

October 2, 2020

Mr. Anthony Talluto Project Manager City of League City 300 W. Walker St. League City, Texas 77573

Re: Letter of Recommendation for Glen Cove 14" Force Main Replacement on FM 2094

Project (WW 1801C) Bid No. ITB 20-CIP-023ARKK Job No. 19-021

Dear Mr. Talluto:

On September 23, 2020, the City of League City received nine (9) bids for the above referenced project. The project includes the replacement of approximately 3,500 L.F. of an existing 14-inch diameter sanitary sewer force main serving the Glen Cove subdivision. The replacement limits are along FM 2094 (TxDOT Right-of-Way) from a point approximately 350 feet west of Cypress Bay Blvd to the receiving sanitary sewer manhole at South Shore Blvd. Attached is the bid tabulation prepared by ARKK Engineers, LLC. Our review of the bid tabulation confirms that **Underground Construction Solutions, LLC** is the low bidder after considering the number of calendar days in the A+B bidding formula.

The bids were checked for mathematical errors and/or bid irregularities. A copy of the bid tabulation is attached. Please note that our evaluation of the bids does not include an evaluation of the other bid documents (insurance, financial statements, bid bonds, etc.).

The low bidder, Underground Construction Solutions, LLC, provided a list of qualifications and references for this project. ARKK Engineers contacted some of the references provided for similar projects that are completed or currently on-going. They are currently finishing up a 12" water line project along Sam Houston Avenue (TxDOT Right-of-Way) for the City of Huntsville. The feedback received from the references was positive, and they all indicated they would work with Underground Construction Solutions again in the future. Overall, the contacted references provided positive responses regarding Underground Construction Solutions' personnel, job performance, and their ability to successfully complete projects on time.

The difference between the low bid and the second bid is about \$175,000. ARKK Engineers and City staff met with the owner of Underground Construction Solutions to discuss the project and the City's expectations. Underground Construction Solutions indicated they have the personnel and experience to successfully complete the work on time. Due to the competitive bidding market in the area, timing of the bid, and availability of manpower and personnel, Underground Construction Solutions was able to lower their bid unit prices and provide a very competitive bid to the City. They also indicated that they stand by their bid and are excited to work for the City of League City.

Underground Construction Solutions, LLC appears to be a responsible firm that is capable of performing the specified work in a satisfactory manner. For these reasons, we recommend that the City of League City award the Glen Cove 14" Force Main Replacement Project (WW 1801C) to Underground Construction Solutions, LLC for a total of \$652,595.00.

If you have any questions, please contact me.

Sincerely,

ARKK ENGINEERS, LLC

Madhu Kilambi, P.E.

Senior Project Manager/Principal

Cc: Mr. Jody Hooks – City of League City

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Glen Cove 14" Force Main Replacement Project (WW 1801C) Bid No. ITB 20-CIP-023

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ITEM DESCRIPTION UNIT QUAN.		Preferred Industrial													
NO.				TCH Directional Drilling		Underground Cor	nstruction Solutions	Nerie Co	nstruction	A	R Turnkee	Aranda Industries			
BASE BID ITEMS:											Ì				
	LS	1	\$ 25,000.00 \$	25,000.00	\$ 16,500.00 \$	16,500.00	\$ 20,000.00 \$	20,000.00	\$ 26,000.00 \$	26,000.00	\$ 65,000.00	\$ 65,000.00	\$ 125,000.00	\$ 125,000.00	
	CA	1	\$ 50,000.00 \$	50,000.00	\$ 50,000.00 \$	50,000.00	\$ 50,000.00 \$	50,000.00	\$ 50,000.00 \$	50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	
3 Project Identification Sign, Complete in Place, the Sum of:	EA	2	\$ 2,000.00 \$	4.000.00	\$ 1,000.00 \$	2.000.00	\$ 850.00 \$	1,700.00	\$ 1,500.00 \$	3.000.00	\$ 1,100.00	\$ 2,200.00	\$ 1,500.00	\$ 3,000.00	
.j	LS	1	\$ 16,500.00 \$		\$ 12,500.00 \$	12,500.00	\$ 15,000.00 \$	15,000.00	\$ 50,000.00 \$						
8 / 1 /	LF	300	\$ 3.00 \$	900.00	\$ 10.00 \$	3,000.00	\$ 10.00 \$	3,000.00	\$ 10.00 \$	3,000.00	\$ 2.00	\$ 600.00	\$ 3.00	\$ 900.00	
6 Install Root Pruning Trench, Complete in Place, the Sum of:	LF	300	\$ 9.00 \$	2,700.00	\$ 4.00 \$	1,200.00	\$ 10.00 \$	3,000.00	\$ 10.00 \$	3,000.00	\$ 10.00	\$ 3,000.00	\$ 1.00	\$ 300.00	
7 Clearance Prune Tree, Complete in Place, the Sum of:	EA	50	\$ 275.00 \$	13,750.00	\$ 55.00 \$	2,750.00	\$ 100.00 \$	5,000.00	\$ 250.00 \$	12,500.00	\$ 150.00	\$ 7,500.00	\$ 10.00	\$ 500.00	
8 Inlet Protection Barrier (All-Types), Complete in Place, the Sum of:	EA	20	\$ 175.00 \$	3,500.00	\$ 80.00 \$	1,600.00	\$ 50.00 \$	1,000.00	\$ 250.00 \$	5,000.00	\$ 50.00	\$ 1,000.00	\$ 10.00	\$ 200.00	
9 Filter Fabric Fence, Complete in Place, the Sum of:	LF	300	\$ 2.25 \$	675.00	\$ 3.10 \$	930.00	\$ 3.00 \$	900.00	\$ 7.00 \$	2,100.00	\$ 250.00	\$ 75,000.00	\$ 1.00	\$ 300.00	
10 14" PVC C-900 Sanitary Sewer Force Main (Green Color), Open Cut or Trenchless Construction, Complete in Place, the Sum of:	LF	2,050	\$ 150.00 \$	307,500.00	\$ 102.50 \$	210,125.00	\$ 85.00 \$	174,250.00	\$ 115.00 \$	235,750.00	\$ 89.50	\$ 183,475.00	\$ 110.00	\$ 225,500.00	
11 14" Fusible PVC C-900 Sanitary Sewer Force Main (Green Color), Mandatory Trenchless Construction, Complete in Place, the Sum of:	LF	930	\$ 240.00 \$	223,200.00	\$ 145.00 \$	134,850.00	\$ 105.00 \$	97,650.00	\$ 125.00 \$	116,250.00	\$ 185.00	\$ 172,050.00	\$ 110.00	\$ 102,300.00	
12 14" Fusible PVC C-900 Sanitary Sewer Force Main (Green Color), Mandatory HDD Construction, Complete in Place, the Sum of:	LF	325	\$ 275.00 \$	89,375.00	\$ 165.00 \$	53,625.00	\$ 105.00 \$	34,125.00	\$ 125.00 \$	40,625.00	\$ 205.00	\$ 66,625.00	\$ 112.00	\$ 36,400.00	
13 14" PVC C-900 Sanitary Sewer Force Main (Green Color) in 24" Steel Casing including Casing Spacers and End Seals, Mandatory Trenchless Construction, Complete in Place, the Sum of:	LF	100	\$ 305.00 \$	30,500.00	\$ 493.00 \$	49,300.00	\$ 210.00 \$	21,000.00	\$ 450.00 \$	45,000.00	\$ 375.00	\$ 37,500.00	\$ 301.00	\$ 30,100.00	
14" Ductile Iron (AWWA C-151) Mechanical Joint Sanitary Sewer Force Main, Attach to Existing Channel	LF	120	\$ 290.00 \$	34,800.00	\$ 368.00 \$	44,160.00	\$ 210.00 \$	5 25,200.00	\$ 400.00 \$	48,000.00	\$ 350.00	\$ 42,000.00	\$ 440.00	\$ 52,800.00	
Crossing Pier Caps, Complete in Place, the Sum of: Remove and Replace 5' Dia. Concrete Manhole (including SpectraShield Liner), Complete in Place, the Sum of:	EA	1	\$ 8,500.00 \$	8,500.00	\$ 50,535.00 \$	50,535.00	\$ 13,000.00 \$	3,000.00	\$ 15,000.00 \$	15,000.00	\$ 10,000.00	\$ 10,000.00	\$ 23,920.00	\$ 23,920.00	
16 Connect to Existing 14" Force Main, including Plugs and Couplings, Complete in Place, the Sum of:	EA	1	\$ 3.500.00 \$	3.500.00	\$ 6,090.00 \$	6.090.00	\$ 2,500.00 \$	2.500.00	\$ 5.000.00 \$	5.000.00	\$ 4.000.00	\$ 4.000.00	\$ 4,940.00	\$ 4.940.00	
	LS	1	\$ 25,000.00 \$	25,000.00	\$ 35,785.00 \$	35,785.00	\$ 30,000.00 \$	30.000.00	\$ 25,000.00 \$	25,000.00	\$ 21,000.00	\$ 21,000.00	\$ 75,000.00	\$ 75,000.00	
	EA	2	\$ 4,000.00 \$		\$ 7,660.00 \$	15,320.00	\$ 10,000.00 \$	30,000.00	\$ 15,000.00 \$		<u> </u>		\$ 7,384.00	\$ 14,768.00	
, 1	EA	1	\$ 3,200.00 \$,	\$ 6,775.00 \$	6,775.00	\$ 6,000.00 \$	6,000.00	\$ 3,500.00 \$				\$ 7,670.00		
8 4 84, 4 1		3,400	\$ 9.50 \$	32,300.00	\$ 18.75 \$	63,750.00	\$ 15.00 \$	51,000.00	\$ 34.00 \$						
21 Remove and Dispose of Existing 14" Force Main Aerial Crossing Piping, including Plugs, Conplete in Place the Sum of:	LF	120	\$ 25.00 \$		\$ 85.00 \$	10,200.00	\$ 50.00 \$	·	\$ 25.00 \$	· · · · · · · · · · · · · · · · · · ·	\$ 50.00	·			
22 Trench Safety System for Sanitary Sewer Force Main Open Cut Construction, Depths Greater than 5', Complete in Place, the Sum of:	LF	2,170	\$ 3.00 \$	6,510.00	\$ 0.10 \$	217.00	\$ 1.00 \$	2,170.00	\$ 8.00 \$	17,360.00	\$ 10.00	\$ 21,700.00	\$ 0.01	\$ 21.70	
23 Concrete Pavement Repair (10" CRCP) per TxDOT Standard Details, Complete in Place, the Sum of:	SY	20	\$ 105.00 \$	2,100.00	\$ 225.00 \$	4,500.00	\$ 250.00 \$	5,000.00	\$ 125.00 \$	2,500.00	\$ 145.00	\$ 2,900.00	\$ 120.00	\$ 2,400.00	
Critical Investigation Work, including locating existing force main as needed to facilitate the proposed force main installation, Complete in Place, the Sum of:	LS	1	\$ 17,500.00 \$	17,500.00	\$ 16,625.00 \$	16,625.00	\$ 5,000.00 \$	5,000.00	\$ 10,000.00 \$	10,000.00	\$ 7,000.00	\$ 7,000.00	\$ 4,500.00	\$ 4,500.00	
25 Site Restoration, including Sidewalk Repair, Complete in Place, the Sum of:	LF	3,510	\$ 7.00 \$	24,570.00	\$ 3.00 \$	10,530.00	\$ 10.00 \$	35,100.00	\$ 10.00 \$	35,100.00	\$ 10.00	\$ 35,100.00	\$ 10.00	\$ 35,100.00	
TOTAL BASE BID ITEMS:			\$	936,580.00	\$	802,867.00	\$	627,595.00	\$	902,285.00		\$ 921,250.00		\$ 904,219.70	
SUPPLEMENTAL ITEMS															
Sayar , Prayar P		500	\$ 20.00 \$	10,000.00	\$ 20.00 \$	10,000.00	\$ 20.00 \$	10,000.00	\$ 20.00 \$	10,000.00	\$ 20.00	\$ 10,000.00	\$ 20.00	\$ 10,000.00	
8,		500	\$ 5.00 \$	2,500.00	\$ 5.00 \$	2,500.00	\$ 5.00 \$	2,500.00	\$ 5.00 \$	2,500.00	\$ 5.00		\$ 5.00		
,	CY	200	\$ 35.00 \$	7,000.00	\$ 35.00 \$	7,000.00	\$ 35.00 \$	7,000.00	\$ 35.00 \$	7,000.00	\$ 35.00		\$ 35.00		
29 Extra Bank Sand Backfill, Complete in Place, the Sum of:	CY	200	\$ 15.00 \$	3,000.00	\$ 15.00 \$	3,000.00	\$ 15.00 \$	3,000.00	\$ 15.00 \$	3,000.00	\$ 15.00	\$ 3,000.00	\$ 15.00	\$ 3,000.00	
30 Brace, Support, and Protect Utility Structures as Required by Owner, Complete in Place, the Sum of:	EA	5	\$ 500.00 \$	<u> </u>	\$ 500.00 \$	2,500.00	\$ 500.00 \$	2,500.00	\$ 500.00 \$	2,500.00		,	·	\$ 2,500.00	
TOTAL SUPPLEMENTAL BID ITEMS:			\$	25,000.00	\$	25,000.00	\$	25,000.00	\$	25,000.00	l	\$ 25,000.00		\$ 25,000.00	
TOTAL AMOUNT BID:			\$	961,580.00	\$	827,867.00	\$	652,595.00	\$	927,285.00		\$ 946,250.00		\$ 929,219.70	
TOTAL CALENDAR DAYS BID:				90		150		160		165		165		230	
VALUE OF CALENDAR DAY:				-	\$	240.00	\$		\$			\$ 240.00		\$ 240.00	
DIFFERENCE IN DAYS COMPARED TO LOWEST DAYS BID (90):					·	60		70	Ì	75		75	ĺ	140	
A+B TO BE ADDED TO BASE BID:			\$	-	\$	14,400.00	\$		\$,		\$ 18,000.00		\$ 33,600.00	
GRAND TOTAL: MATHEMATICAL ERROR CORRECTED BY ENGINEER				961,580.00	\$	842,267.00	\$	669,395.00	\$	945,285.00		\$ 964,250.00		\$ 962,819.70	

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Glen Cove 14" Force Main Replacement Project (WW 1801C) Bid No. ITB 20-CIP-023

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ITEM ITEM DESCRIPTION		UNIT QUAN.												FNONEEDIO FOTUATE					
NO.					Lopez Utilities Contractor				G&A Boring			Horseshoe Construction				ENGINEER'S ESTIMATE			
BASE BID ITEMS:											i								
1	Mobilization, Complete in Place, the Sum of:	LS	1	\$ 4	45,000.00	\$	45,000.00	\$	10,000.00	\$ 10,000.00	\$	75,000.00	\$	75,000.00	\$	35,000.00	\$	35,000.00	
2	Miscellaneous Allowance as approved by the City (Fixed Amount of \$50,000), Complete in Place, the Sum of:	CA	1		50,000.00	\$	50,000.00		50,000.00		\$	50,000.00		,			\$	50,000.00	
3	Project Identification Sign, Complete in Place, the Sum of:	EA	2	\$	900.00	\$	1,800.00	\$	1,500.00	\$ 3,000.00	\$	800.00	\$	1,600.00	\$	1,500.00	\$	3,000.00	
4	Traffic Control and Regulation, Complete in Place, the Sum of:	LS	1	\$ 3	26,000.00	\$	26,000.00		30,000.00	· · · · · · · · · · · · · · · · · · ·	\$	40,000.00		40,000.00		20,000.00	\$	20,000.00	
- 5	Install Tree Protection Fence, Complete in Place, the Sum of:	LF	300	Φ 2	15.00	Ψ	4,500.00	Φ		\$ 4,500.00	Φ	10.00	· ·	3,000.00	Ψ	5.00	Φ	1,500.00	
6	Install Root Pruning Trench, Complete in Place, the Sum of:	LF	300	Φ	20.00	φ	6,000.00	Φ		\$ 6,000.00	\$	25.00	-	7,500.00	φ	15.00	Φ	4,500.00	
7			50	Φ	250.00	Φ	12,500.00	Φ		\$ 30,000.00	\$	150.00		7,500.00	Φ	150.00	Φ	7,500.00	
/	Clearance Prune Tree, Complete in Place, the Sum of: Inlet Protection Barrier (All-Types), Complete in Place, the Sum of:	EA EA	20	Φ	180.00	Φ		Φ		\$ 2,000.00	Φ	50.00	\$	1,000.00	Φ	250.00	Ф	5,000.00	
8	11 // 1	LF	300	Ф	5.00	φ	3,600.00 1,500.00	Ф		\$ 2,000.00	\$	2.50	Φ	750.00	φ	3.00	φ -	900.00	
9	Filter Fabric Fence, Complete in Place, the Sum of:	LF	300	Ф	5.00	Ф	1,500.00	Ф	3.00	\$ 900.00	Ф	2.50	Ф	750.00	Ф	3.00	Þ	900.00	
10	14" PVC C-900 Sanitary Sewer Force Main (Green Color), Open Cut or Trenchless Construction, Complete in Place, the Sum of:	LF	2,050	\$	140.00	\$	287,000.00	\$	130.00	\$ 266,500.00	\$	110.00	\$	225,500.00	\$	125.00	\$	256,250.00	
11	14" Fusible PVC C-900 Sanitary Sewer Force Main (Green Color), Mandatory Trenchless Construction, Complete in Place, the Sum of:	LF	930	\$	185.00	\$	172,050.00	\$	160.00	\$ 148,800.00	\$	125.00	\$	116,250.00	\$	200.00	\$	186,000.00	
12	14" Fusible PVC C-900 Sanitary Sewer Force Main (Green Color), Mandatory HDD Construction, Complete in Place, the Sum of:	LF	325	\$	185.00	\$	60,125.00	\$	160.00	\$ 52,000.00	\$	130.00	\$	42,250.00	\$	500.00	\$	162,500.00	
13	14" PVC C-900 Sanitary Sewer Force Main (Green Color) in 24" Steel Casing including Casing Spacers and End Seals, Mandatory Trenchless Construction, Complete in Place, the Sum of:	LF	100	\$	450.00	\$	45,000.00	\$	500.00	\$ 50,000.00	\$	580.00	\$	58,000.00	\$	750.00	\$	75,000.00	
14	14" Ductile Iron (AWWA C-151) Mechanical Joint Sanitary Sewer Force Main, Attach to Existing Channel Crossing Pier Caps, Complete in Place, the Sum of:	LF	120	\$	590.00	\$	70,800.00	\$	300.00	\$ 36,000.00	\$	245.00	\$	29,400.00	\$	350.00	\$	42,000.00	
15	Remove and Replace 5' Dia. Concrete Manhole (including SpectraShield Liner), Complete in Place, the Sum of:	EA	1	Ľ	16,000.00			\$	-,	\$ 10,000.00	\$	23,500.00		-,	Ů	15,000.00	\$	15,000.00	
16	Connect to Existing 14" Force Main, including Plugs and Couplings, Complete in Place, the Sum of:	EA	1	\$ 1	12,000.00	\$	12,000.00	\$	4,000.00	\$ 4,000.00	\$	5,500.00	\$	5,500.00	\$	5,000.00	\$	5,000.00	
17	Bypass Pumping, Complete in Place, the Sum of:	LS	1	\$ 7	75,000.00	\$	75,000.00	\$	30,000.00	\$ 30,000.00	\$	200,000.00	\$	200,000.00	\$	75,000.00	\$	75,000.00	
18	14" Gate Valve and Box, Complete in Place, the Sum of:	EA	2	\$ 1	17,500.00	\$	35,000.00	\$	8,000.00	\$ 16,000.00	\$	7,700.00	\$	15,400.00	\$	4,000.00	\$	8,000.00	
19	2" Air Release Valve, including Fittings, Complete in Place, the Sum of:	EA	1	\$ 1	12,500.00	\$	12,500.00	\$	7,000.00	\$ 7,000.00	\$	7,900.00	\$	7,900.00	\$	2,500.00	\$	2,500.00	
20	Abandon and Grout Fill Existing 14" Force Main, Complete in Place, the Sum of:	LF	3,400	\$	15.00	\$	51,000.00	\$	6.00	\$ 20,400.00	\$	15.00	\$	51,000.00	\$	15.00	\$	51,000.00	
21	Remove and Dispose of Existing 14" Force Main Aerial Crossing Piping, including Plugs, Conplete in Place the Sum of:	LF	120	\$	45.00	\$	5,400.00	\$	40.00	\$ 4,800.00	\$	45.00	\$	5,400.00	\$	40.00	\$	4,800.00	
22	Trench Safety System for Sanitary Sewer Force Main Open Cut Construction, Depths Greater than 5', Complete in Place, the Sum of:	LF	2,170	\$	1.00	\$	2,170.00	\$	0.50	\$ 1,085.00	\$	0.10	\$	217.00	\$	5.00	\$	10,850.00	
23	Concrete Pavement Repair (10" CRCP) per TxDOT Standard Details, Complete in Place, the Sum of:	SY	20	\$	240.00	\$	4,800.00	\$	400.00	\$ 8,000.00	\$	250.00	\$	5,000.00	\$	200.00	\$	4,000.00	
24	Critical Investigation Work, including locating existing force main as needed to facilitate the proposed force main installation, Complete in Place, the Sum of:	LS	1	\$ 2		\$	25,000.00	\$	6,000.00	\$ 6,000.00	\$	7,500.00	\$	7,500.00	\$	20,000.00	\$	20,000.00	
25	Site Restoration, including Sidewalk Repair, Complete in Place, the Sum of:	LF	3,510	\$	8.00	\$	28,080.00	\$	6.00	\$ 21,060.00	\$	5.00	\$	17,550.00	\$	15.00	\$	52,650.00	
	TOTAL BASE BID ITEMS:					\$	1,052,825.00			\$ 818,045.00			\$	996,717.00			\$	1,097,950.00	
SUPP	LEMENTAL ITEMS																		
26	Well Pointing System, All Depths, Complete in Place, the Sum of:	LF	500	\$	20.00	\$	10,000.00	\$	20.00	\$ 10,000.00	\$	20.00	\$	10,000.00	\$	20.00	\$	10,000.00	
27	Wet Condition Bedding, All Depths, Complete in Place, the Sum of:	LF	500	\$	5.00	\$	2,500.00	\$		\$ 2,500.00	\$	5.00	\$	2,500.00	\$	5.00	\$	2,500.00	
28	Extra Cement Stabilized Sand Backfill, Complete in Place, the Sum of:	CY	200	\$	35.00	\$	7,000.00	\$	35.00	\$ 7,000.00	\$	35.00	\$	7,000.00	\$	35.00	\$	7,000.00	
29	Extra Bank Sand Backfill, Complete in Place, the Sum of:	CY	200	\$	15.00	\$	3,000.00	\$	15.00	\$ 3,000.00	\$	15.00	\$	3,000.00	\$	15.00	\$	3,000.00	
30	Brace, Support, and Protect Utility Structures as Required by Owner, Complete in Place, the Sum of:	EA	5	\$	500.00	\$	2,500.00	\$	500.00	\$ 2,500.00	\$	500.00	\$	2,500.00	\$	500.00	\$	2,500.00	
	TOTAL SUPPLEMENTAL BID ITEMS:					\$	25,000.00			\$ 25,000.00			\$	25,000.00			\$	25,000.00	
TOTAL AMOUNT BID:						\$	1,077,825.00			\$ 843,045.00			\$	1,021,717.00			\$	1,122,950.00	
TOTAL CALENDAR DAYS BID: VALUE OF CALENDAR DAY: DIFFERENCE IN DAYS COMPARED TO LOWEST DAYS BID (90):						\$	240 500.00 150			250 \$ 240.00 160			\$	260 500.00 170					
A+B TO BE ADDED TO BASE BID: GRAND TOTAL:						\$ \$	75,000.00 1,152,825.00			\$ 38,400.00 \$ 881,445.00			\$ \$	85,000.00 1,106,717.00			N/A		
	MATHEMATICAL ERROR CORRECTED BY ENGINEER																		

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