

BID TABULATION FOR:

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

CONSTRUCTION OF THE TRAFFIC SIGNAL
TO SERVE THE MARKET AT KATY PARK "MORTON RANCH ROAD"
AND KATY HOCKLEY CUT-OFF ROAD
HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 536
CITY OF KATY, HARRIS COUNTY, TEXAS
MARCH 2, 2023
LJA ENGINEERING, INC.
D. FORREST
MARCH 2, 2023
1418-0003 (9.2)

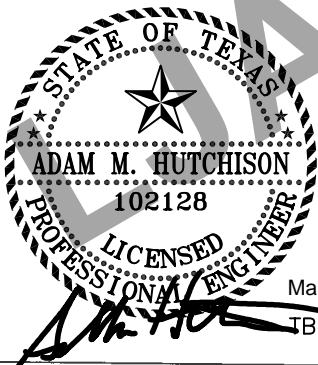
BIDDER'S NAME

- 1) TRAFFIC SYSTEMS CONSTRUCTION, INC.
- 2) TRAF - TEX, INC.

**TOTAL BID
AMOUNT**

\$672,672.00
\$740,409.55 *

CALENDAR DAYS - 100/150



March 2, 2023
TBPE F#1386

I, Adam Hutchison, P.E., hereby certify these bid tabulations to be true and correct.

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CONSTRUCTION OF THE TRAFFIC SIGNAL
 TO SERVE THE MARKET AT KATY PARK 'MORTON RANCH ROAD'
 HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 536
 CITY OF KATY, HARRIS COUNTY, TEXAS
 MARCH 2, 2023
 LJA ENGINEERING, INC.
 D. FORREST
 MARCH 2, 2023
 1418-0003 (9.2)

ITEM DESCRIPTION	TXDOT	UNIT	QTY	1) TRAFFIC SYSTEMS CONSTRUCTION, INC.		2) TRAF - TEX, INC.	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
MORTON ROAD AT SALT GRASS WAY TRAFFIC SIGNAL ITEMS							
1. INSTALL 36" DRILLED SHAFT TRAFFIC SIGNAL POLE FOUNDATION (CLASS B2 CONCRETE) AND ANCHOR BOLTS FOR 34' STEEL STRAIN POLE, SPEC NO. 411	411	LF	45	\$275.00	\$12,375.00	\$234.50	\$10,552.50
2. INSTALL 48" DRILLED SHAFT TRAFFIC SIGNAL POLE FOUNDATION (CLASS B2 CONCRETE) AND ANCHOR BOLTS FOR 34' STEEL STRAIN POLE, SPEC NO. 416-6034 (TXDOT)	416-6034 TXDOT	LF	22	\$600.00	\$13,200.00	\$737.50	\$16,225.00
3. REFLECTORIZED PAVEMENT MARKINGS TY I, W, SOLID, 4", SPEC NO. 660	660	LF	380	\$0.85	\$323.00	\$0.80	\$304.00
4. REFLECTORIZED PAVEMENT MARKINGS TY I, W, SOLID, 8"	660	LF	568	\$2.35	\$1,334.80	\$2.22	\$1,260.96
5. REFLECTORIZED PAVEMENT MARKINGS TY I, W, SOLID, 12"	660	LF	576	\$3.60	\$2,073.60	\$3.40	\$1,958.40
6. REFLECTORIZED PAVEMENT MARKINGS TY I, W, SOLID, 24"	660	LF	147	\$7.05	\$1,036.35	\$6.70	\$984.90
7. REFLECTORIZED PAVEMENT MARKINGS TY I, W, ARROW	660	LF	7	\$175.00	\$1,225.00	\$166.65	\$1,166.55
8. REFLECTORIZED PAVEMENT MARKINGS TY I, W, WORD	660	LF	5	\$225.00	\$1,125.00	\$211.10	\$1,055.50
9. REFLECTORIZED PAVEMENT MARKINGS TY I, Y, SOLID, 4"	660	LF	400	\$0.85	\$340.00	\$0.80	\$320.00
10. REFLECTORIZED PAVEMENT MARKINGS TY II, Y, MEDIAN NOSE	660	EA	650	\$0.95	\$617.50	\$0.90	\$585.00
11. REFLECTORIZED PAVEMENT MARKINGS, TY II C-R	663	EA	126	\$5.65	\$711.90	\$5.35	\$674.10
12. REFLECTORIZED PAVEMENT MARKINGS, TY II A-A	663	EA	24	\$5.65	\$135.60	\$5.35	\$128.40
13. TRAFFIC BUTTONS, W, 4"	663	EA	114	\$4.15	\$473.10	\$3.90	\$444.60
14. ELIMINATE EXISTING PAVEMENT MARKINGS 4"	674	EA	390	\$0.50	\$195.00	\$0.45	\$175.50
15. ELIMINATE EXISTING PAVEMENT MARKINGS 8"	674	EA	180	\$0.70	\$126.00	\$0.70	\$126.00
16. ELIMINATE EXISTING PAVEMENT MARKINGS 12"	674	EA	131	\$1.05	\$137.55	\$1.00	\$131.00
17. ELIMINATE EXISTING PAVEMENT MARKINGS 24"	674	EA	30	\$1.75	\$52.50	\$1.70	\$51.00
18. ELIMINATE EXISTING PAVEMENT MARKINGS ARROW	674	EA	1	\$25.00	\$25.00	\$22.25	\$22.25
19. ELIMINATE EXISTING PAVEMENT MARKINGS WORD	674	EA	1	\$25.00	\$25.00	\$22.25	\$22.25
20. PVC CONDUIT, 1"	677	EA	170	\$17.15	\$2,915.50	\$9.25	\$1,572.50
21. PVC CONDUIT, 2"	677	LF	1,250	\$17.75	\$22,187.50	\$16.75	\$20,937.50
22. PVC CONDUIT, 3"	677	LF	30	\$35.75	\$1,072.50	\$26.00	\$780.00
23. PVC CONDUIT 4"	677	LF	95	\$34.50	\$3,277.50	\$30.80	\$2,926.00
24. PVC CONDUIT 4" (BORE)	677	LF	335	\$30.00	\$10,050.00	\$40.00	\$13,400.00
25. TRAFFIC SIGNAL CABLE, INSULATED, 2/C #14 (IMSA 20-1)	679	LF	1,825	\$1.40	\$2,275.00	\$1.25	\$2,031.25
26. TRAFFIC SIGNAL CABLE, INSULATED, 4/C #14 (IMSA 20-1)	679	EA	1,670	\$1.90	\$3,173.00	\$2.20	\$3,674.00
27. TRAFFIC SIGNAL CABLE, INSULATED, 7/C #14 (IMSA 20-1)	679	EA	1,695	\$2.50	\$4,237.50	\$2.50	\$4,237.50
28. LUMINAIRE & SIGN LIGHT CABLE, 2/C #14 (IMSA 20-1)	679	LF	995	\$1.45	\$1,442.75	\$1.25	\$1,243.75
29. 34' BLACK POWDER COATED CLAMP-ON MAST ARM ASSEMBLY WITH 30' MAST ARM	680	EA	1	\$15,825.00	\$15,825.00	\$17,509.00	\$17,509.00

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CONSTRUCTION OF THE TRAFFIC SIGNAL
 TO SERVE THE MARKET AT KATY PARK "MORTON RANCH ROAD"
 HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 536
 CITY OF KATY, HARRIS COUNTY, TEXAS
 MARCH 2, 2023
 LJA ENGINEERING, INC.
 D. FORREST
 MARCH 2, 2023
 1418-0003 (9.2)

1) TRAFFIC SYSTEMS CONSTRUCTION, INC.

2) TRAF - TEX, INC.

ITEM DESCRIPTION	TXDOT	UNIT	QTY	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
30. 34' BLACK POWDER COATED CLAMP-ON MAST ARM ASSEMBLY WITH 40' MAST ARM	680	EA	1	\$18,700.00	\$18,700.00	\$19,790.00	\$19,790.00
31. 34' BLACK POWDER COATED CLAMP-ON MAST ARM ASSEMBLY WITH 44' MAST ARM	680	EA	1	\$19,015.00	\$19,015.00	\$20,287.00	\$20,287.00
32. 34' BLACK POWDER COATED CLAMP-ON MAST ARM ASSEMBLY WITH 55' MAST ARM	686-6058 TXDOT	EA	1	\$38,035.00	\$38,035.00	\$31,081.00	\$31,081.00
33. 10' BLACK POWDER COATED ALUMINUM PEDESTAL POLE, WITH SCREW-IN FOUNDATION	683	EA	5	\$2,785.00	\$13,925.00	\$3,349.00	\$16,745.00
34. L.E.D. LUMINAIRE EQUIVALENT TO 400 WATT H.P.S. WITH 15' BLACK POWDER COATED ARM	686	EA	2	\$1,735.00	\$3,470.00	\$1,986.00	\$3,972.00
35. ONE-WAY, 3-SECTION, 12" HORIZONTAL L.E.D. SIGNAL HEAD (R, Y, G)	690	EA	8	\$1,090.00	\$8,720.00	\$797.00	\$6,376.00
36. ONE-WAY, 4-SECTION, 12" HORIZONTAL L.E.D. SIGNAL HEAD (<R,<R, <Y, <G) WITH "LEFT TURN SIGNAL" SIGN (48" X 12")	690	EA	2	\$1,205.00	\$2,410.00	\$1,025.00	\$2,050.00
37. L.E.D. COUNTDOWN PEDESTRIAN SIGNAL HEAD, WITH PUSH BUTTON AND SIGN	699	EA	8	\$650.00	\$5,200.00	\$566.00	\$4,528.00
38. PULL BOX (TY D)	1000	EA	14	\$1,225.00	\$17,150.00	\$851.00	\$11,914.00
39. GROUND BOX WITH APRON	1000	EA	1	\$2,875.00	\$2,875.00	\$2,020.00	\$2,020.00
40. #4 XHHW POWER CABLE	1000	LF	50	\$2.75	\$137.50	\$2.76	\$138.00
41. #8 BARE GROUND CABLE	1000	LF	715	\$1.50	\$1,072.50	\$1.38	\$986.70
42. DETECTOR LEAD-IN-CABLE, SHIELDED, 2/C #14 (IMSA 50-2)	1000	LF	3,154	\$1.45	\$4,573.30	\$1.28	\$4,037.12
43. LOOP DETECTOR CABLE, 2-#14 XHHW	1000	LF	7,140	\$1.45	\$10,353.00	\$1.05	\$7,497.00
44. RADAR DETECTOR CABLE, 6/C #14	H.C. APPROV	LF	525	\$2.25	\$1,181.25	\$3.00	\$1,575.00
45. PEDESTRIAN PUSH BUTTON CONTROLLER UNIT (APS)	1000	EA	1	\$9,195.00	\$9,195.00	\$9,588.00	\$9,588.00
46. INSTALL FULLY-ACTUATED TRAFFIC SIGNAL SYSTEM	1000	EA	1	\$40,905.00	\$40,905.00	\$119,402.00	\$119,402.00
47. SAWCUT AND INSTALL LOOP DETECTORS	1000	LF	947	\$13.25	\$12,547.75	\$13.20	\$12,500.40
48. METER POLE WITH SERVICE WIRE & DISCONNECT, TYPE D 120/240 70 (NS) SS (E) SP (U) ON 4"X4"X5' BLACK POWDER COATED POLE, INCLUDES DISCONNECT, MAIN BREAKERS, ENCLOSURES, LUMINAIRE ARRESTORS, PHOTO CELL, AND P.E. WITH SAFETY SWITCH	1000	EA	1	\$6,850.00	\$6,850.00	\$8,034.00	\$8,034.00
49. MORTON RANCH RD STREET NAME SIGN (D3-1, 90" X 18")	1000	EA	2	\$835.00	\$1,670.00	\$706.00	\$1,412.00
50. SALT GRASS TRAIL WAY STREET NAME SIGN (D3-1, 105" X 18")	1000	EA	2	\$915.00	\$1,830.00	\$706.00	\$1,412.00
51. LEFT TURN YIELD* OVERHEAD MAST ARM SIGN (24" X 30")	1000	EA	2	\$495.00	\$990.00	\$437.00	\$874.00
52. FURNISH AND INSTALL 48". LED SIGN LIGHT ASSEMBLY FOR "LEFT TURN SIGNAL" SIGN	1000	EA	2	\$625.00	\$1,250.00	\$1,032.00	\$2,064.00
53. GROUND MOUNTED (ITS HOUSING 3) CABINET, INCLUDING CABINET COMMUNICATIONS SYSTEMS, BATTER BACK-UP SYSTEM, AERIAL SPLICE FOR INTERCONNECTION, AND CABINET MONITORING SYSTEM CAPABLE FOR FLASHING YELLOW OPERATION	1210 HC APPROV	EA	1	\$46,875.00	\$46,875.00	\$43,247.00	\$43,247.00
54. CONCRETE FOUNDATION FOR GROUND MOUNTED CABINET	DRAWING	EA	1	\$2,425.00	\$2,425.00	\$2,613.00	\$2,613.00
55. ATC 2071 HC LCS CONTROLLER UNIT	SS2071	EA	1	\$6,575.00	\$6,575.00	\$6,167.00	\$6,167.00
SUBTOTAL MORTON ROAD AT SALT GRASS WAY TRAFFIC SIGNAL ITEMS					\$379,918.45		\$444,809.63

* MATHEMATICAL ERROR

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 TO SERVE THE MARKET AT KATY PARK *MORTON RANCH ROAD*
 HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 536
 CITY OF KATY, HARRIS COUNTY, TEXAS
 MARCH 2, 2023
 LJA ENGINEERING, INC.
 D. FORREST
 MARCH 2, 2023
 1418-0003 (9.2)

ITEM DESCRIPTION	TXDOT	UNIT	QTY	1) TRAFFIC SYSTEMS CONSTRUCTION, INC.		2) TRAF - TEX, INC.	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
KATY HOCKLEY CUT-OFF ROAD AT KATY MARK MARKET DR SIGNAL ITEMS							
1. INSTALL 36" DRILLED SHAFT TRAFFIC SIGNAL POLE FOUNDATION (CLASS B2 CONCRETE) AND ANCHOR BOLTS FOR 34' STEEL STRAIN POLE	411	VF	45	\$275.00	\$12,375.00	\$247.00	\$11,115.00
2. REFLECTORIZED PAVEMENT MARKINGS TY I, W, SOLID, 4"	660	LF	470	\$0.85	\$399.50	\$0.80	\$376.00
3. REFLECTORIZED PAVEMENT MARKINGS TY I, W, SOLID, 8"	660	LF	185	\$2.35	\$434.75	\$2.22	\$410.70
4. REFLECTORIZED PAVEMENT MARKINGS TY I, W, SOLID, 12"	660	LF	424	\$3.60	\$1,526.40	\$3.40	\$1,441.60
5. REFLECTORIZED PAVEMENT MARKINGS TY I, W, SOLID, 24"	660	LF	92	\$7.05	\$648.60	\$6.70	\$616.40
6. REFLECTORIZED PAVEMENT MARKINGS TY I, W, ARROW	660	EA	3	\$175.00	\$525.00	\$166.65	\$499.95
7. REFLECTORIZED PAVEMENT MARKINGS TY I, W, WORD	660	EA	3	\$225.00	\$675.00	\$211.00	\$633.00
8. REFLECTORIZED PAVEMENT MARKINGS TY I, Y, SOLID, 4"	660	LF	300	\$0.85	\$255.00	\$0.80	\$240.00
9. REFLECTORIZED PAVEMENT MARKINGS TY II, Y, MEDIAN NOSE	660	LF	318	\$0.95	\$302.10	\$0.90	\$286.20
10. REFLECTORIZED PAVEMENT MARKINGS, TY I C	660	EA	24	\$5.75	\$138.00	\$5.35	\$128.40
11. REFLECTORIZED PAVEMENT MARKINGS, TY II C-R	663	EA	38	\$5.75	\$218.50	\$5.35	\$203.30
12. REFLECTORIZED PAVEMENT MARKINGS, TY II A-A	663	EA	16	\$5.75	\$92.00	\$5.35	\$85.60
13. TRAFFIC BUTTONS, W, 4"	663	EA	38	\$4.15	\$157.70	\$3.89	\$147.82
14. PVC CONDUIT, 2"	677	LF	130	\$25.85	\$3,360.50	\$16.85	\$2,190.50
15. PVC CONDUIT, 3"	677	LF	30	\$36.50	\$1,095.00	\$26.00	\$780.00
16. PVC CONDUIT 4"	677	LF	165	\$30.50	\$5,032.50	\$30.90	\$5,098.50
17. PVC CONDUIT 4" (BORE)	677	LF	225	\$36.50	\$8,212.50	\$40.00	\$9,000.00
18. TRAFFIC SIGNAL CABLE, INSULATED, 2/C #14 (IMSA 20-1)	679	LF	1,170	\$1.35	\$1,579.50	\$1.25	\$1,462.50
19. TRAFFIC SIGNAL CABLE, INSULATED, 4/C #14 (IMSA 20-1)	679	LF	1,200	\$1.65	\$1,980.00	\$2.20	\$2,640.00
20. TRAFFIC SIGNAL CABLE, INSULATED, 7/C #14 (IMSA 20-1)	679	LF	815	\$2.40	\$1,956.00	\$2.50	\$2,037.50
21. LUMINAIRE & SIGN LIGHT CABLE, 2/C #14 (IMSA 20-1)	679	LF	645	\$1.35	\$870.75	\$1.25	\$806.25
22. VIVDS CABLE, INSULATED, 3/C #16 (IMSA 20-1)	679	LF	960	\$2.50	\$2,400.00	\$2.10	\$2,016.00
23. VIVDS CABLING	6306-6007	TXDOT					
24. 34' BLACK POWDER COATED CLAMP-ON MAST ARM ASSEMBLY WITH 25' MAST ARM	680	EA	1	\$15,975.00	\$15,975.00	\$17,024.00	\$17,024.00
25. 34' BLACK POWDER COATED CLAMP-ON MAST ARM ASSEMBLY WITH 35' MAST ARM	680	EA	1	\$16,850.00	\$16,850.00	\$19,911.00	\$19,911.00
26. 34' BLACK POWDER COATED CLAMP-ON MAST ARM ASSEMBLY WITH 42' MAST ARM	680	EA	1	\$19,000.00	\$19,000.00	\$19,939.00	\$19,939.00
27. 10' BLACK POWDER COATED ALUMINUM PEDESTAL POLE, WITH SCREW-IN FOUNDATION	683	EA	2	\$2,975.00	\$5,950.00	\$3,349.00	\$6,698.00
28. L.E.D. LUMINAIRE EQUIVALENT TO 400 WATT H.P.S. WITH 15' BLACK POWDER COATED ARM	686	EA	2	\$2,075.00	\$4,150.00	\$1,986.00	\$3,972.00
29. ONE-WAY, 3-SECTION, 12" HORIZONTAL L.E.D. SIGNAL HEAD (R, Y, G)	690	EA	6	\$1,005.00	\$6,030.00	\$797.00	\$4,782.00
30. ONE-WAY, 4-SECTION, 12" HORIZONTAL L.E.D. SIGNAL HEAD (<R,<R,<Y,<G) WITH "LEFT TURN SIGNAL" SIGN (48" X 12")	690	EA	1	\$1,115.00	\$1,115.00	\$1,026.00	\$1,026.00

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1) TRAFFIC SYSTEMS CONSTRUCTION, INC.

2) TRAF - TEX, INC.

ITEM DESCRIPTION	TXDOT	UNIT	QTY	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
31. L.E.D. COUNTDOWN PEDESTRIAN SIGNAL HEAD, WITH PUSH BUTTON AND SIGN	699	EA	6	\$650.00	\$3,900.00	\$566.00	\$3,396.00
32. PULL BOX (TY D)	1000	EA	16	\$1,200.00	\$19,200.00	\$863.00	\$13,808.00
33. GROUND BOX WITH APRON	1000	EA	1	\$2,875.00	\$2,875.00	\$2,020.00	\$2,020.00
34. #4 XHHW POWER CABLE	1000	LF	50	\$5.00	\$250.00	\$2.73	\$136.50
35. #8 BARE GROUND CABLE	1000	LF	490	\$1.65	\$808.50	\$1.38	\$676.20
36. PEDESTRIAN PUSH BUTTON CONTROLLER UNIT (APS)	1000	EA	1	\$9,195.00	\$9,195.00	\$8,462.00	\$8,462.00
37. INSTALL FULLY-ACTUATED TRAFFIC SIGNAL SYSTEM	1000	EA	1	\$33,340.75	\$33,340.75	\$54,944.00	\$54,944.00
38. METER POLE WITH SERVICE WIRE & DISCONNECT, TYPE D 120/240 70 (NS) SS (E) SP (U) ON 4"X4"X5' BLACK POWDER COATED POLE. INCLUDES DISCONNECT, MAIN BREAKERS, ENCLOSURES, LUMINAIRE ARRESTORS, PHOTO CELL, AND P.E. WITH SAFETY SWITCH	1000	EA	1	\$6,850.00	\$6,850.00	\$8,110.00	\$8,110.00
39. KATY HOCKLEY CUT-OFF RD STREET NAME SIGN (D3-1, 138" X 18")	1000	EA	1	\$1,105.00	\$1,105.00	\$706.00	\$706.00
40. KATY PARK MARKET DR STREET NAME SIGN (D3-1, 114" X 18")	1000	EA	2	\$1,025.00	\$2,050.00	\$706.00	\$1,412.00
41. INSTALL VIDEO IMAGE DETECTION SYSTEM (VIVDS)	690-6084 TXDOT	EA	1	\$5,750.00	\$5,750.00	\$6,210.00	\$6,210.00
42. INSTALL VIVDS CAMERA	690-6138 TXDOT	EA	5	\$7,650.00	\$38,250.00	\$5,832.00	\$29,160.00
43. GROUND MOUNTED (ITS HOUSING 3) CABINET, INCLUDING CABINET COMMUNICATIONS SYSTEMS, BATTERY BACK-UP SYSTEM, AERIAL SPLICE FOR INTERCONNECTION, AND CABINET MONITORING SYSTEM CAPABLE FOR FLASHING YELLOW OPERATION	1210 H.C. APPROV	EA	1	\$46,875.00	\$46,875.00	\$42,175.00	\$42,175.00
44. CONCRETE FOUNDATION FOR GROUND MOUNTED CABINET	DRAWING	EA	1	\$2,425.00	\$2,425.00	\$2,654.00	\$2,654.00
45. ATC 2071 HC LCS CONTROLLER UNIT	SS2071	EA	1	\$6,575.00	\$6,575.00	\$6,163.00	\$6,163.00
SUBTOTAL KATY HOCKLEY CUT-OFF ROAD AT KATY MARK MARKET DR SIGNAL ITEMS					\$292,753.55		\$295,599.92 *
BID SUMMARY							
SUBTOTAL MORTON ROAD AT SALT GRASS WAY TRAFFIC SIGNAL ITEMS					\$379,918.45		\$444,809.63
SUBTOTAL KATY HOCKLEY CUT-OFF ROAD AT KATY MARK MARKET DR SIGNAL ITEMS					\$292,753.55		\$295,599.92
TOTAL AMOUNT BID					\$672,672.00		\$740,409.55 *