

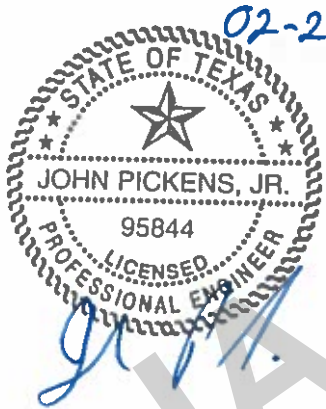
BID TABULATION FOR:

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LJA JOB NO.

CONSTRUCTION OF THE WATER, SANITARY SEWER AND DRAINAGE FACILITIES
TO SERVE PECAN ESTATES SECTION 1
CROSBY MUNICIPAL UTILITY DISTRICT
CITY OF HOUSTON E.T.J., HARRIS COUNTY, TEXAS
FEBRUARY 22, 2019
LJA ENGINEERING, INC.
C. DURHAM
FEBRUARY 22, 2019
2435-0112D (9.2)

BIDDER'S NAME	TOTAL BID AMOUNT
1) FELLERS & CLARK, L.P.	\$2,365,000.00
2) SENDERO INDUSTRIES, LLC	\$2,449,721.23
3) R CONSTRUCTION CIVIL, LLC DBA R CONSTRUCTION COMPANY	\$2,579,445.55
4) CROSTEX CONSTRUCTION, INC.	\$2,750,000.00
5) PRINCIPAL SERVICES, LTD.	\$2,730,155.30
6) BAY UTILITIES, LLC	\$2,816,373.00
7) REDDICO CONSTRUCTION CO., INC.	\$2,915,713.78

CALENDAR DAYS - 75/90



I, John Pickens, Jr., P.E., hereby certify these bid tabulations to be true and correct.

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			UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	
WATER ITEMS									
1. 6" PVC WATER LINE, AWWA C-900, DR 14, CLASS 305, INCLUDES ALL FITTINGS AND VALVES, COMPLETE IN PLACE	LF	751	\$18.90	\$14,193.90	\$16.00	\$12,016.00	\$18.00	\$13,518.00	
2. 8" PVC WATER LINE, AWWA C-900, DR 18, CLASS 235, INCLUDES ALL FITTINGS, COMPLETE IN PLACE	LF	2,497	\$18.90	\$47,193.30	\$18.00	\$44,946.00	\$21.00	\$52,437.00	
3. 12" PVC WATER LINE, AWWA C-900, DR 18, CLASS 235, INCLUDES ALL FITTINGS, COMPLETE IN PLACE	LF	2,795	\$27.35	\$76,443.25	\$28.00	\$78,260.00	\$30.00	\$83,850.00	
4. 8" GATE VALVE BOX, AND ADJUSTMENTS AS NECESSARY, ALL DEPTHS, COMPLETE IN PLACE	EA	10	\$1,130.00	\$11,300.00	\$1,102.00	\$11,020.00	\$1,100.00	\$11,000.00	
5. 12" GATE VALVE BOX, AND ADJUSTMENTS AS NECESSARY, ALL DEPTHS, COMPLETE IN PLACE	EA	11	\$2,130.00	\$23,430.00	\$2,068.00	\$22,748.00	\$2,100.00	\$23,100.00	
6. PLUG AND CLAMP (ALL SIZES), 2" BLOW-OFF VALVE, COMPLETE IN PLACE	EA	9	\$435.00	\$3,915.00	\$820.00	\$7,380.00	\$900.00	\$8,100.00	
7. AUGER FOR PROPOSED 20" STEEL CASING (DOES NOT INCLUDE CARRIER PIPE), INCLUDING BORE PITS, ALL DEPTHS, COMPLETE IN PLACE	LF	165	\$118.70	\$19,585.50	\$46.00	\$7,590.00	\$70.00	\$11,550.00	
8. 20" STEEL CASING FOR 12" WATER LINE, COMPLETE IN PLACE	LF	165	\$0.01	\$1.65	\$82.00	\$13,530.00	\$75.00	\$12,375.00	
9. FLUSHING VALVE UNIT, ALL DEPTHS, INCLUDES ADJUSTMENTS AS NECESSARY, APPROPRIATE TEE, 6" GATE VALVE & BOX, TRENCH SAFETY, LEAD AND FLUSHING VALVE, COMPLETE IN PLACE	EA	24	\$4,070.00	\$97,680.00	\$3,782.00	\$90,768.00	\$4,200.00	\$100,800.00	
10. 6" RESTRAINED JOINT PVC WATER LINE, AWWA, C-900, DR 18, ALL DEPTHS, INCLUDES ALL FITTINGS AND ALL RESTRAINED JOINTS FOR PIPE JOINTS, COMPLETE IN PLACE	LF	59	\$21.95	\$1,295.05	\$25.00	\$1,475.00	\$30.00	\$1,770.00	
11. 8" RESTRAINED JOINT PVC WATER LINE, AWWA, C-900, DR 18, ALL DEPTHS, INCLUDES ALL FITTINGS AND ALL RESTRAINED JOINTS FOR PIPE JOINTS, COMPLETE IN PLACE	LF	679	\$28.50	\$19,351.50	\$25.00	\$16,975.00	\$32.00	\$21,728.00	
12. 12" RESTRAINED JOINT PVC WATER LINE, AWWA, C-900, DR 18, ALL DEPTHS, INCLUDES ALL FITTINGS AND ALL RESTRAINED JOINTS FOR PIPE JOINTS, COMPLETE IN PLACE	LF	1,660	\$43.65	\$72,459.00	\$43.00	\$71,380.00	\$45.00	\$74,700.00	
13. TRENCH SAFETY SYSTEM, ALL DEPTHS, COMPLETE IN PLACE	LF	8,441	\$0.10	\$844.10	\$0.01	\$84.41	\$0.10	\$844.10	
14. 8" RESTRAINED JOINT PVC WATER LINE, AWWA C-900, DR 14, ALL DEPTHS, INCLUDES ALL RESTRAINED JOINTS FOR PIPE JOINTS AND FITTINGS AND ALL APPURTENANCES, COMPLETE IN PLACE	LF	13	\$58.30	\$757.90	\$56.00	\$728.00	\$60.00	\$780.00	
SUBTOTAL WATER ITEMS				\$388,450.15		\$378,900.41		\$416,552.10	
SANITARY SEWER ITEMS									
1. 8" PVC SEWER PIPE, ASTM D-2241, SDR 26, 0 - 12 FOOT CUT, WITH STANDARD BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	2,410	\$42.30	\$101,943.00	\$25.00	\$60,250.00	\$28.00	\$67,480.00	
2. 8" PVC SEWER PIPE, ASTM D-2241, SDR 26, 12 - 18 FOOT CUT, WITH STANDARD BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	2,532	\$42.30	\$107,103.60	\$30.00	\$75,960.00	\$30.00	\$75,960.00	
3. 10" PVC SEWER PIPE, ASTM D-2241 (OVER 16), ASTM D-2241, SDR 26, ALL CLASSES, COMPLETE IN PLACE	LS	430	\$58.80	\$25,284.00	\$55.00	\$23,650.00	\$60.00	\$25,800.00	
4. LONG SIDE DOUBLE OR SINGLE 6" PVC PIPE SERVICE LEADS, ASTM D2241, SDR 26, ALL DEPTHS, INCLUDING CEMENT STABILIZED BACKFILL, RISER, WYE, PLUG, MARKER, AND ANY NECESSARY FITTINGS, ETC., COMPLETE IN PLACE	LF	2,329	\$35.25	\$82,097.25	\$29.00	\$67,541.00	\$50.00	\$116,450.00	

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ITEM	DESCRIPTION	UNIT	QTY	1) FELLERS & CLARK, L.P.		2) SENDERO INDUSTRIES, LLC		3) R CONSTRUCTION CIVIL, LLC DBA R CONSTRUCTION COMPANY	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
5.	SHORT SIDE DOUBLE OR SINGLE 6" PVC PIPE SERVICE LEADS, ASTM D2241, SDR 26, ALL DEPTHS, INCLUDING CEMENT STABILIZED BACKFILL, RISER, WYE, PLUG, MARKER, AND ANY NECESSARY FITTINGS, ETC., COMPLETE IN PLACE	EA	42	\$825.00	\$34,650.00	\$731.00	\$30,702.00	\$850.00	\$35,700.00
6.	STANDARD SANITARY SEWER MANHOLE FOR 6" - 24" SANITARY SEWER PIPES, (8' DEPTH), COMPLETE IN PLACE	EA	38	\$1,930.00	\$73,340.00	\$2,068.00	\$78,584.00	\$3,000.00	\$114,000.00
7.	EXTRA DEPTH OF SANITARY SEWER MANHOLE, OVER 8' DEPTH, COMPLETE IN PLACE	VF	173	\$114.35	\$19,782.55	\$125.00	\$21,625.00	\$150.00	\$25,950.00
8.	STANDARD SANITARY SEWER M.H. DROP STRUCTURE (0-2'), COMPLETE IN PLACE	EA	2	\$545.00	\$1,090.00	\$341.00	\$682.00	\$600.00	\$1,200.00
9.	EXTRA DEPTH OF SANITARY SEWER M.H. DROP STRUCTURE (OVER 2'), COMPLETE IN PLACE	VF	6	\$21.80	\$130.80	\$5.00	\$30.00	\$25.00	\$150.00
10.	LONG SIDE DOUBLE OR SINGLE 8" PVC PIPE SERVICE LEADS ASTM D2241, SDR 26, ALL DEPTHS, INCLUDING CEMENT STABILIZED BACKFILL, RISER, WYE, PLUG, MARKER, AND ANY NECESSARY FITTINGS, ETC., COMPLETE IN PLACE	LF	111	\$31.25	\$3,468.75	\$30.00	\$3,330.00	\$55.00	\$6,105.00
11.	STANDARD 6" SANITARY SEWER STACK, (ALL DEPTHS), COMPLETE IN PLACE	EA	42	\$135.00	\$5,670.00	\$146.00	\$6,132.00	\$500.00	\$21,000.00
12.	SANITARY SEWER PLUG (ALL DEPTHS AND SIZES), COMPLETE IN PLACE	EA	4	\$35.00	\$140.00	\$54.00	\$216.00	\$100.00	\$400.00
13.	TRENCH SAFETY SYSTEM, ALL DEPTHS, COMPLETE IN PLACE	LF	5,372	\$0.10	\$537.20	\$0.01	\$53.72	\$0.10	\$537.20
SUBTOTAL SANITARY SEWER ITEMS					\$455,237.15		\$368,755.72		\$490,732.20
STORM SEWER SYSTEM ITEMS									
1.	24" RCP STORM SEWER, ASTM C-76, CLASS III, ALL DEPTHS, COMPLETE IN PLACE	LF	2,468	\$54.35	\$134,135.80	\$66.00	\$162,888.00	\$59.00	\$145,612.00
2.	30" RCP STORM SEWER, ASTM C-76, CLASS III, ALL DEPTHS, COMPLETE IN PLACE	LF	1,932	\$61.30	\$118,431.60	\$83.00	\$160,356.00	\$76.00	\$146,832.00
3.	36" RCP STORM SEWER, ASTM C-76, CLASS III, ALL DEPTHS, COMPLETE IN PLACE	LF	239	\$84.80	\$20,267.20	\$111.00	\$26,529.00	\$100.00	\$23,900.00
4.	42" RCP STORM SEWER, ASTM C-76, CLASS III, ALL DEPTHS, COMPLETE IN PLACE	LF	1,103	\$109.05	\$120,282.15	\$139.00	\$153,317.00	\$128.00	\$141,184.00
5.	60" RCP STORM SEWER, ASTM C-76, CLASS III, ALL DEPTHS, COMPLETE IN PLACE	LF	244	\$220.80	\$53,875.20	\$290.00	\$70,760.00	\$264.00	\$64,416.00
6.	84" RCP STORM SEWER, ASTM C-76, CLASS III, ALL DEPTHS, COMPLETE IN PLACE	LF	717	\$422.85	\$303,183.45	\$517.00	\$370,689.00	\$495.00	\$354,915.00
7.	5' X 5' R.C.B. STORM SEWER BOX, ASTM C-1433, ALL DEPTHS, COMPLETE IN PLACE	LF	144	\$407.30	\$58,651.20	\$361.00	\$51,984.00	\$345.00	\$49,680.00
8.	STAGE I - STANDARD 5' REINFORCED CONCRETE PRECAST INLET (1'-2") ALL DEPTHS, INCLUDES INLET PROTECTION BARRIER FOR STAGE I INLET, COMPLETE IN PLACE	EA	26	\$760.00	\$19,760.00	\$1,804.00	\$46,904.00	\$990.00	\$25,740.00
9.	STAGE II - STANDARD 5' REINFORCED CONCRETE PRECAST OR REINFORCED CONCRETE CAST-IN-PLACE (4,000 PSI) INLET (1'-2"), COMPLETE IN PLACE	EA	26	\$1,255.00	\$32,630.00	\$718.00	\$18,668.00	\$1,350.00	\$35,100.00
10.	STAGE I - STANDARD PRECAST INLET TYPE "C-1," ALL DEPTHS, (INCLUDES INLET PROTECTION BARRIER FOR STAGE I INLETS), COMPLETE IN PLACE	EA	14	\$785.00	\$10,990.00	\$1,478.00	\$20,692.00	\$900.00	\$12,600.00

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				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
11.	STAGE II - STANDARD PRECAST INLET TYPE "C-1," (INCLUDES TEMPORARY SAND - FILLED BURLAP BAGS FOR EROSION AND SEDIMENT CONTROL), COMPLETE IN PLACE	EA	10	\$1,580.00	\$15,800.00	\$718.00	\$7,180.00	\$1,700.00	\$17,000.00
12.	TYPE "C" PRECAST OR CAST-IN-PLACE MANHOLE FOR 42" STORM SEWERS AND SMALLER, ALL DEPTHS, COMPLETE IN PLACE	EA	33	\$1,950.00	\$64,350.00	\$2,194.00	\$72,402.00	\$1,900.00	\$62,700.00
13.	TYPE "C" PRECAST OR CAST-IN-PLACE MANHOLE FOR 48" STORM SEWERS AND LARGER, ALL DEPTHS, COMPLETE IN PLACE	EA	2	\$3,985.00	\$7,970.00	\$3,525.00	\$7,050.00	\$5,000.00	\$10,000.00
14.	JUNCTION BOX, WITH MANHOLE TOP FOR BOX CULVERT STORM SEWER, ALL DEPTHS, COMPLETE IN PLACE	EA	3	\$7,685.00	\$23,055.00	\$6,904.00	\$20,712.00	\$6,800.00	\$20,400.00
15.	TYPE "C" PRECAST OR CAST-IN-PLACE MANHOLE FOR 78" STORM SEWERS AND LARGER, ALL DEPTHS, COMPLETE IN PLACE	EA	2	\$10,610.00	\$21,220.00	\$6,932.00	\$13,864.00	\$10,000.00	\$20,000.00
16.	TYPE "C" CAST-IN-PLACE MANHOLE #49, TO BUILD ON EXISTING 84" STORM SEWER, COMPLETE IN PLACE	EA	1	\$10,610.00	\$10,610.00	\$8,765.00	\$8,765.00	\$12,000.00	\$12,000.00
17.	TYPE "C" PRECAST OR CAST-IN-PLACE MANHOLE FOR 42" STORM SEWER AND SMALLER WITH TYPE "E" INLET TOP, COMPLETE IN PLACE	EA	3	\$2,290.00	\$6,870.00	\$2,451.00	\$7,353.00	\$2,200.00	\$6,600.00
18.	5' X 5' RCB STORM SEWER OUTFALL STRUCTURE, INCLUDING APPROX. 170 SY OF RIP RAP (18" THICKNESS), GRADATION NO. 1, INCLUDING GEOTEXTILE FABRIC, ("MIRAFI-600" OR APPROVED EQUAL), COMPLETE IN PLACE	LS	1	\$12,025.00	\$12,025.00	\$14,657.00	\$14,657.00	\$13,000.00	\$13,000.00
19.	84" RCP STORM SEWER OUTFALL STRUCTURE, INCLUDING APPROX. 280 SY OF RIP RAP (18" THICKNESS), GRADATION NO. 1, INCLUDING GEOTEXTILE FABRIC, ("MIRAFI-600" OR APPROVED EQUAL), COMPLETE IN PLACE	LS	1	\$19,805.00	\$19,805.00	\$24,140.00	\$24,140.00	\$22,000.00	\$22,000.00
20.	PROPOSED RELOCATED DRAINAGE DITCH WITH 3:1 SIDE SLOPES, 10' BOTTOM WIDTH, DIRT MATERIAL EXCAVATED WILL BE USED TO FILL ONSITE EXISTING DRAINAGE DITCH AND SWALES (INCLUDES EXCAVATION, HAULING, PLACEMENT, COMPACTION TO 95% STANDARD DENSITY, DEMUCKING, AND SCARIFY), COMPLETE IN PLACE	CY	12,780	\$3.95	\$50,481.00	\$3.00	\$38,340.00	\$3.25	\$41,535.00
21.	PROPOSED TEMPORARY DRAINAGE DITCH WITH 3:1 SIDE SLOPES, 10' BOTTOM WIDTH, DIRT MATERIAL EXCAVATED WILL BE USED TO FILL ONSITE EXISTING DRAINAGE DITCH AND SWALES (INCLUDES EXCAVATION, HAULING, PLACEMENT, COMPACTION TO 95% STANDARD DENSITY, DESILTING, DEMUCKING, AND SCARIFY), COMPLETE IN PLACE	CY	3,605	\$3.95	\$14,239.75	\$3.00	\$10,815.00	\$3.25	\$11,716.25
22.	8" BRICK PLUG (ALL SIZES), COMPLETE IN PLACE	EA	1	\$165.00	\$165.00	\$244.00	\$244.00	\$500.00	\$500.00
23.	PROPOSED V-BOTTOM SWALE WITH 3:1 S.S., COMPLETE IN PLACE	LF	4,250	\$3.10	\$13,175.00	\$2.00	\$8,500.00	\$3.50	\$14,875.00
24.	TRENCH SAFETY SYSTEM, ALL DEPTHS, COMPLETE PLACE	LF	6,910	\$0.10	\$691.00	\$0.01	\$69.10	\$0.10	\$691.00
SUBTOTAL STORM SEWER SYSTEM ITEMS					\$1,132,683.35		\$1,316,878.10		\$1,252,996.25
DEWATERING ITEMS									
1.	BEDDING AND BACKFILL FOR SANITARY SEWER WET SAND CONSTRUCTION AND UNSATISFACTORY SOIL CONDITIONS (PER DETAIL), (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	LF	5,400	\$15.00	\$81,000.00	\$15.00	\$81,000.00	\$15.00	\$81,000.00
2.	DEWATERING FOR SANITARY SEWER (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	LF	5,400	\$20.00	\$108,000.00	\$20.00	\$108,000.00	\$20.00	\$108,000.00
3.	BEDDING AND BACKFILL FOR STORM SEWER WET SAND CONSTRUCTION AND UNSATISFACTORY SOIL CONDITIONS (PER DETAIL), (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	LF	1,000	\$15.00	\$15,000.00	\$15.00	\$15,000.00	\$15.00	\$15,000.00

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4. DEWATERING FOR STORM SEWER (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	LF	1,000	\$20.00	\$20,000.00	\$20.00	\$20,000.00	\$20.00	\$20,000.00
SUBTOTAL DEWATERING ITEMS					\$224,000.00		\$224,000.00	\$224,000.00
MISCELLANEOUS ITEMS								
1. REMOVE AND DISPOSE EXISTING ASPHALT, INCLUDES SUBGRADE AND DISPOSAL OUTSIDE THE BOUNDARY OF THE DEVELOPMENT TO A LOCATION CONTRACTOR HAS AUTHORIZATION TO DUMP, COMPLETE IN PLACE	SY	440	\$4.90	\$2,156.00	\$8.00	\$3,520.00	\$12.00	\$5,280.00
2. REMOVE AND DISPOSE OF EXISTING GUARD RAILS AND BOLLARDS, INCLUDES DISPOSAL OUTSIDE THE BOUNDARY OF THE DEVELOPMENT TO A LOCATION CONTRACTOR HAS AUTHORIZATION TO DUMP, COMPLETE IN PLACE	LS	1	\$1,635.00	\$1,635.00	\$900.00	\$900.00	\$2,000.00	\$2,000.00
3. REMOVE & DISPOSE OF EXIST STORM SEWER OUTFALL, (410 S.Y. RIP RAP AND 45 L.F. - 84 STM.), INCLUDES DISPOSAL OUTSIDE THE BOUNDARY OF THE DEVELOPMENT TO A LOCATION CONTRACTOR HAS AUTHORIZATION TO DUMP, COMPLETE IN PLACE	LS	1	\$3,265.00	\$3,265.00	\$4,063.00	\$4,063.00	\$9,000.00	\$9,000.00
4. REMOVE AND DISPOSE OF EXISTING IRRIGATION LINE WITH 4" CONNECTIONS, INCLUDES DISPOSAL OUTSIDE THE BOUNDARY OF THE DEVELOPMENT TO A LOCATION CONTRACTOR HAS AUTHORIZATION TO DUMP, (TO BE FIELD VERIFIED BY ENGINEER, CONTRACTOR AND PROPERTY OWNER PRIOR TO REMOVAL), COMPLETE IN PLACE	LF	650	\$7.60	\$4,940.00	\$2.00	\$1,300.00	\$3.00	\$1,950.00
5. CLEARING AND GRUBBING BY CHIPPING, INCLUDES REMOVING ALL TREE STUMPS, ROOT RAKING, CLEARING OF ALL DEBRIS, HAULING OF ALL INORGANIC AND ORGANIC MATERIAL OUTSIDE THE BOUNDARY OF THE DEVELOPMENT TO A LOCATION CONTRACTOR HAS AUTHORIZATION TO DISPOSE, COMPLETE IN PLACE	AC	1	\$9,385.00	\$9,385.00	\$8,015.00	\$8,015.00	\$10,000.00	\$10,000.00
6. REMOVE AND DISPOSE OF EXISTING GRAVEL ROAD, INCLUDES DISPOSAL OUTSIDE THE BOUNDARY OF THE DEVELOPMENT TO A LOCATION CONTRACTOR HAS AUTHORIZATION TO DUMP (TO BE FIELD VERIFIED BY ENGINEER, CONTRACTOR AND PROPERTY OWNER PRIOR TO REMOVAL), COMPLETE IN PLACE	SY	1,840	\$8.15	\$14,996.00	\$5.00	\$9,200.00	\$11.00	\$20,240.00
7. CEMENT STABILIZED SAND BACKFILL, (1 1 SACKS PER TON), (TO BE USED ONLY AT THE DIRECTION OF ENGINEER), COMPLETE IN PLACE	CY	500	\$15.00	\$7,500.00	\$15.00	\$7,500.00	\$15.00	\$7,500.00
8. COST OF SANITARY SEWER WET SAND CONSTRUCTION AS PER CITY OF HOUSTON DRAWING NO. 02317-01, ALL LINE SIZES AND DEPTHS, (TO BE USED ONLY AT THE DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	LF	500	\$5.00	\$2,500.00	\$5.00	\$2,500.00	\$5.00	\$2,500.00
9. COST OF STORM SEWER WET SAND CONSTRUCTION AS PER CITY OF HOUSTON DRAWING NO. 02317-02, ALL LINE SIZES AND DEPTHS, (TO BE USED ONLY AT THE DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	LF	100	\$5.00	\$500.00	\$5.00	\$500.00	\$5.00	\$500.00
10. COST OF WET SAND CONSTRUCTION UNDER MANHOLE AS PER CITY OF HOUSTON DRAWING NO. 02082-05 (EFFECTIVE DATE ON OCTOBER 1, 2002 OR LATEST DETAIL), ALL DEPTHS, (TO BE USED ONLY AT THE DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	EA	1	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00
11. ADJUST EXISTING MANHOLE RIM ELEVATION AS REQUIRED (TO BE USED ONLY AT THE DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	EA	1	\$150.00	\$150.00	\$150.00	\$150.00	\$150.00	\$150.00
12. UTILITY SPOILS TO BE USED AS FILL FOR EXISTING SWALES AND EXISTING DRAINAGE DITCH, INCLUDES PLACEMENT AND COMPACTION TO 95% STANDARD PROCTOR DENSITY, DEMUCKING AND SCARIFY OF FILL AREAS, COMPLETE IN PLACE	CY	14,000	\$3.95	\$55,300.00	\$3.00	\$42,000.00	\$2.50	\$35,000.00

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CONSTRUCTION OF THE WATER, SANITARY SEWER AND DRAINAGE FACILITIES
 TO SERVE PECAN ESTATES SECTION 1
 CROSBY MUNICIPAL UTILITY DISTRICT
 CITY OF HOUSTON E.T.J., HARRIS COUNTY, TEXAS
 FEBRUARY 22, 2019
 LJA ENGINEERING, INC.
 C. DURHAM
 FEBRUARY 22, 2019
 2435-0112D (9.2)

ITEM	DESCRIPTION	UNIT	QTY	1) FELLERS & CLARK, L.P.		2) SENDERO INDUSTRIES, LLC		3) R CONSTRUCTION CIVIL, LLC DBA R CONSTRUCTION COMPANY	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
13.	EXISTING SIDEWALK TO BE REMOVED AND REPLACE AS REQUIRED FOR CONSTRUCTION OF 12" WATERLINE	LF	700	\$0.01	\$7.00	\$18.00	\$12,600.00	\$34.00	\$23,800.00
14.	RIP RAP (18" THICKNESS), GRADATION NO. 1, INCLUDING GEOTEXTILE FABRIC, ("MIRAFI-600" OR APPROVED EQUAL), FOR DRAINAGE DITCH, COMPLETE IN PLACE	SY	514	\$68.55	\$34,206.70	\$86.00	\$44,204.00	\$80.00	\$41,120.00
15.	TEMPORARY STORM PLUG FOR EXISTING 84" RCP STORM SEWER THAT OUTFALLS INTO EXISTING DRAINAGE DITCH, TO INCLUDE INSTALLATION AND REMOVAL, LABOR & MATERIALS NECESSARY TO REMOVE WATER FROM THE EXISTING DITCH TO CREATE A DRY WORKING ENVIRONMENT, COMPLETE IN PLACE	LS	1	\$1,525.00	\$1,525.00	\$630.00	\$630.00	\$9,000.00	\$9,000.00
16.	PUMP DOWN (WITH 4-INCH PUMP) STANDING WATER IN, AS NECESSARY TO CREATE A DRY WORKING ENVIRONMENT FOR THE INSTALL OF THE PROPOSED STORM SEWER IMPROVEMENTS, COMPLETE IN PLACE	HRS	50	\$55.00	\$2,750.00	\$15.00	\$750.00	\$70.00	\$3,500.00
17.	REMOVE AND DISPOSE OF EXISTING RIPRAP, INCLUDES DISPOSAL OUTSIDE THE BOUNDARY OF THE DEVELOPMENT TO A LOCATION CONTRACTOR HAS AUTHORIZATION TO DUMP, COMPLETE IN PLACE	SY	300	\$32.70	\$9,810.00	\$20.00	\$6,000.00	\$20.00	\$6,000.00
SUBTOTAL MISCELLANEOUS ITEMS					\$150,675.70		\$143,882.00		\$177,590.00
SWPPP ITEMS									
1.	SILT FENCE INLET PROTECTION BARRIERS, SWMHCA SPECIFICATION NO. 4511, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	EA	45	\$55.00	\$2,475.00	\$69.00	\$3,105.00	\$100.00	\$4,500.00
2.	INSTALLATION AND REMOVAL OF REINFORCED FILTER FABRIC FENCE SWMHCA SPECIFICATIONS NO. 4311, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	LF	5,500	\$1.20	\$6,600.00	\$1.50	\$8,250.00	\$1.25	\$6,875.00
3.	HYDRO-MULCH SEEDING FOR PROPOSED DITCH SIDE SLOPE, COMPLETE IN PLACE	AC	2	\$1,525.00	\$3,050.00	\$1,475.00	\$2,950.00	\$1,800.00	\$3,600.00
4.	STABILIZED CONSTRUCTION EXIT, INCLUDING INSTALLATION, MAINTENANCE AND REMOVAL, COMPLETE IN PLACE	EA	1	\$1,635.00	\$1,635.00	\$2,300.00	\$2,300.00	\$2,000.00	\$2,000.00
5.	INSTALL MAINTAIN AND REMOVE CONCRETE TRUCK WASHOUT, COMPLETE IN PLACE	EA	1	\$213.65	\$213.65	\$700.00	\$700.00	\$600.00	\$600.00
SUBTOTAL SWPPP ITEMS					\$13,973.65		\$17,305.00		\$17,575.00
BID SUMMARY									
SUBTOTAL WATER ITEMS					\$388,450.15		\$378,900.41		\$416,552.10
SUBTOTAL SANITARY SEWER ITEMS					\$455,237.15		\$368,755.72		\$490,732.20
SUBTOTAL STORM SEWER SYSTEM ITEMS					\$1,132,663.35		\$1,316,878.10		\$1,252,996.25
SUBTOTAL DEWATERING ITEMS					\$224,000.00		\$224,000.00		\$224,000.00
SUBTOTAL MISCELLANEOUS ITEMS					\$150,675.70		\$143,882.00		\$177,590.00
SWPPP ITEMS					\$13,973.65		\$17,305.00		\$17,575.00
TOTAL AMOUNT BID					\$2,385,000.00		\$2,449,721.23		\$2,579,445.55

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 TO SERVE PECAN ESTATES SECTION 1
 CROSBY MUNICIPAL UTILITY DISTRICT
 CITY OF HOUSTON E.T.J., HARRIS COUNTY, TEXAS
 FEBRUARY 22, 2019
 LJA ENGINEERING, INC.
 C. DURHAM
 FEBRUARY 22, 2019
 2435-0112D (9.2)

ITEM DESCRIPTION	UNIT	QTY	4) CROSTEX CONSTRUCTION, INC.		5) PRINCIPAL SERVICES, LTD.		6) BAY UTILITIES, LLC		
			UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	
WATER ITEMS									
1. 6" PVC WATER LINE, AWWA C-900, DR 14, CLASS 305, INCLUDES ALL FITTINGS AND VALVES, COMPLETE IN PLACE	LF	751	\$16.05	\$12,053.55	\$19.00	\$14,269.00	\$14.00	\$10,514.00	
2. 8" PVC WATER LINE, AWWA C-900, DR 18, CLASS 235, INCLUDES ALL FITTINGS, COMPLETE IN PLACE	LF	2,497	\$17.00	\$42,449.00	\$21.00	\$52,437.00	\$16.00	\$39,952.00	
3. 12" PVC WATER LINE, AWWA C-900, DR 18, CLASS 235, INCLUDES ALL FITTINGS, COMPLETE IN PLACE	LF	2,795	\$53.00	\$148,135.00	\$29.00	\$81,055.00	\$27.00	\$75,465.00	
4. 8" GATE VALVE BOX, AND ADJUSTMENTS AS NECESSARY, ALL DEPTHS, COMPLETE IN PLACE	EA	10	\$997.00	\$9,970.00	\$1,000.00	\$10,000.00	\$1,000.00	\$10,000.00	
5. 12" GATE VALVE BOX, AND ADJUSTMENTS AS NECESSARY, ALL DEPTHS, COMPLETE IN PLACE	EA	11	\$2,985.00	\$32,835.00	\$1,900.00	\$20,900.00	\$1,900.00	\$20,900.00	
6. PLUG AND CLAMP (ALL SIZES), 2" BLOW-OFF VALVE, COMPLETE IN PLACE	EA	9	\$100.00	\$900.00	\$600.00	\$5,400.00	\$1,300.00	\$11,700.00	
7. AUGER FOR PROPOSED 20" STEEL CASING (DOES NOT INCLUDE CARRIER PIPE), INCLUDING BORE PITS, ALL DEPTHS, COMPLETE IN PLACE	LF	165	\$125.00	\$20,625.00	\$134.00	\$22,110.00	\$108.00	\$17,820.00	
8. 20" STEEL CASING FOR 12" WATER LINE, COMPLETE IN PLACE	LF	165	\$75.00	\$12,375.00	\$91.00	\$15,015.00	\$210.00	\$34,650.00	
9. FLUSHING VALVE UNIT, ALL DEPTHS, INCLUDES ADJUSTMENTS AS NECESSARY, APPROPRIATE TEE, 6" GATE VALVE & BOX, TRENCH SAFETY, LEAD AND FLUSHING VALVE, COMPLETE IN PLACE	EA	24	\$4,700.00	\$112,800.00	\$3,500.00	\$84,000.00	\$3,700.00	\$88,800.00	
10. 6" RESTRAINED JOINT PVC WATER LINE, AWWA, C-900, DR 18, ALL DEPTHS, INCLUDES ALL FITTINGS AND ALL RESTRAINED JOINTS FOR PIPE JOINTS, COMPLETE IN PLACE	LF	59	\$21.50	\$1,268.50	\$28.00	\$1,652.00	\$29.00	\$1,711.00	
11. 8" RESTRAINED JOINT PVC WATER LINE, AWWA, C-900, DR 18, ALL DEPTHS, INCLUDES ALL FITTINGS AND ALL RESTRAINED JOINTS FOR PIPE JOINTS, COMPLETE IN PLACE	LF	679	\$24.50	\$16,635.50	\$28.00	\$19,012.00	\$39.00	\$26,481.00	
12. 12" RESTRAINED JOINT PVC WATER LINE, AWWA, C-900, DR 18, ALL DEPTHS, INCLUDES ALL FITTINGS AND ALL RESTRAINED JOINTS FOR PIPE JOINTS, COMPLETE IN PLACE	LF	1,660	\$41.75	\$69,305.00	\$41.00	\$68,060.00	\$69.00	\$114,540.00	
13. TRENCH SAFETY SYSTEM, ALL DEPTHS, COMPLETE IN PLACE	LF	8,441	\$1.10	\$9,285.10	\$0.10	\$844.10	\$1.00	\$8,441.00	
14. 8" RESTRAINED JOINT PVC WATER LINE, AWWA C-900, DR 14, ALL DEPTHS, INCLUDES ALL RESTRAINED JOINTS FOR PIPE JOINTS AND FITTINGS AND ALL APPURTENANCES, COMPLETE IN PLACE	LF	13	\$30.00	\$390.00	\$50.00	\$650.00	\$104.00	\$1,352.00	
SUBTOTAL WATER ITEMS				\$489,026.65		\$395,404.10		\$462,326.00	
SANITARY SEWER ITEMS									
1. 8" PVC SEWER PIPE, ASTM D-2241, SDR 26, 0 - 12 FOOT CUT, WITH STANDARD BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	2,410	\$23.25	\$56,032.50	\$35.00	\$84,350.00	\$35.00	\$84,350.00	
2. 8" PVC SEWER PIPE, ASTM D-2241, SDR 26, 12 - 16 FOOT CUT, WITH STANDARD BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	2,532	\$31.25	\$79,125.00	\$41.00	\$103,812.00	\$42.00	\$106,344.00	
3. 10" PVC SEWER PIPE, ASTM D-2241 (OVER 16'), ASTM D-2241, SDR 26, ALL CLASSES, COMPLETE IN PLACE	LS	430	\$43.00	\$18,490.00	\$72.00	\$30,960.00	\$57.00	\$24,510.00	
4. LONG SIDE DOUBLE OR SINGLE 6" PVC PIPE SERVICE LEADS, ASTM D2241, SDR 26, ALL DEPTHS, INCLUDING CEMENT STABILIZED BACKFILL, RISER, WYE, PLUG, MARKER, AND ANY NECESSARY FITTINGS, ETC., COMPLETE IN PLACE	LF	2,329	\$29.75	\$69,287.75	\$48.00	\$111,792.00	\$40.00	\$93,160.00	

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 TO SERVE PECAN ESTATES SECTION 1
 CROSBY MUNICIPAL UTILITY DISTRICT
 CITY OF HOUSTON E.T.J., HARRIS COUNTY, TEXAS
 FEBRUARY 22, 2019
 LJA ENGINEERING, INC.
 C. DURHAM
 FEBRUARY 22, 2019
 2435-0112D (9.2)

ITEM	DESCRIPTION	UNIT	QTY	4) CROSTEX CONSTRUCTION, INC.		5) PRINCIPAL SERVICES, LTD.		6) BAY UTILITIES, LLC	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
5.	SHORT SIDE DOUBLE OR SINGLE 6" PVC PIPE SERVICE LEADS, ASTM D2241, SDR 26, ALL DEPTHS, INCLUDING CEMENT STABILIZED BACKFILL, RISER, WYE, PLUG, MARKER, AND ANY NECESSARY FITTINGS, ETC., COMPLETE IN PLACE	EA	42	\$870.00	\$36,540.00	\$900.00	\$37,800.00	\$1,000.00	\$42,000.00
6.	STANDARD SANITARY SEWER MANHOLE FOR 6" - 24" SANITARY SEWER PIPES, (8' DEPTH), COMPLETE IN PLACE	EA	38	\$2,600.00	\$98,800.00	\$1,800.00	\$68,400.00	\$2,200.00	\$83,600.00
7.	EXTRA DEPTH OF SANITARY SEWER MANHOLE, OVER 8' DEPTH, COMPLETE IN PLACE	VF	173	\$210.00	\$36,330.00	\$150.00	\$25,950.00	\$140.00	\$24,220.00
8.	STANDARD SANITARY SEWER M.H. DROP STRUCTURE (0-2'), COMPLETE IN PLACE	EA	2	\$500.00	\$1,000.00	\$500.00	\$1,000.00	\$700.00	\$1,400.00
9.	EXTRA DEPTH OF SANITARY SEWER M.H. DROP STRUCTURE (OVER 2'), COMPLETE IN PLACE	VF	6	\$50.00	\$300.00	\$33.00	\$198.00	\$48.00	\$276.00
10.	LONG SIDE DOUBLE OR SINGLE 8" PVC PIPE SERVICE LEADS ASTM D2241, SDR 26, ALL DEPTHS, INCLUDING CEMENT STABILIZED BACKFILL, RISER, WYE, PLUG, MARKER, AND ANY NECESSARY FITTINGS, ETC., COMPLETE IN PLACE	LF	111	\$32.00	\$3,552.00	\$56.00	\$6,216.00	\$46.00	\$5,106.00
11.	STANDARD 6" SANITARY SEWER STACK, (ALL DEPTHS), COMPLETE IN PLACE	EA	42	\$500.00	\$21,000.00	\$500.00	\$21,000.00	\$600.00	\$25,200.00
12.	SANITARY SEWER PLUG (ALL DEPTHS AND SIZES), COMPLETE IN PLACE	EA	4	\$50.00	\$200.00	\$300.00	\$1,200.00	\$170.00	\$680.00
13.	TRENCH SAFETY SYSTEM, ALL DEPTHS, COMPLETE IN PLACE	LF	5,372	\$1.25	\$6,715.00	\$0.10	\$537.20	\$1.00	\$5,372.00
SUBTOTAL SANITARY SEWER ITEMS					\$427,372.25		\$483,215.20		\$496,218.00
STORM SEWER SYSTEM ITEMS									
1.	24" RCP STORM SEWER, ASTM C-76, CLASS III, ALL DEPTHS, COMPLETE IN PLACE	LF	2,468	\$53.30	\$131,544.40	\$59.00	\$145,612.00	\$54.00	\$133,272.00
2.	30" RCP STORM SEWER, ASTM C-76, CLASS III, ALL DEPTHS, COMPLETE IN PLACE	LF	1,932	\$68.25	\$131,859.00	\$72.00	\$139,104.00	\$70.00	\$135,240.00
3.	36" RCP STORM SEWER, ASTM C-76, CLASS III, ALL DEPTHS, COMPLETE IN PLACE	LF	239	\$93.65	\$22,382.35	\$102.00	\$24,378.00	\$99.00	\$23,661.00
4.	42" RCP STORM SEWER, ASTM C-76, CLASS III, ALL DEPTHS, COMPLETE IN PLACE	LF	1,103	\$120.00	\$132,360.00	\$130.00	\$143,390.00	\$132.00	\$145,596.00
5.	60" RCP STORM SEWER, ASTM C-76, CLASS III, ALL DEPTHS, COMPLETE IN PLACE	LF	244	\$248.00	\$60,512.00	\$249.00	\$60,756.00	\$262.00	\$63,928.00
6.	84" RCP STORM SEWER, ASTM C-76, CLASS III, ALL DEPTHS, COMPLETE IN PLACE	LF	717	\$500.00	\$358,500.00	\$443.00	\$317,631.00	\$537.00	\$385,029.00
7.	5' X 5' R.C.B. STORM SEWER BOX, ASTM C-1433, ALL DEPTHS, COMPLETE IN PLACE	LF	144	\$400.00	\$57,600.00	\$351.00	\$50,544.00	\$362.00	\$52,128.00
8.	STAGE I - STANDARD 5' REINFORCED CONCRETE PRECAST INLET ("H-2") ALL DEPTHS, INCLUDES INLET PROTECTION BARRIER FOR STAGE I INLET, COMPLETE IN PLACE	EA	26	\$1,800.00	\$46,800.00	\$1,400.00	\$36,400.00	\$1,000.00	\$26,000.00
9.	STAGE II - STANDARD 5' REINFORCED CONCRETE PRECAST OR REINFORCED CONCRETE CAST-IN-PLACE (4,000 PSI) INLET ("H-2"), COMPLETE IN PLACE	EA	26	\$500.00	\$13,000.00	\$1,300.00	\$33,800.00	\$1,700.00	\$44,200.00
10.	STAGE I - STANDARD PRECAST INLET TYPE "C-1," ALL DEPTHS, (INCLUDES INLET PROTECTION BARRIER FOR STAGE I INLETS), COMPLETE IN PLACE	EA	14	\$2,000.00	\$28,000.00	\$1,400.00	\$19,600.00	\$1,500.00	\$21,000.00

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ITEM	DESCRIPTION	UNIT	QTY	4) CROSTEX CONSTRUCTION, INC.		5) PRINCIPAL SERVICES, LTD.		6) BAY UTILITIES, LLC	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
11.	STAGE II - STANDARD PRECAST INLET TYPE "C-1," (INCLUDES TEMPORARY SAND - FILLED BURLAP BAGS FOR EROSION AND SEDIMENT CONTROL), COMPLETE IN PLACE	EA	10	\$750.00	\$7,500.00	\$1,700.00	\$17,000.00	\$2,300.00	\$23,000.00
12.	TYPE "C" PRECAST OR CAST-IN-PLACE MANHOLE FOR 42" STORM SEWERS AND SMALLER, ALL DEPTHS, COMPLETE IN PLACE	EA	33	\$2,350.00	\$77,550.00	\$2,100.00	\$69,300.00	\$2,900.00	\$95,700.00
13.	TYPE "C" PRECAST OR CAST-IN-PLACE MANHOLE FOR 48" STORM SEWERS AND LARGER, ALL DEPTHS, COMPLETE IN PLACE	EA	2	\$6,000.00	\$12,000.00	\$5,200.00	\$10,400.00	\$4,300.00	\$8,600.00
14.	JUNCTION BOX, WITH MANHOLE TOP FOR BOX CULVERT STORM SEWER, ALL DEPTHS, COMPLETE IN PLACE	EA	3	\$8,000.00	\$24,000.00	\$5,200.00	\$15,600.00	\$10,000.00	\$30,000.00
15.	TYPE "C" PRECAST OR CAST-IN-PLACE MANHOLE FOR 78" STORM SEWERS AND LARGER, ALL DEPTHS, COMPLETE IN PLACE	EA	2	\$14,000.00	\$28,000.00	\$8,600.00	\$17,200.00	\$12,000.00	\$24,000.00
16.	TYPE "C" CAST-IN-PLACE MANHOLE #49, TO BUILD ON EXISTING 84" STORM SEWER, COMPLETE IN PLACE	EA	1	\$17,500.00	\$17,500.00	\$11,000.00	\$11,000.00	\$14,000.00	\$14,000.00
17.	TYPE "C" PRECAST OR CAST-IN-PLACE MANHOLE FOR 42" STORM SEWER AND SMALLER WITH TYPE "E" INLET TOP, COMPLETE IN PLACE	EA	3	\$3,000.00	\$9,000.00	\$2,700.00	\$8,100.00	\$2,500.00	\$7,500.00
18.	5' X 5' RCB STORM SEWER OUTFALL STRUCTURE, INCLUDING APPROX. 170 SY OF RIP RAP (18" THICKNESS), GRADATION NO. 1, INCLUDING GEOTEXTILE FABRIC, ("MIRAFI-600" OR APPROVED EQUAL), COMPLETE IN PLACE	LS	1	\$52,500.00	\$52,500.00	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00
19.	84" RCP STORM SEWER OUTFALL STRUCTURE, INCLUDING APPROX. 280 SY OF RIP RAP (18" THICKNESS), GRADATION NO. 1, INCLUDING GEOTEXTILE FABRIC, ("MIRAFI-600" OR APPROVED EQUAL), COMPLETE IN PLACE	LS	1	\$78,000.00	\$78,000.00	\$34,000.00	\$34,000.00	\$29,000.00	\$29,000.00
20.	PROPOSED RELOCATED DRAINAGE DITCH WITH 3:1 SIDE SLOPES, 10' BOTTOM WIDTH, DIRT MATERIAL EXCAVATED WILL BE USED TO FILL ONSITE EXISTING DRAINAGE DITCH AND SWALES (INCLUDES EXCAVATION, HAULING, PLACEMENT, COMPACTION TO 95% STANDARD DENSITY, DEMUCKING, AND SCARIFY), COMPLETE IN PLACE	CY	12,780	\$3.95	\$50,481.00	\$6.00	\$76,680.00	\$5.00	\$63,900.00
21.	PROPOSED TEMPORARY DRAINAGE DITCH WITH 3:1 SIDE SLOPES, 10' BOTTOM WIDTH, DIRT MATERIAL EXCAVATED WILL BE USED TO FILL ONSITE EXISTING DRAINAGE DITCH AND SWALES (INCLUDES EXCAVATION, HAULING, PLACEMENT, COMPACTION TO 95% STANDARD DENSITY, DESILTING, DEMUCKING, AND SCARIFY), COMPLETE IN PLACE	CY	3,605	\$3.95	\$14,239.75	\$6.00	\$21,630.00	\$5.00	\$18,025.00
22.	8" BRICK PLUG (ALL SIZES), COMPLETE IN PLACE	EA	1	\$250.00	\$250.00	\$750.00	\$750.00	\$2,100.00	\$2,100.00
23.	PROPOSED V-BOTTOM SWALE WITH 3:1 S.S., COMPLETE IN PLACE	LF	4,250	\$3.95	\$16,787.50	\$5.00	\$21,250.00	\$5.00	\$21,250.00
24.	TRENCH SAFETY SYSTEM, ALL DEPTHS, COMPLETE PLACE	LF	6,910	\$1.10	\$7,601.00	\$0.10	\$691.00	\$1.00	\$6,910.00
SUBTOTAL STORM SEWER SYSTEM ITEMS					\$1,377,887.00		\$1,294,816.00		\$1,394,038.00
DEWATERING ITEMS									
1.	BEDDING AND BACKFILL FOR SANITARY SEWER WET SAND CONSTRUCTION AND UNSATISFACTORY SOIL CONDITIONS (PER DETAIL), (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	LF	5,400	\$15.00	\$81,000.00	\$15.00	\$81,000.00	\$15.00	\$81,000.00
2.	DEWATERING FOR SANITARY SEWER (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	LF	5,400	\$20.00	\$108,000.00	\$25.00	\$135,000.00	\$20.00	\$108,000.00
3.	BEDDING AND BACKFILL FOR STORM SEWER WET SAND CONSTRUCTION AND UNSATISFACTORY SOIL CONDITIONS (PER DETAIL), (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	LF	1,000	\$15.00	\$15,000.00	\$15.00	\$15,000.00	\$25.00	\$25,000.00

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				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
4.	DEWATERING FOR STORM SEWER (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	LF	1,000	\$20.00	\$20,000.00	\$50.00	\$50,000.00	\$20.00	\$20,000.00
SUBTOTAL DEWATERING ITEMS					\$224,000.00		\$281,000.00		\$234,000.00
MISCELLANEOUS ITEMS									
1.	REMOVE AND DISPOSE EXISTING ASPHALT, INCLUDES SUBGRADE AND DISPOSAL OUTSIDE THE BOUNDARY OF THE DEVELOPMENT TO A LOCATION CONTRACTOR HAS AUTHORIZATION TO DUMP, COMPLETE IN PLACE	SY	440	\$13.50	\$5,940.00	\$15.00	\$6,600.00	\$8.00	\$3,520.00
2.	REMOVE AND DISPOSE OF EXISTING GUARD RAILS AND BOLLARDS, INCLUDES DISPOSAL OUTSIDE THE BOUNDARY OF THE DEVELOPMENT TO A LOCATION CONTRACTOR HAS AUTHORIZATION TO DUMP, COMPLETE IN PLACE	LS	1	\$5,000.00	\$5,000.00	\$3,500.00	\$3,500.00	\$4,100.00	\$4,100.00
3.	REMOVE & DISPOSE OF EXIST STORM SEWER OUTFALL, (410 S.Y. RIP RAP AND 45 L.F. - 84 STM.), INCLUDES DISPOSAL OUTSIDE THE BOUNDARY OF THE DEVELOPMENT TO A LOCATION CONTRACTOR HAS AUTHORIZATION TO DUMP, COMPLETE IN PLACE	LS	1	\$10,000.00	\$10,000.00	\$15,000.00	\$15,000.00	\$5,300.00	\$5,300.00
4.	REMOVE AND DISPOSE OF EXISTING IRRIGATION LINE WITH 4" CONNECTIONS, INCLUDES DISPOSAL OUTSIDE THE BOUNDARY OF THE DEVELOPMENT TO A LOCATION CONTRACTOR HAS AUTHORIZATION TO DUMP, (TO BE FIELD VERIFIED BY ENGINEER, CONTRACTOR AND PROPERTY OWNER PRIOR TO REMOVAL), COMPLETE IN PLACE	LF	650	\$10.00	\$6,500.00	\$10.00	\$6,500.00	\$11.00	\$7,150.00
5.	CLEARING AND GRUBBING BY CHIPPING, INCLUDES REMOVING ALL TREE STUMPS, ROOT RAKING, CLEARING OF ALL DEBRIS, HAULING OF ALL INORGANIC AND ORGANIC MATERIAL OUTSIDE THE BOUNDARY OF THE DEVELOPMENT TO A LOCATION CONTRACTOR HAS AUTHORIZATION TO DISPOSE, COMPLETE IN PLACE	AC	1	\$15,000.00	\$15,000.00	\$20,000.00	\$20,000.00	\$10,000.00	\$10,000.00
6.	REMOVE AND DISPOSE OF EXISTING GRAVEL ROAD, INCLUDES DISPOSAL OUTSIDE THE BOUNDARY OF THE DEVELOPMENT TO A LOCATION CONTRACTOR HAS AUTHORIZATION TO DUMP (TO BE FIELD VERIFIED BY ENGINEER, CONTRACTOR AND PROPERTY OWNER PRIOR TO REMOVAL), COMPLETE IN PLACE	SY	1,840	\$4.00	\$7,360.00	\$12.00	\$22,080.00	\$6.00	\$11,040.00
7.	CEMENT STABILIZED SAND BACKFILL, (1.1 SACKS PER TON), (TO BE USED ONLY AT THE DIRECTION OF ENGINEER), COMPLETE IN PLACE	CY	500	\$15.00	\$7,500.00	\$15.00	\$7,500.00	\$40.00	\$20,000.00
8.	COST OF SANITARY SEWER WET SAND CONSTRUCTION AS PER CITY OF HOUSTON DRAWING NO. 02317-01, ALL LINE SIZES AND DEPTHS, (TO BE USED ONLY AT THE DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	LF	500	\$5.00	\$2,500.00	\$5.00	\$2,500.00	\$5.00	\$2,500.00
9.	COST OF STORM SEWER WET SAND CONSTRUCTION AS PER CITY OF HOUSTON DRAWING NO. 02317-02, ALL LINE SIZES AND DEPTHS, (TO BE USED ONLY AT THE DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	LF	100	\$10.00	\$1,000.00	\$5.00	\$500.00	\$15.00	\$1,500.00
10.	COST OF WET SAND CONSTRUCTION UNDER MANHOLE AS PER CITY OF HOUSTON DRAWING NO. 02082-05 (EFFECTIVE DATE ON OCTOBER 1, 2002 OR LATEST DETAIL), ALL DEPTHS, (TO BE USED ONLY AT THE DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	EA	1	\$200.00	\$200.00	\$50.00	\$50.00	\$800.00	\$800.00
11.	ADJUST EXISTING MANHOLE RIM ELEVATION AS REQUIRED (TO BE USED ONLY AT THE DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	EA	1	\$150.00	\$150.00	\$1,000.00	\$1,000.00	\$500.00	\$500.00
12.	UTILITY SPOILS TO BE USED AS FILL FOR EXISTING SWALES AND EXISTING DRAINAGE DITCH, INCLUDES PLACEMENT AND COMPACTION TO 95% STANDARD PROCTOR DENSITY, DEMUCKING AND SCARIFY OF FILL AREAS, COMPLETE IN PLACE	CY	14,000	\$3.95	\$55,300.00	\$4.50	\$63,000.00	\$4.00	\$56,000.00

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**CONSTRUCTION OF THE WATER, SANITARY SEWER AND DRAINAGE FACILITIES
 TO SERVE PECAN ESTATES SECTION 1
 CROSBY MUNICIPAL UTILITY DISTRICT
 CITY OF HOUSTON E.T.J., HARRIS COUNTY, TEXAS
 FEBRUARY 22, 2019
 LJA ENGINEERING, INC.
 C. DURHAM
 FEBRUARY 22, 2019
 2435-0112D (9.2)**

ITEM	DESCRIPTION	UNIT	QTY	4) CROSTEX CONSTRUCTION, INC.		5) PRINCIPAL SERVICES, LTD.		6) BAY UTILITIES, LLC	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
13.	EXISTING SIDEWALK TO BE REMOVED AND REPLACE AS REQUIRED FOR CONSTRUCTION OF 12" WATERLINE	LF	700	\$50.00	\$35,000.00	\$35.00	\$24,500.00	\$38.00	\$26,600.00
14.	RIP RAP (18" THICKNESS), GRADATION NO. 1, INCLUDING GEOTEXTILE FABRIC, ("MIRAFI-500" OR APPROVED EQUAL), FOR DRAINAGE DITCH, COMPLETE IN PLACE	SY	514	\$85.00	\$43,690.00	\$85.00	\$43,690.00	\$70.00	\$35,980.00
15.	TEMPORARY STORM PLUG FOR EXISTING 84" RCP STORM SEWER THAT OUTFALLS INTO EXISTING DRAINAGE DITCH, TO INCLUDE INSTALLATION AND REMOVAL, LABOR & MATERIALS NECESSARY TO REMOVE WATER FROM THE EXISTING DITCH TO CREATE A DRY WORKING ENVIRONMENT, COMPLETE IN PLACE	LS	1	\$5,000.00	\$5,000.00	\$1,500.00	\$1,500.00	\$10,000.00	\$10,000.00
16.	PUMP DOWN (WITH 4-INCH PUMP) STANDING WATER IN, AS NECESSARY TO CREATE A DRY WORKING ENVIRONMENT FOR THE INSTALL OF THE PROPOSED STORM SEWER IMPROVEMENTS, COMPLETE IN PLACE	HRS	50	\$100.00	\$5,000.00	\$200.00	\$10,000.00	\$120.00	\$6,000.00
17.	REMOVE AND DISPOSE OF EXISTING RIPRAP, INCLUDES DISPOSAL OUTSIDE THE BOUNDARY OF THE DEVELOPMENT TO A LOCATION CONTRACTOR HAS AUTHORIZATION TO DUMP, COMPLETE IN PLACE	SY	300	\$25.00	\$7,500.00	\$45.00	\$13,500.00	\$14.00	\$4,200.00
SUBTOTAL MISCELLANEOUS ITEMS					\$212,640.00		\$241,420.00		\$205,190.00
SWPPP ITEMS									
1.	SILT FENCE INLET PROTECTION BARRIERS, SWMHCA SPECIFICATION NO. 4511, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	EA	45	\$100.00	\$4,500.00	\$90.00	\$4,050.00	\$50.00	\$2,250.00
2.	INSTALLATION AND REMOVAL OF REINFORCED FILTER FABRIC FENCE SWMHCA SPECIFICATIONS NO. 4311, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	LF	5,500	\$1.50	\$8,250.00	\$2.50	\$13,750.00	\$2.50	\$13,750.00
3.	HYDRO-MULCH SEEDING FOR PROPOSED DITCH SIDE SLOPE, COMPLETE IN PLACE	AC	2	\$1,750.00	\$3,500.00	\$1,500.00	\$3,000.00	\$2,000.00	\$4,000.00
4.	STABILIZED CONSTRUCTION EXIT, INCLUDING INSTALLATION, MAINTENANCE AND REMOVAL, COMPLETE IN PLACE	EA	1	\$1,994.10	\$1,994.10	\$3,100.00	\$3,100.00	\$2,600.00	\$2,600.00
5.	INSTALL MAINTAIN AND REMOVE CONCRETE TRUCK WASHOUT, COMPLETE IN PLACE	EA	1	\$750.00	\$750.00	\$400.00	\$400.00	\$2,000.00	\$2,000.00
SUBTOTAL SWPPP ITEMS					\$18,994.10		\$24,300.00		\$24,600.00
BID SUMMARY									
SUBTOTAL WATER ITEMS					\$469,026.65		\$395,404.10		\$462,326.00
SUBTOTAL SANITARY SEWER ITEMS					\$427,372.25		\$493,215.20		\$496,218.00
SUBTOTAL STORM SEWER SYSTEM ITEMS					\$1,377,967.00		\$1,294,816.00		\$1,394,039.00
SUBTOTAL DEWATERING ITEMS					\$224,000.00		\$281,000.00		\$234,000.00
SUBTOTAL MISCELLANEOUS ITEMS					\$212,640.00		\$241,420.00		\$205,190.00
SWPPP ITEMS					\$18,994.10		\$24,300.00		\$24,600.00
TOTAL AMOUNT BID					\$2,750,000.00		\$2,730,155.30		\$2,816,373.00

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 TO SERVE PECAN ESTATES SECTION 1
 CROSBY MUNICIPAL UTILITY DISTRICT
 CITY OF HOUSTON E.T.J., HARRIS COUNTY, TEXAS
 FEBRUARY 22, 2019
 LJA ENGINEERING, INC.
 C. DURHAM
 FEBRUARY 22, 2019
 2435-0112D (9.2)**

7) REDDICO CONSTRUCTION CO., INC.

ITEM DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
WATER ITEMS				
1. 6" PVC WATER LINE, AWWA C-900, DR 14, CLASS 305, INCLUDES ALL FITTINGS AND VALVES, COMPLETE IN PLACE	LF	751	\$18.91	\$14,201.41
2. 8" PVC WATER LINE, AWWA C-900, DR 18, CLASS 235, INCLUDES ALL FITTINGS, COMPLETE IN PLACE	LF	2,497	\$22.68	\$56,631.96
3. 12" PVC WATER LINE, AWWA C-900, DR 18, CLASS 235, INCLUDES ALL FITTINGS, COMPLETE IN PLACE	LF	2,795	\$31.16	\$87,092.20
4. 8" GATE VALVE BOX, AND ADJUSTMENTS AS NECESSARY, ALL DEPTHS, COMPLETE IN PLACE	EA	10	\$1,100.00	\$11,000.00
5. 12" GATE VALVE BOX, AND ADJUSTMENTS AS NECESSARY, ALL DEPTHS, COMPLETE IN PLACE	EA	11	\$2,100.00	\$23,100.00
6. PLUG AND CLAMP (ALL SIZES), 2" BLOW-OFF VALVE, COMPLETE IN PLACE	EA	9	\$800.00	\$7,200.00
7. AUGER FOR PROPOSED 20" STEEL CASING (DOES NOT INCLUDE CARRIER PIPE), INCLUDING BORE PITS, ALL DEPTHS, COMPLETE IN PLACE	LF	165	\$61.00	\$10,065.00
8. 20" STEEL CASING FOR 12" WATER LINE, COMPLETE IN PLACE	LF	165	\$91.24	\$15,054.60
9. FLUSHING VALVE UNIT, ALL DEPTHS, INCLUDES ADJUSTMENTS AS NECESSARY, APPROPRIATE TEE, 6" GATE VALVE & BOX, TRENCH SAFETY, LEAD AND FLUSHING VALVE, COMPLETE IN PLACE	EA	24	\$3,700.00	\$88,800.00
10. 6" RESTRAINED JOINT PVC WATER LINE, AWWA, C-900, DR 18, ALL DEPTHS, INCLUDES ALL FITTINGS AND ALL RESTRAINED JOINTS FOR PIPE JOINTS, COMPLETE IN PLACE	LF	59	\$24.29	\$1,433.11
11. 8" RESTRAINED JOINT PVC WATER LINE, AWWA, C-900, DR 18, ALL DEPTHS, INCLUDES ALL FITTINGS AND ALL RESTRAINED JOINTS FOR PIPE JOINTS, COMPLETE IN PLACE	LF	679	\$32.78	\$22,257.62
12. 12" RESTRAINED JOINT PVC WATER LINE, AWWA, C-900, DR 18, ALL DEPTHS, INCLUDES ALL FITTINGS AND ALL RESTRAINED JOINTS FOR PIPE JOINTS, COMPLETE IN PLACE	LF	1,660	\$46.65	\$77,439.00
13. TRENCH SAFETY SYSTEM, ALL DEPTHS, COMPLETE IN PLACE	LF	8,441	\$0.10	\$844.10
14. 8" RESTRAINED JOINT PVC WATER LINE, AWWA C-900, DR 14, ALL DEPTHS, INCLUDES ALL RESTRAINED JOINTS FOR PIPE JOINTS AND FITTINGS AND ALL APPURTENANCES, COMPLETE IN PLACE	LF	13	\$58.14	\$755.82
SUBTOTAL WATER ITEMS				\$415,874.82
SANITARY SEWER ITEMS				
1. 8" PVC SEWER PIPE, ASTM D-2241, SDR 26, 0 - 12 FOOT CUT, WITH STANDARD BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	2,410	\$41.00	\$98,810.00
2. 8" PVC SEWER PIPE, ASTM D-2241, SDR 26, 12 - 16 FOOT CUT, WITH STANDARD BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	2,532	\$45.00	\$113,940.00
3. 10" PVC SEWER PIPE, ASTM D-2241 (OVER 16"), ASTM D-2241, SDR 26, ALL CLASSES, COMPLETE IN PLACE	LS	430	\$61.12	\$26,281.60
4. LONG SIDE DOUBLE OR SINGLE 6" PVC PIPE SERVICE LEADS, ASTM D2241, SDR 26, ALL DEPTHS, INCLUDING CEMENT STABILIZED BACKFILL, RISER, WYE, PLUG, MARKER, AND ANY NECESSARY FITTINGS, ETC., COMPLETE IN PLACE	LF	2,329	\$36.65	\$85,357.85

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 TO SERVE PECAN ESTATES SECTION 1
 CROSBY MUNICIPAL UTILITY DISTRICT
 CITY OF HOUSTON E.T.J., HARRIS COUNTY, TEXAS
 FEBRUARY 22, 2019
 LJA ENGINEERING, INC.
 C. DURHAM
 FEBRUARY 22, 2019
 2435-0112D (9.2)

7) REDDICO CONSTRUCTION CO., INC.

ITEM	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
5.	SHORT SIDE DOUBLE OR SINGLE 6" PVC PIPE SERVICE LEADS, ASTM D2241, SDR 26, ALL DEPTHS, INCLUDING CEMENT STABILIZED BACKFILL, RISER, WYE, PLUG, MARKER, AND ANY NECESSARY FITTINGS, ETC., COMPLETE IN PLACE	EA	42	\$700.00	\$29,400.00
6.	STANDARD SANITARY SEWER MANHOLE FOR 6" - 24" SANITARY SEWER PIPES, (8' DEPTH), COMPLETE IN PLACE	EA	38	\$2,000.00	\$76,000.00
7.	EXTRA DEPTH OF SANITARY SEWER MANHOLE, OVER 8' DEPTH, COMPLETE IN PLACE	VF	173	\$150.00	\$25,950.00
8.	STANDARD SANITARY SEWER M.H. DROP STRUCTURE (0-2'), COMPLETE IN PLACE	EA	2	\$400.00	\$800.00
9.	EXTRA DEPTH OF SANITARY SEWER M.H. DROP STRUCTURE (OVER 2'), COMPLETE IN PLACE	VF	6	\$30.00	\$180.00
10.	LONG SIDE DOUBLE OR SINGLE 8" PVC PIPE SERVICE LEADS ASTM D2241, SDR 26, ALL DEPTHS, INCLUDING CEMENT STABILIZED BACKFILL, RISER, WYE, PLUG, MARKER, AND ANY NECESSARY FITTINGS, ETC., COMPLETE IN PLACE	LF	111	\$40.00	\$4,440.00
11.	STANDARD 6" SANITARY SEWER STACK, (ALL DEPTHS), COMPLETE IN PLACE	EA	42	\$250.00	\$10,500.00
12.	SANITARY SEWER PLUG (ALL DEPTHS AND SIZES), COMPLETE IN PLACE	EA	4	\$60.00	\$240.00
13.	TRENCH SAFETY SYSTEM, ALL DEPTHS, COMPLETE IN PLACE	LF	5,372	\$1.00	\$5,372.00
SUBTOTAL SANITARY SEWER ITEMS					\$477,271.45
STORM SEWER SYSTEM ITEMS					
1.	24" RCP STORM SEWER, ASTM C-76, CLASS III, ALL DEPTHS, COMPLETE IN PLACE	LF	2,468	\$60.86	\$150,202.48
2.	30" RCP STORM SEWER, ASTM C-76, CLASS III, ALL DEPTHS, COMPLETE IN PLACE	LF	1,932	\$73.69	\$142,369.08
3.	36" RCP STORM SEWER, ASTM C-76, CLASS III, ALL DEPTHS, COMPLETE IN PLACE	LF	239	\$97.83	\$23,381.37
4.	42" RCP STORM SEWER, ASTM C-76, CLASS III, ALL DEPTHS, COMPLETE IN PLACE	LF	1,103	\$124.33	\$137,135.99
5.	60" RCP STORM SEWER, ASTM C-76, CLASS III, ALL DEPTHS, COMPLETE IN PLACE	LF	244	\$251.23	\$61,300.12
6.	84" RCP STORM SEWER, ASTM C-76, CLASS III, ALL DEPTHS, COMPLETE IN PLACE	LF	717	\$458.21	\$328,536.57
7.	5' X 5' R.C.B. STORM SEWER BOX, ASTM C-1433, ALL DEPTHS, COMPLETE IN PLACE	LF	144	\$310.10	\$44,654.40
8.	STAGE I - STANDARD 5' REINFORCED CONCRETE PRECAST INLET ("H-2") ALL DEPTHS, INCLUDES INLET PROTECTION BARRIER FOR STAGE I INLET, COMPLETE IN PLACE	EA	26	\$1,800.00	\$46,800.00
9.	STAGE II - STANDARD 5' REINFORCED CONCRETE PRECAST OR REINFORCED CONCRETE CAST-IN-PLACE (4,000 PSI) INLET ("H-2"), COMPLETE IN PLACE	EA	26	\$1,000.00	\$26,000.00
10.	STAGE I - STANDARD PRECAST INLET TYPE "C-1," ALL DEPTHS, (INCLUDES INLET PROTECTION BARRIER FOR STAGE I INLETS), COMPLETE IN PLACE	EA	14	\$1,100.00	\$15,400.00

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 TO SERVE PECAN ESTATES SECTION 1
 CROSBY MUNICIPAL UTILITY DISTRICT
 CITY OF HOUSTON E.T.J., HARRIS COUNTY, TEXAS
 FEBRUARY 22, 2019
 LJA ENGINEERING, INC.
 C. DURHAM
 FEBRUARY 22, 2019
 2435-0112D (9.2)

7) REDDICO CONSTRUCTION CO., INC.

ITEM	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
11.	STAGE II - STANDARD PRECAST INLET TYPE "C-1," (INCLUDES TEMPORARY SAND - FILLED BURLAP BAGS FOR EROSION AND SEDIMENT CONTROL), COMPLETE IN PLACE	EA	10	\$2,000.00	\$20,000.00
12.	TYPE "C" PRECAST OR CAST-IN-PLACE MANHOLE FOR 42" STORM SEWERS AND SMALLER, ALL DEPTHS, COMPLETE IN PLACE	EA	33	\$2,900.00	\$95,700.00
13.	TYPE "C" PRECAST OR CAST-IN-PLACE MANHOLE FOR 48" STORM SEWERS AND LARGER, ALL DEPTHS, COMPLETE IN PLACE	EA	2	\$5,200.00	\$10,400.00
14.	JUNCTION BOX, WITH MANHOLE TOP FOR BOX CULVERT STORM SEWER, ALL DEPTHS, COMPLETE IN PLACE	EA	3	\$8,100.00	\$24,300.00
15.	TYPE "C" PRECAST OR CAST-IN-PLACE MANHOLE FOR 78" STORM SEWERS AND LARGER, ALL DEPTHS, COMPLETE IN PLACE	EA	2	\$12,000.00	\$24,000.00
16.	TYPE "C" CAST-IN-PLACE MANHOLE #49, TO BUILD ON EXISTING 84" STORM SEWER, COMPLETE IN PLACE	EA	1	\$14,000.00	\$14,000.00
17.	TYPE "C" PRECAST OR CAST-IN-PLACE MANHOLE FOR 42" STORM SEWER AND SMALLER WITH TYPE "E" INLET TOP, COMPLETE IN PLACE	EA	3	\$3,000.00	\$9,000.00
18.	5' X 5' RCB STORM SEWER OUTFALL STRUCTURE, INCLUDING APPROX. 170 SY OF RIP RAP (18" THICKNESS), GRADATION NO. 1, INCLUDING GEOTEXTILE FABRIC, ("MIRAFI-600" OR APPROVED EQUAL), COMPLETE IN PLACE	LS	1	\$24,000.00	\$24,000.00
19.	84" RCP STORM SEWER OUTFALL STRUCTURE, INCLUDING APPROX. 280 SY OF RIP RAP (18" THICKNESS), GRADATION NO. 1, INCLUDING GEOTEXTILE FABRIC, ("MIRAFI-600" OR APPROVED EQUAL), COMPLETE IN PLACE	LS	1	\$32,000.00	\$32,000.00
20.	PROPOSED RELOCATED DRAINAGE DITCH WITH 3:1 SIDE SLOPES, 10' BOTTOM WIDTH, DIRT MATERIAL EXCAVATED WILL BE USED TO FILL ONSITE EXISTING DRAINAGE DITCH AND SWALES (INCLUDES EXCAVATION, HAULING, PLACEMENT, COMPACTION TO 95% STANDARD DENSITY, DEMUCKING, AND SCARIFY), COMPLETE IN PLACE	CY	12,780	\$10.50	\$134,190.00
21.	PROPOSED TEMPORARY DRAINAGE DITCH WITH 3:1 SIDE SLOPES, 10' BOTTOM WIDTH, DIRT MATERIAL EXCAVATED WILL BE USED TO FILL ONSITE EXISTING DRAINAGE DITCH AND SWALES (INCLUDES EXCAVATION, HAULING, PLACEMENT, COMPACTION TO 95% STANDARD DENSITY, DESILTING, DEMUCKING, AND SCARIFY), COMPLETE IN PLACE	CY	3,605	\$10.50	\$37,852.50
22.	8" BRICK PLUG (ALL SIZES), COMPLETE IN PLACE	EA	1	\$100.00	\$100.00
23.	PROPOSED V-BOTTOM SWALE WITH 3:1 S.S., COMPLETE IN PLACE	LF	4,250	\$3.50	\$14,875.00
24.	TRENCH SAFETY SYSTEM, ALL DEPTHS, COMPLETE PLACE	LF	6,910	\$0.10	\$691.00
SUBTOTAL STORM SEWER SYSTEM ITEMS					\$1,416,888.51
DEWATERING ITEMS					
1.	BEDDING AND BACKFILL FOR SANITARY SEWER WET SAND CONSTRUCTION AND UNSATISFACTORY SOIL CONDITIONS (PER DETAIL), (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	LF	5,400	\$15.00	\$81,000.00
2.	DEWATERING FOR SANITARY SEWER (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	LF	5,400	\$29.00	\$156,600.00
3.	BEDDING AND BACKFILL FOR STORM SEWER WET SAND CONSTRUCTION AND UNSATISFACTORY SOIL CONDITIONS (PER DETAIL), (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	LF	1,000	\$15.00	\$15,000.00

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 CROSBY MUNICIPAL UTILITY DISTRICT
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 FEBRUARY 22, 2019
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 C. DURHAM
 FEBRUARY 22, 2019
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7) REDDICO CONSTRUCTION CO., INC.

ITEM DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
4. DEWATERING FOR STORM SEWER (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	LF	1,000	\$29.00	\$29,000.00
SUBTOTAL DEWATERING ITEMS				\$281,600.00
MISCELLANEOUS ITEMS				
1. REMOVE AND DISPOSE EXISTING ASPHALT, INCLUDES SUBGRADE AND DISPOSAL OUTSIDE THE BOUNDARY OF THE DEVELOPMENT TO A LOCATION CONTRACTOR HAS AUTHORIZATION TO DUMP, COMPLETE IN PLACE	SY	440	\$28.00	\$12,320.00
2. REMOVE AND DISPOSE OF EXISTING GUARD RAILS AND BOLLARDS, INCLUDES DISPOSAL OUTSIDE THE BOUNDARY OF THE DEVELOPMENT TO A LOCATION CONTRACTOR HAS AUTHORIZATION TO DUMP, COMPLETE IN PLACE	LS	1	\$1,500.00	\$1,500.00
3. REMOVE & DISPOSE OF EXIST STORM SEWER OUTFALL, (410 S.Y. RIP RAP AND 45 L.F. - 84 STM.), INCLUDES DISPOSAL OUTSIDE THE BOUNDARY OF THE DEVELOPMENT TO A LOCATION CONTRACTOR HAS AUTHORIZATION TO DUMP, COMPLETE IN PLACE	LS	1	\$11,000.00	\$11,000.00
4. REMOVE AND DISPOSE OF EXISTING IRRIGATION LINE WITH 4" CONNECTIONS, INCLUDES DISPOSAL OUTSIDE THE BOUNDARY OF THE DEVELOPMENT TO A LOCATION CONTRACTOR HAS AUTHORIZATION TO DUMP, (TO BE FIELD VERIFIED BY ENGINEER, CONTRACTOR AND PROPERTY OWNER PRIOR TO REMOVAL), COMPLETE IN PLACE	LF	650	\$7.00	\$4,550.00
5. CLEARING AND GRUBBING BY CHIPPING, INCLUDES REMOVING ALL TREE STUMPS, ROOT RAKING, CLEARING OF ALL DEBRIS, HAULING OF ALL INORGANIC AND ORGANIC MATERIAL OUTSIDE THE BOUNDARY OF THE DEVELOPMENT TO A LOCATION CONTRACTOR HAS AUTHORIZATION TO DISPOSE, COMPLETE IN PLACE	AC	1	\$15,000.00	\$15,000.00
6. REMOVE AND DISPOSE OF EXISTING GRAVEL ROAD, INCLUDES DISPOSAL OUTSIDE THE BOUNDARY OF THE DEVELOPMENT TO A LOCATION CONTRACTOR HAS AUTHORIZATION TO DUMP (TO BE FIELD VERIFIED BY ENGINEER, CONTRACTOR AND PROPERTY OWNER PRIOR TO REMOVAL), COMPLETE IN PLACE	SY	1,840	\$13.00	\$23,920.00
7. CEMENT STABILIZED SAND BACKFILL, (1.1 SACKS PER TON), (TO BE USED ONLY AT THE DIRECTION OF ENGINEER), COMPLETE IN PLACE	CY	500	\$15.00	\$7,500.00
8. COST OF SANITARY SEWER WET SAND CONSTRUCTION AS PER CITY OF HOUSTON DRAWING NO. 02317-01, ALL LINE SIZES AND DEPTHS, (TO BE USED ONLY AT THE DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	LF	500	\$5.00	\$2,500.00
9. COST OF STORM SEWER WET SAND CONSTRUCTION AS PER CITY OF HOUSTON DRAWING NO. 02317-02, ALL LINE SIZES AND DEPTHS, (TO BE USED ONLY AT THE DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	LF	100	\$5.00	\$500.00
10. COST OF WET SAND CONSTRUCTION UNDER MANHOLE AS PER CITY OF HOUSTON DRAWING NO. 02082-05 (EFFECTIVE DATE ON OCTOBER 1, 2002 OR LATEST DETAIL), ALL DEPTHS, (TO BE USED ONLY AT THE DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	EA	1	\$50.00	\$50.00
11. ADJUST EXISTING MANHOLE RIM ELEVATION AS REQUIRED (TO BE USED ONLY AT THE DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	EA	1	\$150.00	\$150.00
12. UTILITY SPOILS TO BE USED AS FILL FOR EXISTING SWALES AND EXISTING DRAINAGE DITCH, INCLUDES PLACEMENT AND COMPACTION TO 95% STANDARD PROCTOR DENSITY, DEMUCKING AND SCARIFY OF FILL AREAS, COMPLETE IN PLACE	CY	14,000	\$12.00	\$168,000.00

* MATHEMATICAL ERROR

BID TABULATION FOR:

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

CONSTRUCTION OF THE WATER, SANITARY SEWER AND DRAINAGE FACILITIES
 TO SERVE PECAN ESTATES SECTION 1
 CROSBY MUNICIPAL UTILITY DISTRICT
 CITY OF HOUSTON E.T.J., HARRIS COUNTY, TEXAS
 FEBRUARY 22, 2019
 LJA ENGINEERING, INC.
 C. DURHAM
 FEBRUARY 22, 2019
 2435-01 12D (9.2)

7) REDDICO CONSTRUCTION CO., INC.

ITEM	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
13.	EXISTING SIDEWALK TO BE REMOVED AND REPLACE AS REQUIRED FOR CONSTRUCTION OF 12" WATERLINE	LF	700	\$30.00	\$21,000.00
14.	RIP RAP (18" THICKNESS), GRADATION NO. 1, INCLUDING GEOTEXTILE FABRIC, ("MIRAFI-600" OR APPROVED EQUAL), FOR DRAINAGE DITCH, COMPLETE IN PLACE	SY	514	\$51.00	\$26,214.00
15.	TEMPORARY STORM PLUG FOR EXISTING 84" RCP STORM SEWER THAT OUTFALLS INTO EXISTING DRAINAGE DITCH, TO INCLUDE INSTALLATION AND REMOVAL, LABOR & MATERIALS NECESSARY TO REMOVE WATER FROM THE EXISTING DITCH TO CREATE A DRY WORKING ENVIRONMENT, COMPLETE IN PLACE	LS	1	\$1,000.00	\$1,000.00
16.	PUMP DOWN (WITH 4-INCH PUMP) STANDING WATER IN, AS NECESSARY TO CREATE A DRY WORKING ENVIRONMENT FOR THE INSTALL OF THE PROPOSED STORM SEWER IMPROVEMENTS, COMPLETE IN PLACE	HRS	50	\$37.00	\$1,850.00
17.	REMOVE AND DISPOSE OF EXISTING RIPRAP, INCLUDES DISPOSAL OUTSIDE THE BOUNDARY OF THE DEVELOPMENT TO A LOCATION CONTRACTOR HAS AUTHORIZATION TO DUMP, COMPLETE IN PLACE	SY	300	\$30.00	\$9,000.00
SUBTOTAL MISCELLANEOUS ITEMS					\$306,054.00
SWPPP ITEMS					
1.	SILT FENCE INLET PROTECTION BARRIERS, SWMHCA SPECIFICATION NO. 4511, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	EA	45	\$60.00	\$2,700.00
2.	INSTALLATION AND REMOVAL OF REINFORCED FILTER FABRIC FENCE SWMHCA SPECIFICATIONS NO. 4311, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	LF	5,500	\$1.75	\$9,625.00
3.	HYDRO-MULCH SEEDING FOR PROPOSED DITCH SIDE SLOPE, COMPLETE IN PLACE	AC	2	\$1,600.00	\$3,200.00
4.	STABILIZED CONSTRUCTION EXIT, INCLUDING INSTALLATION, MAINTENANCE AND REMOVAL, COMPLETE IN PLACE	EA	1	\$2,300.00	\$2,300.00
5.	INSTALL MAINTAIN AND REMOVE CONCRETE TRUCK WASHOUT, COMPLETE IN PLACE	EA	1	\$200.00	\$200.00
SUBTOTAL SWPPP ITEMS					\$18,025.00
BID SUMMARY					
SUBTOTAL WATER ITEMS					\$415,874.82
SUBTOTAL SANITARY SEWER ITEMS					\$477,271.45
SUBTOTAL STORM SEWER SYSTEM ITEMS					\$1,416,888.51
SUBTOTAL DEWATERING ITEMS					\$281,600.00
SUBTOTAL MISCELLANEOUS ITEMS					\$306,054.00
SWPPP ITEMS					\$18,025.00
TOTAL AMOUNT BID					\$2,915,713.78