

**BID TABULATION FOR:**

**BID OPENING DATE:**  
**BID OPENING LOCATION:**  
**TABULATION BY:**  
**TABULATION DATE:**  
**LJA JOB NO.**

CONSTRUCTION OF THE WATER, SANITARY SEWER AND FORCEMAIN FACILITIES  
TO SERVE NEW FOREST TOWN CENTER  
HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 285  
CITY OF HOUSTON E.T.J., HARRIS COUNTY, TEXAS  
JANUARY 12, 2018  
LJA ENGINEERING, INC.  
C. DURHAM  
JANUARY 12, 2018  
2164-1501 (9.2)

BIDDER'S NAME	TOTAL BID AMOUNT	TOTAL AMOUNT BID INCLUDING ALTERNATE
1) CROSTEX CONSTRUCTION, INC.	\$1,214,000.00	\$1,293,000.00
2) TEXASITE, LLC	\$1,241,456.60	\$1,335,656.60
3) TRIPLE B SERVICES, LLP	\$1,336,986.15	\$1,407,836.15
4) PRINCIPAL SERVICES, LTD.	\$1,371,344.75	\$1,475,144.75
5) AR TURNKEE CONSTRUCTION CO., INC.	\$1,388,573.75	\$1,467,173.75
6) BLAZEY CONSTRUCTION SERVICES, LLC	\$1,565,659.15	\$1,998,659.15
7) TEXAS PRIDE UTILITIES, LLC	\$1,770,714.50	\$1,860,514.50
8) MMG CONTRACTORS, LLC	\$2,317,384.00	\$2,450,184.00

CALENDAR DAYS - 90/100

*mark swanson*

I, Mark H. Swanson, P.E., hereby certify these bid tabulations to be true and correct.



*1/12/18*

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 CITY OF HOUSTON E.T.J., HARRIS COUNTY, TEXAS  
 JANUARY 12, 2018  
 LJA ENGINEERING, INC.  
 C. DURHAM  
 JANUARY 12, 2018  
 2164-1501 (9.2)

ITEM	DESCRIPTION	UNIT	QTY	1) CROSTEX CONSTRUCTION, INC.		2) TEXASITE, LLC		3) TRIPLE B SERVICES, LLP	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
<b>WATER ITEMS</b>									
1.	16" PVC WATER LINE, AWWA C-905, DR 18, CLASS 235, ALL DEPTHS, INCLUDING FITTINGS, COMPLETE IN PLACE	LF	3,150	\$46.00	\$144,900.00	\$46.00	\$144,900.00	\$50.50	\$159,075.00
2.	12" PVC WATER LINE, AWWA C-900, DR 18, CLASS 235, ALL DEPTHS, INCLUDING FITTINGS, COMPLETE IN PLACE	LF	9,215	\$27.00	\$248,805.00	\$28.00	\$258,020.00	\$29.50	\$271,842.50
3.	16" RESTRAINED JOINT PVC WATER LINE, AWWA C-900, DR 14, CLASS 305, ALL DEPTHS, INCLUDING ALL RESTRAINED JOINT FITTINGS, COMPLETE IN PLACE	LF	50	\$152.00	\$7,600.00	\$172.00	\$8,600.00	\$145.00	\$7,250.00
4.	12" RESTRAINED JOINT PVC WATER LINE, AWWA C-900, DR 14, CLASS 305, ALL DEPTHS, INCLUDING ALL RESTRAINED JOINT FITTINGS, COMPLETE IN PLACE	LF	60	\$56.00	\$3,360.00	\$75.00	\$4,500.00	\$81.00	\$4,860.00
5.	16" AWWA GATE VALVE AND BOX, COMPLETE IN PLACE	EA	6	\$6,200.00	\$37,200.00	\$6,630.00	\$39,780.00	\$5,950.00	\$35,700.00
6.	12" AWWA GATE VALVE AND BOX, COMPLETE IN PLACE	EA	17	\$1,575.00	\$26,775.00	\$1,900.00	\$32,300.00	\$1,900.00	\$32,300.00
7.	12" PLUG AND CLAMP, WITH 2" BLOW-OFF VALVE AND BOX, COMPLETE IN PLACE	EA	1	\$400.00	\$400.00	\$620.00	\$620.00	\$950.00	\$950.00
8.	FLUSHING VALVE UNIT, INCLUDES APPROPRIATE TEE, 6" GATE VALVE & BOX, LEAD AND FLUSHING VALVE, AND TRENCH SAFETY, COMPLETE IN PLACE	EA	36	\$3,150.00	\$113,400.00	\$3,100.00	\$111,600.00	\$3,250.00	\$117,000.00
9.	REMOVE EXISTING PLUG AND CLAMP WITH BLOW-OFF VALVE AND MAKE WET CONNECTION, ALL SIZES, COMPLETE IN PLACE	EA	3	\$200.00	\$600.00	\$350.00	\$1,050.00	\$500.00	\$1,500.00
10.	24" PVC CASING FOR 16" PVC WATER LINE, AWWA C-905, DR 18, CLASS 235, INCLUDES FITTINGS, COMPLETE IN PLACE	LF	40	\$85.00	\$3,400.00	\$49.00	\$1,960.00	\$114.00	\$4,560.00
11.	20" PVC CASING FOR 12" PVC PIPE WATER LINE, AWWA C-905, DR 18, CLASS 235, INCLUDES FITTINGS, COMPLETE IN PLACE	LF	137	\$65.00	\$8,905.00	\$38.00	\$5,206.00	\$64.00	\$8,768.00
12.	ADDITIONAL COST TO BORE AND JACK FOR 24" CASING PIPE, DOES NOT INCLUDE PIPE, COMPLETE IN PLACE	LF	40	\$50.00	\$2,000.00	\$120.00	\$4,800.00	\$80.00	\$3,200.00
13.	ADDITIONAL COST TO BORE AND JACK FOR 20" CASING PIPE, DOES NOT INCLUDE PIPE, COMPLETE IN PLACE	LF	137	\$40.00	\$5,480.00	\$115.00	\$15,755.00	\$68.00	\$9,316.00
14.	ADDITIONAL COST TO BORE AND JACK FOR 12" WATER LINE, DOES NOT INCLUDE PIPE, COMPLETE IN PLACE	LF	170	\$35.00	\$5,950.00	\$80.00	\$13,600.00	\$31.00	\$5,270.00
15.	TRENCH SAFETY, ALL DEPTHS, COMPLETE IN PLACE	LF	12,128	\$1.00	\$12,128.00	\$1.00	\$12,128.00	\$0.01	\$121.28
<b>SUBTOTAL WATER ITEMS</b>					<b>\$620,903.00</b>		<b>\$654,819.00</b>		<b>\$661,712.78</b>
<b>SANITARY SEWER ITEMS</b>									
1.	12" PVC SEWER PIPE, AWWA C-900, DR 18, CLASS 235, 16" - 20" CUT, COMPLETE IN PLACE	LF	936	\$41.75	\$39,078.00	\$40.00	\$37,440.00	\$60.50	\$56,628.00
2.	10" PVC SEWER PIPE, ASTM D-2241, SDR 26, 8" - 12" CUT, COMPLETE IN PLACE	LF	654	\$24.65	\$16,121.10	\$26.00	\$17,004.00	\$37.00	\$24,198.00
3.	10" PVC SEWER PIPE, AWWA C-900, DR 18, CLASS 235, 12" - 16" CUT, COMPLETE IN PLACE	LF	790	\$33.45	\$26,425.50	\$33.00	\$26,070.00	\$40.00	\$31,600.00
4.	10" PVC SEWER PIPE, AWWA C-900, DR 18, CLASS 235, 16" - 20" CUT, COMPLETE IN PLACE	LF	172	\$36.75	\$6,321.00	\$34.00	\$5,848.00	\$40.00	\$6,880.00
5.	8" PVC SEWER PIPE, ASTM D-2241, SDR 26, 0" - 8" CUT, COMPLETE IN PLACE	LF	691	\$16.95	\$11,712.45	\$22.00	\$15,202.00	\$31.50	\$21,766.50
6.	8" PVC SEWER PIPE, ASTM D-2241, SDR 26, 8" - 12" CUT, COMPLETE IN PLACE	LF	2,060	\$19.75	\$40,685.00	\$24.00	\$49,440.00	\$28.50	\$58,710.00
7.	8" PVC SEWER PIPE, AWWA C-900, DR 18, CLASS 235, 12" - 16" CUT, COMPLETE IN PLACE	LF	1,825	\$26.25	\$47,906.25	\$29.00	\$52,925.00	\$34.00	\$62,050.00

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 TO SERVE NEW FOREST TOWN CENTER  
 HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 285  
 CITY OF HOUSTON E.T.J., HARRIS COUNTY, TEXAS  
 JANUARY 12, 2018  
 LJA ENGINEERING, INC.  
 C. DURHAM  
 JANUARY 12, 2018  
 2164-1501 (9.2)

ITEM	DESCRIPTION	UNIT	QTY	1) CROSTEX CONSTRUCTION, INC.		2) TEXASITE, LLC		3) TRIPLE B SERVICES, LLP	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
8.	8" PVC SEWER PIPE, AWWA C-900, DR 18, CLASS 235, 16' - 20' CUT, COMPLETE IN PLACE	LF	960	\$29.40	\$28,224.00	\$32.00	\$30,720.00	\$36.50	\$35,040.00
9.	6" PVC FORCE MAIN PIPE, AWWA C-900, DR 18, CLASS 235, ALL DETPHS, COMPLETE IN PLACE	LF	867	\$15.50	\$13,438.50	\$18.00	\$15,606.00	\$26.00	\$22,542.00
10.	6" RESTRAINED JOINT PVC FORCE MAIN PIPE, AWWA C-900, DR 14, CLASS 235, COMPLETE IN PLACE	LF	72	\$38.00	\$2,736.00	\$76.00	\$5,472.00	\$54.00	\$3,888.00
11.	PRECAST STANDARD SANITARY SEWER MANHOLE FOR 6" - 24" SANITARY SEWER PIPES, (0' - 8' DEPTH), INCLUDES STAINLESS STEEL INFLOW PROTECTOR AND ADJUSTMENTS, COMPLETE IN PLACE	EA	39	\$2,100.00	\$81,900.00	\$2,000.00	\$78,000.00	\$2,450.00	\$95,550.00
12.	EXTRA DEPTH FOR SANITARY SEWER MANHOLE, (GREATER THAN 8' DEPTH), COMPLETE IN PLACE	VF	294	\$210.00	\$61,740.00	\$135.00	\$39,690.00	\$92.00	\$27,048.00
13.	CONSTRUCT SANITARY SEWER MANHOLE ON EXISTING 12" SANITARY SEWER, ALL DEPTHS, COMPLETE IN PLACE	EA	1	\$4,000.00	\$4,000.00	\$2,400.00	\$2,400.00	\$3,050.00	\$3,050.00
14.	CORROSION RESISTANT MANHOLE FOR FORCE MAIN DISCHARGE, (0' - 8' DEPTH), INCLUDES STAINLESS STEEL INFLOW PROTECTORS AND ADJUSTMENTS, COMPLETE IN PLACE	EA	1	\$5,500.00	\$5,500.00	\$11,000.00	\$11,000.00	\$4,300.00	\$4,300.00
15.	AIR RELEASE VALVE AND MANHOLE FOR 6" FORCE MAIN, (0' - 8' DEPTH), COMPLETE IN PLACE	EA	1	\$5,000.00	\$5,000.00	\$7,200.00	\$7,200.00	\$6,000.00	\$6,000.00
16.	STANDARD 8" SANITARY SEWER DROP, (0' - 3' DEPTH), COMPLETE IN PLACE	EA	1	\$500.00	\$500.00	\$620.00	\$620.00	\$1,325.00	\$1,325.00
17.	EXTRA DEPTH FOR SANITARY SEWER DROP, COMPLETE IN PLACE	VF	5	\$50.00	\$250.00	\$25.00	\$125.00	\$10.00	\$50.00
18.	CORE INTO EXISTING MANHOLE AND CONNECT PROPOSED SANITARY SEWER, ALL DEPTHS, COMPLETE IN PLACE	EA	1	\$2,000.00	\$2,000.00	\$1,270.00	\$1,270.00	\$800.00	\$800.00
19.	ADDITIONAL COST TO BORE AND JACK 14" PVC CASING, DOES NOT INCLUDE PIPE, COMPLETE IN PLACE	LF	90	\$55.00	\$4,950.00	\$112.00	\$10,080.00	\$104.00	\$9,360.00
20.	ADDITIONAL COST TO BORE AND JACK 20" PVC CASING, DOES NOT INCLUDE PIPE, COMPLETE IN PLACE	LF	40	\$70.00	\$2,800.00	\$80.00	\$3,200.00	\$124.00	\$4,960.00
21.	ADDITIONAL COST TO BORE AND JACK 8" SANITARY SEWER, DOES NOT INCLUDE PIPE, COMPLETE IN PLACE	LF	227	\$36.00	\$8,172.00	\$80.00	\$18,160.00	\$58.00	\$13,166.00
22.	20" PVC CASING PIPE FOR 12" SANITARY SEWER, AWWA C-900, DR 18, CLASS 235, COMPLETE IN PLACE	LF	40	\$65.00	\$2,600.00	\$40.00	\$1,600.00	\$61.50	\$2,460.00
23.	14" PVC CASING PIPE FOR 8" SANITARY SEWER, AWWA C-900, DR 18, CLASS 235, COMPLETE IN PLACE	LF	90	\$45.00	\$4,050.00	\$35.00	\$3,150.00	\$36.00	\$3,240.00
24.	PLUG FOR 6" FORCE MAIN, COMPLETE IN PLACE	EA	1	\$200.00	\$200.00	\$215.00	\$215.00	\$400.00	\$400.00
25.	TRENCH SAFETY, ALL DEPTHS, COMPLETE IN PLACE	LF	8,637	\$1.00	\$8,637.00	\$1.00	\$8,637.00	\$0.01	\$86.37
<b>SUBTOTAL SANITARY SEWER ITEMS</b>					<b>\$424,946.80</b>		<b>\$441,074.00</b>		<b>\$495,097.87</b>
<b>STORM WATER POLLUTION PREVENTION ITEMS</b>									
1.	STORM WATER POLLUTION PREVENTION PLAN COMPLIANCE AND INSPECTIONS, INCLUDING STREET SWEEPING AND CONCRETE WASHOUT, COMPLETE IN PLACE	LS	1	\$1,500.00	\$1,500.00	\$800.00	\$800.00	\$2,650.00	\$2,650.00

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ITEM	DESCRIPTION	UNIT	QTY	1) CROSTEX CONSTRUCTION, INC.		2) TEXASITE, LLC		3) TRIPLE B SERVICES, LLP	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
2.	CONSTRUCT, MAINTAIN, AND REMOVE, STABILIZED CONSTRUCTION EXIT, COMPLETE IN PLACE	EA	2	\$1,500.00	\$3,000.00	\$200.00	\$400.00	\$3,000.00	\$6,000.00
3.	STAGE II INLET PROTECTION BARRIERS, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	EA	10	\$1.00	\$10.00	\$5.00	\$50.00	\$25.00	\$250.00
4.	REINFORCED FILTER FABRIC, FENCE (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	LF	7,017	\$0.50	\$3,508.50	\$0.80	\$5,613.60	\$1.50	\$10,525.50
5.	HYDROMULCH SEEDING OF EASEMENTS ADJACENT TO BELTWAY FEEDER ROAD RIGHT OF WAY, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	AC	3	\$100.00	\$300.00	\$1,500.00	\$4,500.00	\$1,750.00	\$5,250.00
6.	BROADCAST SEED ALL DISTURBED AREA, FERTILIZING AND WATER, DOES NOT INCLUDE HYDROMULCHED AREAS, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	AC	8	\$50.00	\$400.00	\$500.00	\$4,000.00	\$675.00	\$5,400.00
<b>SUBTOTAL STORM WATER POLLUTION PREVENTION ITEMS</b>						<b>\$8,718.50</b>		<b>\$15,363.60</b>	<b>\$30,075.50</b>
<b>MISCELLANEOUS ITEMS</b>									
1.	WELL POINT SYSTEM FOR PIPE TRENCHES (TO BE USED ONLY AT THE WRITTEN DIRECTION OF THE ENGINEER), ALL DEPTHS, COMPLETE IN PLACE	LF	4,700	\$20.00	\$94,000.00	\$20.00	\$94,000.00	\$20.00	\$94,000.00
2.	WET SAND BEDDING FOR UNSTABLE SUBGRADE FOR SANITARY SEWER AS PER CITY OF HOUSTON DRAWING NO. 02317-01 (TO BE USED ONLY AT THE WRITTEN DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	LF	4,700	\$5.00	\$23,500.00	\$5.00	\$23,500.00	\$5.00	\$23,500.00
3.	CONE ADJUSTMENT TO EXISTING MANHOLE (TO BE USED ONLY AT THE WRITTEN DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	EA	1	\$350.00	\$350.00	\$350.00	\$350.00	\$350.00	\$350.00
4.	CRUSHED STONE SUPPORT FOR MANHOLE IN UNSTABLE SUBGRADE (TO BE USED ONLY AT THE WRITTEN DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	EA	1	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00
5.	EXTRA CEMENT STABILIZED SAND (TO BE USED ONLY AT THE WRITTEN DIRECTION OF THE ENGINEER), ALL DEPTHS, COMPLETE IN PLACE	CY	100	\$20.00	\$2,000.00	\$20.00	\$2,000.00	\$20.00	\$2,000.00
6.	UTILITY SPOILS TO BE PLACED AND COMPACTED ON-SITE, COMPACTION TO 95% STANDARD PROCTOR DENSITY, COMPLETE IN PLACE	LS	1	\$29,000.00	\$29,000.00	\$1,100.00	\$1,100.00	\$22,000.00	\$22,000.00
7.	EXTRA DUCTILE IRON FITTING, COMPLETE IN PLACE	TON	1	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00
8.	CLEARING AND GRUBBING, INCLUDES ROOT RAKING, BACK DRAGGING, HAULING OF MATERIAL OFFSITE TO A DISPOSAL FACILITY, (TO BE USED ONLY AT THE DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	AC	1	\$5,500.00	\$5,500.00	\$5,500.00	\$5,500.00	\$5,500.00	\$5,500.00
9.	RESTORE DISTURBED AREAS NEAR UVALDE AND BURLESON BEND DRIVE TO ORIGINAL CONDITION, COMPLETE IN PLACE	LS	1	\$3,531.70	\$3,531.70	\$2,200.00	\$2,200.00	\$1,200.00	\$1,200.00
<b>SUBTOTAL MISCELLANEOUS ITEMS</b>						<b>\$159,431.70</b>		<b>\$130,200.00</b>	<b>\$150,100.00</b>
<b>ALTERNATE WATER ITEMS</b>									
1.	16" PVC WATER LINE, AWWA C-905, DR-18, CLASS 235, ALL DEPTHS, INCLUDES FITTINGS, COMPLETE IN PLACE	LF	200	\$50.00	\$10,000.00	\$51.00	\$10,200.00	\$60.50	\$12,100.00
2.	24" CASING FOR 16" WATER LINE, AWWA C-905, DR-18, CLASS 235, INCLUDES FITTINGS, COMPLETE IN PLACE	LF	200	\$85.00	\$17,000.00	\$58.00	\$11,600.00	\$114.00	\$22,800.00
3.	ADDITIONAL COST TO BORE AND JACK FOR 24" CASING PIPE, DOES NOT INCLUDE PIPE, COMPLETE IN PLACE	LF	200	\$150.00	\$30,000.00	\$185.00	\$37,000.00	\$81.50	\$16,300.00
<b>SUBTOTAL ALTERNATE WATER ITEMS</b>						<b>\$57,000.00</b>		<b>\$58,800.00</b>	<b>\$51,200.00</b>

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			UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	
<b>ALTERNATE SANITARY SEWER ITEMS</b>									
1. 6" PVC FORCE MAIN PIPE, AWWA C-900, DR-18, CLASS 235, ALL DEPTHS, COMPLETE IN PLACE	LF	200	\$20.00	\$4,000.00	\$17.00	\$3,400.00	\$30.25	\$6,050.00	
2. 12" CASING PIPE FOR 6" FORCE MAIN, AWWA C-900, DR-18, CLASS 235, COMPLETE IN PLACE	LF	200	\$24.00	\$4,800.00	\$50.00	\$10,000.00	\$36.50	\$7,300.00	
3. ADDITIONAL COST TO BORE AND JACK FOR 12" PVC CASING, DOES NOT INCLUDE PIPE, COMPLETE IN PLACE	LF	200	\$66.00	\$13,200.00	\$110.00	\$22,000.00	\$31.50	\$6,300.00	
<b>SUBTOTAL ALTERNATE SANITARY SEWER ITEMS</b>				<b>\$22,000.00</b>		<b>\$35,400.00</b>		<b>\$19,650.00</b>	
<b>BID SUMMARY</b>									
SUBTOTAL WATER ITEMS				\$620,903.00		\$654,819.00		\$661,712.78	
SUBTOTAL SANITARY SEWER ITEMS				\$424,946.80		\$441,074.00		\$495,097.87	
SUBTOTAL STORM WATER POLLUTION PREVENTION ITEMS				\$8,718.50		\$15,363.60		\$30,075.50	
SUBTOTAL MISCELLANEOUS ITEMS				\$159,431.70		\$130,200.00		\$150,100.00	
<b>TOTAL AMOUNT BID</b>				<b>\$1,214,000.00</b>		<b>\$1,241,456.60</b>		<b>\$1,336,986.15</b>	
<b>ALTERNATE BID</b>									
TOTAL AMOUNT BID				\$1,214,000.00		\$1,241,456.60		\$1,336,986.15	
SUBTOTAL ALTERNATE WATER ITEMS				\$57,000.00		\$58,800.00		\$51,200.00	
SUBTOTAL SANITARY SEWER ITEMS				\$22,000.00		\$35,400.00		\$19,650.00	
<b>TOTAL AMOUNT BID INCLUDING ALTERNATE WATER ITEMS AND SANITARY SEWER ITEMS</b>				<b>\$1,293,000.00</b>		<b>\$1,335,656.60</b>		<b>\$1,407,836.15</b>	

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ITEM DESCRIPTION	UNIT	QTY	4) PRINCIPAL SERVICES, LTD.		5) AR TURNKEE CONSTRUCTION CO., INC.		6) BLAZEY CONSTRUCTION SERVICES, LLC		
			UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	
<b>WATER ITEMS</b>									
1. 16" PVC WATER LINE, AWWA C-905, DR 18, CLASS 235, ALL DEPTHS, INCLUDING FITTINGS, COMPLETE IN PLACE	LF	3,150	\$42.00	\$132,300.00	\$52.75	\$166,162.50	\$55.00	\$173,250.00	
2. 12" PVC WATER LINE, AWWA C-900, DR 18, CLASS 235, ALL DEPTHS, INCLUDING FITTINGS, COMPLETE IN PLACE	LF	9,215	\$26.00	\$239,590.00	\$32.00	\$294,880.00	\$31.00	\$285,665.00	
3. 16" RESTRAINED JOINT PVC WATER LINE, AWWA C-900, DR 14, CLASS 305, ALL DEPTHS, INCLUDING ALL RESTRAINED JOINT FITTINGS, COMPLETE IN PLACE	LF	50	\$175.00	\$8,750.00	\$180.00	\$9,000.00	\$140.00	\$7,000.00	
4. 12" RESTRAINED JOINT PVC WATER LINE, AWWA C-900, DR 14, CLASS 305, ALL DEPTHS, INCLUDING ALL RESTRAINED JOINT FITTINGS, COMPLETE IN PLACE	LF	60	\$75.00	\$4,500.00	\$75.00	\$4,500.00	\$80.00	\$4,800.00	
5. 16" AWWA GATE VALVE AND BOX, COMPLETE IN PLACE	EA	6	\$6,900.00	\$41,400.00	\$6,100.00	\$36,600.00	\$5,800.00	\$34,800.00	
6. 12" AWWA GATE VALVE AND BOX, COMPLETE IN PLACE	EA	17	\$1,600.00	\$27,200.00	\$1,950.00	\$33,150.00	\$1,800.00	\$30,600.00	
7. 12" PLUG AND CLAMP, WITH 2" BLOW-OFF VALVE AND BOX, COMPLETE IN PLACE	EA	1	\$1,450.00	\$1,450.00	\$750.00	\$750.00	\$820.00	\$820.00	
8. FLUSHING VALVE UNIT, INCLUDES APPROPRIATE TEE, 6" GATE VALVE & BOX, LEAD AND FLUSHING VALVE, AND TRENCH SAFETY, COMPLETE IN PLACE	EA	36	\$3,200.00	\$115,200.00	\$3,300.00	\$118,800.00	\$3,100.00	\$111,600.00	
9. REMOVE EXISTING PLUG AND CLAMP WITH BLOW-OFF VALVE AND MAKE WET CONNECTION, ALL SIZES, COMPLETE IN PLACE	EA	3	\$350.00	\$1,050.00	\$900.00	\$2,700.00	\$380.00	\$1,140.00	
10. 24" PVC CASING FOR 16" PVC WATER LINE, AWWA C-905, DR 18, CLASS 235, INCLUDES FITTINGS, COMPLETE IN PLACE	LF	40	\$100.00	\$4,000.00	\$101.00	\$4,040.00	\$250.00	\$10,000.00	
11. 20" PVC CASING FOR 12" PVC PIPE WATER LINE, AWWA C-905, DR 18, CLASS 235, INCLUDES FITTINGS, COMPLETE IN PLACE	LF	137	\$85.00	\$11,645.00	\$81.00	\$11,097.00	\$180.00	\$24,660.00	
12. ADDITIONAL COST TO BORE AND JACK FOR 24" CASING PIPE, DOES NOT INCLUDE PIPE, COMPLETE IN PLACE	LF	40	\$220.00	\$8,800.00	\$80.00	\$3,200.00	\$175.00	\$7,000.00	
13. ADDITIONAL COST TO BORE AND JACK FOR 20" CASING PIPE, DOES NOT INCLUDE PIPE, COMPLETE IN PLACE	LF	137	\$173.00	\$23,701.00	\$65.00	\$8,905.00	\$150.00	\$20,550.00	
14. ADDITIONAL COST TO BORE AND JACK FOR 12" WATER LINE, DOES NOT INCLUDE PIPE, COMPLETE IN PLACE	LF	170	\$54.00	\$9,180.00	\$55.00	\$9,350.00	\$70.00	\$11,900.00	
15. TRENCH SAFETY, ALL DEPTHS, COMPLETE IN PLACE	LF	12,128	\$0.10	\$1,212.80	\$0.50	\$6,064.00	\$0.35	\$4,244.80	
<b>SUBTOTAL WATER ITEMS</b>				<b>\$629,978.80</b>		<b>\$709,198.50</b>		<b>\$728,029.80</b>	
<b>SANITARY SEWER ITEMS</b>									
1. 12" PVC SEWER PIPE, AWWA C-900, DR 18, CLASS 235, 16' - 20' CUT, COMPLETE IN PLACE	LF	936	\$57.00	\$53,352.00	\$53.00	\$49,608.00	\$107.00	\$100,152.00	
2. 10" PVC SEWER PIPE, ASTM D-2241, SDR 26, 8' - 12' CUT, COMPLETE IN PLACE	LF	654	\$27.00	\$17,658.00	\$30.00	\$19,620.00	\$35.00	\$22,890.00	
3. 10" PVC SEWER PIPE, AWWA C-900, DR 18, CLASS 235, 12' - 16' CUT, COMPLETE IN PLACE	LF	790	\$37.00	\$29,230.00	\$38.50	\$30,415.00	\$42.85	\$33,851.50	
4. 10" PVC SEWER PIPE, AWWA C-900, DR 18, CLASS 235, 16' - 20' CUT, COMPLETE IN PLACE	LF	172	\$53.00	\$9,116.00	\$45.50	\$7,826.00	\$100.00	\$17,200.00	
5. 8" PVC SEWER PIPE, ASTM D-2241, SDR 26, 0' - 8' CUT, COMPLETE IN PLACE	LF	691	\$26.00	\$17,966.00	\$24.75	\$17,102.25	\$22.60	\$15,616.60	
6. 8" PVC SEWER PIPE, ASTM D-2241, SDR 26, 8' - 12' CUT, COMPLETE IN PLACE	LF	2,060	\$27.00	\$55,620.00	\$26.50	\$54,590.00	\$32.00	\$65,920.00	
7. 8" PVC SEWER PIPE, AWWA C-900, DR 18, CLASS 235, 12' - 16' CUT, COMPLETE IN PLACE	LF	1,825	\$35.00	\$63,875.00	\$32.50	\$59,312.50	\$41.00	\$74,825.00	

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**LJA JOB NO.**

CONSTRUCTION OF THE WATER, SANITARY SEWER AND FORCEMAIN FACILITIES  
 TO SERVE NEW FOREST TOWN CENTER  
 HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 285  
 CITY OF HOUSTON E.T.J., HARRIS COUNTY, TEXAS  
 JANUARY 12, 2018  
 LJA ENGINEERING, INC.  
 C. DURHAM  
 JANUARY 12, 2018  
 2164-1501 (9.2)

ITEM	DESCRIPTION	UNIT	QTY	4) PRINCIPAL SERVICES, LTD.		5) AR TURNKEE CONSTRUCTION CO., INC.		6) BLAZEY CONSTRUCTION SERVICES, LLC	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
8.	8" PVC SEWER PIPE, AWWA C-900, DR 18, CLASS 235, 16' - 20' CUT, COMPLETE IN PLACE	LF	960	\$48.00	\$46,080.00	\$40.00	\$38,400.00	\$98.00	\$94,080.00 *
9.	6" PVC FORCE MAIN PIPE, AWWA C-900, DR 18, CLASS 235, ALL DETPHS, COMPLETE IN PLACE	LF	867	\$19.00	\$16,473.00	\$23.00	\$19,941.00	\$21.60	\$18,727.20
10.	6" RESTRAINED JOINT PVC FORCE MAIN PIPE, AWWA C-900, DR 14, CLASS 235, COMPLETE IN PLACE	LF	72	\$56.00	\$4,032.00	\$59.00	\$4,248.00	\$52.00	\$3,744.00
11.	PRECAST STANDARD SANITARY SEWER MANHOLE FOR 6" - 24" SANITARY SEWER PIPES, (0' - 8' DEPTH), INCLUDES STAINLESS STEEL INFLOW PROTECTOR AND ADJUSTMENTS, COMPLETE IN PLACE	EA	39	\$2,240.00	\$87,360.00	\$2,000.00	\$78,000.00	\$3,160.00	\$123,240.00
12.	EXTRA DEPTH FOR SANITARY SEWER MANHOLE, (GREATER THAN 8' DEPTH), COMPLETE IN PLACE	VF	294	\$155.00	\$45,570.00	\$120.00	\$35,280.00	\$110.00	\$32,340.00
13.	CONSTRUCT SANITARY SEWER MANHOLE ON EXISTING 12" SANITARY SEWER, ALL DEPTHS, COMPLETE IN PLACE	EA	1	\$3,500.00	\$3,500.00	\$3,000.00	\$3,000.00	\$1,900.00	\$1,900.00
14.	CORROSION RESISTANT MANHOLE FOR FORCE MAIN DISCHARGE, (0' - 8' DEPTH), INCLUDES STAINLESS STEEL INFLOW PROTECTORS AND ADJUSTMENTS, COMPLETE IN PLACE	EA	1	\$10,600.00	\$10,600.00	\$52,000.00	\$52,000.00	\$3,350.00	\$3,350.00
15.	AIR RELEASE VALVE AND MANHOLE FOR 6" FORCE MAIN, (0' - 8' DEPTH), COMPLETE IN PLACE	EA	1	\$5,150.00	\$5,150.00	\$6,000.00	\$6,000.00	\$4,950.00	\$4,950.00
16.	STANDARD 8" SANITARY SEWER DROP, (0' - 3' DEPTH), COMPLETE IN PLACE	EA	1	\$470.00	\$470.00	\$600.00	\$600.00	\$1,640.00	\$1,640.00
17.	EXTRA DEPTH FOR SANITARY SEWER DROP, COMPLETE IN PLACE	VF	5	\$50.00	\$250.00	\$50.00	\$250.00	\$45.00	\$225.00
18.	CORE INTO EXISTING MANHOLE AND CONNECT PROPOSED SANITARY SEWER, ALL DEPTHS, COMPLETE IN PLACE	EA	1	\$1,750.00	\$1,750.00	\$1,400.00	\$1,400.00	\$800.00	\$800.00
19.	ADDITIONAL COST TO BORE AND JACK 14" PVC CASING, DOES NOT INCLUDE PIPE, COMPLETE IN PLACE	LF	90	\$320.00	\$28,800.00	\$96.00	\$8,640.00	\$161.70	\$14,553.00 *
20.	ADDITIONAL COST TO BORE AND JACK 20" PVC CASING, DOES NOT INCLUDE PIPE, COMPLETE IN PLACE	LF	40	\$500.00	\$20,000.00	\$105.00	\$4,200.00	\$225.00	\$9,000.00
21.	ADDITIONAL COST TO BORE AND JACK 8" SANITARY SEWER, DOES NOT INCLUDE PIPE, COMPLETE IN PLACE	LF	227	\$97.00	\$22,019.00	\$61.00	\$13,847.00	\$55.00	\$12,485.00
22.	20" PVC CASING PIPE FOR 12" SANITARY SEWER, AWWA C-900, DR 18, CLASS 235, COMPLETE IN PLACE	LF	40	\$100.00	\$4,000.00	\$77.00	\$3,080.00	\$430.00	\$17,200.00
23.	14" PVC CASING PIPE FOR 8" SANITARY SEWER, AWWA C-900, DR 18, CLASS 235, COMPLETE IN PLACE	LF	90	\$60.00	\$5,400.00	\$67.00	\$6,030.00	\$102.00	\$9,180.00
24.	PLUG FOR 6" FORCE MAIN, COMPLETE IN PLACE	EA	1	\$300.00	\$300.00	\$450.00	\$450.00	\$265.00	\$265.00
25.	TRENCH SAFETY, ALL DEPTHS, COMPLETE IN PLACE	LF	8,637	\$0.10	\$863.70	\$0.50	\$4,318.50	\$0.35	\$3,022.95
<b>SUBTOTAL SANITARY SEWER ITEMS</b>					<b>\$549,434.70</b>		<b>\$518,158.25 *</b>		<b>\$681,157.25 *</b>
<b>STORM WATER POLLUTION PREVENTION ITEMS</b>									
1.	STORM WATER POLLUTION PREVENTION PLAN COMPLIANCE AND INSPECTIONS, INCLUDING STREET SWEEPING AND CONCRETE WASHOUT, COMPLETE IN PLACE	LS	1	\$650.00	\$650.00	\$1,200.00	\$1,200.00	\$600.00	\$600.00

\* MATHEMATICAL ERROR

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CONSTRUCTION OF THE WATER, SANITARY SEWER AND FORCEMAIN FACILITIES  
 TO SERVE NEW FOREST TOWN CENTER  
 HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 285  
 CITY OF HOUSTON E.T.J., HARRIS COUNTY, TEXAS  
 JANUARY 12, 2018  
 LJA ENGINEERING, INC.  
 C. DURHAM  
 JANUARY 12, 2018  
 2164-1501 (9.2)

ITEM	DESCRIPTION	UNIT	QTY	4) PRINCIPAL SERVICES, LTD.		5) AR TURNKEE CONSTRUCTION CO., INC.		6) BLAZEY CONSTRUCTION SERVICES, LLC	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
2.	CONSTRUCT, MAINTAIN, AND REMOVE, STABILIZED CONSTRUCTION EXIT, COMPLETE IN PLACE	EA	2	\$2,650.00	\$5,300.00	\$500.00	\$1,000.00	\$2,000.00	\$4,000.00
3.	STAGE II INLET PROTECTION BARRIERS, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	EA	10	\$100.00	\$1,000.00	\$70.00	\$700.00	\$45.00	\$450.00
4.	REINFORCED FILTER FABRIC, FENCE (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	LF	7,017	\$1.25	\$8,771.25	\$1.00	\$7,017.00	\$1.30	\$9,122.10
5.	HYDROMULCH SEEDING OF EASEMENTS ADJACENT TO BELTWAY FEEDER ROAD RIGHT OF WAY, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	AC	3	\$2,150.00	\$6,450.00	\$1,500.00	\$4,500.00	\$2,000.00	\$6,000.00
6.	BROADCAST SEED ALL DISTURBED AREA, FERTILIZING AND WATER, DOES NOT INCLUDE HYDROMULCHED AREAS, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	AC	8	\$650.00	\$5,200.00	\$900.00	\$7,200.00	\$650.00	\$5,200.00
<b>SUBTOTAL STORM WATER POLLUTION PREVENTION ITEMS</b>					<b>\$27,371.25</b>		<b>\$21,617.00</b>		<b>\$25,372.10</b>
<b>MISCELLANEOUS ITEMS</b>									
1.	WELL POINT SYSTEM FOR PIPE TRENCHES (TO BE USED ONLY AT THE WRITTEN DIRECTION OF THE ENGINEER), ALL DEPTHS, COMPLETE IN PLACE	LF	4,700	\$20.00	\$94,000.00	\$20.00	\$94,000.00	\$20.00	\$94,000.00
2.	WET SAND BEDDING FOR UNSTABLE SUBGRADE FOR SANITARY SEWER AS PER CITY OF HOUSTON DRAWING NO. 02317-01 (TO BE USED ONLY AT THE WRITTEN DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	LF	4,700	\$5.00	\$23,500.00	\$5.00	\$23,500.00	\$5.00	\$23,500.00
3.	CONE ADJUSTMENT TO EXISTING MANHOLE (TO BE USED ONLY AT THE WRITTEN DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	EA	1	\$700.00	\$700.00	\$350.00	\$350.00	\$350.00	\$350.00
4.	CRUSHED STONE SUPPORT FOR MANHOLE IN UNSTABLE SUBGRADE (TO BE USED ONLY AT THE WRITTEN DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	EA	1	\$300.00	\$300.00	\$50.00	\$50.00	\$50.00	\$50.00
5.	EXTRA CEMENT STABILIZED SAND (TO BE USED ONLY AT THE WRITTEN DIRECTION OF THE ENGINEER), ALL DEPTHS, COMPLETE IN PLACE	CY	100	\$20.00	\$2,000.00	\$20.00	\$2,000.00	\$20.00	\$2,000.00
6.	UTILITY SPOILS TO BE PLACED AND COMPACTED ON-SITE, COMPACTION TO 95% STANDARD PROCTOR DENSITY, COMPLETE IN PLACE	LS	1	\$29,060.00	\$29,060.00	\$7,700.00	\$7,700.00	\$1,200.00	\$1,200.00
7.	EXTRA DUCTILE IRON FITTING, COMPLETE IN PLACE	TON	1	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00
8.	CLEARING AND GRUBBING, INCLUDES ROOT RAKING, BACK DRAGGING, HAULING OF MATERIAL OFFSITE TO A DISPOSAL FACILITY, (TO BE USED ONLY AT THE DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	AC	1	\$5,500.00	\$5,500.00	\$5,500.00	\$5,500.00	\$5,500.00	\$5,500.00
9.	RESTORE DISTURBED AREAS NEAR UVALDE AND BURLESON BEND DRIVE TO ORIGINAL CONDITION, COMPLETE IN PLACE	LS	1	\$8,000.00	\$8,000.00	\$5,000.00	\$5,000.00	\$3,000.00	\$3,000.00
<b>SUBTOTAL MISCELLANEOUS ITEMS</b>					<b>\$164,560.00</b>		<b>\$139,600.00</b>		<b>\$131,100.00</b>
<b>ALTERNATE WATER ITEMS</b>									
1.	16" PVC WATER LINE, AWWA C-905, DR-18, CLASS 235, ALL DEPTHS, INCLUDES FITTINGS, COMPLETE IN PLACE	LF	200	\$56.00	\$11,200.00	\$55.00	\$11,000.00	\$205.00	\$41,000.00
2.	24" CASING FOR 16" WATER LINE, AWWA C-905, DR-18, CLASS 235, INCLUDES FITTINGS, COMPLETE IN PLACE	LF	200	\$100.00	\$20,000.00	\$101.00	\$20,200.00	\$230.00	\$46,000.00
3.	ADDITIONAL COST TO BORE AND JACK FOR 24" CASING PIPE, DOES NOT INCLUDE PIPE, COMPLETE IN PLACE	LF	200	\$204.00	\$40,800.00	\$95.00	\$19,000.00	\$700.00	\$140,000.00
<b>SUBTOTAL ALTERNATE WATER ITEMS</b>					<b>\$72,000.00</b>		<b>\$50,200.00</b>		<b>\$227,000.00</b>

\* MATHEMATICAL ERROR

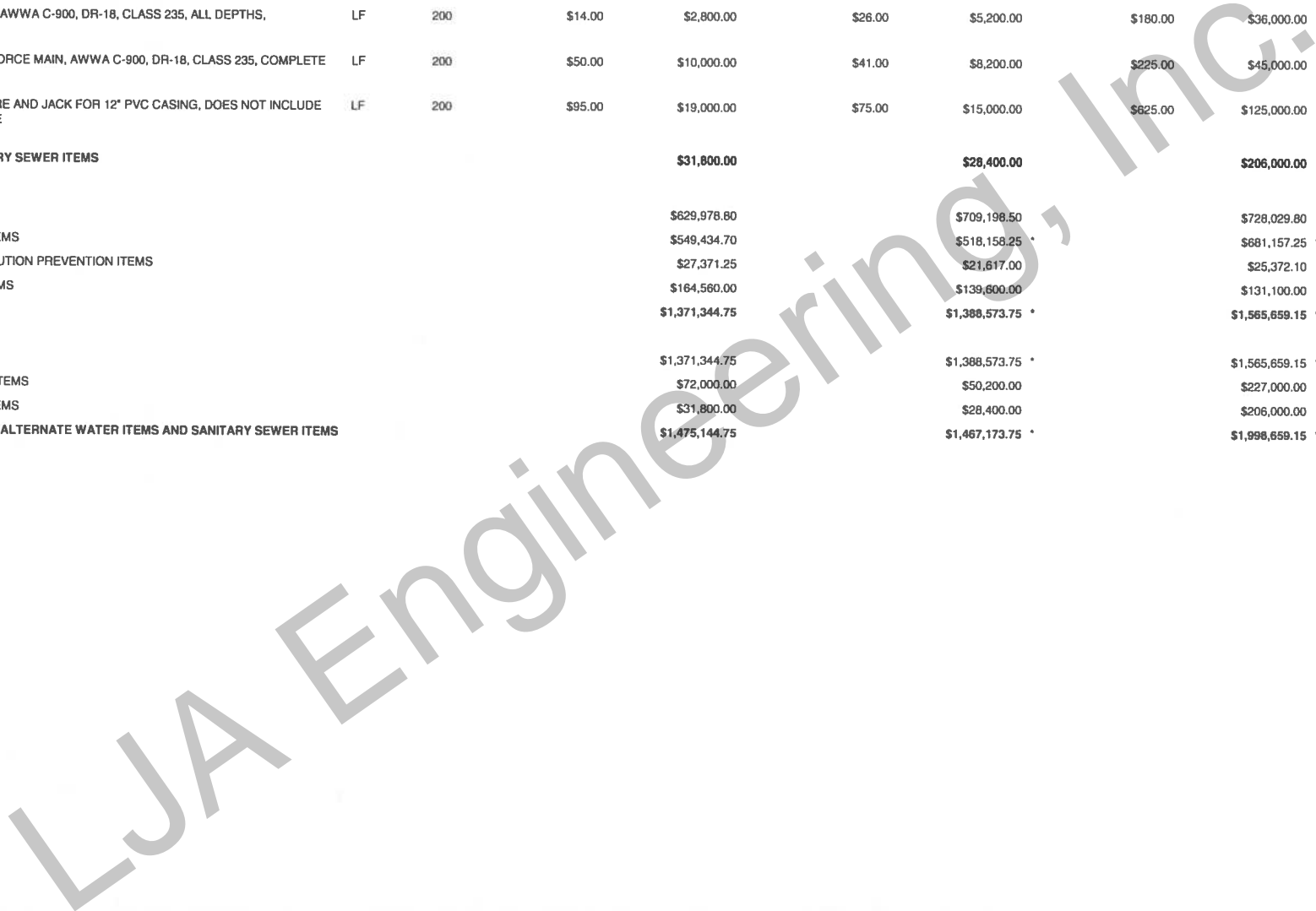


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CONSTRUCTION OF THE WATER, SANITARY SEWER AND FORCEMAIN FACILITIES  
 TO SERVE NEW FOREST TOWN CENTER  
 HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 285  
 CITY OF HOUSTON E.T.J., HARRIS COUNTY, TEXAS  
 JANUARY 12, 2018  
 LJA ENGINEERING, INC.  
 C. DURHAM  
 JANUARY 12, 2018  
 2164-1501 (9.2)

ITEM DESCRIPTION	UNIT	QTY	4) PRINCIPAL SERVICES, LTD.		5) AR TURNKEE CONSTRUCTION CO., INC.		6) BLAZEY CONSTRUCTION SERVICES, LLC		
			UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	
<b>ALTERNATE SANITARY SEWER ITEMS</b>									
1. 6" PVC FORCE MAIN PIPE, AWWA C-900, DR-18, CLASS 235, ALL DEPTHS, COMPLETE IN PLACE	LF	200	\$14.00	\$2,800.00	\$26.00	\$5,200.00	\$180.00	\$36,000.00	
2. 12" CASING PIPE FOR 6" FORCE MAIN, AWWA C-900, DR-18, CLASS 235, COMPLETE IN PLACE	LF	200	\$50.00	\$10,000.00	\$41.00	\$8,200.00	\$225.00	\$45,000.00	
3. ADDITIONAL COST TO BORE AND JACK FOR 12" PVC CASING, DOES NOT INCLUDE PIPE, COMPLETE IN PLACE	LF	200	\$95.00	\$19,000.00	\$75.00	\$15,000.00	\$625.00	\$125,000.00	
<b>SUBTOTAL ALTERNATE SANITARY SEWER ITEMS</b>				<b>\$31,800.00</b>		<b>\$28,400.00</b>		<b>\$206,000.00</b>	
<b>BID SUMMARY</b>									
SUBTOTAL WATER ITEMS				\$629,978.80		\$709,198.50		\$728,029.80	
SUBTOTAL SANITARY SEWER ITEMS				\$549,434.70		\$518,158.25 *		\$681,157.25 *	
SUBTOTAL STORM WATER POLLUTION PREVENTION ITEMS				\$27,371.25		\$21,617.00		\$25,372.10	
SUBTOTAL MISCELLANEOUS ITEMS				\$164,560.00		\$139,600.00		\$131,100.00	
<b>TOTAL AMOUNT BID</b>				<b>\$1,371,344.75</b>		<b>\$1,388,573.75 *</b>		<b>\$1,565,659.15 *</b>	
<b>ALTERNATE BID</b>									
TOTAL AMOUNT BID				\$1,371,344.75		\$1,388,573.75 *		\$1,565,659.15 *	
SUBTOTAL ALTERNATE WATER ITEMS				\$72,000.00		\$50,200.00		\$227,000.00	
SUBTOTAL SANITARY SEWER ITEMS				\$31,800.00		\$28,400.00		\$206,000.00	
<b>TOTAL AMOUNT BID INCLUDING ALTERNATE WATER ITEMS AND SANITARY SEWER ITEMS</b>				<b>\$1,475,144.75</b>		<b>\$1,467,173.75 *</b>		<b>\$1,998,659.15 *</b>	



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 TO SERVE NEW FOREST TOWN CENTER  
 HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 285  
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 JANUARY 12, 2018  
 LJA ENGINEERING, INC.  
 C. DURHAM  
 JANUARY 12, 2018  
 2164-1501 (9.2)

ITEM	DESCRIPTION	UNIT	QTY	7) TEXAS PRIDE UTILITIES, LLC		8) MMG CONTRACTORS, LLC	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
<b>WATER ITEMS</b>							
1.	16" PVC WATER LINE, AWWA C-905, DR 18, CLASS 235, ALL DEPTHS, INCLUDING FITTINGS, COMPLETE IN PLACE	LF	3,150	\$63.00	\$198,450.00	\$80.00	\$252,000.00
2.	12" PVC WATER LINE, AWWA C-900, DR 18, CLASS 235, ALL DEPTHS, INCLUDING FITTINGS, COMPLETE IN PLACE	LF	9,215	\$40.00	\$368,600.00	\$58.00	\$534,470.00
3.	16" RESTRAINED JOINT PVC WATER LINE, AWWA C-900, DR 14, CLASS 305, ALL DEPTHS, INCLUDING ALL RESTRAINED JOINT FITTINGS, COMPLETE IN PLACE	LF	50	\$170.00	\$8,500.00	\$222.00	\$11,100.00
4.	12" RESTRAINED JOINT PVC WATER LINE, AWWA C-900, DR 14, CLASS 305, ALL DEPTHS, INCLUDING ALL RESTRAINED JOINT FITTINGS, COMPLETE IN PLACE	LF	60	\$100.00	\$6,000.00	\$94.00	\$5,640.00
5.	16" AWWA GATE VALVE AND BOX, COMPLETE IN PLACE	EA	6	\$8,000.00	\$48,000.00	\$9,416.00	\$56,496.00
6.	12" AWWA GATE VALVE AND BOX, COMPLETE IN PLACE	EA	17	\$2,200.00	\$37,400.00	\$2,682.00	\$45,594.00
7.	12" PLUG AND CLAMP, WITH 2" BLOW-OFF VALVE AND BOX, COMPLETE IN PLACE	EA	1	\$2,000.00	\$2,000.00	\$2,138.00	\$2,138.00
8.	FLUSHING VALVE UNIT, INCLUDES APPROPRIATE TEE, 6" GATE VALVE & BOX, LEAD AND FLUSHING VALVE, AND TRENCH SAFETY, COMPLETE IN PLACE	EA	36	\$3,600.00	\$129,600.00	\$4,345.00	\$156,420.00
9.	REMOVE EXISTING PLUG AND CLAMP WITH BLOW-OFF VALVE AND MAKE WET CONNECTION, ALL SIZES, COMPLETE IN PLACE	EA	3	\$1,500.00	\$4,500.00	\$2,670.00	\$8,010.00
10.	24" PVC CASING FOR 16" PVC WATER LINE, AWWA C-905, DR 18, CLASS 235, INCLUDES FITTINGS, COMPLETE IN PLACE	LF	40	\$180.00	\$7,200.00	\$159.00	\$6,360.00
11.	20" PVC CASING FOR 12" PVC PIPE WATER LINE, AWWA C-905, DR 18, CLASS 235, INCLUDES FITTINGS, COMPLETE IN PLACE	LF	137	\$80.00	\$10,960.00	\$121.00	\$16,577.00
12.	ADDITIONAL COST TO BORE AND JACK FOR 24" CASING PIPE, DOES NOT INCLUDE PIPE, COMPLETE IN PLACE	LF	40	\$100.00	\$4,000.00	\$155.00	\$6,200.00
13.	ADDITIONAL COST TO BORE AND JACK FOR 20" CASING PIPE, DOES NOT INCLUDE PIPE, COMPLETE IN PLACE	LF	137	\$80.00	\$10,960.00	\$113.00	\$15,481.00
14.	ADDITIONAL COST TO BORE AND JACK FOR 12" WATER LINE, DOES NOT INCLUDE PIPE, COMPLETE IN PLACE	LF	170	\$40.00	\$6,800.00	\$67.00	\$11,390.00
15.	TRENCH SAFETY, ALL DEPTHS, COMPLETE IN PLACE	LF	12,128	\$1.00	\$12,128.00	\$1.00	\$12,128.00
<b>SUBTOTAL WATER ITEMS</b>					<b>\$855,098.00</b>		<b>\$1,140,004.00</b>
<b>SANITARY SEWER ITEMS</b>							
1.	12" PVC SEWER PIPE, AWWA C-900, DR 18, CLASS 235, 16' - 20' CUT, COMPLETE IN PLACE	LF	936	\$54.00	\$50,544.00	\$98.00	\$91,728.00
2.	10" PVC SEWER PIPE, ASTM D-2241, SDR 26, 8' - 12' CUT, COMPLETE IN PLACE	LF	654	\$36.00	\$23,544.00	\$68.00	\$44,472.00
3.	10" PVC SEWER PIPE, AWWA C-900, DR 18, CLASS 235, 12' - 16' CUT, COMPLETE IN PLACE	LF	790	\$44.00	\$34,760.00	\$78.00	\$61,620.00
4.	10" PVC SEWER PIPE, AWWA C-900, DR 18, CLASS 235, 16' - 20' CUT, COMPLETE IN PLACE	LF	172	\$52.00	\$8,944.00	\$94.00	\$16,168.00
5.	8" PVC SEWER PIPE, ASTM D-2241, SDR 26, 0' - 8' CUT, COMPLETE IN PLACE	LF	691	\$36.00	\$24,876.00	\$65.00	\$44,915.00
6.	8" PVC SEWER PIPE, ASTM D-2241, SDR 26, 8' - 12' CUT, COMPLETE IN PLACE	LF	2,060	\$38.00	\$78,280.00	\$69.00	\$142,140.00
7.	8" PVC SEWER PIPE, AWWA C-900, DR 18, CLASS 235, 12' - 16' CUT, COMPLETE IN PLACE	LF	1,825	\$42.00	\$76,650.00	\$73.00	\$133,225.00

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**LJA JOB NO.**

CONSTRUCTION OF THE WATER, SANITARY SEWER AND FORCEMAIN FACILITIES  
 TO SERVE NEW FOREST TOWN CENTER  
 HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 285  
 CITY OF HOUSTON E.T.J., HARRIS COUNTY, TEXAS  
 JANUARY 12, 2018  
 LJA ENGINEERING, INC.  
 C. DURHAM  
 JANUARY 12, 2018  
 2164-1501 (9.2)

ITEM	DESCRIPTION	UNIT	QTY	7) TEXAS PRIDE UTILITIES, LLC		8) MMG CONTRACTORS, LLC	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
8.	8" PVC SEWER PIPE, AWWA C-900, DR 18, CLASS 235, 16' - 20' CUT, COMPLETE IN PLACE	LF	960	\$48.00	\$46,080.00	\$89.00	\$85,440.00
9.	6" PVC FORCE MAIN PIPE, AWWA C-900, DR 18, CLASS 235, ALL DETPHS, COMPLETE IN PLACE	LF	867	\$50.00	\$43,350.00	\$38.00	\$32,946.00
10.	6" RESTRAINED JOINT PVC FORCE MAIN PIPE, AWWA C-900, DR 14, CLASS 235, COMPLETE IN PLACE	LF	72	\$70.00	\$5,040.00	\$75.00	\$5,400.00
11.	PRECAST STANDARD SANITARY SEWER MANHOLE FOR 6" - 24" SANITARY SEWER PIPES, (0' - 8' DEPTH), INCLUDES STAINLESS STEEL INFLOW PROTECTOR AND ADJUSTMENTS, COMPLETE IN PLACE	EA	39	\$3,400.00	\$132,600.00	\$4,713.00	\$183,807.00
12.	EXTRA DEPTH FOR SANITARY SEWER MANHOLE, (GREATER THAN 8' DEPTH), COMPLETE IN PLACE	VF	294	\$500.00	\$147,000.00	\$254.00	\$74,676.00
13.	CONSTRUCT SANITARY SEWER MANHOLE ON EXISTING 12" SANITARY SEWER, ALL DEPTHS, COMPLETE IN PLACE	EA	1	\$12,000.00	\$12,000.00	\$7,020.00	\$7,020.00
14.	CORROSION RESISTANT MANHOLE FOR FORCE MAIN DISCHARGE, (0' - 8' DEPTH), INCLUDES STAINLESS STEEL INFLOW PROTECTORS AND ADJUSTMENTS, COMPLETE IN PLACE	EA	1	\$10,000.00	\$10,000.00	\$13,520.00	\$13,520.00
15.	AIR RELEASE VALVE AND MANHOLE FOR 6" FORCE MAIN, (0' -8' DEPTH), COMPLETE IN PLACE	EA	1	\$9,500.00	\$9,500.00	\$10,140.00	\$10,140.00
16.	STANDARD 8" SANITARY SEWER DROP, (0' - 3' DEPTH), COMPLETE IN PLACE	EA	1	\$1,000.00	\$1,000.00	\$2,912.00	\$2,912.00
17.	EXTRA DEPTH FOR SANITARY SEWER DROP, COMPLETE IN PLACE	VF	5	\$200.00	\$1,000.00	\$196.00	\$980.00
18.	CORE INTO EXISTING MANHOLE AND CONNECT PROPOSED SANITARY SEWER, ALL DEPTHS, COMPLETE IN PLACE	EA	1	\$1,800.00	\$1,800.00	\$6,045.00	\$6,045.00
19.	ADDITIONAL COST TO BORE AND JACK 14" PVC CASING, DOES NOT INCLUDE PIPE, COMPLETE IN PLACE	LF	90	\$40.00	\$3,600.00	\$56.00	\$5,040.00
20.	ADDITIONAL COST TO BORE AND JACK 20" PVC CASING, DOES NOT INCLUDE PIPE, COMPLETE IN PLACE	LF	40	\$100.00	\$4,000.00	\$81.00	\$3,240.00
21.	ADDITIONAL COST TO BORE AND JACK 8" SANITARY SEWER, DOES NOT INCLUDE PIPE, COMPLETE IN PLACE	LF	227	\$28.00	\$6,356.00	\$44.00	\$9,988.00
22.	20" PVC CASING PIPE FOR 12" SANITARY SEWER, AWWA C-900, DR 18, CLASS 235, COMPLETE IN PLACE	LF	40	\$120.00	\$4,800.00	\$135.00	\$5,400.00
23.	14" PVC CASING PIPE FOR 8" SANITARY SEWER, AWWA C-900, DR 18, CLASS 235, COMPLETE IN PLACE	LF	90	\$92.00	\$8,280.00	\$125.00	\$11,250.00
24.	PLUG FOR 6" FORCE MAIN, COMPLETE IN PLACE	EA	1	\$1,000.00	\$1,000.00	\$654.00	\$654.00
25.	TRENCH SAFETY, ALL DEPTHS, COMPLETE IN PLACE	LF	8,637	\$1.00	\$8,637.00	\$1.00	\$8,637.00
<b>SUBTOTAL SANITARY SEWER ITEMS</b>					<b>\$743,641.00</b>		<b>\$1,001,363.00</b>
<b>STORM WATER POLLUTION PREVENTION ITEMS</b>							
1.	STORM WATER POLLUTION PREVENTION PLAN COMPLIANCE AND INSPECTIONS, INCLUDING STREET SWEEPING AND CONCRETE WASHOUT, COMPLETE IN PLACE	LS	1	\$3,000.00	\$3,000.00	\$2,500.00	\$2,500.00

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 TO SERVE NEW FOREST TOWN CENTER  
 HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 285  
 CITY OF HOUSTON E.T.J., HARRIS COUNTY, TEXAS  
 JANUARY 12, 2018  
 LJA ENGINEERING, INC.  
 C. DURHAM  
 JANUARY 12, 2018  
 2164-1501 (9.2)

ITEM	DESCRIPTION	UNIT	QTY	7) TEXAS PRIDE UTILITIES, LLC		8) MMG CONTRACTORS, LLC	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
2.	CONSTRUCT, MAINTAIN, AND REMOVE, STABILIZED CONSTRUCTION EXIT, COMPLETE IN PLACE	EA	2	\$500.00	\$1,000.00	\$2,500.00	\$5,000.00
3.	STAGE II INLET PROTECTION BARRIERS, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	EA	10	\$5.00	\$50.00	\$10.00	\$100.00
4.	REINFORCED FILTER FABRIC, FENCE (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	LF	7,017	\$1.50	\$10,525.50	\$1.00	\$7,017.00
5.	HYDROMULCH SEEDING OF EASEMENTS ADJACENT TO BELTWAY FEEDER ROAD RIGHT OF WAY, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	AC	3	\$2,500.00	\$7,500.00	\$1,800.00	\$5,400.00
6.	BROADCAST SEED ALL DISTURBED AREA, FERTILIZING AND WATER, DOES NOT INCLUDE HYDROMULCHED AREAS, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	AC	8	\$1,000.00	\$8,000.00	\$200.00	\$1,600.00
<b>SUBTOTAL STORM WATER POLLUTION PREVENTION ITEMS</b>					<b>\$30,075.50</b>		<b>\$21,617.00</b>
<b>MISCELLANEOUS ITEMS</b>							
1.	WELL POINT SYSTEM FOR PIPE TRENCHES (TO BE USED ONLY AT THE WRITTEN DIRECTION OF THE ENGINEER), ALL DEPTHS, COMPLETE IN PLACE	LF	4,700	\$20.00	\$94,000.00	\$20.00	\$94,000.00
2.	WET SAND BEDDING FOR UNSTABLE SUBGRADE FOR SANITARY SEWER AS PER CITY OF HOUSTON DRAWING NO. 02317-01 (TO BE USED ONLY AT THE WRITTEN DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	LF	4,700	\$5.00	\$23,500.00	\$5.00	\$23,500.00
3.	CONE ADJUSTMENT TO EXISTING MANHOLE (TO BE USED ONLY AT THE WRITTEN DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	EA	1	\$350.00	\$350.00	\$350.00	\$350.00
4.	CRUSHED STONE SUPPORT FOR MANHOLE IN UNSTABLE SUBGRADE (TO BE USED ONLY AT THE WRITTEN DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	EA	1	\$50.00	\$50.00	\$50.00	\$50.00
5.	EXTRA CEMENT STABILIZED SAND (TO BE USED ONLY AT THE WRITTEN DIRECTION OF THE ENGINEER), ALL DEPTHS, COMPLETE IN PLACE	CY	100	\$20.00	\$2,000.00	\$20.00	\$2,000.00
6.	UTILITY SPOILS TO BE PLACED AND COMPACTED ON-SITE, COMPACTION TO 95% STANDARD PROCTOR DENSITY, COMPLETE IN PLACE	LS	1	\$10,000.00	\$10,000.00	\$20,000.00	\$20,000.00
7.	EXTRA DUCTILE IRON FITTING, COMPLETE IN PLACE	TON	1	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00
8.	CLEARING AND GRUBBING, INCLUDES ROOT RAKING, BACK DRAGGING, HAULING OF MATERIAL OFFSITE TO A DISPOSAL FACILITY, (TO BE USED ONLY AT THE DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	AC	1	\$5,500.00	\$5,500.00	\$5,500.00	\$5,500.00
9.	RESTORE DISTURBED AREAS NEAR UVALDE AND BURLESON BEND DRIVE TO ORIGINAL CONDITION, COMPLETE IN PLACE	LS	1	\$5,000.00	\$5,000.00	\$7,500.00	\$7,500.00
<b>SUBTOTAL MISCELLANEOUS ITEMS</b>					<b>\$141,900.00</b>		<b>\$154,400.00</b>
<b>ALTERNATE WATER ITEMS</b>							
1.	16" PVC WATER LINE, AWWA C-905, DR-18, CLASS 235, ALL DEPTHS, INCLUDES FITTINGS, COMPLETE IN PLACE	LF	200	\$63.00	\$12,600.00	\$90.00	\$18,000.00
2.	24" CASING FOR 16" WATER LINE, AWWA C-905, DR-18, CLASS 235, INCLUDES FITTINGS, COMPLETE IN PLACE	LF	200	\$120.00	\$24,000.00	\$162.00	\$32,400.00
3.	ADDITIONAL COST TO BORE AND JACK FOR 24" CASING PIPE, DOES NOT INCLUDE PIPE, COMPLETE IN PLACE	LF	200	\$120.00	\$24,000.00	\$163.00	\$32,600.00
<b>SUBTOTAL ALTERNATE WATER ITEMS</b>					<b>\$60,600.00</b>		<b>\$83,000.00</b>

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ITEM DESCRIPTION	UNIT	QTY	7) TEXAS PRIDE UTILITIES, LLC		8) MMG CONTRACTORS, LLC		
			UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	
<b>ALTERNATE SANITARY SEWER ITEMS</b>							
1. 6" PVC FORCE MAIN PIPE, AWWA C-900, DR-18, CLASS 235, ALL DEPTHS, COMPLETE IN PLACE	LF	200	\$42.00	\$8,400.00	\$54.00	\$10,800.00	
2. 12" CASING PIPE FOR 6" FORCE MAIN, AWWA C-900, DR-18, CLASS 235, COMPLETE IN PLACE	LF	200	\$52.00	\$10,400.00	\$79.00	\$15,800.00	
3. ADDITIONAL COST TO BORE AND JACK FOR 12" PVC CASING, DOES NOT INCLUDE PIPE, COMPLETE IN PLACE	LF	200	\$52.00	\$10,400.00	\$116.00	\$23,200.00	
<b>SUBTOTAL ALTERNATE SANITARY SEWER ITEMS</b>				<b>\$29,200.00</b>	<b>\$49,800.00</b>		
<b>BID SUMMARY</b>							
SUBTOTAL WATER ITEMS				\$855,098.00	\$1,140,004.00		
SUBTOTAL SANITARY SEWER ITEMS				\$743,641.00	\$1,001,363.00		
SUBTOTAL STORM WATER POLLUTION PREVENTION ITEMS				\$30,075.50	\$21,617.00		
SUBTOTAL MISCELLANEOUS ITEMS				\$141,900.00	\$154,400.00		
<b>TOTAL AMOUNT BID</b>				<b>\$1,770,714.50</b>	<b>\$2,317,384.00</b>		
<b>ALTERNATE BID</b>							
TOTAL AMOUNT BID				\$1,770,714.50	\$2,317,384.00		
SUBTOTAL ALTERNATE WATER ITEMS				\$60,600.00	\$83,000.00		
SUBTOTAL SANITARY SEWER ITEMS				\$29,200.00	\$49,800.00		
<b>TOTAL AMOUNT BID INCLUDING ALTERNATE WATER ITEMS AND SANITARY SEWER ITEMS</b>				<b>\$1,860,514.50</b>	<b>\$2,450,184.00</b>		

LJA Engineering, Inc.