	\$1.00
24" to 27" Diameter CCTV Inspection	LF	\$1.25	\$1.00
30" to 32" Diameter CCTV Inspection	LF	\$2.00	\$1.00
36" to 38" Diameter CCTV Inspection	LF	\$2.00	\$1.00
42" to 48" Diameter CCTV Inspection	LF	\$2.00	\$1.00
54" to 60" Diameter CCTV Inspection	LF	\$2.00	\$1.00
LATERAL SEWER LINE CLEANING AND CCTV INSPECTION			
	SEWER LINE CLEANING AND CCTV INSPECTION Item Description Mobilization for Sewer Line Cleaning and Inspection (Each Work Order) Light Cleaning (Up to 3 Cleaning Passes) 6" to 10" Diameter Light Cleaning 12" to 16" Diameter Light Cleaning 24" to 27" Diameter Light Cleaning 30" to 32" Diameter Light Cleaning 36" to 38" Diameter Light Cleaning 36" to 38" Diameter Light Cleaning 42" to 48" Diameter Heavy Cleaning 12" to 16" Diameter Heavy Cleaning 12" to 16" Diameter Heavy Cleaning 24" to 27" Diameter Heavy Cleaning 24" to 27" Diameter Heavy Cleaning 30" to 32" Diameter Heavy Cleaning 42" to 48" Diameter Heavy Cleaning 42" to 48" Diameter Heavy Cleaning 54" to 60" Diameter Heavy Cleaning 54" to 60" Diameter CCTV Inspection 12" to 16" Diameter CCTV Inspection 12" to 16" Diameter CCTV Inspection 12" to 16" Diameter CCTV Inspection 14"	SEWER LINE CLEANING AND CCTV INSPECTION Light Description Light Cleaning (Up to 3 Cleaning Passes) Mobilization for Sewer Line Cleaning (Up to 3 Cleaning Passes) LF 6" to 10" Diameter Light Cleaning LF 12" to 16" Diameter Light Cleaning LF 13" to 21" Diameter Light Cleaning LF 24" to 27" Diameter Light Cleaning LF 30" to 32" Diameter Light Cleaning LF 42" to 48" Diameter Light Cleaning LF 54" to 60" Diameter Light Cleaning LF 54" to 60" Diameter Light Cleaning LF 6" to 10" Diameter Heavy Cleaning LF 12" to 16" Diameter Heavy Cleaning LF 24" to 27" Diameter Heavy Cleaning LF 24" to 27" Diameter Heavy Cleaning LF 36" to 38" Diameter Heavy Cleaning LF 24" to 27" Diameter Heavy Cleaning LF 24" to 27" Diameter Heavy Cleaning LF 24" to 27" Diameter CCTV Inspection LF	CriterionKanase City, MOSEWER LINE CLEANING AND CCTV INSPECTIONUnit PriceMobilization for Sewer Line Cleaning and Inspection (Each Work Order)LS\$1.000.00Light Cleaning (Up to 3 Cleaning Passes)St.1000.0012" to 16" Diameter Light CleaningLF\$1.0012" to 16" Diameter Light CleaningLF\$1.0012" to 16" Diameter Light CleaningLF\$1.0012" to 16" Diameter Light CleaningLF\$1.0016" to 21" Diameter Light CleaningLF\$3.0030" to 32" Diameter Light CleaningLF\$3.5036" to 38" Diameter Light CleaningLF\$3.5042" to 48" Diameter Light CleaningLF\$4.5054" to 60" Diameter Light CleaningLF\$4.5054" to 60" Diameter Heavy CleaningLF\$1.1012" to 16" Diameter Heavy CleaningLF\$1.8012" to 16" Diameter Heavy CleaningLF\$1.2012" to 16" Diameter Heavy CleaningLF\$1.8012" to 16" Diameter Heavy CleaningLF\$1.8012" to 16" Diameter Heavy CleaningLF\$1.8012" to 16" Diameter Heavy CleaningLF\$1.8014" to 21" Diameter Heavy CleaningLF\$1.8015" to 32" Diameter Heavy CleaningLF\$1.8016" to 31.00

Item No.	Item Description	Unit		
2.00	Mobilization for Lateral Sewer Line Cleaning and Inspection (Each Work Order)	LS	\$1,000.00	\$2,625.00
2.01	Lateral Inspection Setup Per Manhole to Manhole Segment	EA	\$200.00	\$50.00
2.02	4" to 6" Diameter Lateral Sewer Line Light Cleaning	LF	\$3.00	\$65.00
2.03	4" to 6" Diameter Lateral Sewer Line Heavy Cleaning	LF	\$85.00	\$105.00
2.04	4" to 6" Diameter Lateral Sewer Line CCTV Inspection	LF	\$3.00	\$65.00
2.05	Locate for Cleanout, via Lateral Launch Mainline Camera	EA	\$200.00	\$920.00

em No.	Item Description	<u>Unit</u>		
3.00	Mobilization for Large Diameter Sewer Line Inspection (Each Work Order)	LS	\$1,500.00	\$10,000.00
3.01	≥18" Diameter Large Dia. Sewer Line Inspection	LF	\$5.25	\$25.00
	MANHOLE CLEANING AND INSPECTION			
tem No.	Item Description	Unit		
4.00	Mobilization for Manhole Cleaning and Inspection (Each Work Order)	LS	\$750.00	\$2,750.00
4.01	Manhole Cleaning	EA	\$40.00	\$465.00
4.02	Manhole Inspection	EA	\$75.00	\$250.00
	FOAMING ROOT CONTROL			
tem No.	Item Description	<u>Unit</u>		
5.00	Mobilization for Foaming Root Control (Each Work Order)	LS	\$1,575.00	\$7,500.00
5.01	8" to 12" Diameter Foaming Root Control	LF	\$1.30	\$3.50
5.02	14" to 18" Diameter Foaming Root Control	LF	\$1.45	\$6.50
	SMOKE TESTING			
tem No.	Item Description	<u>Unit</u>		
6.00	Mobilization for Smoke Testing (Each Work Order)	LS	\$2,100.00	\$2,325.00
6.01	8" to 12" Diameter Smoke Testing	LF	\$0.46	\$0.49
6.02	14" to 18" Diameter Smoke Testing	LF	\$0.46	\$0.49
	20" to 30" Diameter Smoke Testing	LF	\$0.46	\$0.49

SEWER LINE CLEANING, CCTV INSPECTION, & MISCELLANEOUS SERVICES Regular Rates (A minimum 4-hour charge shall be applied to all hourly services to account for mobilization)

Item No.	,	Unit		
7.00	Operator and TV Truck	HR	\$190.00	\$245.00
7.01	Operator and Jetter Unit	HR	\$175.00	\$175.00
7.02	Operator and Jetter/Combo Unit	HR	\$190.00	\$210.00
7.03	Operator and Jumbo Jetter/Combo Unit	HR	\$205.00	\$250.00
7.04	Operator and Wet Vacuum	HR	\$175.00	\$210.00
7.05	Operator and Dry Vacuum	HR	\$185.00	\$210.00
7.06	Operator and Waterblaster	HR	\$185.00	\$600.00
7.07	Operator and Bucket Machines	HR	\$280.00	\$500.00
7.08	2-Operators, TV Truck, and Jetter Unit	HR	\$280.00	\$315.00
7.09	2-Operators, TV Truck, and Jetter/Combo Unit	HR	\$320.00	\$350.00
7.10	Additional Laborer	HR	\$90.00	\$135.00
7.11	Support Truck (Safety, Fuel, and/or Pipe Supplies)	HR	\$70.00	\$25.00
	Overtime Rates			
7.12	Operator and TV Truck	HR	\$195.00	\$295.00
7.13	Operator and Jetter Unit	HR	\$180.00	\$225.00
7.14	Operator and Jetter/Combo Unit	HR	\$200.00	\$260.00
7.15	Operator and Jumbo Jetter/Combo Unit	HR	\$225.00	\$300.00
7.16	Operator and Wet Vacuum	HR	\$175.00	\$260.00
7.17	Operator and Dry Vacuum	HR	\$195.00	\$260.00
7.18	Operator and Waterblaster	HR	\$195.00	\$700.00
7.19	Operator and Bucket Machines	HR	\$300.00	\$800.00

7.20	2-Operators, TV Truck, and Jetter Unit	HR	\$310.00	\$415.00
7.21	2-Operators, TV Truck, and Jetter/Combo Unit	HR	\$360.00	\$450.00
7.22	Additional Laborer	HR	\$100.00	\$185.00
7.23	Support Truck (Safety, Fuel, and/or Pipe Supplies)	HR	\$70.00	\$25.00
	Accessories			
7.24	Powdered Lime	LBS	\$2.50	\$2.75
7.25	6-Inch Plastic Vacuum Hose	100' Roll	\$150.00	\$250.00
7.26	6-Inch Metal Flex Hose	LF	\$13.50	\$35.00
7.27	Confined Space Equipment - Tripod, Gas Detector, Etc.	DAY	\$135.00	\$100.00
7.28	Hurricane Nozzle	HR	\$27.00	\$250.00
	LINING OF EXISTING SEWERS - CIPP			
Item No.	Item Description	<u>Unit</u>		
8.00	Mobilization For MH to MH CIPP (Each Work Order)	LS	\$8,000.00	\$9,015.00
8.01	8" Diameter (6 mm Liner Thickness) CIPP	LF	\$26.25	\$25.25
8.02	8" Diameter (7.5 mm Liner Thickness) CIPP	LF	\$27.00	\$27.75
8.03	10" Diameter (6 mm Liner Thickness) CIPP	LF	\$28.25	\$29.90
8.04	10" Diameter (7.5 mm Liner Thickness) CIPP	LF	\$30.00	\$32.45
8.05	12" Diameter (6 mm Liner Thickness) CIPP	LF	\$38.25	\$35.50
8.06	12" Diameter (7.5 mm Liner Thickness) CIPP	LF	\$41.00	\$38.00
8.07	12" Diameter (9.0 mm Liner Thickness) CIPP	LF	\$43.00	\$48.30
8.08	12" Diameter (10.5 mm Liner Thickness) CIPP	LF	\$48.00	\$51.40
8.09	12" Diameter (12.0 mm Liner Thickness) CIPP	LF	\$53.00	\$53.25
8.10	15" Diameter (7.5 mm Liner Thickness) CIPP	LF	\$74.00	\$47.00
8.11	15" Diameter (9.0 mm Liner Thickness) CIPP	LF	\$77.00	\$61.00
8.12	15" Diameter (10.5 mm Liner Thickness) CIPP	LF	\$80.00	\$64.75
8.13	15" Diameter (12.0 mm Liner Thickness) CIPP	LF	\$82.00	\$67.75
8.14	18" Diameter (9.0 mm Liner Thickness) CIPP	LF	\$86.00	\$68.25
8.15	18" Diameter (10.5 mm Liner Thickness) CIPP	LF	\$89.00	\$73.50
8.16	18" Diameter (12.0 mm Liner Thickness) CIPP	LF	\$95.00	\$76.75

	CIPP POINT REPAIRS (5-FOOT LONG)			
Item No.	Item Description	<u>Unit</u>		
9.00	Mobilization for CIPP Point Repair (Each Work Order)	LS	\$2,000.00	\$5,100.00
9.01	8" Diameter CIPP Point Repair	EA	\$1,600.00	\$3,565.00
9.02	10" Diameter CIPP Point Repair	EA	\$1,700.00	\$3,580.00
9.03	12" Diameter CIPP Point Repair	EA	\$1,800.00	\$4,760.00
9.04	15" Diameter CIPP Point Repair	EA	\$2,000.00	\$6,155.00
9.05	18" Diameter CIPP Point Repair	EA	\$4,500.00	\$6,510.00

	LINING OF EXISTING SEWERS - THERMOFORM (FOLD AND FORM) PIPE			
Item No.	Item Description	<u>Unit</u>		
10.00	Mobilization for Thermoform CIPP (Each Work Order)	LS	\$4,000.00	\$15,000.00
10.01	8" Diameter Thermoform CIPP	LF	\$35.00	\$52.00
10.02	10" Diameter Thermoform CIPP	LF	\$50.00	\$75.00
10.03	12" Diameter Thermoform CIPP	LF	\$75.00	\$110.00
10.04	15" Diameter Thermoform CIPP	LF	\$125.00	\$175.00
10.05	18" Diameter Thermoform CIPP	LF	\$165.00	\$220.00

LINING OF EXISTING SEWERS - GLASS REINFORCED PLASTIC (GRP) C	IPP		
(CURED WITH UV-LIGHT)			
Item Description	<u>Unit</u>		
Mobilization for GRP CIPP (Each Work Order)	LS	\$4,000.00	\$8,800.00
8" Diameter GRP CIPP	LF	\$40.00	\$55.00
10" Diameter GRP CIPP	LF	\$43.00	\$61.00
12" Diameter GRP CIPP	LF	\$60.00	\$85.00
15" Diameter GRP CIPP	LF	\$80.00	\$125.00
18" Diameter GRP CIPP	LF	\$90.00	\$150.00
	(CURED WITH UV-LIGHT) Item Description Mobilization for GRP CIPP (Each Work Order) 8" Diameter GRP CIPP 10" Diameter GRP CIPP 12" Diameter GRP CIPP 15" Diameter GRP CIPP	Item Description Unit Mobilization for GRP CIPP (Each Work Order) LS 8" Diameter GRP CIPP LF 10" Diameter GRP CIPP LF 12" Diameter GRP CIPP LF 15" Diameter GRP CIPP LF	(CURED WITH UV-LIGHT) Item Description Unit Mobilization for GRP CIPP (Each Work Order) LS \$\$4,000.00 8" Diameter GRP CIPP LF \$40.00 10" Diameter GRP CIPP LF \$43.00 12" Diameter GRP CIPP LF \$60.00 15" Diameter GRP CIPP LF \$80.00

	LINING OF EXISTING SEWERS - CENTRIFUGALLY CAST CONCRETE PIPE (CCCP)			
Item No.	Item Description	<u>Unit</u>		
12.00	Mobilization for CCCP (Each Work Order)	LS	\$3,000.00	\$4,000.00
12.01	36" Diameter CCCP	LF	\$325.00	\$415.00
12.02	38" Diameter CCCP	LF	\$345.00	\$450.00
12.03	42" Diameter CCCP	LF	\$380.00	\$500.00
12.04	48" Diameter CCCP	LF	\$435.00	\$550.00
12.05	54" Diameter CCCP	LF	\$485.00	\$620.00
12.06	60" Diameter CCCP	LF	\$540.00	\$700.00

	TRENCHLESS LATERAL CONNECTION REPAIR (LCR)			
Item No.	Item Description	<u>Unit</u>		
13.00	Mobilization for Trenchless LCR (Each Work Order)	LS	\$2,500.00	\$3,850.00
13.01	Trenchless LCR Setup Per Manhole to Manhole Segment	EA	\$500.00	\$660.00
13.02	Ambient Steam Cured LCR - 8" to 12" Diameter Main, 4" to 6" Diameter Lateral, Up to 18" Long	EA	\$1,375.00	\$1,775.00
13.03	Ambient Steam Cured LCR - 15" to 21" Diameter Main, 4" to 6" Diameter Lateral, Up to 18" Long	EA	\$3,500.00	\$4,675.00
13.04	Additional Steam Cured Lateral Liner – 8" to 21" Diameter Main, 4" to 6" Diameter Lateral, > 18" Long	LF	\$175.00	\$250.00
13.05	UV Light Cured LCR - 8" to 12" Dia. Main, 4" to 6" Diameter Lateral, Up to 18" Long	EA	\$1,375.00	\$1,775.00
13.06	UV Light Cured LCR - 15" to 21" Dia. Main, 4" to 6" Diameter Lateral, Up to 18" Long	EA	\$4,000.00	\$4,675.00
13.07	Additional UV Light Cured Lateral Liner – 8" to 21" Diameter Main, 4" to 6" Diameter Lateral, > 18" Long	LF	\$175.00	\$250.00
13.08	Lateral Liner Terminating in Manhole, 4" to 6" Diameter	EA	\$1,850.00	\$2,750.00
13.09	In-Lateral Transition from 6" to 4" Diameter or 8" to 6" Diameter	EA	\$1,000.00	\$1,650.00
13.10	Mainline Manhole Drops, 8" to 12" Diameter	EA	\$4,500.00	\$5,500.00

	PRESSURE TESTING AND GROUTING OF SEWER LINE JOINTS			
Item No.	Item Description	<u>Unit</u>		
14.00	Mobilization for Sewer Joint Testing and Grouting (Each Work Order)	LS	\$750.00	\$2,625.00
14.01	Testing of 8" Diameter Pipe Joints	EA	\$50.00	\$52.00
14.02	Testing of 10" Diameter Pipe Joints	EA	\$50.00	\$56.00
14.03	Testing of 12" Diameter Pipe Joints	EA	\$50.00	\$61.25
14.04	Grouting of 8" Diameter Pipe Joints	EA	\$30.00	\$5.00
14.05	Grouting of 10" Diameter Pipe Joints	EA	\$30.00	\$5.00
14.06	Grouting of 12" Diameter Pipe Joints	EA	\$30.00	\$5.00
14.07	Testing Lateral Connections on an 8" Diameter Sewer Main	EA	\$425.00	\$580.00
14.08	Testing Lateral Connections on a 10" Diameter Sewer Main	EA	\$425.00	\$580.00
14.09	Testing Lateral Connections on a 12" Diameter Sewer Main	EA	\$425.00	\$580.00
14.10	Grouting Lateral Connections on an 8" Diameter Sewer Main	EA	\$100.00	\$10.00
14.11	Grouting Lateral Connections on a 10" Diameter Sewer Main	EA	\$100.00	\$10.00
14.12	Grouting Lateral Connections on a 12" Diameter Sewer Main	EA	\$100.00	\$10.00
14.13	Testing of Small Diameter Sewer Lines Connected to Manholes	EA	\$425.00	\$575.00
14.14	Grouting of Small Diameter Sewer Lines Connected to Manholes	EA	\$100.00	\$25.00
14.15	Injectable Urethane Grout	GAL	\$12.00	\$185.00
14.16	Injectable Acrylamide Grout	GAL	\$12.00	\$12.00
	MANHOLE FRAME AND COVER REPLACEMENT			
Item No.	Item Description	<u>Unit</u>		
15.00	Mobilization for MH Frame and Cover Replacement (Each Work Order)	LS	\$675.00	\$1,650.00
15.01	Frame and Cover Under Arterial Street (Material)	EA	\$410.00	\$905.00
15.02	Frame and Cover Not Under Arterial Street (Material)	EA	\$340.00	\$305.00
15.03	Under Turf (Installation)	EA	\$775.00	\$880.00
15.04	Under Alleyway (Installation)	EA	\$875.00	\$1,100.00
15.05	Under Pavement (Installation)	EA	\$2,075.00	\$2,200.00
	CEMENTITIOUS & EPOXY MANHOLE RENOVATION AND PIPE END SEALS			
Item No.	Item Description	<u>Unit</u>		
16.00	Mobilization for Cementitious & Epoxy MH Renovation (Each Work Order)	LS	\$3,000.00	\$3,260.00
16.01	Cementitious (Type 1 Portland Cement) Lining	SF	\$13.00	\$22.00
16.02	Cementitious H ₂ S Resistant (Fused Aluminate Clinker) Lining	SF	\$14.50	\$28.00
16.03	Cementitious Lining with Antimicrobial Additive	SF	\$16.00	\$23.20
16.04	Epoxy Lining	SF	\$19.00	\$45.00
16.05	Cementitious & Epoxy Lining	SF	\$33.00	\$55.60
16.06	CIPP End Seals Mobilization for CIPP End Seals (Each Work Order)	LS	\$2,000.00	\$5,100.00
16.07	8" Diameter CIPP End Seal	EA	\$600.00	\$600.00
16.08	10" Diameter CIPP End Seal	EA	\$650.00	\$700.00
16.09	12" Diameter CIPP End Seal	EA	\$700.00	\$800.00
16.10	15" Diameter CIPP End Seal	EA	\$750.00	\$900.00
16.10	18" Diameter CIPP End Seal	EA	\$900.00	\$900.00
10.11		EA	φ900.00	φ1,000.00

	FLEXIBLE MANHOLE CHIMNEY SEALANT				
Item No.	Item Description	<u>Unit</u>	_		
17.00	Mobilization for Flexible MH Chimney Sealant (Each Work Order)	LS		\$1,500.00	\$3,850.00
17.01	Chimney Sealant	SF		\$150.00	\$125.00

	MANHOLE RENOVATION USING CIPM			
Item No.	Item Description	<u>Unit</u>		
18.00	Mobilization for CIPM Renovation (Each Work Order)	LS	\$2,500.00	\$3,895.00
18.01	4' Diameter CIPM (Up to 6' Deep)	EA	\$3,900.00	\$4,200.00
18.02	4' Diameter CIPM Extra Depth	VF	\$650.00	\$700.00
18.03	5' Diameter CIPM (Up to 6' Deep)	EA	\$6,000.00	\$5,490.00
18.04	5' Diameter CIPM Extra Depth	VF	\$1,000.00	\$915.00
18.05	6' Diameter CIPM (Up to 6' Deep)	EA	\$7,500.00	\$6,090.00
18.06	6" Diameter CIPM Extra Depth	VF	\$1,250.00	\$1,015.00

	MANHOLE GROUTING			
Item No.	Item Description	<u>Unit</u>		
19.00	Mobilization for MH Grouting (Each Work Order)	LS	\$750.00	\$2,320.00
19.01	Setup Per Manhole	EA	\$100.00	\$10.00
19.02	Manhole Grouting Labor, Including Operators and Equipment	HR	\$260.00	\$275.00
19.03	Injectable Grout	GAL	\$12.00	\$12.00

	OPEN CUT SEWER LINE WORK 8" THROUGH 12" DIAMETER			
Item No.	Item Description	<u>Unit</u>		
20.00	Mobilization for Open Cut Sewer Line Work 8" to 12" Diameter (Each Work Order)	LS	\$675.00	\$1,650.00
	Point Repair for 8" and 10" Diameter Existing Sewer Line			
20.01	8" and 10" Dia. Point Repair, 0'-6' Deep Under Turf, Up to 10' Long	EA	\$1,750.00	\$2,200.00
20.02	8" and 10" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Turf	LF	\$108.00	\$82.50
20.03	8" and 10" Dia. Point Repair, 6'-12' Deep Under Turf, Up to 10' Long	EA	\$2,000.00	\$2,475.00
20.04	8" and 10" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Turf	LF	\$120.00	\$110.00
20.05	8" and 10" Point Repair, 12'-18' Deep Under Turf, Up to 10' Long	EA	\$3,100.00	\$3,850.00
20.06	8" and 10" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Turf	LF	\$170.00	\$220.00
20.07	8" and 10" Dia. Point Repair, 0'-6' Deep Under Alleyway, Up to 10' Long	EA	\$2,615.00	\$2,475.00
20.08	8" and 10" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Alleyway	LF	\$140.00	\$110.00
20.09	8" and 10" Dia. Point Repair, 6'-12' Deep Under Alleyway, Up to 10' Long	EA	\$3,075.00	\$2,750.00
20.10	8" and 10" Point Repair, Additional Footage (>10'), 6'-12' Deep Under Alleyway	LF	\$165.00	\$140.00
20.11	8" and 10" Dia. Point Repair, 12'-18' Deep Under Alleyway, Up to 10' Long	EA	\$4,050.00	\$4,400.00
20.12	8" and 10" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Alleyway	LF	\$240.00	\$250.00
20.13	8" and 10" Dia. Point Repair, 0'-6' Deep Under Pavement, Up to 10' Long	EA	\$4,050.00	\$4,125.00
20.14	8" and 10" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Pavement	LF	\$240.00	\$250.00
20.15	8" and 10" Dia. Point Repair, 6'-12' Deep Under Pavement, Up to 10' Long	EA	\$4,400.00	\$4,675.00
20.16	8" and 10" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Pavement	LF	\$250.00	\$275.00
20.17	8" and 10" Dia. Point Repair, 12'-18' Deep Under Pavement, Up to 10' Long	EA	\$5,700.00	\$6,875.00
20.18	8" and 10" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Pavement	LF	\$375.00	\$385.00

	Installation of New 8" and 10" Diameter Sewer Line			
20.19	New 8" to 10" Dia. Sewer Main, 0'-6' Deep Under Turf (Max 350')	LF	\$77.50	\$85.00
20.20	New 8" to 10" Dia. Sewer Main, 6'-12' Deep Under Turf (Max 350')	LF	\$82.75	\$110.00
20.21	New 8" to 10" Dia. Sewer Main, 12'-18' Deep Under Turf (Max 350')	LF	\$124.00	\$165.00
20.22	New 8" to 10" Dia. Sewer Main, 0'-6' Deep Under Alleyway (Max 350')	LF	\$93.00	\$95.00
20.23	New 8" to 10" Dia. Sewer Main, 6'-12' Deep Under Alleyway (Max 350')	LF	\$110.00	\$125.00
20.24	New 8" to 10" Dia. Sewer Main, 12'-18' Deep Under Alleyway (Max 350')	LF	\$165.00	\$176.00
20.25	New 8" to 10" Dia. Sewer Main, 0'-6' Deep Under Pavement (Max 350')	LF	\$145.00	\$205.00
20.26	New 8" to 10" Dia. Sewer Main, 6'-12' Deep Under Pavement (Max 350')	LF	\$155.00	\$235.00
20.27	New 8" to 10" Dia. Sewer Main, 12'-18' Deep Under Pavement (Max 350')	LF	\$215.00	\$286.00
20.28	Open Trench Stream Crossing for an 8" or 10" Dia. Sewer Line (Min. 20')	LF	\$235.00	\$275.00
	Point Repair for 12" Diameter Existing Sewer Line			
20.29	12" Dia. Point Repair, 0'-6' Deep Under Turf, Up to 10' Long	EA	\$1,725.00	\$2,420.00
20.30	12" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Turf	LF	\$112.00	\$95.00
20.31	12" Dia. Point Repair, 6'-12' Deep Under Turf, Up to 10' Long	EA	\$2,200.00	\$2,695.00
20.32	12" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Turf	LF	\$130.00	\$125.00
20.33	12" Dia. Point Repair, 12'-18' Deep Under Turf, Up to 10' Long	EA	\$3,300.00	\$4,070.00
20.34	12" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Turf	LF	\$190.00	\$235.00
20.35	12" Dia. Point Repair, 0'-6' Deep Under Alleyway, Up to 10' Long	EA	\$2,600.00	\$2,695.00
20.36	12" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Alleyway	LF	\$155.00	\$125.00
20.37	12" Dia. Point Repair, 6'-12' Deep Under Alleyway, Up to 10' Long	EA	\$2,900.00	\$2,970.00
20.38	12" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Alleyway	LF	\$170.00	\$150.00
20.39	12" Dia. Point Repair, 12'-18' Deep Under Alleyway, Up to 10' Long	EA	\$3,600.00	\$4,620.00
20.40	12" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Alleyway	LF	\$260.00	\$260.00
20.41	12" Dia. Point Repair, 0'-6' Deep Under Pavement, Up to 10' Long	EA	\$4,000.00	\$4,400.00
20.42	12" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Pavement	LF	\$250.00	\$260.00
20.43	12" Dia. Point Repair, 6'-12' Deep Under Pavement, Up to 10' Long	EA	\$4,400.00	\$4,950.00
20.44	12" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Pavement	LF	\$285.00	\$290.00
20.45	12" Dia. Point Repair, 12'-18' Deep Under Pavement, Up to 10' Long	EA	\$6,200.00	\$7,150.00
20.46	12" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Pavement	LF	\$405.00	\$400.00
	Installation of New 12" Diameter Sewer Line			
20.47	New 12" Dia. Sewer Main, 0'-6' Deep Under Turf (Max 350')	LF	\$83.00	\$95.00
20.48	New 12" Dia. Sewer Main, 6'-12' Deep Under Turf (Max 350')	LF	\$103.00	\$125.00
20.49	New 12" Dia. Sewer Main, 12'-18' Deep Under Turf (Max 350')	LF	\$145.00	\$180.00
20.50	New 12" Dia. Sewer Main, 0'-6' Deep Under Alleyway (Max 350')	LF	\$100.00	\$105.00
20.51	New 12" Dia. Sewer Main, 6'-12' Deep Under Alleyway (Max 350')	LF	\$130.00	\$135.00
20.52	New 12" Dia. Sewer Main, 12'-18' Deep Under Alleyway (Max 350')	LF	\$165.00	\$190.00
20.53	New 12" Dia. Sewer Main, 0'-6' Deep Under Pavement (Max 350')	LF	\$175.00	\$215.00
20.54	New 12" Dia. Sewer Main, 6'-12' Deep Under Pavement (Max 350')	LF	\$200.00	\$245.00
20.55	New 12" Dia. Sewer Main, 12'-18' Deep Under Pavement (Max 350')	LF	\$250.00	\$300.00
20.56	Open Trench Stream Crossing for a 12" Dia. Sewer Line (Min. 20')	LF	\$285.00	\$330.00

	OPEN CUT SEWER LINE WORK 15" THROUGH 18" DIAMETER			
Item No.	Item Description Mobilization for Open Cut Sewer Line Work 15" to 18" Diameter (Each Work	<u>Unit</u>		
21.00	Order)	LS	\$675.00	\$1,650.00
21.01	Point Repair for 15" Diameter Existing Sewer Line 15" Dia. Point Repair, 0'-6' Deep Under Turf, Up to 10' Long	EA	\$2,000.00	\$2,750.00
21.02	15" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Turf	LF	\$125.00	\$125.00
21.03	15" Dia. Point Repair, 6'-12' Deep Under Turf, Up to 10' Long	EA	\$2,200.00	\$3,025.00
21.04	15" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Turf	LF	\$140.00	\$150.00
21.05	15" Dia. Point Repair, 12'-18' Deep Under Turf, Up to 10' Long	EA	\$2,850.00	\$4,400.00
21.06	15" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Turf	LF	\$195.00	\$260.00
21.07	15" Dia. Point Repair, 0'-6' Deep Under Alleyway, Up to 10' Long	EA	\$2,625.00	\$3,025.00
21.08	15" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Alleyway	LF	\$130.00	\$150.00
21.09	15" Dia. Point Repair, 6'-12' Deep Under Alleyway, Up to 10' Long	EA	\$2,875.00	\$3,300.00
21.10	15" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Alleyway	LF	\$185.00	\$176.00
21.11	15" Dia. Point Repair, 12'-18' Deep Under Alleyway, Up to 10' Long	EA	\$3,750.00	\$4,950.00
21.12	15" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Alleyway	LF	\$250.00	\$290.00
21.13	15" Dia. Point Repair, 0'-6' Deep Under Pavement, Up to 10' Long	EA	\$3,550.00	\$4,730.00
21.14	15" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Pavement	LF	\$360.00	\$290.00
21.15	15" Dia. Point Repair, 6'-12' Deep Under Pavement, Up to 10' Long	EA	\$3,650.00	\$5,280.00
21.16	15" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Pavement	LF	\$365.00	\$315.00
21.17	15" Dia. Point Repair, 12'-18' Deep Under Pavement, Up to 10' Long	EA	\$6,300.00	\$7,480.00
21.18	15" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Pavement	LF	\$355.00	\$425.00
	Installation of New 15" Diameter Sewer Line			
21.19	New 15" Dia. Sewer Main, 0'-6' Deep Under Turf (Max 350')	LF	\$34.00	\$110.00
21.20	New 8" to 10" Dia. Sewer Main, 6'-12' Deep Under Turf (Max 350')	LF	\$115.00	\$140.00
21.21	New 15" Dia. Sewer Main, 12'-18' Deep Under Turf (Max 350')	LF	\$165.00	\$195.00
21.22	New 8" to 10" Dia. Sewer Main, 0'-6' Deep Under Alleyway (Max 350')	LF	\$110.00	\$125.00
21.23	New 15" Dia. Sewer Main, 6'-12' Deep Under Alleyway (Max 350')	LF	\$140.00	\$150.00
21.24	New 8" to 10" Dia. Sewer Main, 12'-18' Deep Under Alleyway (Max 350')	LF	\$175.00	\$205.00
21.25	New 15" Dia. Sewer Main, 0'-6' Deep Under Pavement (Max 350')	LF	\$185.00	\$235.00
21.26	New 8" to 10" Dia. Sewer Main, 6'-12' Deep Under Pavement (Max 350')	LF	\$210.00	\$260.00
21.27	New 15" Dia. Sewer Main, 12'-18' Deep Under Pavement (Max 350')	LF	\$260.00	\$315.00
21.28	Open Trench Creek Crossing for a 15" Dia. Sewer Line (Min. 20')	LF	\$315.00	\$385.00
	Point Repair for 18" Diameter Existing Sewer Line			
21.29	18" Dia. Point Repair, 0'-6' Deep Under Turf, Up to 10' Long	EA	\$2,600.00	\$3,300.00
21.30	18" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Turf	LF	\$155.00	\$180.00
21.31	18" Dia. Point Repair, 6'-12' Deep Under Turf, Up to 10' Long	EA	\$2,600.00	\$3,575.00
21.32	18" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Turf	LF	\$180.00	\$215.00
21.33	18" Dia. Point Repair, 12'-18' Deep Under Turf, Up to 10' Long	EA	\$3,150.00	\$4,950.00
21.34	18" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Turf	LF	\$235.00	\$315.00
21.35	18" Dia. Point Repair, 0'-6' Deep Under Alleyway, Up to 10' Long	EA	\$2,625.00	\$3,575.00
21.36	18" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Alleyway	LF	\$185.00	\$205.00
21.37	18" Dia. Point Repair, 6'-12' Deep Under Alleyway, Up to 10' Long	EA	\$2,835.00	\$3,850.00

21.38	18" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Alleyway	LF	\$210.00	\$235.00
21.39	18" Dia. Point Repair, 12'-18' Deep Under Alleyway, Up to 10' Long	EA	\$4,300.00	\$5,500.00
21.40	18" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Alleyway	LF	\$295.00	\$345.00
21.41	18" Dia. Point Repair, 0'-6' Deep Under Pavement, Up to 10' Long	EA	\$4,300.00	\$5,280.00
21.42	18" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Pavement	LF	\$300.00	\$345.00
21.43	18" Dia. Point Repair, 6'-12' Deep Under Pavement, Up to 10' Long	EA	\$4,725.00	\$5,830.00
21.44	18" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Pavement	LF	\$325.00	\$370.00
21.45	18" Dia. Point Repair, 12'-18' Deep Under Pavement, Up to 10' Long	EA	\$5,400.00	\$8,030.00
21.46	18" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Pavement	LF	\$355.00	\$480.00
	Installation of New 18" Diameter Sewer Line			
21.47	New 18" Dia. Sewer Main, 0'-6' Deep Under Turf (Max 350')	LF	\$110.00	\$140.00
21.48	New 18" Dia. Sewer Main, 6'-12' Deep Under Turf (Max 350')	LF	\$130.00	\$165.00
21.49	New 18" Dia. Sewer Main, 12'-18' Deep Under Turf (Max 350')	LF	\$150.00	\$220.00
21.50	New 18" Dia. Sewer Main, 0'-6' Deep Under Alleyway (Max 350')	LF	\$125.00	\$150.00
21.51	New 18" Dia. Sewer Main, 6'-12' Deep Under Alleyway (Max 350')	LF	\$155.00	\$180.00
21.52	New 18" Dia. Sewer Main, 12'-18' Deep Under Alleyway (Max 350')	LF	\$195.00	\$235.00
21.53	New 18" Dia. Sewer Main, 0'-6' Deep Under Pavement (Max 350')	LF	\$195.00	\$260.00
21.54	New 18" Dia. Sewer Main, 6'-12' Deep Under Pavement (Max 350')	LF	\$225.00	\$290.00
21.55	New 18" to 10" Dia. Sewer Main, 12'-18' Deep Under Pavement (Max 350')	LF	\$175.00	\$345.00
21.56	Open Trench Creek Crossing for an 18" Dia. Sewer Line (Min. 20')	LF	\$365.00	\$415.00

	OPEN CUT LATERAL SEWER LINE WORK			
Item No.	Item Description	<u>Unit</u>		
22.00	Mobilization for Open Cut Lateral Sewer Line Work (Each Work Order)	LS	\$675.00	\$1,650.00
	Connection Repair (4" and 6" Dia.) on an 8" to 10" Diameter Sewer Main			
22.01	Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 0'-6' Deep Under Turf	EA	\$2,275.00	\$1,980.00
22.02	Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 6'-12' Deep Under Turf	EA	\$2,575.00	\$2,750.00
22.03	Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 12'-18' Deep Under Turf	EA	\$3,625.00	\$4,400.00
22.04	Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 0'-6' Deep Under Alleyway	EA	\$2,700.00	\$2,200.00
22.05	Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 6'-12' Deep Under Alleyway	EA	\$3,200.00	\$2,970.00
22.06	Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 12'-18' Deep Under Alleyway	EA	\$4,100.00	\$4,620.00
22.07	Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 0'-6' Deep Under Pavement	EA	\$4,700.00	\$3,630.00
22.08	Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 6'-12' Deep Under Pavement	EA	\$5,175.00	\$4,400.00
22.09	Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 12'-18' Deep Under Pavement	EA	\$5,950.00	\$6,600.00
22.10	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	\$675.00	\$1,100.00
	Connection Repair (4" and 6" Dia.) on a 12" Diameter Sewer Main			
22.11	Open Cut Lateral Connection Repair 12" Dia. Main, 0'-6' Deep Under Turf	EA	\$2,300.00	\$2,255.00
22.12	Open Cut Lateral Connection Repair 12" Dia. Main, 6'-12' Deep Under Turf	EA	\$2,800.00	\$3,025.00
22.13	Open Cut Lateral Connection Repair 12" Dia. Main, 12'-18' Deep Under Turf	EA	\$4,100.00	\$4,675.00
22.14	Open Cut Lateral Connection Repair 12" Dia. Main, 0'-6' Deep Under Alleyway	EA	\$3,050.00	\$2,475.00
22.15	Open Cut Lateral Connection Repair 12" Dia. Main, 6'-12' Deep Under Alleyway	EA	\$3,350.00	\$3,245.00
22.16	Open Cut Lateral Connection Repair 12" Dia. Main, 12'-18' Deep Under Alleyway	EA	\$4,900.00	\$4,895.00
22.17	Open Cut Lateral Connection Repair 12" Dia. Main, 0'-6' Deep Under Pavement	EA	\$5,300.00	\$3,905.00
22.18	Open Cut Lateral Connection Repair 12" Dia. Main, 6'-12' Deep Under Pavement	EA	\$5,775.00	\$4,675.00

Open Cut Lateral Connection Repair 12" Dia. Main, 12'-18' Deep Under Pavement	EA	\$7,770.00	\$6,875.00
Open Cut Lateral Connection Repair 12" Dia. Main Completed During an Open Cut Point Repair or Simultaneous Open Cut Lateral Connection Repair	EA	\$785.00	\$1,375.00
Connection Repair (4" and 6" Dia.) on a 15" Diameter Sewer Main			
Open Cut Lateral Connection Repair 15" Dia. Main, 0'-6' Deep Under Turf	EA	\$2,200.00	\$2,255.00
Open Cut Lateral Connection Repair 15" Dia. Main, 6'-12' Deep Under Turf	EA	\$2,600.00	\$3,025.00
Open Cut Lateral Connection Repair 15" Dia. Main, 12'-18' Deep Under Turf	EA	\$4,000.00	\$4,675.00
Open Cut Lateral Connection Repair 15" Dia. Main, 0'-6' Deep Under Alleyway	EA	\$2,800.00	\$2,475.00
Open Cut Lateral Connection Repair 15" Dia. Main, 6'-12' Deep Under Alleyway	EA	\$3,150.00	\$3,245.00
Open Cut Lateral Connection Repair 15" Dia. Main, 12'-18' Deep Under Alleyway	EA	\$4,500.00	\$4,895.00
Open Cut Lateral Connection Repair 15" Dia. Main, 0'-6' Deep Under Pavement	EA	\$3,900.00	\$3,905.00
Open Cut Lateral Connection Repair 15" Dia. Main, 6'-12' Deep Under Pavement	EA	\$4,725.00	\$4,675.00
Open Cut Lateral Connection Repair 15" Dia. Main, 12'-18' Deep Under	EA	\$5,250.00	\$6,875.00
Open Cut Lateral Connection Repair 15" Dia. Main Completed During an Open Cut Point Repair or Simultaneous Open Cut Lateral Connection Repair	EA	\$775.00	\$1,650.00
Connection Repair (4" and 6" Dia.) on an 18" Diameter Sewer Main			
Open Cut Lateral Connection Repair 18" Dia. Main, 0'-6' Deep Under Turf	EA	\$2,400.00	\$2,255.00
Open Cut Lateral Connection Repair 18" Dia. Main, 6'-12' Deep Under Turf	EA	\$2,700.00	\$3,025.00
Open Cut Lateral Connection Repair 18" Dia. Main, 12'-18' Deep Under Turf	EA	\$4,100.00	\$4,895.00
Open Cut Lateral Connection Repair 18" Dia. Main, 0'-6' Deep Under Alleyway	EA	\$2,800.00	\$2,695.00
Open Cut Lateral Connection Repair 18" Dia. Main, 6'-12' Deep Under Alleyway	EA	\$3,100.00	\$3,465.00
Open Cut Lateral Connection Repair 18" Dia. Main, 12'-18' Deep Under Alleyway	EA	\$4,500.00	\$5,115.00
Open Cut Lateral Connection Repair 18" Dia. Main, 0'-6' Deep Under Pavement	EA	\$3,900.00	\$4,125.00
Open Cut Lateral Connection Repair 18" Dia. Main, 6'-12' Deep Under Pavement	EA	\$4,700.00	\$4,895.00
Open Cut Lateral Connection Repair 18" Dia. Main, 12'-18' Deep Under	EA	\$5,250.00	\$7,095.00
Open Cut Lateral Connection Repair 18" Dia. Main Completed During an Open Cut Point Repair or Simultaneous Open Cut Lateral Connection Repair	EA	\$900.00	\$1,760.00
4" Diameter Sewer Lateral Line			
4" Dia. Sewer Lateral, 0'-6' Deep Under Turf	LF	\$46.50	\$44.00
4" Dia. Sewer Lateral, 6'-12' Deep Under Turf	LF	\$57.00	\$55.00
4" Dia. Sewer Lateral, 6'-12' Deep Under Turf 4" Dia. Sewer Lateral, 12'-18' Deep Under Turf	LF LF	\$57.00 \$73.00	· · · · · · · · · · · · · · · · · · ·
			\$55.00
4" Dia. Sewer Lateral, 12'-18' Deep Under Turf	LF	\$73.00	\$55.00
4" Dia. Sewer Lateral, 12'-18' Deep Under Turf 4" Dia. Sewer Lateral, 0'-6' Deep Under Alleyway	LF LF	\$73.00 \$67.50	\$55.00 \$85.00 \$66.00
4" Dia. Sewer Lateral, 12'-18' Deep Under Turf 4" Dia. Sewer Lateral, 0'-6' Deep Under Alleyway 4" Dia. Sewer Lateral, 6'-12' Deep Under Alleyway	LF LF LF	\$73.00 \$67.50 \$93.00	\$55.00 \$85.00 \$66.00 \$77.00
4" Dia. Sewer Lateral, 12'-18' Deep Under Turf 4" Dia. Sewer Lateral, 0'-6' Deep Under Alleyway 4" Dia. Sewer Lateral, 6'-12' Deep Under Alleyway 4" Dia. Sewer Lateral, 12'-18' Deep Under Alleyway	LF LF LF LF	\$73.00 \$67.50 \$93.00 \$124.00	\$55.00 \$85.00 \$66.00 \$77.00 \$105.00
4" Dia. Sewer Lateral, 12'-18' Deep Under Turf 4" Dia. Sewer Lateral, 0'-6' Deep Under Alleyway 4" Dia. Sewer Lateral, 6'-12' Deep Under Alleyway 4" Dia. Sewer Lateral, 12'-18' Deep Under Alleyway 4" Dia. Sewer Lateral, 0'-6' Deep Under Pavement	LF LF LF LF LF	\$73.00 \$67.50 \$93.00 \$124.00 \$103.00	\$55.00 \$85.00 \$66.00 \$77.00 \$105.00 \$110.00
4" Dia. Sewer Lateral, 12'-18' Deep Under Turf 4" Dia. Sewer Lateral, 0'-6' Deep Under Alleyway 4" Dia. Sewer Lateral, 6'-12' Deep Under Alleyway 4" Dia. Sewer Lateral, 12'-18' Deep Under Alleyway 4" Dia. Sewer Lateral, 0'-6' Deep Under Pavement 4" Dia. Sewer Lateral, 6'-12' Deep Under Pavement	LF LF LF LF LF LF	\$73.00 \$67.50 \$93.00 \$124.00 \$103.00 \$114.00	\$55.00 \$85.00 \$66.00 \$77.00 \$105.00 \$110.00 \$125.00
4" Dia. Sewer Lateral, 12'-18' Deep Under Turf 4" Dia. Sewer Lateral, 0'-6' Deep Under Alleyway 4" Dia. Sewer Lateral, 6'-12' Deep Under Alleyway 4" Dia. Sewer Lateral, 12'-18' Deep Under Alleyway 4" Dia. Sewer Lateral, 0'-6' Deep Under Pavement 4" Dia. Sewer Lateral, 6'-12' Deep Under Pavement 4" Dia. Sewer Lateral, 6'-12' Deep Under Pavement 4" Dia. Sewer Lateral, 12'-18' Deep Under Pavement	LF LF LF LF LF LF	\$73.00 \$67.50 \$93.00 \$124.00 \$103.00 \$114.00	\$55.00 \$85.00 \$66.00 \$77.00 \$105.00 \$110.00 \$125.00
4" Dia. Sewer Lateral, 12'-18' Deep Under Turf 4" Dia. Sewer Lateral, 0'-6' Deep Under Alleyway 4" Dia. Sewer Lateral, 6'-12' Deep Under Alleyway 4" Dia. Sewer Lateral, 12'-18' Deep Under Alleyway 4" Dia. Sewer Lateral, 0'-6' Deep Under Pavement 4" Dia. Sewer Lateral, 6'-12' Deep Under Pavement 4" Dia. Sewer Lateral, 6'-12' Deep Under Pavement 6" Diameter Sewer Lateral Line	LF LF LF LF LF LF LF	\$73.00 \$67.50 \$93.00 \$124.00 \$103.00 \$114.00 \$145.00	\$55.00 \$85.00 \$66.00 \$77.00 \$105.00 \$110.00 \$125.00 \$165.00
4" Dia. Sewer Lateral, 12'-18' Deep Under Turf 4" Dia. Sewer Lateral, 0'-6' Deep Under Alleyway 4" Dia. Sewer Lateral, 6'-12' Deep Under Alleyway 4" Dia. Sewer Lateral, 12'-18' Deep Under Alleyway 4" Dia. Sewer Lateral, 0'-6' Deep Under Pavement 4" Dia. Sewer Lateral, 6'-12' Deep Under Pavement 4" Dia. Sewer Lateral, 6'-12' Deep Under Pavement 4" Dia. Sewer Lateral, 12'-18' Deep Under Pavement 6" Dia. Sewer Lateral , 0'-6' Deep Under Turf	LF LF LF LF LF LF LF	\$73.00 \$67.50 \$93.00 \$124.00 \$103.00 \$114.00 \$145.00 \$48.50	\$55.00 \$85.00 \$66.00 \$77.00 \$105.00 \$110.00 \$125.00 \$165.00
4" Dia. Sewer Lateral, 12'-18' Deep Under Turf 4" Dia. Sewer Lateral, 0'-6' Deep Under Alleyway 4" Dia. Sewer Lateral, 6'-12' Deep Under Alleyway 4" Dia. Sewer Lateral, 12'-18' Deep Under Alleyway 4" Dia. Sewer Lateral, 0'-6' Deep Under Pavement 4" Dia. Sewer Lateral, 6'-12' Deep Under Pavement 4" Dia. Sewer Lateral, 6'-12' Deep Under Pavement 6" Dia. Sewer Lateral, 12'-18' Deep Under Pavement 6" Dia. Sewer Lateral, 0'-6' Deep Under Turf 6" Dia. Sewer Lateral, 6'-12' Deep Under Turf	LF LF LF LF LF LF LF LF	\$73.00 \$67.50 \$93.00 \$124.00 \$103.00 \$114.00 \$145.00 \$48.50 \$59.00	\$55.00 \$85.00 \$66.00 \$77.00 \$105.00 \$110.00 \$125.00 \$165.00 \$55.00 \$65.00
4" Dia. Sewer Lateral, 12'-18' Deep Under Turf 4" Dia. Sewer Lateral, 0'-6' Deep Under Alleyway 4" Dia. Sewer Lateral, 6'-12' Deep Under Alleyway 4" Dia. Sewer Lateral, 12'-18' Deep Under Alleyway 4" Dia. Sewer Lateral, 0'-6' Deep Under Pavement 4" Dia. Sewer Lateral, 6'-12' Deep Under Pavement 4" Dia. Sewer Lateral, 6'-12' Deep Under Pavement 6" Dia. Sewer Lateral, 12'-18' Deep Under Pavement 6" Dia. Sewer Lateral, 0'-6' Deep Under Turf 6" Dia. Sewer Lateral, 6'-12' Deep Under Turf 6" Dia. Sewer Lateral, 6'-12' Deep Under Turf	LF LF LF LF LF LF LF LF LF	\$73.00 \$67.50 \$93.00 \$124.00 \$103.00 \$114.00 \$1145.00 \$48.50 \$59.00 \$77.75	\$55.00 \$85.00 \$66.00 \$77.00 \$105.00 \$110.00 \$125.00 \$165.00 \$55.00 \$65.00 \$95.00
	Cut Point Repair or Simultaneous Open Cut Lateral Connection Repair Connection Repair (4" and 6" Dia.) on a 15" Diameter Sewer Main Open Cut Lateral Connection Repair 15" Dia. Main, 0'-6' Deep Under Turf Open Cut Lateral Connection Repair 15" Dia. Main, 6'-12' Deep Under Turf Open Cut Lateral Connection Repair 15" Dia. Main, 0'-6' Deep Under Alleyway Open Cut Lateral Connection Repair 15" Dia. Main, 0'-6' Deep Under Alleyway Open Cut Lateral Connection Repair 15" Dia. Main, 0'-6' Deep Under Alleyway Open Cut Lateral Connection Repair 15" Dia. Main, 0'-6' Deep Under Alleyway Open Cut Lateral Connection Repair 15" Dia. Main, 0'-6' Deep Under Alleyway Open Cut Lateral Connection Repair 15" Dia. Main, 0'-6' Deep Under Alleyway Open Cut Lateral Connection Repair 15" Dia. Main, 0'-6' Deep Under Pavement Open Cut Lateral Connection Repair 15" Dia. Main, 6'-12' Deep Under Pavement Open Cut Lateral Connection Repair 15" Dia. Main, 6'-12' Deep Under Pavement Open Cut Lateral Connection Repair 15" Dia. Main, 6'-12' Deep Under Pavement Open Cut Lateral Connection Repair 15" Dia. Main Completed During an Open Cut Point Repair or Simultaneous Open Cut Lateral Connection Repair Connection Repair (4" and 6" Dia.) on an 18" Diameter Sewer Main Open Cut Lateral Connection Repair 18" Dia. Main, 0'-6' Deep Under Turf Open Cut Lateral Connection Repair 18" Dia. Main, 0'-6' Deep Under Turf Open Cut Lateral Connection Repair 18" Dia. Main, 0'-6' Deep Under Turf Open Cut Lateral Connection Repair 18" Dia. Main, 0'-6' Deep Under Alleyway Open Cut Lateral Connection Repair 18" Dia. Main, 0'-6' Deep Under Alleyway Open Cut Lateral Connection Repair 18" Dia. Main, 0'-6' Deep Under Alleyway Open Cut Lateral Connection Repair 18" Dia. Main, 0'-6' Deep Under Alleyway Open Cut Lateral Connection Repair 18" Dia. Main, 0'-6' Deep Under Pavement Open Cut Lateral Connection Repair 18" Dia. Main, 0'-6' Deep Under Pavement Open Cut Lateral Connection Repair 18" Dia. Main, 0'-6' Deep Under Pavement Open Cut Lateral Conne	Cut Point Repair or Simultaneous Open Cut Lateral Connection Repair EA Open Cut Lateral Connection Repair 15" Dia. Main, 0'-6' Deep Under Turf EA Open Cut Lateral Connection Repair 15" Dia. Main, 0'-6' Deep Under Turf EA Open Cut Lateral Connection Repair 15" Dia. Main, 6'-12' Deep Under Turf EA Open Cut Lateral Connection Repair 15" Dia. Main, 0'-6' Deep Under Turf EA Open Cut Lateral Connection Repair 15" Dia. Main, 0'-6' Deep Under Alleyway EA Open Cut Lateral Connection Repair 15" Dia. Main, 0'-6' Deep Under Alleyway EA Open Cut Lateral Connection Repair 15" Dia. Main, 0'-6' Deep Under Alleyway EA Open Cut Lateral Connection Repair 15" Dia. Main, 0'-6' Deep Under Pavement EA Open Cut Lateral Connection Repair 15" Dia. Main, 0'-6' Deep Under Pavement EA Open Cut Lateral Connection Repair 15" Dia. Main, 0'-6' Deep Under Pavement EA Open Cut Lateral Connection Repair 15" Dia. Main, 0'-6' Deep Under Pavement EA Open Cut Lateral Connection Repair 15" Dia. Main, 0'-6' Deep Under Turf EA Open Cut Lateral Connection Repair 15" Dia. Main, 0'-6' Deep Under Turf EA Open Cut Lateral Connection Repair 18" Dia. Main, 0'-6' Deep Under Turf EA Open Cut Lateral Connection Repair 18" Dia. Main, 0'-6' Deep Under Turf EA Open C	Cut Point Repair or Simultaneous Open Cut Lateral Connection Repair EA \$785.00 Open Cut Lateral Connection Repair 15" Dia. Main, 0'-6' Deep Under Turf EA \$2,200.00 Open Cut Lateral Connection Repair 15" Dia. Main, 0'-6' Deep Under Turf EA \$2,200.00 Open Cut Lateral Connection Repair 15" Dia. Main, 0'-6' Deep Under Turf EA \$2,200.00 Open Cut Lateral Connection Repair 15" Dia. Main, 0'-6' Deep Under Turf EA \$4,000.00 Open Cut Lateral Connection Repair 15" Dia. Main, 0'-6' Deep Under Alleyway EA \$2,800.00 Open Cut Lateral Connection Repair 15" Dia. Main, 0'-6' Deep Under Alleyway EA \$3,150.00 Open Cut Lateral Connection Repair 15" Dia. Main, 0'-6' Deep Under Pavement EA \$4,500.00 Open Cut Lateral Connection Repair 15" Dia. Main, 0'-12' Deep Under Pavement EA \$4,725.00 Open Cut Lateral Connection Repair 15" Dia. Main, 0'-12' Deep Under Pavement EA \$5,250.00 Open Cut Lateral Connection Repair 15" Dia. Main Completed During an Open Cut Lateral Connection Repair 15" Dia. Main, 0'-6' Deep Under Turf EA \$2,400.00 Open Cut Lateral Connection Repair 18" Dia. Main, 0'-6' Deep Under Turf EA \$2,200.00 Open Cut Lateral Connection Repair 18" Dia. Main, 0'-6' Deep Under Turf EA \$2,200.00

22.56	6" Dia. Sewer Lateral, 0'-6' Deep Under Pavement	LF	\$116.00	\$125.00
22.57	6" Dia. Sewer Lateral, 6'-12' Deep Under Pavement	LF	\$119.00	\$132.00
22.58	6" Dia. Sewer Lateral, 12'-18' Deep Under Pavement	LF	\$145.00	\$176.00
	Service Lateral Line Cleanout			
22.59	Cleanout, 0'-6' Deep Under Turf	EA	\$1,300.00	\$1,650.00
22.60	Cleanout, 6'-12' Deep Under Turf	EA	\$1,550.00	\$1,925.00
22.61	Cleanout, 0'-6' Deep Under Crushed Stone	EA	\$1,800.00	\$2,200.00
22.62	Cleanout, 6'-12' Deep Under Crushed Stone	EA	\$2,600.00	\$2,475.00
22.63	Cleanout, 0'-6' Deep Under Pavement	EA	\$2,800.00	\$3,300.00
22.64	Cleanout, 6'-12' Deep Under Pavement	EA	\$4,000.00	\$3,850.00
	INSTALLATION OF NEW MANHOLES	P		
Item No.		Unit		
23.00	Mobilization for Installation of New Manholes (Each Work Order)	LS	\$675.00	\$2,200.00
	Lamphole	I		
23.01	8" Dia. Lamphole, Up to 6' Deep	EA	\$3,150.00	\$2,200.00
23.02	10" Dia. Lamphole, Up to 6' Deep	EA	\$3,350.00	\$2,475.00
	4-Foot Diameter			
23.03	4' Dia. Manhole Under Turf, Up to 8' Deep	EA	\$4,400.00	\$5,500.00
23.04	4' Dia. Manhole Under Alleyway, Up to 8' Deep	EA	\$5,000.00	\$5,775.00
23.05	4' Dia. Manhole Under Pavement, Up to 8' Deep	EA	\$6,000.00	\$7,150.00
23.06	4' Dia. Manhole Extra Depth, > 8' Deep	FT	\$195.00	\$550.00
	5-Foot Diameter			
23.07	5' Dia. Manhole Under Turf, Up to 8' Deep	EA	\$6,000.00	\$7,150.00
23.08	5' Dia. Manhole Under Alleyway, Up to 8' Deep	EA	\$6,500.00	\$7,425.00
23.09	5' Dia. Manhole Under Pavement, Up to 8' Deep	EA	\$7,500.00	\$8,800.00
23.10	5' Dia. Manhole Extra Depth, > 8' Deep	FT	\$300.00	\$825.00
	6-Foot Diameter			
23.11	6' Dia. Manhole Under Turf, Up to 8' Deep	EA	\$7,000.00	\$8,250.00
23.12	6' Dia. Manhole Under Alleyway, Up to 8' Deep	EA	\$7,600.00	\$8,525.00
23.13	6' Dia. Manhole Under Pavement, Up to 8' Deep	EA	\$8,600.00	\$9,900.00

MISCELLANEOUS OPEN CUT SERVICES AND ITEMS

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

Item No.	Item Description	<u>Unit</u>		
24.00	Laborer	HR	\$84.00	\$110.00
24.01	Backhoe and Operator	HR	\$131.00	\$220.00
24.02	12,000 Lb Excavator and Operator	HR	\$145.00	\$220.00
24.03	18,000 Lb Excavator and Operator	HR	\$165.00	\$250.00
24.04	40,000 Lb Excavator and Operator	HR	\$210.00	\$275.00
24.05	>40,000 Lb Excavator and Operator	HR	\$260.00	\$305.00
24.06	Standard Dump Truck and Driver	HR	\$105.00	\$140.00
24.07	End Dump Truck and Driver	HR	\$142.00	\$165.00
	Miscellaneous Items		· · · · · · · · · · · · · · · · · · ·	,
24.08	Sewer Line Trench Plug	EA	\$1,200.00	\$2,200.00
24.09	Additional Crushed Stone Backfill	TON	\$17.00	\$44.00

24.10	Additional Saw Cutting Pavement, Up to 10" Thick	LF	\$11.00	\$10.00
24.11	Additional Concrete Pavement Replacement, 10" Thick	SF	\$11.50	\$15.00
24.12	Additional Curb and Gutter Replacement	LF	\$31.50	\$110.00
24.13	Disposal of Lead Contaminated Soil	CY	\$5.00	\$27.50

	EASEMENT CLEARING AND GRUBBING			
Item No.	Item Description	<u>Unit</u>		
25.00	Mobilization for Easement Clearing and Grubbing (Each Work Order)	LS	\$1,100.00	\$1,650.00
25.01	Laborer	HR	\$85.00	\$110.00
25.02	Laborer with Hand Tools	HR	\$125.00	\$165.00
25.03	Operator with Machine	HR	\$165.00	\$275.00
25.04	Hauling/Trucking and Disposal of Vegetation	HR	\$115.00	\$140.00

	PIPE BURSTING - HORIZONTAL DIRECTIONAL BORE			
Item No.	Item Description	<u>Unit</u>		
26.00	Mobilization for Pipe Bursting (Each Work Order)	LS	\$4,000.00	\$2,500.00
26.01	Setup Per Each Pipe Bursted Segment	LS	\$9,000.00	\$14,000.00
26.02	Pipe Bursting for 8" Dia. Pipe	LF	\$160.00	\$150.00
26.03	Pipe Bursting for 10" Dia. Pipe	LF	\$190.00	\$200.00
26.04	Pipe Bursting for 12" Dia. Pipe	LF	\$225.00	\$250.00

	BY-PASS PUMPING			
Item No.	Item Description	<u>Unit</u>		
27.00	Mobilization for By-Pass Pumping (Each Work Order)	LS	\$4,000.00	\$6,250.00
27.01	4-Inch By-Pass Pump	HR	\$350.00	\$1,250.00
27.02	6-Inch By-Pass Pump	HR	\$475.00	\$1,800.00
27.03	8-Inch By-Pass Pump	HR	\$775.00	\$2,400.00

	TRAFFIC CONTROL			
tem No.	Item Description	<u>Unit</u>		
28.00	Local Street Closure	EA	\$775.00	\$825.00
28.01	Short Duration Traffic Control for Collector or Arterial	EA	\$840.00	\$880.00
	Short-Term Stationary Traffic Control For Collector or A	rterial		
28.02	Outside Lane Closure (1-day)	EA	\$1,250.00	\$1,320.00
28.03	Inside Lane Closure (1-day)	EA	\$1,250.00	\$1,320.00
28.04	Center Turn Lane Closure (1-day)	EA	\$1,100.00	\$1,155.00
28.05	Two-Lane Closure (1-day)	EA	\$1,500.00	\$1,625.00
	Intermediate-Term Stationary Traffic Control For Collector of	or Arterial		
28.06	Outside Lane Closure (Up to 3-days)	EA	\$1,250.00	\$1,320.00
28.07	Outside Lane Closure (Each Additional Day)	DAY	\$325.00	\$330.00
28.08	Inside Lane Closure (Up to 3-days)	EA	\$1,250.00	\$1,320.00
28.09	Inside Lane Closure (Each Additional Day)	DAY	\$325.00	\$330.00
28.10	Center Turn Lane Closure (Up to 3-days)	EA	\$2,100.00	\$2,200.00
28.11	Center Turn Lane Closure (Each Additional Day)	DAY	\$650.00	\$660.00
28.12	Two-Lane Closure (Up to 3-days)	EA	\$2,100.00	\$2,200.00
28.13	Two-Lane Closure (Each Additional Day)	DAY	\$750.00	\$770.00

PERFORMANCE AND PAYMENT BOND % of Work Order

1.0



ALLGEIER, MARTIN and ASSOCIATES, INC.

CONCEPTUAL WORK ORDER NUMBER 1 2021-2023 EVALUATION AND REHABILITATION TOOLBOX FOR WASTEWATER COLLECTION SYSTEM CITY OF JOPLIN, MISSOURI

Setter LAR LINE CLANING AND CETV INSPECTION Land Dirac					•	leaning, Inc City, MO	•		
100 Keblitzten for Saver Line Gearing and Inspection LS 1.00 \$1,000.00 \$1,000.00 \$2,625.00 Light Cleaning Up to 3 Chaning Passes 100 of to 10 Diameter Light Cleaning LF 2,000.00 \$1.00 \$51.00 \$50.84 \$56.80.00 102 12 to 16 Diameter Light Cleaning LF 7,000.00 \$51.00 \$57.00.00 \$50.84 \$55.80.00 103 19 to 21 Diameter Light Cleaning LF 7,000.00 \$51.00 \$55.00.00 \$51.30 \$52.60 104 24 to 27 Diameter Heavy Cleaning LF 5,000.00 \$51.00 \$55.00.00 \$51.02		SEWER LINE CLEANING AND CCTV INSPECTION				<u></u>		<u></u>	
1.01 6 ¹ to 10 ¹ Diameter Light Cleaning LF 2,000,00 \$1,00 \$20,000,00 \$0,084 \$16,800,00 1.02 12 ¹ to 15 ¹ Diameter Light Cleaning LF 7,000,00 \$1,00 \$7,000,00 \$0,084 \$5,880,00 1.03 14 ¹ to 21 ¹ Diameter Light Cleaning LF 4,000,00 \$2,00 \$5,000,00 \$1,00 \$2,000,00 \$5,000,00		Mobilization for Sewer Line Cleaning and Inspection (Each Work Order)							
12° to 1° Diameter Light Cleaning LF 7,000,00 \$10 \$10,000,00 \$0,000,00									
13 16' to 21' Diameter Light Cleaning LF 4,000.00 51.25 55.00.00 53.380.00 1.04 24' to 27' Diameter Light Cleaning LF 2,000.00 \$5.00 \$5.00.00 \$5.00 \$5.00.00 \$5.00.00 \$5.00.00 \$5.10 \$5.00.00 \$5.00 \$5.00.00 \$5.00 \$5.00 \$5.00.00 \$5.00	1.01	6" to 10" Diameter Light Cleaning	LF	20,000.00	\$1.00	\$20,000.00	\$0.84	\$16,800.00	
1.04 24" to 27" Diameter Light Cleaning LF 2,000,00 S1.00 S4,000,00 1.09 6" to 10" Diameter Heavy Cleaning LF 5,000,00 \$1.10 \$55,500,00 \$22,000,00 1.00 6" to 10" Diameter Heavy Cleaning LF 1,000,00 \$51,80 \$55,500,00 \$53,85 \$53,850,00 1.11 24" to 21" Diameter Heavy Cleaning LF 1,000,00 \$51,00 \$55,800,00 \$52,805,800,00 \$55,800,80	1.02	12" to 16" Diameter Light Cleaning	LF	7,000.00	\$1.00	\$7,000.00	\$0.84	\$5,880.00	
Heavy Cleaning (4 to 10 Cleaning Passes) Image: Cleaning Cleaning Cleaning LF School (1)	1.03	18" to 21" Diameter Light Cleaning	LF	4,000.00	\$1.25	\$5,000.00	\$0.84	\$3,360.00	
1.00 6° to 10° Diameter Heavy Cleaning LF 5.000.00 \$1.10 \$5.500.00 \$2.05 \$1.02.00 1.10 12° to 16° Diameter Heavy Cleaning LF 1.750.00 \$1.80 \$3.150.00 \$2.65 \$4.287.50 1.11 18° to 21° Diameter Heavy Cleaning LF 1.000.00 \$5.00 \$5.000.00 \$5.85 \$5.850.00 1.12 24° to 27' Diameter Heavy Cleaning LF 50.000.00 \$1.28 \$5.000.00 \$5.80 \$5.000.00 \$5.000.	1.04	0 0	LF	2,000.00	\$2.00	\$4,000.00	\$1.30	\$2,600.00	
1.10 12° to 16° Diameter Heavy Cleaning IF 1,750.00 \$1,80 \$3,150.00 \$2,45 \$4,287.50 1.11 16° to 21° Diameter Heavy Cleaning IF 1,000.00 \$5,000.00 \$1,000.00 \$1,000.00 \$1,000.00 \$1,000.00 \$1,000.00 \$1,000.00 \$1,000.00 \$1,000.00 \$1,000.00 \$1,000.00 \$1,000.00 \$2,000.00		Heavy Cleaning (4 to 10 Cleaning Passes)							
1.11 18'to 21' Diameter Heavy Cleaning LF 1,000,00 \$5,00 \$5,000,00 \$5,88,00 \$5,88,00 1.12 24'to 27' Diameter Heavy Cleaning LF 500,00 \$12,0 \$6,000,00 \$5,20,00 \$5,88,00 1.17 6'to 10' Diameter CCTV Inspection LF 20,000,00 \$12,5 \$25,000,00 \$1,00 \$2,00,00 \$1,00 \$1,00 \$1,00 \$1,00 \$1,00 \$1,00 \$1,00 \$1,00 \$1,00 \$1,00 \$2,00,00 \$1,00 \$2,00,00 \$1,00 \$1,00 \$1,00 \$1,00 \$1,00 \$1,00 \$1,00 \$1,00 \$1,00 \$2,00,00 \$2,00,00 \$2,00,00 \$2,00,00 \$2,00,00 \$2,00,00 \$2,00,00 \$2,00,00 \$2,00,00 \$2,00,00 \$2,00,00 \$2,00,00 \$2,00,00 \$2,00,00	1.09	6" to 10" Diameter Heavy Cleaning	LF	5,000.00	\$1.10	\$5,500.00	\$2.05	\$10,250.00	
1.12 24" to 27" Diameter Heavy Cleaning LF 500.00 \$12.00 \$6,000.00 \$5.85 \$2,925.00 1.17 6" to 10" Diameter CCTV Inspection (PACP Compiliant) LF 20,000.00 \$1.25 \$52,000.00 \$1.00 \$50.00 \$1.00 \$2,000.00 1.18 12" to 16" Diameter CCTV Inspection LF 7,000.00 \$1.25 \$5,750.00 \$1.00 \$52.650.00 \$52.650.00 \$52.650.00 \$52.650.00 \$52.650.00 \$52.650.00 \$52.650.00 \$52.650.00 \$52.650.00 \$52.650.00 \$52.650.00 \$52.650.00 \$52.650.00 \$52.650.00 \$52.650.00 \$52.650.00 \$52.650.00 \$52.650.00 \$52.650.00 <	1.10	12" to 16" Diameter Heavy Cleaning	LF	1,750.00	\$1.80	\$3,150.00	\$2.45	\$4,287.50	
CCTV Inspection (PACP Compliant) LF 2000 S1.25 S25,000.00 S1.00 S20,000.00 1.17 6" to 10" Diameter CCTV Inspection LF 20,000.00 S1.25 S25,000.00 S1.00 S2.625.00	1.11	18" to 21" Diameter Heavy Cleaning	LF	1,000.00	\$5.00	\$5,000.00	\$5.85	\$5,850.00	
1.17 6° to 10° Diameter CCTV Inspection LF 20,000,00 \$1.25 \$25,000,00 \$1.00 \$20,000,00 1.18 12° to 16° Diameter CCTV Inspection LF 7,000,00 \$1.25 \$8,750,00 \$1.00 \$20,000,00 1.19 18° to 21° Diameter CCTV Inspection LF 4,000,00 \$1.25 \$5,000,00 \$1.00 \$2,000,00 1.20 24° to 27° Diameter CCTV Inspection LF 2,000,00 \$1.25 \$2,000,00 \$1.00 \$2,000,00 LATERAL SEWER LINE CLEANING AND CCTV INSPECTION Item Description Lini Quantity \$1,000,00 \$1,000,00 \$2,625,00	1.12	24" to 27" Diameter Heavy Cleaning	LF	500.00	\$12.00	\$6,000.00	\$5.85	\$2,925.00	
1.18 12' to 16' Diameter CCTV Inspection LF 7,000,00 \$1,25 \$8,750,00 \$1,00 \$7,000,00 1.19 18' to 21' Diameter CCTV Inspection LF 4,000,00 \$1,25 \$5,000,00 \$1,00 \$4,000,00 1.20 24' to 27' Diameter CCTV Inspection LF 2,000,00 \$1,00 \$1,00 \$2,000,00 ILETERAL SEVER LINE CLEANING AND CCTV INSPECTION ILETERAL SEVER LINE CLEANING AND CCTV INSPECTION 2000 Ref Work Order) LS 1,00 \$1,000,00 \$1,000,00 \$2,625,00 \$2,625,00 \$2,625,00 \$2,625,00 \$2,625,00 \$2,625,00 \$2,600,00		CCTV Inspection (PACP Compliant)							
1.19 18' to 21' Diameter CCTV Inspection LF 4,000.00 \$1.25 \$5,000.00 \$1.00 \$4,000.00 1.20 24' to 27' Diameter CCTV Inspection LF 2,000.00 \$1.25 \$5,000.00 \$1.00 \$2,000.00 LATERAL SEWER LINE CLEANING AND CCTV INSPECTON 1200 Easter Model LMI Quantity \$2,000.00 \$1.00 \$2,025.00 \$2,605.00 \$2,625.00 \$2,625.00 \$2,625.00 \$2,625.00 \$2,625.00 \$2,625.00 \$2,625.00 \$2,625.00 \$2,625.00 \$2,625.00 \$2,625.00 \$2,625.00 \$2,625.00 \$2,625.00 \$2,625.00 \$2,625.00 \$2,625.00 \$2,625.00 \$2,	1.17	6" to 10" Diameter CCTV Inspection	LF	20,000.00	\$1.25	\$25,000.00	\$1.00	\$20,000.00	
1.20 24" to 27" Diameter CCTV Inspection LF 2,000,00 \$1.25 \$2,500,00 \$1.00 \$2,000,00 LATERAL SEWER LINE CLEANING AND CCTV INSPECTION Item No. Item Description Unit Outnit/ S1,000,00 \$1,000,00 \$2,625,00	1.18	12" to 16" Diameter CCTV Inspection	LF	7,000.00	\$1.25	\$8,750.00	\$1.00	\$7,000.00	
LATERAL SEVER LINE CLEANING AND CCTV INSPECTION Unit Quantity Iem No. Item Description Unit Quantity 2.00 Mobilization for Lateral Sewer Line Cleaning and Inspection LS 1.00 \$1,000.00 \$1,000.00 \$2,625.00 \$2,625.00 2.01 Lateral Inspection Setup Per Manhole to Manhole Segment EA 50.00 \$200.00 \$10,000.00 \$50.00 \$26,000 2.02 4" to 6" Diameter Lateral Sewer Line Light Cleaning LF 1,000.00 \$3.00 \$3,000.00 \$650.00 \$15,750.00 2.04 4" to 6" Diameter Lateral Sewer Line CTV Inspection LF 1,000.00 \$3.00 \$3,000.00 \$650.00 \$9,200.00 2.05 Locate for Cleanout, via Lateral Launch Mainline Camera EA 10.00 \$3.00 \$2,200.00 \$9,200.00 4.00 Mobilization for Smoke Testing (Each Work Order) LS 1.00 \$2,100.00 \$2,325.00 \$2,325.00 \$2,325.00 6.01 8' to 12" Diameter Smoke Testing LF 2,500.00 \$0.46 \$1,150.00 \$0.49 \$1,250.00	1.19	18" to 21" Diameter CCTV Inspection	LF	4,000.00	\$1.25	\$5,000.00	\$1.00	\$4,000.00	
Item No. Item Description Unit Quantity 2.00 Mobilization for Lateral Sewer Line Cleaning and Inspection LS 1.00 \$1,000.00 \$1,000.00 \$2,625.00	1.20	24" to 27" Diameter CCTV Inspection	LF	2,000.00	\$1.25	\$2,500.00	\$1.00	\$2,000.00	
Item No. Item Description Unit Quantity 2.00 Mobilization for Lateral Sewer Line Cleaning and Inspection LS 1.00 \$1,000.00 \$1,000.00 \$2,625.00		LATERAL SEWER LINE CLEANING AND CCTV INSPECT	ON						
Nobilization for Lateral Sewer Line Cleaning and Inspection LS 1.00 \$1,000.00 \$1,000.00 \$2,025.00	Item No.			Quantity					
2.02 4" to 6" Diameter Lateral Sewer Line Light Cleaning LF 1,000.00 \$3.00 \$5.000.00 \$65.00 \$65.000.00 \$65.00 \$65.000.00 \$65.000		Mobilization for Lateral Sewer Line Cleaning and Inspection		1.00	\$1,000.00	\$1,000.00	\$2,625.00	\$2,625.00	
Note Note <th< td=""><td>2.01</td><td>Lateral Inspection Setup Per Manhole to Manhole Segment</td><td>EA</td><td>50.00</td><td>\$200.00</td><td>\$10,000.00</td><td>\$50.00</td><td>\$2,500.00</td></th<>	2.01	Lateral Inspection Setup Per Manhole to Manhole Segment	EA	50.00	\$200.00	\$10,000.00	\$50.00	\$2,500.00	
2.04 4" to 6" Diameter Lateral Sewer Line CCTV Inspection LF 1,000.00 \$3.00 \$3,000.00 \$65.00 \$65,000.00 \$92.00.00 \$	2.02	4" to 6" Diameter Lateral Sewer Line Light Cleaning	LF	1,000.00	\$3.00	\$3,000.00	\$65.00	\$65,000.00	
2.05 Locate for Cleanout, via Lateral Launch Mainline Camera EA 10.00 \$200.00 \$2,000.00 \$920.00 <	2.03	4" to 6" Diameter Lateral Sewer Line Heavy Cleaning	LF	150.00	\$85.00	\$12,750.00	\$105.00	\$15,750.00	
SMOKE TESTING Subset	2.04	4" to 6" Diameter Lateral Sewer Line CCTV Inspection	LF	1,000.00	\$3.00	\$3,000.00	\$65.00	\$65,000.00	
Item No. Item Description Unit Quantity 6.00 Mobilization for Smoke Testing (Each Work Order) LS 1.00 \$2,100.00 \$2,100.00 \$2,325.00 \$2,325.00 6.01 8" to 12" Diameter Smoke Testing LF 25,000.00 \$0.46 \$11,500.00 \$0.49 \$12,250.00 6.02 14" to 18" Diameter Smoke Testing LF 5,000.00 \$0.46 \$1,150.00 \$0.49 \$2,325.00 \$0.49 \$1,225.00 6.03 20" to 30" Diameter Smoke Testing LF 2,500.00 \$0.46 \$1,150.00 \$0.49 \$1,225.00 ILINING OF EXISTING SEWERS - CIPP Item No. Item Description Unit Quantity 8.00 Mobilization For MH to MH CIPP (Each Work Order) LS 1.00 \$8,000.00 \$9,015.00 \$9,015.00 8.01 0" Diameter (6 mm Liner Thickness) CIPP LF 2,000.00 \$28.25 \$56,500.00 \$29.90 \$59,800.00 8.03 10" Diameter (6 mm Liner Thickness) CIPP LF 2,000.00 \$28.25 \$56,500.00 \$29.90 </td <td>2.05</td> <td>Locate for Cleanout, via Lateral Launch Mainline Camera</td> <td>EA</td> <td>10.00</td> <td>\$200.00</td> <td>\$2,000.00</td> <td>\$920.00</td> <td>\$9,200.00</td>	2.05	Locate for Cleanout, via Lateral Launch Mainline Camera	EA	10.00	\$200.00	\$2,000.00	\$920.00	\$9,200.00	
Item No. Item Description Unit Quantity 6.00 Mobilization for Smoke Testing (Each Work Order) LS 1.00 \$2,100.00 \$2,100.00 \$2,325.00 \$2,325.00 6.01 8" to 12" Diameter Smoke Testing LF 25,000.00 \$0.46 \$11,500.00 \$0.49 \$12,250.00 6.02 14" to 18" Diameter Smoke Testing LF 5,000.00 \$0.46 \$1,150.00 \$0.49 \$2,325.00 \$0.49 \$1,225.00 6.03 20" to 30" Diameter Smoke Testing LF 2,500.00 \$0.46 \$1,150.00 \$0.49 \$1,225.00 ILINING OF EXISTING SEWERS - CIPP Item No. Item Description Unit Quantity 8.00 Mobilization For MH to MH CIPP (Each Work Order) LS 1.00 \$8,000.00 \$9,015.00 \$9,015.00 8.01 0" Diameter (6 mm Liner Thickness) CIPP LF 2,000.00 \$28.25 \$56,500.00 \$29.90 \$59,800.00 8.03 10" Diameter (6 mm Liner Thickness) CIPP LF 2,000.00 \$28.25 \$56,500.00 \$29.90 </td <td></td> <td>SMOKE TECTING</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		SMOKE TECTING							
6.00 Mobilization for Smoke Testing (Each Work Order) LS 1.00 \$2,100.00 \$2,100.00 \$2,325.00 \$2,325.00 6.01 8" to 12" Diameter Smoke Testing LF 25,000.00 \$0.46 \$11,500.00 \$0.49 \$12,250.00 6.02 14" to 18" Diameter Smoke Testing LF 5,000.00 \$0.46 \$2,300.00 \$0.49 \$2,450.00 6.03 20" to 30" Diameter Smoke Testing LF 2,500.00 \$0.46 \$1,150.00 \$0.49 \$1,225.00 6.03 20" to 30" Diameter Smoke Testing LF 2,500.00 \$0.46 \$1,150.00 \$0.49 \$1,225.00 8.00 Nobilization For MH to MH CIPP (Each Work Order) LS 1.00 \$8,000.00 \$8,000.00 \$9,015.00 \$9,015.00 8.01 8" Diameter (6 mm Liner Thickness) CIPP LF 2,000.00 \$28.25 \$183,750.00 \$22.990 \$59,800.00 8.03 10" Diameter (6 mm Liner Thickness) CIPP LF 2,000.00 \$28.25 \$56,500.00 \$29.90 \$59,800.00	Item No		Unit	Quantity					
Image: Constraint of the					\$2,100.00	\$2,100.00	\$2,325.00	\$2,325.00	
Image: Constraint of the	6.01	8" to 12" Diameter Smoke Testing	LF	25,000.00	\$0.46	\$11,500.00	\$0.49	\$12,250.00	
Item No. Item Description Unit Quantity 8.00 Mobilization For MH to MH CIPP (Each Work Order) LS 1.00 \$\$8,000.00 \$\$9,015.00 \$9,015.00	6.02	14" to 18" Diameter Smoke Testing	LF	5,000.00	\$0.46	\$2,300.00	\$0.49	\$2,450.00	
Item No. Item Description Quantity 8.00 Mobilization For MH to MH CIPP (Each Work Order) LS 1.00 \$8,000.00 \$8,000.00 \$9,015	6.03	20" to 30" Diameter Smoke Testing	LF	2,500.00	\$0.46	\$1,150.00	\$0.49	\$1,225.00	
Item No. Item Description Quantity 8.00 Mobilization For MH to MH CIPP (Each Work Order) LS 1.00 \$8,000.00 \$8,000.00 \$9,015									
8.00 Mobilization For MH to MH CIPP (Each Work Order) LS 1.00 \$8,000.00 \$8,000.00 \$9,015.00 \$9,015.00 8.01 8" Diameter (6 mm Liner Thickness) CIPP LF 7,000.00 \$26.25 \$183,750.00 \$25.25 \$176,750.00 8.03 10" Diameter (6 mm Liner Thickness) CIPP LF 2,000.00 \$28.25 \$56,500.00 \$29.90 \$59,800.00	Item No.		Unit	Quantity					
No. No. <td></td> <td></td> <td></td> <td></td> <td>\$8,000.00</td> <td>\$8,000.00</td> <td>\$9,015.00</td> <td>\$9,015.00</td>					\$8,000.00	\$8,000.00	\$9,015.00	\$9,015.00	
	8.01	8" Diameter (6 mm Liner Thickness) CIPP	LF	7,000.00	\$26.25	\$183,750.00	\$25.25	\$176,750.00	
8.05 12" Diameter (6 mm Liner Thickness) CIPP LF 1,000.00 \$38.25 \$38.250.00 \$35.50 \$35.50.00	8.03	10" Diameter (6 mm Liner Thickness) CIPP	LF	2,000.00	\$28.25	\$56,500.00	\$29.90	\$59,800.00	
	8.05	12" Diameter (6 mm Liner Thickness) CIPP	LF	1,000.00	\$38.25	\$38,250.00	\$35.50	\$35,500.00	

	CIPP POINT REPAIRS (5-FOOT LONG)						
Item No.	Item Description	<u>Unit</u>	Quantity				
9.00	Mobilization for CIPP Point Repair (Each Work Order)	LS	1.00	\$2,000.00	\$2,000.00	\$5,100.00	\$5,100.00
9.01	8" Diameter CIPP Point Repair	EA	10.00	\$1,600.00	\$16,000.00	\$3,565.00	\$35,650.00
9.02	10" Diameter CIPP Point Repair	EA	10.00	\$1,700.00	\$17,000.00	\$3,580.00	\$35,800.00
LINING	G OF EXISTING SEWERS - GLASS REINFORCED PLASTIC (GRP) CIP LIGHT)	P (CUREI	O WITH UV-				
Item No.	Item Description	Unit	Quantity				
11.00	Mobilization for GRP CIPP (Each Work Order)	LS	1.00	\$4,000.00	\$4,000.00	\$8,800.00	\$8,800.00
11.01	8" Diameter GRP CIPP	LF	1,000.00	\$40.00	\$40,000.00	\$55.00	\$55,000.00
11.02	10" Diameter GRP CIPP	LF	1,000.00	\$43.00	\$43,000.00	\$61.00	\$61,000.00
	TRENCHLESS LATERAL CONNECTION REPAIR (LCR)						
Item No.	Item Description	Unit	Quantity				
13.00	Mobilization for Trenchless LCR (Each Work Order)	LS	1.00	\$2,500.00	\$2,500.00	\$3,850.00	\$3,850.00
13.01	Trenchless LCR Setup Per Manhole to Manhole Segment	EA	30.00	\$500.00	\$15,000.00	\$660.00	\$19,800.00
13.02	Ambient Steam Cured LCR - 8" to 12" Diameter Main, 4" to 6" Diameter Lateral, Up to 18" Long	EA	50.00	\$1,375.00	\$68,750.00	\$1,775.00	\$88,750.00
13.05	UV Light Cured LCR - 8" to 12" Dia. Main, 4" to 6" Diameter Lateral, Up to 18" Long	EA	50.00	\$1,375.00	\$68,750.00	\$1,775.00	\$88,750.00
	MANHOLE FRAME AND COVER REPLACEMENT						
Item No.	Item Description	Unit	<u>Quantity</u>				
15.00	Mobilization for MH Frame and Cover Replacement (Each Work Order)	LS	1.00	\$675.00	\$675.00	\$1,650.00	\$1,650.00
15.01	Frame and Cover Under Arterial Street (Material)	EA	5.00	\$410.00	\$2,050.00	\$905.00	\$4,525.00
15.02	Frame and Cover Not Under Arterial Street (Material)	EA	15.00	\$340.00	\$5,100.00	\$305.00	\$4,575.00
15.03	Under Turf (Installation)	EA	10.00	\$775.00	\$7,750.00	\$880.00	\$8,800.00
15.04	Under Alleyway (Installation)	EA	5.00	\$875.00	\$4,375.00	\$1,100.00	\$5,500.00
15.05	Under Pavement (Installation)	EA	5.00	\$2,075.00	\$10,375.00	\$2,200.00	\$11,000.00
	CEMENTITIOUS & EPOXY MANHOLE RENOVATION AND PIPE	END SEA	LS				
Item No.	Item Description	<u>Unit</u>	<u>Quantity</u>				
16.00	Mobilization for Cementitious & Epoxy MH Renovation (Each Work Order)	LS	1.00	\$3,000.00	\$3,000.00	\$3,260.00	\$3,260.00
16.02	Cementitious H ₂ S Resistant (Fused Aluminate Clinker) Lining	SF	600.00	\$14.50	\$8,700.00	\$28.00	\$16,800.00
16.03	Cementitious Lining with Antimicrobial Additive	SF	1,200.00	\$16.00	\$19,200.00	\$23.20	\$27,840.00
16.05	Cementitious & Epoxy Lining	SF	600.00	\$33.00	\$19,800.00	\$55.60	\$33,360.00
	FLEXIBLE MANHOLE CHIMNEY SEALANT						
Item No.	Item Description	<u>Unit</u>	<u>Quantity</u>				
17.00	Mobilization for Flexible MH Chimney Sealant (Each Work Order)	LS	1.00	\$1,500.00	\$1,500.00	\$3,850.00	\$3,850.00
17.01	Chimney Sealant	SF	65.00	\$150.00	\$9,750.00	\$125.00	\$8,125.00
	MANHOLE RENOVATION USING CIPM						
Item No.	Item Description	Unit	Quantity	¢0.500.00	¢0.500.00	¢2.005.00	¢2.005.00
18.00	Mobilization for CIPM Renovation (Each Work Order) 4' Diameter CIPM (Up to 6' Deep)	LS	1.00	\$2,500.00	\$2,500.00	\$3,895.00	\$3,895.00
18.01 18.02	4' Diameter CIPM (Up to 6' Deep) 4' Diameter CIPM Extra Depth	EA VF	5.00	\$3,900.00	\$19,500.00	\$4,200.00	\$21,000.00
10.02		VF	15.00	00.00φ	\$9,750.00	φ/ 00.00	\$10,500.00
	MANHOLE GROUTING						
Item No.	Item Description	<u>Unit</u>	<u>Quantity</u>		_		
19.00	Mobilization for MH Grouting (Each Work Order)	LS	1.00	\$750.00	\$750.00	\$2,320.00	\$2,320.00
19.01	Setup Per Manhole	EA	15.00	\$100.00	\$1,500.00	\$10.00	\$150.00
19.02	Manhole Grouting Labor, Including Operators and Equipment	HR	60.00	\$260.00	\$15,600.00	\$275.00	\$16,500.00
19.03	Injectable Grout	GAL	1,000.00	\$12.00	\$12,000.00	\$12.00	\$12,000.00

	OPEN CUT SEWER LINE WORK 8" THROUGH 12" DIAME	TER					
Item No.	Item Description Mobilization for Open Cut Sewer Line Work 8" to 12" Diameter	<u>Unit</u>	<u>Quantity</u>				
20.00	(Each Work Order) Point Repair for 8" and 10" Diameter Existing Sewer	LS	1.00	\$675.00	\$675.00	\$1,650.00	\$1,650.00
20.01	8" and 10" Dia. Point Repair, 0'-6' Deep Under Turf, Up to 10' Long	EA	5.00	\$1,750.00	\$8,750.00	\$2,200.00	\$11,000.00
20.02	8" and 10" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Turf	LF	10.00	\$108.00	\$1,080.00	\$82.50	\$825.00
20.03	8" and 10" Dia. Point Repair, 6'-12' Deep Under Turf, Up to 10' Long	EA	5.00	\$2,000.00	\$10,000.00	\$2,475.00	\$12,375.00
20.04	8" and 10" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Turf	LF	10.00	\$120.00	\$1,200.00	\$110.00	\$1,100.00
20.05	8" and 10" Point Repair, 12'-18' Deep Under Turf, Up to 10' Long	EA	5.00	\$3,100.00	\$15,500.00	\$3,850.00	\$19,250.00
20.06	8" and 10" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Turf	LF	10.00	\$170.00	\$1,700.00	\$220.00	\$2,200.00
20.07	8" and 10" Dia. Point Repair, 0'-6' Deep Under Alleyway, Up to 10' Long	EA	10.00	\$2,615.00	\$26,150.00	\$2,475.00	\$24,750.00
20.08	8° and 10" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Alleyway	LF	50.00	\$140.00	\$7,000.00	\$110.00	\$5,500.00
20.09	8" and 10" Dia Point Repair, 6'-12' Deep Under Alleyway, Up to 10' Long	EA	10.00	\$3,075.00	\$30,750.00	\$2,750.00	\$27,500.00
20.10	8" and 10" Point Repair, Additional Footage (>10'), 6'-12' Deep Under Alleyway	LF	50.00	\$165.00	\$8,250.00	\$140.00	\$7,000.00
20.11	8" and 10" Dia. Point Repair, 12'-18' Deep Under Alleyway, Up to 10' Long	EA	10.00	\$4,050.00	\$40,500.00	\$4,400.00	\$44,000.00
20.12	8" and 10" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Allevway	LF	50.00	\$240.00	\$12,000.00	\$250.00	\$12,500.00
20.13	8" and 10" Dia. Point Repair, 0'-6' Deep Under Pavement, Up to 10' Long	EA	10.00	\$4,050.00	\$40,500.00	\$4,125.00	\$41,250.00
20.14	8" and 10" Dia. Point Repair, Additional Footage (>10'), 0'-6'	LF	50.00	\$240.00	\$12,000.00	\$250.00	\$12,500.00
20.15	Deep Under Pavement 8" and 10" Dia. Point Repair, 6'-12' Deep Under Pavement, Up	EA	10.00	\$4,400.00	\$44,000.00	\$4,675.00	\$46,750.00
20.16	to 10' Long 8" and 10" Dia. Point Repair, Additional Footage (>10'), 6'-12'	LF	50.00	\$250.00	\$12,500.00	\$275.00	\$13,750.00
20.17	Deep Under Pavement 8" and 10" Dia. Point Repair, 12'-18' Deep Under Pavement, Up	EA	10.00	\$5,700.00	\$57,000.00	\$6,875.00	\$68,750.00
20.18	to 10' Long 8" and 10" Dia. Point Repair, Additional Footage (>10'), 12'-18'	LF	50.00	\$375.00	\$18,750.00	\$385.00	\$19,250.00
	Deep Under Pavement Installation of New 8" and 10" Diameter Sewer Lin	ne			,		,
20.20	New 8" to 10" Dia. Sewer Main, 6'-12' Deep Under Turf (Max 350')	LF	250.00	\$82.75	\$20,687.50	\$110.00	\$27,500.00
20.23	New 8" to 10" Dia. Sewer Main, 6'-12' Deep Under Alleyway (Max 350')	LF	250.00	\$110.00	\$27,500.00	\$125.00	\$31,250.00
20.26	New 8" to 10" Dia. Sewer Main, 6'-12' Deep Under Pavement (Max 350')	LF	250.00	\$155.00	\$38,750.00	\$235.00	\$58,750.00
	Point Repair for 12" Diameter Existing Sewer Lin	е					
20.29	12" Dia. Point Repair, 0'-6' Deep Under Turf, Up to 10' Long 12" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep	EA	1.00	\$1,725.00	\$1,725.00	\$2,420.00	\$2,420.00
20.30	Under Turf	LF	5.00	\$112.00	\$560.00	\$95.00	\$475.00
20.31	12" Dia. Point Repair, 6'-12' Deep Under Turf, Up to 10' Long	EA	1.00	\$2,200.00	\$2,200.00	\$2,695.00	\$2,695.00
20.32	12" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Turf	LF	5.00	\$130.00	\$650.00	\$125.00	\$625.00
20.33	12" Dia. Point Repair, 12'-18' Deep Under Turf, Up to 10' Long	EA	1.00	\$3,300.00	\$3,300.00	\$4,070.00	\$4,070.00
20.34	12" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Turf	LF	5.00	\$190.00	\$950.00	\$235.00	\$1,175.00
20.35	12" Dia. Point Repair, 0'-6' Deep Under Alleyway, Up to 10' Long	EA	1.00	\$2,600.00	\$2,600.00	\$2,695.00	\$2,695.00
20.36	12" Ďia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Alleyway	LF	5.00	\$155.00	\$775.00	\$125.00	\$625.00
20.37	12" Dia. Point Repair, 6'-12' Deep Under Alleyway, Up to 10' Long	EA	1.00	\$2,900.00	\$2,900.00	\$2,970.00	\$2,970.00
20.38	12" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Alleyway	LF	5.00	\$170.00	\$850.00	\$150.00	\$750.00
20.39	12" Dia. Point Repair, 12'-18' Deep Under Alleyway, Up to 10' Long	EA	1.00	\$3,600.00	\$3,600.00	\$4,620.00	\$4,620.00
20.40	12" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Alleyway	LF	5.00	\$260.00	\$1,300.00	\$260.00	\$1,300.00
20.41	12" Dia. Point Repair, 0'-6' Deep Under Pavement, Up to 10' Long	EA	1.00	\$4,000.00	\$4,000.00	\$4,400.00	\$4,400.00
20.42	12" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Pavement	LF	5.00	\$250.00	\$1,250.00	\$260.00	\$1,300.00
20.43	12" Dia. Point Repair, 6'-12' Deep Under Pavement, Up to 10'	EA	1.00	\$4,400.00	\$4,400.00	\$4,950.00	\$4,950.00
20.44	Long 12" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep	LF	5.00	\$285.00	\$1,425.00	\$290.00	\$1,450.00
20.45	Under Pavement 12" Dia. Point Repair, 12'-18' Deep Under Pavement, Up to 10'	EA	1.00	\$6,200.00	\$6,200.00	\$7,150.00	\$7,150.00
20.46	Long 12" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep	LF	5.00	\$405.00	\$2,025.00	\$400.00	\$2,000.00
20.40	Under Pavement	-	5.00	φ+05.00	ψ2,023.00	φ+00.00	ΨΖ,000.00

m No.	OPEN CUT SEWER LINE WORK 15" THROUGH 18" DIAME Item Description	Unit	Quantity				
1.00	Mobilization for Open Cut Sewer Line Work 15" to 18" Diameter	LS	1.00	\$675.00	\$675.00	\$1,650.00	\$1,650.00
	(Each Work Order) Point Repair for 15" Diameter Existing Sewer Lin						+ .,
1.01	15" Dia. Point Repair, 0'-6' Deep Under Turf, Up to 10' Long	EA	1.00	\$2,000.00	\$2,000.00	\$2,750.00	\$2,750.00
1.02	15" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Turf	LF	5.00	\$125.00	\$625.00	\$125.00	\$625.00
1.03	15" Dia. Point Repair, 6'-12' Deep Under Turf, Up to 10' Long	EA	1.00	\$2,200.00	\$2,200.00	\$3,025.00	\$3,025.00
1.04	15" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Turf	LF	5.00	\$140.00	\$700.00	\$150.00	\$750.0
1.05	15" Dia. Point Repair, 12'-18' Deep Under Turf, Up to 10' Long	EA	1.00	\$2,850.00	\$2,850.00	\$4,400.00	\$4,400.0
.06	15" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Turf	LF	5.00	\$195.00	\$975.00	\$260.00	\$1,300.0
1.07	15" Dia. Point Repair, 0'-6' Deep Under Alleyway, Up to 10'	EA	1.00	\$2,625.00	\$2,625.00	\$3,025.00	\$3,025.0
.08	15" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Alleyway	LF	5.00	\$130.00	\$650.00	\$150.00	\$750.0
.09	15" Dia. Point Repair, 6'-12' Deep Under Alleyway, Up to 10'	EA	1.00	\$2,875.00	\$2,875.00	\$3,300.00	\$3,300.0
.10	15" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Alleyway	LF	5.00	\$185.00	\$925.00	\$176.00	\$880.0
.11	15" Dia. Point Repair, 12'-18' Deep Under Alleyway, Up to 10' Long	EA	1.00	\$3,750.00	\$3,750.00	\$4,950.00	\$4,950.0
1.12	15" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Alleyway	LF	5.00	\$250.00	\$1,250.00	\$290.00	\$1,450.0
1.13	15" Dia. Point Repair, 0'-6' Deep Under Pavement, Up to 10'	EA	1.00	\$3,550.00	\$3,550.00	\$4,730.00	\$4,730.0
1.14	Long 15" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep	LF	5.00	\$360.00	\$1,800.00	\$290.00	\$1,450.0
.15	Under Pavement 15" Dia. Point Repair, 6'-12' Deep Under Pavement, Up to 10'	EA	1.00	\$3,650.00	\$3,650.00	\$5,280.00	\$5,280.0
.16	Long 15" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep	LF	5.00	\$365.00	\$1,825.00	\$315.00	\$1,575.0
.17	Under Pavement 15" Dia. Point Repair, 12'-18' Deep Under Pavement, Up to 10'	EA	1.00	\$6,300.00	\$6,300.00	\$7,480.00	\$7,480.0
1.18	Long 15" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep	LF	5.00	\$355.00	\$1,775.00	\$425.00	\$2,125.0
	Under Pavement Point Repair for 18" Diameter Existing Sewer Lin		0.00		¢1,110.00	¢ 120.00	Ψ <u>2</u> , 120.0
1.29	18" Dia. Point Repair, 0'-6' Deep Under Turf, Up to 10' Long	EA	1.00	\$2,600.00	\$2,600.00	\$3,300.00	\$3,300.0
.30	18" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Turf	LF	5.00	\$155.00	\$775.00	\$180.00	\$900.0
.31	18" Dia. Point Repair, 6'-12' Deep Under Turf, Up to 10' Long	EA	1.00	\$2,600.00	\$2,600.00	\$3,575.00	\$3,575.0
.32	18" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Turf	LF	5.00	\$180.00	\$900.00	\$215.00	\$1,075.0
.33	18" Dia. Point Repair, 12'-18' Deep Under Turf, Up to 10' Long	EA	1.00	\$3,150.00	\$3,150.00	\$4,950.00	\$4,950.0
.34	18" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Turf	LF	5.00	\$235.00	\$1,175.00	\$315.00	\$1,575.0
.35	18" Dia. Point Repair, 0'-6' Deep Under Alleyway, Up to 10'	EA	1.00	\$2,625.00	\$2,625.00	\$3,575.00	\$3,575.0
.36	18" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Allevway	LF	5.00	\$185.00	\$925.00	\$205.00	\$1,025.0
.37	18" Dia. Point Repair, 6'-12' Deep Under Alleyway, Up to 10'	EA	1.00	\$2,835.00	\$2,835.00	\$3,850.00	\$3,850.0
.38	18" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Alleyway	LF	5.00	\$210.00	\$1,050.00	\$235.00	\$1,175.0
.39	18" Dia. Point Repair, 12'-18' Deep Under Alleyway, Up to 10'	EA	1.00	\$4,300.00	\$4,300.00	\$5,500.00	\$5,500.0
.40	18" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep	LF	5.00	\$295.00	\$1,475.00	\$345.00	\$1,725.0
.41	Under Alleyway 18" Dia. Point Repair, 0'-6' Deep Under Pavement, Up to 10'	EA	1.00	\$4,300.00	\$4,300.00	\$5,280.00	\$5,280.0
.42	Long 18" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep	LF	5.00	\$300.00	\$1,500.00	\$345.00	\$1,725.0
.43	Under Pavement 18" Dia. Point Repair, 6'-12' Deep Under Pavement, Up to 10'	EA	1.00	\$4,725.00	\$4,725.00	\$5,830.00	\$5,830.0
.44	Long 18" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep	LF	5.00	\$325.00	\$1,625.00	\$370.00	\$1,850.0
.45	Under Pavement 18" Dia. Point Repair, 12'-18' Deep Under Pavement, Up to 10'	EA	1.00	\$5,400.00	\$5,400.00	\$8,030.00	\$8,030.0
	Long		1.00	ψ0,-+00.00	ψ0,-00.00	ψ0,000.00	ψ0,000.0

Item No.	OPEN CUT LATERAL SEWER LINE WORK <u>Item Description</u>	Unit	Quantity				
22.00	Mobilization for Open Cut Lateral Sewer Line Work (Each Work Order)	LS	1.00	\$675.00	\$675.00	\$1,650.00	\$1,650.00
	Connection Repair (4" and 6" Dia.) on an 8" to 10" Diameter	r Sewei	· Main				
22.01	Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 0'-6' Deep Under Turf	EA	20.00	\$2,275.00	\$45,500.00	\$1,980.00	\$39,600.00
22.02	Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 6'-12' Deep Under Turf	EA	20.00	\$2,575.00	\$51,500.00	\$2,750.00	\$55,000.00
22.03	Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 12'-18' Deep Under Turf	EA	20.00	\$3,625.00	\$72,500.00	\$4,400.00	\$88,000.00
22.04	Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 0'-6' Deep Under Alleyway	EA	20.00	\$2,700.00	\$54,000.00	\$2,200.00	\$44,000.00
22.05	Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 6'-12' Deep Under Alleyway	EA	20.00	\$3,200.00	\$64,000.00	\$2,970.00	\$59,400.00
22.06	Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 12'-18'	EA	20.00	\$4,100.00	\$82,000.00	\$4,620.00	\$92,400.00
22.07	Deep Under Alleyway Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 0'-6'	EA	20.00	\$4,700.00	\$94,000.00	\$3,630.00	\$72,600.00
22.08	Deep Under Pavement Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 6'-12'	EA	20.00	\$5,175.00	\$103,500.00	\$4,400.00	\$88,000.00
22.09	Deep Under Pavement Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 12'-18'	EA	20.00	\$5,950.00	\$119,000.00	\$6,600.00	\$132,000.00
22.00	Deep Under Pavement Open Cut Lateral Connection Repair 8" to 10" Dia. Main	27.	20.00	\$0,000.00	<i><i><i></i></i></i>	\$0,000.00	<i>Q</i> 102,000.00
22.10	Completed During an Open Cut Point Repair or Simultaneous Open Cut Lateral Connection Repair	EA	5.00	\$675.00	\$3,375.00	\$1,100.00	\$5,500.00
	4" Diameter Sewer Lateral Line						
22.41	4" Dia. Sewer Lateral, 0'-6' Deep Under Turf	LF	150.00	\$46.50	\$6,975.00	\$44.00	\$6,600.00
22.42	4" Dia. Sewer Lateral, 6'-12' Deep Under Turf	LF	150.00	\$57.00	\$8,550.00	\$55.00	\$8,250.00
22.43	4" Dia. Sewer Lateral, 12'-18' Deep Under Turf	LF	150.00	\$73.00	\$10,950.00	\$85.00	\$12,750.00
22.44	4" Dia. Sewer Lateral, 0'-6' Deep Under Alleyway	LF	150.00	\$67.50	\$10,125.00	\$66.00	\$9,900.00
22.45	4" Dia. Sewer Lateral, 6'-12' Deep Under Alleyway	LF	150.00	\$93.00	\$13,950.00	\$77.00	\$11,550.00
22.46	4" Dia. Sewer Lateral, 12'-18' Deep Under Alleyway	LF	150.00	\$124.00	\$18,600.00	\$105.00	\$15,750.00
22.47	4" Dia. Sewer Lateral, 0'-6' Deep Under Pavement	LF	150.00	\$103.00	\$15,450.00	\$110.00	\$16,500.00
22.48	4" Dia. Sewer Lateral, 6'-12' Deep Under Pavement	LF	150.00	\$114.00	\$17,100.00	\$125.00	\$18,750.00
22.49	4" Dia. Sewer Lateral, 12'-18' Deep Under Pavement	LF	150.00	\$145.00	\$21,750.00	\$165.00	\$24,750.00
	6" Diameter Sewer Lateral Line						
22.50	6" Dia. Sewer Lateral, 0'-6' Deep Under Turf	LF	25.00	\$48.50	\$1,212.50	\$55.00	\$1,375.00
22.51	6" Dia. Sewer Lateral, 6'-12' Deep Under Turf	LF	25.00	\$59.00	\$1,475.00	\$65.00	\$1,625.00
22.52	6" Dia. Sewer Lateral, 12'-18' Deep Under Turf	LF	25.00	\$77.75	\$1,943.75	\$95.00	\$2,375.00
22.53	6" Dia. Sewer Lateral, 0'-6' Deep Under Alleyway	LF	25.00	\$62.00	\$1,550.00	\$77.00	\$1,925.00
22.54	6" Dia. Sewer Lateral, 6'-12' Deep Under Alleyway	LF	25.00	\$72.50	\$1,812.50	\$88.00	\$2,200.00
22.55	6" Dia. Sewer Lateral, 12'-18' Deep Under Alleyway	LF	25.00	\$99.00	\$2,475.00	\$115.00	\$2,875.00
22.56	6" Dia. Sewer Lateral, 0'-6' Deep Under Pavement	LF	25.00	\$116.00	\$2,900.00	\$125.00	\$3,125.00
22.57	6" Dia. Sewer Lateral, 6'-12' Deep Under Pavement	LF	25.00	\$119.00	\$2,975.00	\$132.00	\$3,300.00
22.58	6" Dia. Sewer Lateral, 12'-18' Deep Under Pavement	LF	25.00	\$145.00	\$3,625.00	\$176.00	\$4,400.00
	Service Lateral Line Cleanout						
22.59	Cleanout, 0'-6' Deep Under Turf	EA	5.00	\$1,300.00	\$6,500.00	\$1,650.00	\$8,250.00
22.61	Cleanout, 0'-6' Deep Under Crushed Stone	EA	5.00	\$1,800.00	\$9,000.00	\$2,200.00	\$11,000.00
22.63	Cleanout, 0'-6' Deep Under Pavement	EA	5.00	\$2,800.00	\$14,000.00	\$3,300.00	\$16,500.00
	INSTALLATION OF NEW MANHOLES						
tem No.	Item Description	<u>Unit</u>	<u>Quantity</u>				
23.00	Mobilization for Installation of New Manholes (Each Work Order)	LS	1.00	\$675.00	\$675.00	\$2,200.00	\$2,200.00
23.03	4' Dia. Manhole Under Turf, Up to 8' Deep	EA	5.00	\$4,400.00	\$22,000.00	\$5,500.00	\$27,500.00
	4' Dia. Manhole Under Alleyway, Up to 8' Deep						
23.04		EA	5.00	\$5,000.00	\$25,000.00	\$5,775.00	\$28,875.00
23.05	4' Dia. Manhole Under Pavement, Up to 8' Deep	EA	5.00	\$6,000.00	\$30,000.00	\$7,150.00	\$35,750.00
23.06	4' Dia. Manhole Extra Depth, > 8' Deep	FT	20.00	\$195.00	\$3,900.00	\$550.00	\$11,000.00

	MISCELLANEOUS OPEN CUT SERVICES AND ITEM	-					
Hourly F tem No.	Rates (A minimum 4-hour charge shall be applied to all hour <u>Item Description</u> Miscellaneous Items	ly service Unit	es to account Quantity				
24.08	Sewer Line Trench Plug	EA	5.00	\$1,200.00	\$6,000.00	\$2,200.00	\$11,000.00
24.09	Additional Crushed Stone Backfill	TON	200.00	\$17.00	\$3,400.00	\$44.00	\$8,800.00
24.11	Additional Concrete Pavement Replacement, 10" Thick	SF	200.00	\$11.50	\$2,300.00	\$15.00	\$3,000.00
24.12	Additional Curb and Gutter Replacement	LF	100.00	\$31.50	\$3,150.00	\$110.00	\$11,000.00
24.13	Disposal of Lead Contaminated Soil	CY	200.00	\$5.00	\$1,000.00	\$27.50	\$5,500.00
	TRAFFIC CONTROL						
tem No.	Item Description	<u>Unit</u>	Quantity				
28.00	Local Street Closure	EA	2.00	\$775.00	\$1,550.00	\$825.00	\$1,650.00
28.01	Short Duration Traffic Control for Collector or Arterial	EA	2.00	\$840.00	\$1,680.00	\$880.00	\$1,760.00
	Short-Term Stationary Traffic Control For Collector	or Arteria	1				
28.02	Outside Lane Closure (1-day)	EA	1.00	\$1,250.00	\$1,250.00	\$1,320.00	\$1,320.00
	Intermediate-Term Stationary Traffic Control For Collect	tor or Art	erial				
28.08	Inside Lane Closure (Up to 3-days)	EA	1.00	\$1,250.00	\$1,250.00	\$1,320.00	\$1,320.00
28.10	Center Turn Lane Closure (Up to 3-days)	EA	1.00	\$2,100.00	\$2,100.00	\$2,200.00	\$2,200.00
28.12	Two-Lane Closure (Up to 3-days)	EA	1.00	\$2,100.00	\$2,100.00	\$2,200.00	\$2,200.00
	CONCEPTUAL WOF PERFORMANCE AND PAYMENT BOND (PER			1.0	\$2,395,086.25 \$23,950.86	1.5	\$2,805,997.50 \$42,089.96
	TOTAL CONCEPTUAL W		ER AMOUNT		\$2,419,037.11	-	\$2,848,087.46

This is to certify that at 11:00 am on January 13, 2021 in the 4th Floor Conference Room of the office of the City of Joplin, MO., the bids were publicly opened, read aloud, checked, and the above totals are correct as to the additions and the bids were accompanied by acceptable bidder's bonds.

Ilm Br By_ John Briggs, P.E.