

Office of Michael H. Barnes, P.E.

City of Richland Hills, Texas

## **Memorandum**

To: Honorable Mayor Bill Agan and members of the Richland Hills City Council  
From: Michael Barnes, P.E., City Engineer  
Date: October 18, 2013  
Subject: Award Bid for BFC Sewer Main and Lift Station

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### **Council Action Requested:**

Consider award of low base bid to Jackson Construction, Ltd. in the amount of \$2,760,754.50 for the BFC Sewer Main and Lift Station Project.

### **Background Information:**

On September 25, 2013 bids were received for the BFC Sewer Main and Lift Station. This project will allow the city to be removed from the old TCWCD 36" sewer line. Richland Hills currently shares this line with North Richland Hills. The new line will provide a more accurate meter reading of our flows.

The bid documents were composed of a base bid and an alternate bid. The base bid included the BFC Sewer Main and Lift Station. The alternate bid was for the reconstruction of Rosebud Ln. from Pine Park south to the end of Rosebud Ln. If funds were available the plan was to award the low bidder for the base bid and alternate bid. This would have required a total bid (base plus alternate) of \$2,900,000 or less. The lowest base bid and alternate totaled \$3,019,344. Since this exceeded the budgeted amount of \$2,900,000, the low bidder was chosen based only on the lowest **base** bid.

Jackson Construction, Ltd. was the low base bidder at \$2,760,754.50. The completion time for this project is 300 calendar days from the date of notice to proceed. Jackson Construction has been based in Fort Worth since 1973 and has an excellent reputation in the construction industry. They have built several lift stations and thousands of feet of sewer lines. Therefore,

staff is recommending Jackson Construction, Ltd. be awarded the base bid for BFC Sewer Main and Lift Station Project in the amount of \$2,760,754.50. Please contact me if you have any questions.

**Board/Citizen Input:**

After award of bid, citizens along the proposed route will be notified by mail and newsletter of construction start date.

**Financial Impact:**

Sewer Bonds available in the amount of \$3,000,000.00

**Staff Contacts:**

Michael Barnes, P.E. Director of Public Works  
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**Attachments:**

Bid Tabulation Sheet

CITY OF RICHLAND HILLS  
BIG FOSSIL CREEK SANITARY SEWER AND LIFT STATION

Date/Time for Receiving Bids: 10:00 a.m. - Wednesday, September 25, 2013



PAY ITEM	APPROXIMATE QUANTITY	UNIT	DESCRIPTION OF ITEM	Jackson Construction, Ltd.		Circle C Construction		Crescent Constructors		Archer Western	
				UNIT PRICE	AMOUNT BID	UNIT PRICE	AMOUNT BID	UNIT PRICE	AMOUNT BID	UNIT PRICE	AMOUNT BID
<b>UNIT I: Lift Station</b>											
1	1	LS	For construction of all Work required, complete in place and placed in operation the Big Fossil Creek Lift Station, including wet well, vaults, valving, lined 6-ft Dia. MH, piping, electrical/ instrumentation, electrical building, concrete flat work, force main connection at lift station, backfill, flowable fill, select fill, crushed stone, and appurtenances, testing, generator, and all other items necessary for a complete, operational system (except for Bid Items 2,3,4) as listed separately below).	\$ 1,135,000.00	\$ 1,135,000.00	\$ 1,195,000.00	\$ 1,195,000.00	\$ 1,158,000.00	\$ 1,158,000.00	\$ 1,507,000.00	\$ 1,507,000.00
2	1	EA	For the development, design, and implementation of the excavation and support protection systems, as required by the Occupational Safety and Health Administration, and the assumption of the responsibility for said systems.	\$ 98,000.00	\$ 98,000.00	\$ 45,000.00	\$ 45,000.00	\$ 100,000.00	\$ 100,000.00	\$ 10,000.00	\$ 10,000.00
3	2	EA	For Level A subsurface Utility Engineering on Enbridge Natural Gas Pipeline prior to starting excavation.	\$ 1,700.00	\$ 3,400.00	\$ 2,000.00	\$ 4,000.00	\$ 2,000.00	\$ 4,000.00	\$ 600.00	\$ 1,200.00
4	1	LS	For Design, Implementation and Maintenance of the Stormwater Pollution Prevention Plan (SWPPP) for Stormwater discharge.	\$ 4,000.00	\$ 4,000.00	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	\$ 4,000.00	\$ 4,000.00
SUBTOTAL UNIT I:				\$	1,240,400.00	\$	1,249,000.00	\$	1,267,000.00	\$	1,522,200.00
<b>UNIT II: Pipeline</b>											
5	5,655	LF	For the development, design, and implementation of the excavation and support protection systems, as required by the Occupational Safety and Health Administration, and the assumption of the responsibility for said systems.	\$ 1.00	\$ 5,655.00	\$ 1.00	\$ 5,655.00	\$ 2.00	\$ 11,310.00	\$ 1.00	\$ 5,655.00
6	5	EA	For Level A subsurface Utility Engineering prior to starting excavation.	\$ 1,700.00	\$ 8,500.00	\$ 2,000.00	\$ 10,000.00	\$ 2,000.00	\$ 10,000.00	\$ 600.00	\$ 3,000.00
7	620	LF	For 18-inch PVC ASTM F679 PS46 solid wall pipe.	\$ 62.00	\$ 38,440.00	\$ 79.00	\$ 48,980.00	\$ 55.00	\$ 34,100.00	\$ 120.00	\$ 74,400.00
8	1,806	LF	For 15-inch PVC ASTM 3034 SDR35 solid wall pipe.	\$ 66.00	\$ 119,196.00	\$ 71.00	\$ 128,226.00	\$ 50.00	\$ 90,300.00	\$ 375.00	\$ 677,250.00
9	1,315	LF	For 12-inch PVC ASTM 3034 SDR35 solid wall pipe.	\$ 62.00	\$ 81,530.00	\$ 67.00	\$ 88,105.00	\$ 50.00	\$ 65,750.00	\$ 215.00	\$ 282,725.00
10	930	LF	For 10-inch Pressure HDPE (non-encased) pipe.	\$ 70.00	\$ 65,100.00	\$ 84.00	\$ 78,120.00	\$ 80.00	\$ 74,400.00	\$ 75.00	\$ 69,750.00
11	140	LF	For 10-inch Pressure HDPE (cased) and mounted on the Midway Bridge.	\$ 85.00	\$ 11,900.00	\$ 84.00	\$ 11,760.00	\$ 100.00	\$ 14,000.00	\$ 60.00	\$ 8,400.00
12	1,198	LF	For 6-inch PVC ASTM 3034 SDR35 solid wall pipe.	\$ 43.00	\$ 51,514.00	\$ 48.00	\$ 57,504.00	\$ 35.00	\$ 41,930.00	\$ 230.00	\$ 275,540.00
13	530	LF	For minimum 36-inch steel casing for dry bore under US-121 and Trinity Rail Express (TRE).	\$ 800.00	\$ 424,000.00	\$ 700.00	\$ 371,000.00	\$ 1,193.00	\$ 632,290.00	\$ 1,140.00	\$ 604,200.00
14	6,670	LF	For utility locations.	\$ 1.00	\$ 6,670.00	\$ 1.00	\$ 6,670.00	\$ 3.00	\$ 20,010.00	\$ 5.00	\$ 33,350.00
15	2,885	LF	For road repairs, asphalt, and trench.	\$ 40.00	\$ 115,400.00	\$ 45.00	\$ 129,825.00	\$ 100.00	\$ 288,500.00	\$ 46.00	\$ 132,710.00
16	1,000	LF	For road repair, gravel.	\$ 18.00	\$ 18,000.00	\$ 30.00	\$ 30,000.00	\$ 10.00	\$ 10,000.00	\$ 15.00	\$ 15,000.00
17	5,080	SF	For 4-ft concrete manhole lining for concrete protection.	\$ 10.00	\$ 50,800.00	\$ 10.00	\$ 50,800.00	\$ 10.00	\$ 50,800.00	\$ 9.00	\$ 45,720.00
18	4,333	SY	Hydromulch Temporary and Permanent Easements Between Station 7+10 and Station14+90 and irrigate until 80% of grass coverage is achieved (1 1/2" high).	\$ 1.50	\$ 6,499.50	\$ 3.00	\$ 12,999.00	\$ 2.00	\$ 8,666.00	\$ 1.00	\$ 4,333.00
19	7	EA	For cutting and abandonment of existing sanitary sewer pipelines and manholes.	\$ 1,100.00	\$ 7,700.00	\$ 2,500.00	\$ 17,500.00	\$ 2,000.00	\$ 14,000.00	\$ 3,800.00	\$ 26,600.00
20	34	EA	For pipeline markers.	\$ 200.00	\$ 6,800.00	\$ 100.00	\$ 3,400.00	\$ 50.00	\$ 1,700.00	\$ 230.00	\$ 7,820.00
21	21	EA	For 4-foot diameter concrete manholes.	\$ 5,100.00	\$ 107,100.00	\$ 8,000.00	\$ 168,000.00	\$ 6,000.00	\$ 126,000.00	\$ 6,400.00	\$ 134,400.00
22	30	EA	For reinstalling short sanitary sewer service connections.	\$ 770.00	\$ 23,100.00	\$ 400.00	\$ 12,000.00	\$ 1,000.00	\$ 30,000.00	\$ 3,000.00	\$ 90,000.00
23	21	EA	For reinstalling long sanitary sewer service connections.	\$ 1,500.00	\$ 31,500.00	\$ 500.00	\$ 10,500.00	\$ 1,200.00	\$ 25,200.00	\$ 4,000.00	\$ 84,000.00
24	1,000	LF	For reinstalling 4-inch sanitary sewer service connections (two) at Burtelsen property by a licensed Plumber.	\$ 20.00	\$ 20,000.00	\$ 48.00	\$ 48,000.00	\$ 10.00	\$ 10,000.00	\$ 35.00	\$ 35,000.00
25	1	LS	For Midway Bridge modifications, 14-inch casing pipe, spacers, supports, anchors, steel beams, braces, and .concrete footings.	\$ 85,000.00	\$ 85,000.00	\$ 120,000.00	\$ 120,000.00	\$ 25,000.00	\$ 25,000.00	\$ 45,000.00	\$ 45,000.00
26	1	LS	For traffic control plan and implementation.	\$ 21,000.00	\$ 21,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 16,000.00	\$ 16,000.00
27	1	LS	For landscaping, irrigation, driveways, and fences mitigation.	\$ 68,000.00	\$ 68,000.00	\$ 15,000.00	\$ 15,000.00	\$ 7,000.00	\$ 7,000.00	\$ 10,000.00	\$ 10,000.00
28	1	LS	For allowance of work directed by OWNER for Seventy-Five Thousand Dollars and Zero Cents.	\$ 75,000.00	\$ 75,000.00	\$ 75,000.00	\$ 75,000.00	\$ 75,000.00	\$ 75,000.00	\$ 75,000.00	\$ 75,000.00
29	1	LS	For storm water pollution prevention plan and implementation.	\$ 16,000.00	\$ 16,000.00	\$ 20,000.00	\$ 20,000.00	\$ 14,000.00	\$ 14,000.00	\$ 7,000.00	\$ 7,000.00
30	1	LS	For seeding areas disturbed by construction.	\$ 7,700.00	\$ 7,700.00	\$ 5,000.00	\$ 5,000.00	\$ 3,000.00	\$ 3,000.00	\$ 2,000.00	\$ 2,000.00
SUBTOTAL UNIT II:				\$	1,472,104.50	\$	1,534,044.00	\$	1,692,956.00	\$	2,764,853.00
<b>UNIT III: Contingency</b>											
31	50	CY	A contingency bid item for furnishing and installing additional flowable fill, including excavation and forms, if needed, as directed by OWNER.	\$ 135.00	\$ 6,750.00	\$ 120.00	\$ 6,000.00	\$ 120.00	\$ 6,000.00	\$ 105.00	\$ 5,250.00
32	100	CY	A contingency bid item for furnishing and placing extra crushed stone embedment for trench stabilization or foundation material as replacement for non-suitable material (Coarse aggregate gradation No. 57 per Division 2 Section 02001 "Materials"), if needed, as directed by OWNER.	\$ 65.00	\$ 6,500.00	\$ 25.00	\$ 2,500.00	\$ 65.00	\$ 6,500.00	\$ 75.00	\$ 7,500.00
33	100	CY	A contingency bid item for furnishing and installing 3000-psi concrete for additional blocking, encasement, sidewalks, mow strips, slabs on grade, and other areas at location not shown on the Drawings or required by the Specifications, as directed by OWNER.	\$ 150.00	\$ 15,000.00	\$ 120.00	\$ 12,000.00	\$ 150.00	\$ 15,000.00	\$ 220.00	\$ 22,000.00
34	50	CY	A contingency bid item for furnishing and installing 4000-psi reinforced concrete (for slabs on grade, paving and grade beams), including excavation, forms, and finishing, as directed by OWNER.	\$ 350.00	\$ 17,500.00	\$ 120.00	\$ 6,000.00	\$ 200.00	\$ 10,000.00	\$ 385.00	\$ 19,250.00
35	50	CY	A contingency bid item for furnishing and installing extra select fill, as directed by OWNER.	\$ 50.00	\$ 2,500.00	\$ 25.00	\$ 1,250.00	\$ 30.00	\$ 1,500.00	\$ 40.00	\$ 2,000.00
SUBTOTAL UNIT III:				\$	48,250.00	\$	27,750.00	\$	39,000.00	\$	56,000.00
<b>TOTAL (UNITS I-III)</b>				\$	<b>2,760,754.50</b>	\$	<b>2,810,794.00</b>	\$	<b>2,998,956.00</b>	\$	<b>4,343,053.00</b>
<b>ALTERNATE ITEMS</b>											
<b>UNIT IV: WATERLINE ALONG ROSEBUD DRIVE</b>											
1A	1,145	LF	Removal and reconstruction of the areas outside of the trench of Rosebud Drive from Station 14+00 to 25+45, including removal and disposal of material, lime treatment of sub-base, 8-inch base, 3-inch top layer.	\$ 188.00	\$ 215,260.00	\$ 120.00	\$ 137,400.00	\$ 120.00	\$ 137,400.00	\$ 47.00	\$ 53,815.00
2A	1,950	LF	Removal and reconstruction of concrete curb and gutters from Station 14+00 to 25+45 including removal and displas of material, reinforcing re-bar, concrete.	\$ 20.00	\$ 39,000.00	\$ 25.00	\$ 48,750.00	\$ 25.00	\$ 48,750.00	\$ 30.00	\$ 58,500.00
3A	320	SY	Removal and reconstruction of the existing driveways to adjust driveway elevations, between Station 14+00 to 25+45, including saw cutting and removal of material, re-bar, concrete, in the right of way.	\$ 82.00	\$ 26,240.00	\$ 70.00	\$ 22,400.00	\$ 90.00	\$ 28,800.00	\$ 75.00	\$ 24,000.00
SUBTOTAL ALTERNATIVE ITEMS:				\$	280,500.00	\$	208,550.00	\$	214,950.00	\$	136,315.00
<b>LAST MINUTE ADD OR DEDUCT</b>											
36	1	LS	Last minute add or deduct (check one), for the lump sum amount to be added to or deducted from amount bid in.	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL BASE BID PLUS LAST MINUTE ADD OR DEDUCT</b>				\$	<b>2,760,754.50</b>	\$	<b>2,810,794.00</b>	\$	<b>2,998,956.00</b>	\$	<b>4,343,053.00</b>
<b>TOTAL BASE BID PLUS LAST MINUTE ADD OR DEDUCT PLUS ALTERNATE "A"</b>				\$	<b>3,041,254.50</b>	\$	<b>3,019,344.00</b>	\$	<b>3,213,906.00</b>	\$	<b>4,479,368.00</b>