



October 8, 2024

Mr. Jody Hooks  
Director of Public Works  
City of League City  
1701 W League City Parkway  
League City, Texas 77573

Re: East Main 24" Force Main Replacement Project (CIP No. WW 1801-1)  
Emergency Bypass along FM 2094  
ARKK Job No. 22-043

Dear Mr. Hooks:

As requested by the City, ARKK has prepared an emergency force main bypass plan for the existing 24" ductile iron force main along FM 2094. The existing force main is showing evidence of leaking joints with signs of potential failure in the future. The proposed 24-inch force main bypass line will allow the City to redirect the flow from this section of deteriorated force main running under the concrete pavement along FM 2094 to a location downstream (approximately 3,100 L.F.) while the new replacement force main is being constructed. ARKK and City staff have coordinated with multiple bypass contractors and utility contractors for obtaining quotes for performing the following:

- 24-inch Bypass setup, delivery, system rental, and removal
- Bypass connection installation and driveway crossings preparation and repair

**24-inch Bypass Setup**

ARKK and City obtained three (3) quotes for the emergency bypass setup and rental. For evaluation purposes, it is estimated the 24-inch force main bypass will be needed for three (3) months and the quotes below reflect a 3-month duration. The quotes received for the bypass setup are as follows:

<u>Contractor</u>	<u>Bypass Quote</u>
Xylem	\$ 155,343.03
National Tank & Equipment	\$ 376,578.00
ISJ Underground Utilities, LLC	\$ 560,491.50

Xylem provided the lowest quote for the bypass setup, including 3-month rental, delivery, setup, and removal. In addition, Xylem has the material and equipment readily available to commence work within a 48-hour notice.

**Bypass Connection Installation and Driveway Crossings Preparation and Repair**

To facilitate the proposed bypass installation, ARKK Engineers coordinated with ISJ Underground Utilities, LLC and Faith Utilities, LLC (utility contractors) and obtained quotes to provide and install the bypass connection tie-in points to the existing force main, as well as preparing driveway crossings for the proposed bypass line. The quotes received are as follows:

<u>Summary</u>	
<u>Contractor</u>	<u>Bypass Connection Quote</u>
Faith Utilities, LLC	\$ 118,385.00
ISJ Underground Utilities, LLC	\$ 140,845.50*

*\*ISJ Quote does not include costs for driveway crossings and repairs*

Faith Utilities, LLC provided the lowest quote for the bypass connections and driveway crossings for the proposed bypass line setup. After the 24-inch bypass line is removed, they will also restore the concrete driveways and sidewalks accordingly. Faith Utilities, LLC has previously provided emergency utility services to the City and they have crews readily available to start the work.

**Recommendation**

Below is total cost summary for the emergency force main bypass for a three-month duration, including the bypass services from Xylem and bypass connections and preparatory services from Faith Utilities, LLC. Due to the nature of the emergency work and potential unknowns, we recommend the City also include a 10% contingency. It is recommended that the City of League City authorize the installation of the emergency bypass along FM 2094 and issue P.O.'s to Xylem for bypass setup and Faith Utilities, LLC. for bypass connections and preparatory services in the amounts stated below.

**Total Project Cost Summary**

Bypass Services (Xylem)	\$170,877.33 (Includes 10% contingency)
Bypass Connections (Faith Utilities)	\$130,223.50 (Includes 10% contingency)
<b>TOTAL</b>	<b>\$301,100.83</b>

If you have any questions, please contact me.

Sincerely,

ARKK ENGINEERS, LLC

*Madhu Kilambi*

Mr. Madhu Kilambi, P.E.

Senior Project Manager

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Faith Utilities, LLC  
60 Veenstra Street  
Houston, Texas 77022  
832-250-5190  
[mcfaithllc@gmail.com](mailto:mcfaithllc@gmail.com)

Quote To: City of League City  
Attn: ARKK Engineering  
Date October 7, 2024

East Main Force Main - Temporary Bypass Alignment

Item No.	Location	UNIT	QTY	Description	Unit Price	Total Amount
1		EA	2	Cut and connect Bypass 24" line- On Dwn stream three days (Day 1- Exploratory/OD measurement. Day 2-Tie in with Tee and 90 MJ by Flange. Day 3- Restoration). Ups Stream connection Three days (Day 1-Exploratory to prep and cut Ductile Pipe at the bottom. Day 2-Two welders and weld Steel Flange and plug at Ductile iron side. Day 3-Restoration)	\$ 23,000.00	\$ 46,000.00
2		EA	4	Plate installation at each Driveway	\$ 1,000.00	\$ 4,000.00
3		MTHLY	12	8'x20' Road Plate 1" (Each) 4DW	\$ 900.00	\$ 10,800.00
4		MTHLY	12	8'x10' Road Plate 1" (Each) 6DW	\$ 800.00	\$ 9,600.00
5		DAY	1	CREW NEEDS OR DOWNTIME FOR UNFORESEEN CIRCUMSTANCES	\$ 3,500.00	\$ 3,500.00
6		Day	2	BACKHOE for emergency usage	\$ 600.00	\$ 1,200.00
7		EA	1	SAWCUT MOB & DEMOB	\$ 1,800.00	\$ 1,800.00
8		LF	300	sawcut 4"-6"-8"	\$ 9.90	\$ 2,970.00
9		EA	1	CONCRETE REMOVAL MOB & DEMOB	\$ 1,800.00	\$ 1,800.00
10		SF	650	Removal of Concrete & HAUL-OFF	\$ 10.50	\$ 6,825.00
11		EA	4	REMOVAL OF TOP 24"DIRT AND HAULING TO CITY YARD WITH DUMP TRUCK AT EACH DRIVEWAYS MARKED	\$ 2,000.00	\$ 8,000.00
12		CY	50	Crush Concrete	\$ 150.00	\$ 7,500.00
13		TON	1	Cold Patch	\$ 190.00	\$ 190.00
14		EA	1	CONCRETE RESTORATION MOB & DEMOB	\$ 1,800.00	\$ 1,800.00
15		SY	80	Replace 4 1/2" to 6" 3500 PSI concrete for SW or DW	\$ 150.00	\$ 12,000.00
16		SY	50	ST AUGUSTINE SOD	\$ 8.00	\$ 400.00
						<b>\$ 118,385.00</b>

Our quote is Based on the following:

1	Exclusions: Bypass, lab testing, dewatering, traffic control, Required Permits (if any) Bonds or Impact Fees.
2	Exclusions: Asphalt
3	Payment Net 30 Day

We appreciate the opportunity of quoting this work and looking forward to working with you on this project.

If I can provide additional information please contact me.  
Sincerely,

Manuel Cervantes  
(832) 250-5190  
Faith Utilities, LLC  
[mcfaithllc@gmail.com](mailto:mcfaithllc@gmail.com)

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Accepted By

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Signed & Date