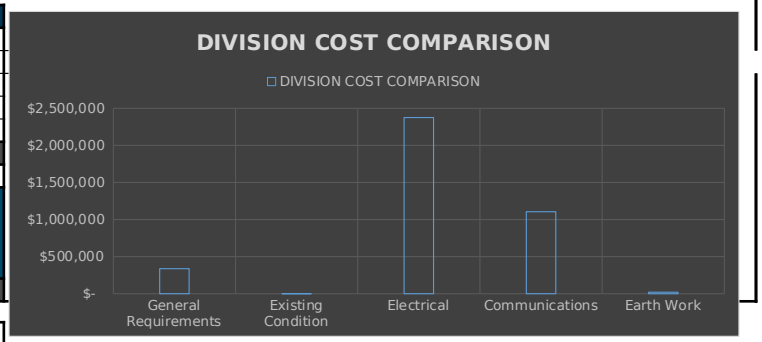
GENERAL SUMMARY

Prepared for: Kinder Morgan NGPL-Compressor Station 388 HP Addition afe-238039
Project ID: 14052026
Scope: Electrical & Instruments
Date: 28-Sep-26

ELECTRICAL ESTIMATION
+1 708-381-0900

DIVISION NO	DESCRIPTION	TOTAL DIV. COST
1000	General Requirements	$ 337,475
2000	Existing Condition	$ 538
26000	Electrical	$ 2,375,368
27000	Communications	$ 1,104,885
31000	Earth Work	$ 20,046
	TOTAL TRADE COST	$ 3,838,312

PROFIT	10%	$ 383,831
INSURANCE	3%	$ 115,149
CONTINGENCY	5%	$ 191,916
TAX	7%	$ 212,829
SUGGESTED BID		$ 4,742,037



Total Manhours	14988
Numbe of Working Hours per Day	10
Crew Size	18
Total Wokring Days	~84
Start Date	
End Date	

DETAILED BREAKDOWN OF ITEMS

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Project ID: 14052026
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Date: 09/28/26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
			GENERAL REQUIREMENTS										
1			Site Supervision (Field Clerk/Safety/Engineer/Quality)	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 38,675.00	$ 38,675.00
2			Project Manager	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 84,000.00	$ 84,000.00
3			Fork Lift & Scissor Lift Cost	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 28,500.00	$ 28,500.00
4			Equipment Handling Cost	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 8,500.00	$ 8,500.00
5			Excavator/Trencher Cost	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 1,800.00	$ 1,800.00
6			Per Diem Cost	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 126,000.00	$ 126,000.00
4			Testing & Comissioning	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 14,500.00	$ 14,500.00
5			Office Trailers & Facilities (BRMs, Lunch Tent(s), Bathrooms, etc.)	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 18,500.00	$ 18,500.00
6			Temporary Fencing, Barriers & Signage	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 9,500.00	$ 9,500.00
7			Security (incl. gates, guard shacks, etc.)	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 7,500.00	$ 7,500.00
												SUBTOTAL	**$ 337,475**
			EXISTING CONDITIONS										
			RELOCATION										
8			Existing Flood Light, Light Pole And Concrete Foundation To Be Relocated With	EA	1	0%	1	17.500	$ 30.72	$ 537.60	$ -	$ 537.60	$ 537.60
												SUBTOTAL	**$ 538**
			ELECTRICAL										
			DISTRIBUTION										
			CONDUIT										
9			2" EMT Conduit	LF	160	5%	168	0.102	$ 30.72	$ 3.14	$ 11.50	$ 14.64	$ 2,459.97
10			1" RGS Conduit	LF	18200	5%	19110	0.060	$ 30.72	$ 1.83	$ 6.25	$ 8.08	$ 154,470.26
11			2" RGS Conduit	LF	8305	5%	8720	0.102	$ 30.72	$ 3.14	$ 15.79	$ 18.93	$ 165,097.49
12			3" RGS Conduit	LF	260	5%	273	0.119	$ 30.72	$ 3.67	$ 28.55	$ 32.22	$ 8,795.09
13			4" RGS Conduit	LF	1255	5%	1318	0.136	$ 30.72	$ 4.19	$ 39.14	$ 43.33	$ 57,098.38
14			5" RGS Conduit	LF	1735	5%	1822	0.171	$ 30.72	$ 5.24	$ 76.68	$ 81.92	$ 149,233.68
15			6" RGS Conduit	LF	1275	5%	1339	0.188	$ 30.72	$ 5.76	$ 100.00	$ 105.76	$ 141,588.26
16			1" PVC COATED RIGID GALVANIZED CONDUIT	LF	16519	5%	17345	0.049	$ 30.72	$ 1.50	$ 8.96	$ 10.46	$ 181,484.32
17			2" PVC COATED RIGID GALVANIZED CONDUIT	LF	6820	5%	7161	0.084	$ 30.72	$ 2.58	$ 16.80	$ 19.38	$ 138,758.54
18			3" PVC COATED RIGID GALVANIZED CONDUIT	LF	675	5%	709	0.098	$ 30.72	$ 3.01	$ 31.36	$ 34.37	$ 24,357.24
19			4" PVC COATED RIGID GALVANIZED CONDUIT	LF	880	5%	924	0.112	$ 30.72	$ 3.44	$ 50.40	$ 53.84	$ 49,744.44
20			5" PVC COATED RIGID GALVANIZED CONDUIT	LF	1665	5%	1748	0.140	$ 30.72	$ 4.29	$ 80.81	$ 85.10	$ 148,781.26
21			6" PVC COATED RIGID GALVANIZED CONDUIT	LF	2040	5%	2142	0.154	$ 30.72	$ 4.72	$ 114.80	$ 119.52	$ 256,021.39
			CONDUCTOR										
22			1/C #750KCMIL, MV-105, 15 kV, SHIELDED, OKONITE, 115-23-3802	LF	3825	5%	4016	0.110	$ 30.72	$ 3.38	$ 45.89	$ 49.27	$ 197,877.42
23			1/C #4/0AWG, MV-105,15 kV, SHIELDED, OKONITE, 112-31-3464 (Green)	LF	1740	5%	1827	0.062	$ 30.72	$ 1.90	$ 21.52	$ 23.42	$ 42,796.82
24			3/C #2AWG + 1/C #6AWG GND, MV-105, 15 kV, SHIELDED, OKONITE, 112-31-3374 (Green)	LF	100	5%	105	0.032	$ 30.72	$ 0.98	$ 8.50	$ 9.48	$ 995.72
25			1/C #3/0AWG, XHHW-2, OKONITE, 112-31-3374 (Green)	LF	1275	5%	1339	0.036	$ 30.72	$ 1.11	$ 12.49	$ 13.60	$ 18,201.54
26			1/C #1AWG, XHHW-2, OKONITE, 112-31-3514 (Green)	LF	180	5%	189	0.027	$ 30.72	$ 0.83	$ 3.84	$ 4.67	$ 882.52
27			1/C #2AWG, XHHW-2, OKONITE, 112-24-2531	LF	400	5%	420	0.024	$ 30.72	$ 0.74	$ 3.56	$ 4.30	$ 1,804.86
28			1/C #250KCMIL, XHHW-2, OKONITE, 112-31-6404	LF	840	5%	882	0.072	$ 30.72	$ 2.21	$ 14.50	$ 16.71	$ 14,739.84
29			1/C #500KCMIL, RHH-RHW2, OKONITE, 112-31-3759	LF	2520	5%	2646	0.084	$ 30.72	$ 2.58	$ 22.50	$ 25.08	$ 66,362.95
30			3/C #4AWG + 1/C #12AWG GND,XHHW-2 Shielded VFD, OKONITE, 112-31-3735	LF	1485	5%	1559	0.042	$ 30.72	$ 1.29	$ 10.35	$ 11.64	$ 18,150.04
31			3/C #4AWG+ 1/C #8AWG GND,XHHW-2, OKONITE, 112-31-3777	LF	1880	5%	1974	0.040	$ 30.72	$ 1.23	$ 9.70	$ 10.93	$ 21,573.45
32			3/C #8AWG+ 1/C #10AWG GND,XHHW-2, OKONITE, 112-31-3791	LF	2120	5%	2226	0.034	$ 30.72	$ 1.04	$ 3.50	$ 4.54	$ 10,116.01
33			3/C #1/0AWG+ 1/C #6AWG GND,XHHW-2, OKONITE, 112-31-3365	LF	330	5%	347	0.046	$ 30.72	$ 1.41	$ 8.52	$ 9.93	$ 3,441.83
34			4/C #250KCMIL+ 1/C #4AWG GND,XHHW-2, OKONITE, 112-31-3383	LF	90	5%	95	0.288	$ 30.72	$ 8.85	$ 62.50	$ 71.35	$ 6,742.33
35			3/C #2AWG+ 1/C #6AWG GND,XHHW-2, OKONITE, 112-31-3833	LF	845	5%	887	0.005	$ 30.72	$ 0.15	$ 8.85	$ 9.00	$ 7,982.99
36			4/C #2/0AWG+ 1/C #6AWG GND,XHHW-2, OKONITE, 112-31-3704	LF	215	5%	226	0.160	$ 30.72	$ 4.92	$ 20.50	$ 25.42	$ 5,737.48
37			3/C #10AWG+ 1/C #10AWG GND Insulated,XHHW-2, OKONITE, 112-31-3709	LF	5230	5%	5492	0.040	$ 30.72	$ 1.23	$ 1.12	$ 2.35	$ 12,898.44
38			4/C #10AWG,XHHW-2, OKONITE, 112-31-3753	LF	425	5%	446	0.040	$ 30.72	$ 1.23	$ 1.12	$ 2.35	$ 1,048.15
39			9/C #10AWG,XHHW-2, OKONITE, 112-31-3823	LF	125	5%	131	0.090	$ 30.72	$ 2.76	$ 2.52	$ 5.28	$ 693.63
40			3/C #10AWG+ 1/C #10AWG GND,XHHW-2, OKONITE, 112-31-3503	LF	2959	5%	3107	0.040	$ 30.72	$ 1.23	$ 1.12	$ 2.35	$ 7,297.60
41			3/C #12AWG+ 1/C #12AWG GND Insulated,XHHW-2, OKONITE, 112-31-33793	LF	4250	5%	4463	0.036	$ 30.72	$ 1.11	$ 1.00	$ 2.11	$ 9,397.67
42			3/C #14AWG ,XHHW-2, OKONITE, 112-31-3785	LF	6824	5%	7165	0.024	$ 30.72	$ 0.74	$ 0.48	$ 1.22	$ 8,722.05
43			3/C #350AWG+ 1/C #3AWG GND,XHHW-2, OKONITE, 112-31-33747	LF	160	5%	168	0.252	$ 30.72	$ 7.74	$ 74.50	$ 82.24	$ 13,816.56
44			3/C #4/0AWG+ 1/C #4AWG GND,XHHW-2, OKONITE, 112-31-33735	LF	415	5%	436	0.120	$ 30.72	$ 3.69	$ 21.00	$ 24.69	$ 10,757.10
45			3/C #6AWG+ 1/C #8AWG GND,XHHW-2, OKONITE, 112-31-3612	LF	75	5%	79	0.046	$ 30.72	$ 1.41	$ 4.25	$ 5.66	$ 445.97
46			3/C #8AWG+ 1/C #10AWG GND,XHHW-2, OKONITE, 112-31-3797	LF	360	5%	378	0.038	$ 30.72	$ 1.17	$ 2.85	$ 4.02	$ 1,518.56
47			12/C #12AWG,XHHW-2, OKONITE, 112-31-3612	LF	725	5%	761	0.084	$ 30.72	$ 2.58	$ 2.40	$ 4.98	$ 3,791.39
48			3/C #500AWG+ 1/C #3AWG GND,XHHW-2, OKONITE, 112-31-3797	LF	180	5%	189	0.198	$ 30.72	$ 6.08	$ 108.50	$ 114.58	$ 21,656.10
49			4PR#14 AWG, IS-OS, OKONITE, 261-60-5504	LF	425	5%	446	0.060	$ 30.72	$ 1.84	$ 11.50	$ 13.34	$ 5,954.40
50			12PR#16 AWG, IS-OS, OKONITE, 261-60-4412	LF	125	5%	131	0.076	$ 30.72	$ 2.33	$ 18.50	$ 20.83	$ 2,734.56
51			4PR#16 AWG, IS-OS, OKONITE, 261-60-4404	LF	60	5%	63	0.066	$ 30.72	$ 2.03	$ 13.78	$ 15.81	$ 995.87
			MV CABLE TERMINATION CABLE KIT										
52			25KV 600A T-Body, Outdoor, 1/C #750KCMIL, MV-105, 15kV, SHIELDED, 3M, 625EL36AL	EA	9	0%	9	1.000	$ 30.72	$ 30.72	$ 639.50	$ 670.22	$ 6,031.98
53			25KV 600A T-Body, Outdoor, 3/C #2AWG + 1/C #6AWG GND, MV-105, 15kV, SHIELDED, 3M, 625EL22AL	EA	1	0%	1	0.800	$ 30.72	$ 24.58	$ 585.50	$ 610.08	$ 610.08
54			5-35KV, Indoor, Cold Shrink QT-III, 1/C #750KCMIL, MV-105, 15kV, SHIELDED, , 3M, 7625-T-110	EA	9	0%	9	1.000	$ 30.72	$ 30.72	$ 919.09	$ 949.81	$ 8,548.29
55			5-35KV, Outdoor, Cold Shrink QT-III, 1/C #750KCMIL, MV-105, 15kV, SHIELDED, Skirted, 3M, 7695-S-4	EA	9	0%	9	2.000	$ 30.72	$ 61.44	$ 2,004.70	$ 2,066.14	$ 18,595.26
56			5-35KV, Indoor, Cold Shrink QT-III, 3/C #2AWG + 1/C #6AWG GND, MV-105, 15kV, SHIELDED, 3M, 7622-T-110-3G	EA	1	0%	1	1.650	$ 30.72	$ 50.69	$ 1,830.23	$ 1,880.92	$ 1,880.92
57			5-35KV, Indoor, Cold Shrink QT-III, 1/C #4/0AWG, MV-105,15kV, SHIELDED, , 3M, 7624-T-110	EA	27	0%	27	1.000	$ 30.72	$ 30.72	$ 878.50	$ 909.22	$ 24,548.94
58			5-35KV, Outdoor, Cold Shrink QT-III, 1/C #4/0AWG, MV-105,15kV, SHIELDED, , 3M, 7694-S-4	EA	3	0%	3	1.500	$ 30.72	$ 46.08	$ 1,618.50	$ 1,664.58	$ 4,993.74
			CIRCUIT BREAKER										
59			1P/15A Breaker 35KAIC	EA	4	0%	4	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 61.44
60			1P/20A Breaker	EA	14	0%	14	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 215.04
61			1P/20A Breaker 14KAIC	EA	16	0%	16	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 245.76
62			1P/20A Breaker 18KAIC	EA	18	0%	18	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 276.48
63			1P/20A Breaker 35KAIC	EA	23	0%	23	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 353.28
64			1P/30A Breaker 35KAIC	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 15.36
65			2P/20A Breaker 22KAIC	EA	10	0%	10	0.700	$ 30.72	$ 21.50	$ -	$ 21.50	$ 215.04
66			2P/20A Breaker 35KAIC	EA	15	0%	15	0.700	$ 30.72	$ 21.50	$ -	$ 21.50	$ 322.56
67			2P/30A Breaker 22KAIC	EA	1	0%	1	0.700	$ 30.72	$ 21.50	$ -	$ 21.50	$ 21.50
68		**Supplied By Contractor**	2P/40A Breaker 22KAIC	EA	5	0%	5	0.700	$ 30.72	$ 21.50	$ -	$ 21.50	$ 107.52
69			2P/100A Breaker	EA	1	0%	1	0.700	$ 30.72	$ 21.50	$ -	$ 21.50	$ 21.50
70			3P/125A MCB	EA	2	0%	2	0.700	$ 30.72	$ 21.50	$ -	$ 21.50	$ 43.01
71			2P/125A Breaker 22KAIC	EA	1	0%	1	0.700	$ 30.72	$ 21.50	$ -	$ 21.50	$ 21.50
72			2P/250A Breaker 22KAIC	EA	1	0%	1	0.700	$ 30.72	$ 21.50	$ -	$ 21.50	$ 21.50
73			2P/400A Breaker 22KAIC	EA	2	0%	2	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 61.44
74			3P/500A MCB	EA	1	0%	1	2.250	$ 30.72	$ 69.12	$ -	$ 69.12	$ 69.12
75			3P/30A Breaker 35KAIC	EA	1	0%	1	0.850	$ 30.72	$ 26.11	$ -	$ 26.11	$ 26.11
76			3P/60A MCB	EA	1	0%	1	0.850	$ 30.72	$ 26.11	$ -	$ 26.11	$ 26.11
77			3P/150A MCB	EA	1	0%	1	0.850	$ 30.72	$ 26.11	$ -	$ 26.11	$ 26.11
78			3P/200A MCB 18KAIC	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 46.08
			PANEL										
79			Panel UCG 9110 125A, 120/240V. 1PH, 3W, Mains: MCB, 18 Poles, 35KAIC, Surface Mounted, NEMA-1 EASTON #PBSKCGBB18BN W/ EZB2072R Box Or Approved Equal	EA	1	0%	1	3.500	$ 30.72	$ 107.52	$ -	$ 107.52	$ 107.52
80			Panel UCG 9130: 125A, 120/240V. 1PH, 3W, Mains: MCB, 30 Poles, 35KAIC, Surface Mounted, NEMA-1 EATON #PRL1A125X30C Or Approved Equal	EA	1	0%	1	3.500	$ 30.72	$ 107.52	$ -	$ 107.52	$ 107.52
81			Panel UCG 9140: 250A, 208/120V. 3PH, 4W, Mains: MCB, 42 Poles, Surface Mounted, NEMA-1 EATON #PBSKCGBB42BN W/ EZB2072R Box Or Approved Equal	EA	1	0%	1	4.500	$ 30.72	$ 138.24	$ -	$ 138.24	$ 138.24
82		**Supplied By Contractor**	Panel UCG 9150: 250A, 120/208V. 3PH, 4W, Mains: MCB, 42 Poles, Surface Mounted, NEMA-4 EATON #SSPDS230-16120-3M150 CLASS 1, DIV 2 Or Approved Equal	EA	1	0%	1	4.500	$ 30.72	$ 138.24	$ -	$ 138.24	$ 138.24
83			Panel UCG 9160: 60A, 480/277V. 3PH, 3W, Mains: MCB, 30 Poles, 35KAIC, Surface Mounted, NEMA-1 EATON #PBSKCGBB30BN W/ EZB2072R Box Or Approved Equal	EA	1	0%	1	3.000	$ 30.72	$ 92.16	$ -	$ 92.16	$ 92.16
84			Panel UCG-9120: 600A, 120/208V. 1PH, 2W, Mains: MCB, 42 Poles, 35KAIC, Surface Mounted, NEMA-1 EATON #PBSKCGBB42BN W/ EZB2072R Box Or Approved Equal	EA	1	0%	1	8.500	$ 30.72	$ 261.12	$ -	$ 261.12	$ 261.12
85			UCF-9160: 15KV Switchgear	EA	1	0%	1	120.500	$ 30.72	$ 3,701.76	$ -	$ 3,701.76	$ 3,701.76
86			UCF-9170 MCC: 2000A, 480V, 3PH, 3W, 65KAIC, 60Hz	EA	1	0%	1	30.500	$ 30.72	$ 936.96	$ -	$ 936.96	$ 936.96
87			UCG-9161: Lighting Contractor Panel LC-1	EA	1	0%	1	4.560	$ 30.72	$ 140.08	$ -	$ 140.08	$ 140.08
			DEVICES										

DETAILED BREAKDOWN OF ITEMS

Prepared for: Kinder Morgan NGPL-Compressor Station 388 HP Addition afe-238039
Project ID: 14052026
Scope: Electrical & Instruments

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 09/28/26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
88		Supplied By Contractor	45KVA Transformer, 480X208/120VAC, 3PH, EATON, CLASS 1, DIV 2 #Z48G28T45A	EA	1	0%	1	25.500	$ 30.72	$ 783.36	$ -	$ 783.36	$ 783.36
89			75KVA Transformer, 480X208/120VAC, 3PH, HAMMOND POWER SOLUTIONS, Floor Mounted, SG3A0075KB0C	EA	1	0%	1	40.500	$ 30.72	$ 1,244.16	$ -	$ 1,244.16	$ 1,244.16
			DISCONNECT SWITCH										
90		Supplied And Installed By I&E Contractor	DC-BATT-9120, 600A, 125VDC 35KAIC (MIM) FUSSED DISCONNECT, #RDF600J-4, EATON	EA	1	0%	1	0.000	$ 30.72	$ -	$ -	$ -	$ -
91		Supplied By Contractor	480V Disconnect Switch, EATON EBMX1D-N100	EA	1	0%	1	7.500	$ 30.72	$ 230.40	$ -	$ 230.40	$ 230.40
92			3P/175A Power Distribution Block, EDISON PB1013	EA	1	0%	1	2.250	$ 30.72	$ 69.12	$ -	$ 69.12	$ 69.12
93			3P/600A/125VDC Disconnect Switch, 35KAIC, NEMA-1	EA	1	0%	1	6.850	$ 30.72	$ 210.43	$ -	$ 210.43	$ 210.43
94			3P/100A Explosion Proof Disconnect Switch, EATON #EBMX1D-N100 RLN4	EA	1	0%	1	3.500	$ 30.72	$ 107.52	$ -	$ 107.52	$ 107.52
95			3P/30A Disconnect Switch, CLASS 1 DIV2, EBMX1D-N030 RLN4	EA	3	0%	3	3.500	$ 30.72	$ 107.52	$ -	$ 107.52	$ 322.56
96			3P/100A Disconnect Switch, CLASS 1 DIV2, EBMX1D-N100 RLN4	EA	1	0%	1	3.500	$ 30.72	$ 107.52	$ -	$ 107.52	$ 107.52
97			3P/60A Disconnect Switch, CLASS 1 DIV2, EBMX1D-N060 RLN4	EA	1	0%	1	3.500	$ 30.72	$ 107.52	$ -	$ 107.52	$ 107.52
98			3P/30A Disconnect Switch, CLASS 1 DIV2, EBMX1D-N030 RLN4	EA	1	0%	1	3.500	$ 30.72	$ 107.52	$ -	$ 107.52	$ 107.52
99			3P/100A Disconnect Switch, CLASS 1 DIV2, EBMX1D-N100 RLN4	EA	1	0%	1	3.500	$ 30.72	$ 107.52	$ -	$ 107.52	$ 107.52
			GROUNDING										
100			Exothermic / Cadweld Grounding, C— Copper, Run: #1/0 to #250KCMIL, 1/2" To 5/8" Rebar, Tap: #1/0 to #250KCMIL, YGHP29C29	EA	100	0%	100	0.650	$ 30.72	$ 19.97	$ 110.50	$ 130.47	$ 13,046.80
101			Exothermic / Cadweld Grounding, C— Copper, Run: #1/0 TO #250KCMIL, 1/2" TO 5/8" Rebar, Tap:#1/0 TO #2/0 AWG, YGHP29C26	EA	600	0%	600	0.500	$ 30.72	$ 15.36	$ 68.50	$ 83.86	$ 50,316.00
102			Exothermic / Cadweld Grounding, C— Copper, Run: #1 /0 TO #250 KCMIL, TAP: #4 TO #2 AWD, YGHP29C2	EA	30	0%	30	0.500	$ 30.72	$ 15.36	$ 56.62	$ 71.98	$ 2,159.40
103			Package Zinc Anode, #360P—42	EA	15	0%	15	0.400	$ 30.72	$ 12.29	$ 185.50	$ 197.79	$ 2,966.82
104			Air Terminal, Static Dissipating, Lighting Master, 1 LM — PP —31A	EA	55	0%	55	1.250	$ 30.72	$ 38.40	$ 359.50	$ 397.90	$ 21,884.50
105			#2/0 AWG HMWPE Green Grounding Cable	LF	2500	5%	2625	0.030	$ 30.72	$ 0.92	$ 8.50	$ 9.42	$ 24,731.70
106			#250 KCMIL AWG HMWPE Green Grounding Cable	LF	2000	5%	2100	0.072	$ 30.72	$ 2.21	$ 14.50	$ 16.71	$ 35,094.86
107			#2 AWG HMWPE Green Lightning Grounding Cable	LF	1000	5%	1050	0.022	$ 30.72	$ 0.68	$ 3.85	$ 4.53	$ 4,752.13
			POWER										
			DEVICE										
108		Supplied And Installed By I&E Contractor	110V, Duplex Receptacle, GFCI, #2094-W NEMA 5-20R, w/ELECT. BOX, LEGRAND	EA	4	0%	4	0.000	$ 30.72	$ -	$ -	$ -	$ -
109			Data Network Outlet (2) Wiremold, V5744S SURFACE METAL BOX (2) OR-KSSS4 STAINLESS STEEL 4-PORT FACEPLATE (4) KSFTP6A CAT6 JACK, LEGRAND	EA	2	0%	2	0.000	$ 30.72	$ -	$ -	$ -	$ -
110			110V,Duplex Receptacle, #IG420 , w/ELECT. BOX, LEGRAND	EA	4	0%	4	0.000	$ 30.72	$ -	$ -	$ -	$ -
111			20A, Duplex Receptacle, GFCI, #2095TRWR w/WIUC10-GL SINGLE GAND WP COVER, LEGRAND	EA	8	0%	8	0.000	$ 30.72	$ -	$ -	$ -	$ -
112			110V, Exterior Fan Connection With Battery Backup, #H2PAN-12X12-110VAC, SBS MODEL	EA	1	0%	1	0.000	$ 30.72	$ -	$ -	$ -	$ -
113			110V, UPS Quad Receptacle, #IG420, HUBBEL	EA	2	0%	2	0.000	$ 30.72	$ -	$ -	$ -	$ -
			LIGHTING										
			CONDUIT										
114			3/4" EMT Conduit	LF	240	5%	252	0.053	$ 30.72	$ 1.62	$ 2.08	$ 3.70	$ 933.33
115			3/4" RGS Conduit	LF	260	5%	273	0.053	$ 30.72	$ 1.62	$ 3.84	$ 5.46	$ 1,491.59
116			3/4" Flexible Conduit	LF	60	5%	63	0.053	$ 30.72	$ 1.62	$ 1.68	$ 3.30	$ 208.13
			LIGHTING FIXTURES										
117			L1: LED 100-277 VAC, Appleton #MLGAL32CP5BU MERCMASTER Generation 3 LED SERIES, 5000K, CT 5000K	EA	16	0%	16	1.500	$ 30.72	$ 46.08	$ 972.50	$ 1,018.58	$ 16,297.28
118			1-5/8" x 1-5/8" Chanel	EA	224	0%	224	0.220	$ 30.72	$ 6.76	$ 8.50	$ 15.26	$ 3,417.88
119			Beam Clamp For 1-5/8" x 1-5/8" Chanel	EA	64	0%	64	0.140	$ 30.72	$ 4.30	$ 7.50	$ 11.80	$ 755.25
120			3/4" Conduit Tee, CROUSE-HINDS #GUAT26	EA	48	0%	48	1.000	$ 30.72	$ 30.72	$ 142.50	$ 173.22	$ 8,314.56
121			3/8" Spring Nuts, Hex Head Bolts	EA	32	0%	32	0.100	$ 30.72	$ 3.07	$ 8.50	$ 11.57	$ 370.30
122			L2: Fixture, 30W LED, 100-277 VAC, APPLETON #MLLEDA22CP5BU1, MacMaster LED Low Profile Series, CT 5000K	EA	4	0%	4	1.500	$ 30.72	$ 46.08	$ 685.50	$ 731.58	$ 2,926.32
123			1/4" Spring Nuts, Hex Head Bolts, Washers And Lock washers	EA	16	0%	16	0.100	$ 30.72	$ 3.07	$ 3.66	$ 6.73	$ 107.71
124			1 5/8" x 1 5/8" Channel (Unistrut)	EA	32	0%	32	0.220	$ 30.72	$ 6.76	$ 8.50	$ 15.26	$ 488.27
125			3/4" Conduit Clamp	EA	32	0%	32	0.140	$ 30.72	$ 4.30	$ 7.50	$ 11.80	$ 377.63
126			Junction Box Dialight #HZXJB075	EA	16	0%	16	1.000	$ 30.72	$ 30.72	$ 125.50	$ 156.22	$ 2,499.52
127			L3: Fixture, 70W LED, 120-277VAC, APPLETON #AMLGL6CG6BU Area master Generation 2 LED Series, CT 5000K, Lumen Level 9K	EA	8	0%	8	1.850	$ 30.72	$ 56.83	$ 1,850.00	$ 1,906.83	$ 15,254.66
128			1/4" Spring Nuts, Hex Head Bolts, Washers And Lock washers	EA	8	0%	8	0.100	$ 30.72	$ 3.07	$ 3.66	$ 6.73	$ 53.86
129			1 5/8" x 1 5/8" Channel (Unistrut)	EA	8	0%	8	0.220	$ 30.72	$ 6.76	$ 8.50	$ 15.26	$ 122.07
130			L4: LED Lighting Fixture	EA	19	0%	19	1.000	$ 30.72	$ 30.72	$ 210.50	$ 241.22	$ 4,583.18
131			1 5/8" x 1 5/8" Channel (Unistrut)	EA	19	0%	19	0.220	$ 30.72	$ 6.76	$ 8.50	$ 15.26	$ 289.91
132			Conduit Union, 3/4" CROUSE-HINDS #UNY205	EA	19	0%	19	0.200	$ 30.72	$ 6.14	$ 84.27	$ 90.41	$ 1,717.87
133			Receptacle, Factory Sealed, 125V, 20A, 3 Wire, 2Pole, 3/4" Hub, Single Gang, CROUSE-HINDS #ENR21201	EA	19	0%	19	0.880	$ 30.72	$ 27.03	$ 714.94	$ 741.97	$ 14,097.50
134			L8: LED Lighting Fixture	EA	3	0%	3	1.000	$ 30.72	$ 30.72	$ 210.50	$ 241.22	$ 723.66
135			1 5/8" x 1 5/8" Channel (Unistrut)	EA	3	0%	3	0.220	$ 30.72	$ 6.76	$ 8.50	$ 15.26	$ 45.78
136			3/4" Conduit Clamp	EA	3	0%	3	0.140	$ 30.72	$ 4.30	$ 7.50	$ 11.80	$ 35.40
137			3/4" Conduit Hub, CROUSE-HINDS #ST-2	EA	3	0%	3	0.500	$ 30.72	$ 15.36	$ 18.50	$ 33.86	$ 101.58
138			Emergency Light, Batt Backup, CROUSE-HINDS #AP70RWHDH	EA	3	0%	3	1.250	$ 30.72	$ 38.40	$ 150.24	$ 188.64	$ 565.92
139			110V, 60W LED Fixture, PART: #FNLED5CBSAD, ATX FNLED, APPLETON (Supplied And Installed By I&E Contractor)	EA	18	0%	18	0.000	$ 30.72	$ -	$ -	$ -	$ -
140			Exit Emergency Light w/Battery Backup, LITHONIA LIGHTING #LHQM-S-W-3-R (Supplied And Installed By I&E Contractor)	EA	4	0%	4	0.000	$ 30.72	$ -	$ -	$ -	$ -
141			480V, 75WATT LED Wall Pack Lighting, AMLGL6CGLBU AREAMASTER GEN 2, APPLETON (Supplied And Installed By I&E Contractor)	EA	9	0%	9	0.000	$ 30.72	$ -	$ -	$ -	$ -
142			L18A: Flood Light Fixture 30K Lumens 250 Watts Appleton #AMLHL3CF6 W/ACCESSORY #FLX1TPT20DB And BULLHORN #FLX2LBH20DB	EA	1	0%	1	1.850	$ 30.72	$ 56.83	$ 3,450.00	$ 3,506.83	$ 3,506.83
143			3/4" Straight Flex Conduit Fitting	EA	2	0%	2	0.300	$ 30.72	$ 9.22	$ 20.50	$ 29.72	$ 59.43
144			Pole top Bracket For 2 Lights, KW POLES #FA2180-36-2-KZ41-2	EA	1	0%	1	0.600	$ 30.72	$ 18.43	$ 115.50	$ 133.93	$ 133.93
145			Pole top Bracket For 3 Lights, KW POLES #FA3180-36-2-KZ41-2	EA	1	0%	1	0.800	$ 30.72	$ 24.58	$ 156.50	$ 181.08	$ 181.08
146			4"x4" Square Steel Break-Over Pole With 2" Tenon, 20' Tall KW #THSP20-4.00-7-KZ41-2	EA	1	0%	1	2.500	$ 30.72	$ 76.80	$ 1,150.00	$ 1,226.80	$ 1,226.80
147			Ground Sleeve	EA	1	0%	1	0.160	$ 30.72	$ 4.92	$ 38.50	$ 43.42	$ 43.42
148			Conduit Sleeve, 1" PVC SCHEDULE 40	EA	1	0%	1	0.160	$ 30.72	$ 4.92	$ 10.85	$ 15.77	$ 15.77
149			Fitting, 24" Radius Elbow Rigid Galvanized Steel, 40 MIL PVC COATED	EA	2	0%	2	2.120	$ 30.72	$ 65.13	$ 1,850.00	$ 1,915.13	$ 3,830.25
150			Fitting, Conduit Grounding Bushing	EA	2	0%	2	0.280	$ 30.72	$ 8.60	$ 20.50	$ 29.10	$ 58.20
151			Lowering Winch, Only One Needed Per Installation	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ 200.00	$ 230.72	$ 230.72
152			L18B: Flood Light Fixture 30K Lumens 250 Watts Appleton #AMLHL3CF6 W/ACCESSORY #FLX1TPT20DB And BULLHORN #FLX2LBH20DB	EA	2	0%	2	1.850	$ 30.72	$ 56.83	$ 3,450.00	$ 3,506.83	$ 7,013.66
153			3/4" Straight Flex Conduit Fitting	EA	4	0%	4	0.300	$ 30.72	$ 9.22	$ 20.50	$ 29.72	$ 118.86
154			Pole top Bracket For 2 Lights, KW POLES #FA2180-36-2-KZ41-2	EA	1	0%	1	0.600	$ 30.72	$ 18.43	$ 115.50	$ 133.93	$ 133.93
155			Pole top Bracket For 3 Lights, KW POLES #FA3180-36-2-KZ41-2	EA	2	0%	2	0.800	$ 30.72	$ 24.58	$ 156.50	$ 181.08	$ 362.15
156			4"x4" Square Steel Break-Over Pole With 2" Tenon, 20' Tall KW #THSP20-4.00-7-KZ41-2	EA	1	0%	1	2.500	$ 30.72	$ 76.80	$ 1,150.00	$ 1,226.80	$ 1,226.80
157			Ground Sleeve	EA	1	0%	1	0.160	$ 30.72	$ 4.92	$ 38.50	$ 43.42	$ 43.42
158			Conduit Sleeve, 1" PVC SCHEDULE 40	EA	1	0%	1	0.160	$ 30.72	$ 4.92	$ 10.85	$ 15.77	$ 15.77
159			Fitting, 24" Radius Elbow Rigid Galvanized Steel, 40 MIL PVC COATED	EA	2	0%	2	2.120	$ 30.72	$ 65.13	$ 1,850.00	$ 1,915.13	$ 3,830.25
160			Fitting, Conduit Grounding Bushing	EA	2	0%	2	0.280	$ 30.72	$ 8.60	$ 20.50	$ 29.10	$ 58.20
161			Lowering Winch, Only One Needed Per Installation	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ 200.00	$ 230.72	$ 230.72
162			L18C: Flood Light Fixture 30K Lumens 250 Watts Appleton #AMLHL3CF6 W/ACCESSORY #FLX1TPT20DB And BULLHORN #FLX2LBH20DB	EA	3	0%	3	1.850	$ 30.72	$ 56.83	$ 3,450.00	$ 3,506.83	$ 10,520.50
163			3/4" Straight Flex Conduit Fitting	EA	6	0%	6	0.300	$ 30.72	$ 9.22	$ 20.50	$ 29.72	$ 178.30
164			Pole top Bracket For 2 Lights, KW POLES #FA2180-36-2-KZ41-2	EA	3	0%	3	0.600	$ 30.72	$ 18.43	$ 115.50	$ 133.93	$ 401.80
165			Pole top Bracket For 3 Lights, KW POLES #FA3180-36-2-KZ41-2	EA	1	0%	1	0.800	$ 30.72	$ 24.58	$ 156.50	$ 181.08	$ 181.08
166			4"x4" Square Steel Break-Over Pole With 2" Tenon, 20' Tall KW #THSP20-4.00-7-KZ41-2	EA	1	0%	1	2.500	$ 30.72	$ 76.80	$ 1,150.00	$ 1,226.80	$ 1,226.80
167			Ground Sleeve	EA	1	0%	1	0.160	$ 30.72	$ 4.92	$ 38.50	$ 43.42	$ 43.42
168			Conduit Sleeve, 1" PVC SCHEDULE 40	EA	1	0%	1	0.160	$ 30.72	$ 4.92	$ 10.85	$ 15.77	$ 15.77
169			Fitting, 24" Radius Elbow Rigid Galvanized Steel, 40 MIL PVC COATED	EA	2	0%	2	2.120	$ 30.72	$ 65.13	$ 1,850.00	$ 1,915.13	$ 3,830.25
170			Fitting, Conduit Grounding Bushing	EA	2	0%	2	0.280	$ 30.72	$ 8.60	$ 20.50	$ 29.10	$ 58.20
171			Lowering Winch, Only One Needed Per Installation	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ 200.00	$ 230.72	$ 230.72
172			L10: Flood Light Fixture Duro site 10100 Lumens 70 Watts Dialight Appleton #AMLGL6CG6BU	EA	1	0%	1	1.850	$ 30.72	$ 56.83	$ 1,468.58	$ 1,525.41	$ 1,525.41
173			3/4" Conduit Hub, Crouse-Hinds #ST-2	EA	1	0%	1	0.300	$ 30.72	$ 9.22	$ 25.09	$ 34.31	$ 34.31
174			3/4" Flex Conduit Straight Fitting	EA	2	0%	2	0.300	$ 30.72	$ 9.22	$ 20.50	$ 29.72	$ 59.43
175			3/4" Conduit L Fitting Crouse-Hinds #LB27	EA	1	0%	1	0.560	$ 30.72	$ 17.20	$ 29.71	$ 46.91	$ 46.91
176			5/16" Hex Head Bolts, Nuts, Washers And Lock washers	EA	1	0%	1	0.250	$ 30.72	$ 7.68	$ 17.52	$ 25.20	$ 25.20
177			1 5/8" x 1 5/8" Channel (UNISTRUT)	EA	1	0%	1	0.220	$ 30.72	$ 6.76	$ 8.50	$ 15.26	$ 15.26
178			Flood Light Fixture Duro site 10100 Lumens 70 Watts Dialight Appleton #AMLGL6CG6BU	EA	1	0%	1	1.850	$ 30.72	$ 56.83	$ 1,468.58	$ 1,525.41	$ 1,525.41
179			3/4" Conduit Clamp	EA	1	0%	1	0.140	$ 30.72	$ 4.30	$ 7.50	$ 11.80	$ 11.80
180			Receptacle, Factory Sealed, 125V, 20A, 3 Wire, 2POLE, 3/4" HUB, SINGLE GANG, CROUSE-HINDS #ENR21201	EA	1	0%	1	0.880	$ 30.72	$ 27.03	$ 714.94	$ 741.97	$ 741.97
181			3/4" Insulated Throat Grounding Bushing	EA	1	0%	1	0.320	$ 30.72	$ 9.83	$ 8.50	$ 18.33	$ 18.33
182			3/4" Conduit T Fitting Crouse-Hinds #T27	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ 55.07	$ 70.43	$ 70.43
183			3/4" Conduit Seal Crouse-Hinds #EYS21	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ 48.50	$ 63.86	$ 63.86
184			3/4" RGS Conduit Coupling	EA	1	0%	1	0.220	$ 30.72	$ 6.76	$ 10.50	$ 17.26	$ 17.26
185			1/4" Hex Head Bolts, Nuts, Washers And Lock washers	EA	1	0%	1	0.250	$ 30.72	$ 7.68	$ 17.52	$ 25.20	$ 25.20
186			L11: Emergency Light, 56W, With Exit Sign Crouse-Hinds #N2LPS12222/120 EXS DR0391734	EA	1	0%	1	1.800	$ 30.72	$ 55.30	$ 4,669.24	$ 4,724.54	$ 4,724.54
187			1 5/8" x 1 5/8" Channel (UNISTRUT)	EA	1	0%	1	0.220	$ 30.72	$ 6.76	$ 8.50	$ 15.26	$ 15.26
188			Conduit Union, 3/4" Crouse-Hinds #UNY205	EA	1	0%	1	0.650	$ 30.72	$ 19.97	$ 84.27	$ 104.24	$ 104.24
189			3/4" Conduit Clamp	EA	1	0%	1	0.140	$ 30.72	$ 4.30	$ 7.50	$ 11.80	$ 11.80
190			L12: Strobe Light, Amber, Federal Signal #225XL-024A (AMBER)	EA	1	0%	1	1.560	$ 30.72	$ 47.92	$ 844.75	$ 892.67	$ 892.67
191			Conduit Union, 3/4" Crouse-Hinds #UNY205	EA	1	0%	1	0.650	$ 30.72	$ 19.97	$ 84.27	$ 104.24	$ 104.24
192			1 5/8" x 1 5/8" Channel (UNISTRUT)	EA	1	0%	1	0.220	$ 30.72	$ 6.76	$ 8.50	$ 15.26	$ 15.26
193			3/4" Conduit Coupling	EA	1	0%	1	0.200	$ 30.72	$ 6.14	$ 11.50	$ 17.64	$ 17.64
194			Conduit Seal, 3/4" Crouse-Hinds #EYD21	EA	1	0%	1	1.250	$ 30.72	$ 38.40	$ 425.50	$ 463.90	$ 463.90
195			3/4" Conduit Nipple	EA	1	0%	1	0.220	$ 30.72	$ 6.76	$ 28.12	$ 34.88	$ 34.88
196			3/4" Conduit Clamp	EA	1	0%	1	0.140	$ 30.72	$ 4.30	$ 7.50	$ 11.80	$ 11.80

DETAILED BREAKDOWN OF ITEMS

Prepared for: Kinder Morgan NGPL-Compressor Station 388 HP Addition afe-238039
Project ID: 14052026
Scope: Electrical & Instruments

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 09/28/26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
197			L13: Fixture, 60W LED, 100-277 VAC, Appleton #FNLED5CBUSAD, ATX FNLED Series, 5000K, CT 5000K	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ 2,400.54	$ 2,446.62	$ 2,446.62
198			3/4" Conduit Clamp	EA	1	0%	1	0.140	$ 30.72	$ 4.30	$ 7.50	$ 11.80	$ 11.80
199			3/4" Conduit Tee, Crouse-Hinds #GUAT26	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ 142.50	$ 173.22	$ 173.22
200			Beam Clamp For 1 5/8" x 1 5/8" Channel (UNISTRUT)	EA	2	0%	2	0.220	$ 30.72	$ 6.76	$ 8.50	$ 15.26	$ 30.52
201			1 5/8" x 1 5/8" Channel (UNISTRUT)	EA	1	0%	1	0.250	$ 30.72	$ 7.68	$ 17.52	$ 25.20	$ 25.20
202			3/8" Spring Nuts, Hex Head Bolts, Washers And Lock washers	EA	1	0%	1	0.200	$ 30.72	$ 6.14	$ 4.57	$ 10.71	$ 10.71
203			L14: Fixture, 70W LED, 120-277VAC, Appleton #AMLGL6CG6BU Area master Generation 2 LED Series, CT 5000K, LUMEN LEVEL 9K	EA	1	0%	1	1.850	$ 30.72	$ 56.83	$ 1,468.58	$ 1,525.41	$ 1,525.41
204			3/8" Stainless Steel Hardware	EA	4	0%	4	0.080	$ 30.72	$ 2.46	$ 2.25	$ 4.71	$ 18.83
205			Wall Mount Bracket	EA	1	0%	1	1.100	$ 30.72	$ 33.79	$ 34.50	$ 68.29	$ 68.29
206			GUAC59 With 1 Reducer RE51 And 1 Reducer RE52	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ 888.00	$ 918.72	$ 918.72
207			1/2" Flexible Conduit Connector	EA	4	0%	4	0.300	$ 30.72	$ 9.22	$ 8.25	$ 17.47	$ 69.86
208			1/2" J-Hook	EA	4	0%	4	0.240	$ 30.72	$ 7.37	$ 7.85	$ 15.22	$ 60.89
209			1/2" Stainless Steel Hardware	EA	4	0%	4	0.100	$ 30.72	$ 3.07	$ 3.50	$ 6.57	$ 26.29
210			Slip fitter Yoke Mounted	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ 100.00	$ 115.36	$ 115.36
211			Flexible Liquid tight Metal, Conduit, 1/2", Anaconda Type U.A.	EA	1	0%	1	0.260	$ 30.72	$ 7.99	$ 20.50	$ 28.49	$ 28.49
212			3/8" Steel Plate, Size As Required.	EA	1	0%	1	0.200	$ 30.72	$ 6.14	$ 34.61	$ 40.75	$ 40.75
			LIGHTING CONTROL										
213			3-Way Switch	EA	7	0%	7	0.320	$ 30.72	$ 9.83	$ 28.50	$ 38.33	$ 268.31
214			UCG-9161 480V Lighting Contactor/Panel, GE/EATON (Supplied And Installed By I&E Contractor)	EA	1	0%	1	0.000	$ 30.72	$ -	$ -	$ -	$ -
215			Manual Bypass Switch, La MARCHE MBSW-100A-MB4B-4P (Supplied By Electrical AUX Building Vendor & Installed By TBD)	EA	1	0%	1	0.000	$ 30.72	$ -	$ -	$ -	$ -
216			110V, 3-Way Switch, LEGRAND #CSB20AC3-W (Supplied And Installed By I&E Contractor)	EA	6	0%	6	0.000	$ 30.72	$ -	$ -	$ -	$ -
217			110V, 4-WAY SWITCH, LEGRAND #CSB20AC4-W (Supplied And Installed By I&E Contractor)	EA	2	0%	2	0.000	$ 30.72	$ -	$ -	$ -	$ -
218			480V Photocell, INTERMATIC #K4135 (Supplied And Installed By I&E Contractor)	EA	1	0%	1	0.000	$ 30.72	$ -	$ -	$ -	$ -
219			110V, Single-Way Switch, LEGRAND #CSB20AC1-W (Supplied And Installed By I&E Contractor)	EA	1	0%	1	0.000	$ 30.72	$ -	$ -	$ -	$ -
220			Photocell, EATON #D2S20 CLASS1, DIV2 With Surface Mounted Box 1" #HUB-FS3B	EA	1	0%	1	2.000	$ 30.72	$ 61.44	$ 1,250.50	$ 1,311.94	$ 1,311.94
221			12P/30A Electrically Held Lighting Contactor, ECL03C2A9A	EA	1	0%	1	5.500	$ 30.72	$ 168.96	$ 5,210.50	$ 5,379.46	$ 5,379.46
			MISCELLANEOUS										
222	388-31-E174.5		Pull Box 4'x4' With Cover, OLDCASTLE	EA	1	0%	1	6.500	$ 30.72	$ 199.68	$ 3,850.00	$ 4,049.68	$ 4,049.68
223			Pull Vault 4'x4'x5' With Cover, OLDCASTLE	EA	1	0%	1	7.850	$ 30.72	$ 241.15	$ 4,780.40	$ 5,021.55	$ 5,021.55
												SUBTOTAL	**$ 2,375,368**
			COMMUNICATION										
			TELECOMMUNICATION										
			CABLE TRAY										
224			12" Straight Section Aluminum, EATON B-LINE H46A06-12-240	LF	520	5%	546	0.160	$ 30.72	$ 4.92	$ 124.50	$ 129.42	$ 70,660.70
225			18" Straight Section Aluminum, EATON B-LINE H46A06-18-240	LF	120	5%	126	0.200	$ 30.72	$ 6.14	$ 144.75	$ 150.89	$ 19,012.64
226			36" Straight Section Aluminum, EATON B-LINE H46A06-36-240	LF	700	5%	735	0.260	$ 30.72	$ 7.99	$ 210.50	$ 218.49	$ 160,588.09
			CABLE TRAY ACCESSORIES										
227			12" Vertical Out Bend 90°, EATON B-LINE 6A-12-90V012	EA	2	0%	2	1.400	$ 30.72	$ 43.01	$ 1,330.00	$ 1,373.01	$ 2,746.02
228			36" Vertical Out Bend 90°, EATON B-LINE 6A-36-90V012	EA	6	0%	6	2.500	$ 30.72	$ 76.80	$ 1,650.00	$ 1,726.80	$ 10,360.80
229			12" Vertical In Bend 90°, EATON B-LINE 6A-12-90V112	EA	4	0%	4	1.400	$ 30.72	$ 43.01	$ 1,450.00	$ 1,493.01	$ 5,972.03
230			18" Vertical In Bend 90°, EATON B-LINE 6A-18-90V112	EA	1	0%	1	1.850	$ 30.72	$ 56.83	$ 1,560.00	$ 1,616.83	$ 1,616.83
231			36" Vertical In Bend 90°, EATON B-LINE 6A-36-90V112	EA	6	0%	6	2.500	$ 30.72	$ 76.80	$ 1,750.00	$ 1,826.80	$ 10,960.80
232			36" Horizontal Bend 90°, EATON B-LINE 6A-36-90HB12	EA	12	0%	12	2.500	$ 30.72	$ 76.80	$ 1,880.00	$ 1,956.80	$ 23,481.60
233			12" Horizontal Tee, EATON B-LINE 6A-12-90HT12	EA	5	0%	5	1.350	$ 30.72	$ 41.47	$ 1,300.18	$ 1,341.65	$ 6,708.26
234			18" Horizontal Tee, EATON B-LINE 6A-18-90HT12	EA	2	0%	2	1.650	$ 30.72	$ 50.69	$ 1,850.00	$ 1,900.69	$ 3,801.38
235			36" Horizontal Tee, EATON B-LINE 6A-36-90HT12	EA	8	0%	8	2.500	$ 30.72	$ 76.80	$ 2,150.00	$ 2,226.80	$ 17,814.40
236			Straight Section Barrier Strip, EATON B-LINE 757P-144	EA	88	0%	88	1.000	$ 30.72	$ 30.72	$ 525.50	$ 556.22	$ 48,947.36
237			Vertical Out 90° Barrier Strip, EATON B-LINE 757P-90V012	EA	8	0%	8	1.500	$ 30.72	$ 46.08	$ 400.50	$ 446.58	$ 3,572.64
238			Vertical In 90° Barrier Strip, EATON B-LINE 757P-90V112	EA	11	0%	11	1.500	$ 30.72	$ 46.08	$ 562.50	$ 608.58	$ 6,694.38
239			Horizontal Bend 90° Barrier Strip, EATON B-LINE 757P-90HBFL	EA	10	0%	10	1.250	$ 30.72	$ 38.40	$ 325.50	$ 363.90	$ 3,639.00
240			12" Straight Ventilated Cover, EATON B-LINE 817A-12-240	EA	31	0%	31	1.000	$ 30.72	$ 30.72	$ 450.50	$ 481.22	$ 14,917.82
241			36" Straight Ventilated Cover, EATON B-LINE 817A-36-240	EA	31	0%	31	2.250	$ 30.72	$ 69.12	$ 895.50	$ 964.62	$ 29,903.22
242			12" Vertical Out 90° Ventilated Cover, EATON B-LINE 817A-12-90V012	EA	2	0%	2	1.000	$ 30.72	$ 30.72	$ 256.50	$ 287.22	$ 574.44
243			36" Vertical Out 90° Ventilated Cover, EATON B-LINE 817A-36-90V012	EA	4	0%	4	1.500	$ 30.72	$ 46.08	$ 510.50	$ 556.58	$ 2,226.32
244			12" Vertical In 90° Ventilated Cover, EATON B-LINE 8817A-12-90V112	EA	4	0%	4	1.000	$ 30.72	$ 30.72	$ 790.50	$ 821.22	$ 3,284.88
245			36" Vertical In 90° Ventilated Cover, EATON B-LINE 8817A-36-90V112	EA	6	0%	6	1.500	$ 30.72	$ 46.08	$ 1,150.00	$ 1,196.08	$ 7,176.48
246			36" Horizontal 90° Ventilated Cover, EATON B-LINE 817A-36-90HB12	EA	2	0%	2	2.500	$ 30.72	$ 76.80	$ 1,214.81	$ 1,291.61	$ 2,583.22
247			12" Frame Type Box Connector, ROXTEC GH 6x3 GALV	EA	3	0%	3	1.000	$ 30.72	$ 30.72	$ 774.50	$ 805.22	$ 2,415.66
248			36" Frame Type Box Connector, ROXTEC GH 6+6x3 GALV	EA	5	0%	5	1.850	$ 30.72	$ 56.83	$ 1,850.00	$ 1,906.83	$ 9,534.16
			SECURITY										
			DEVICES										
249		Supplied By Electrical AUX Building Vendor & Installed By TBD	Intrusion Switch, #2845T-M, GE SECURITY	EA	5	0%	5	1.250	$ 30.72	$ 38.40	$ -	$ 38.40	$ 192.00
250			Lead Lag Controller, ITEM #27	EA	4	0%	4	2.250	$ 30.72	$ 69.12	$ -	$ 69.12	$ 276.48
			TUBING										
			TUBING										
251			1/4" Dia S.S Tubing	LF	1060	5%	1113	0.041	$ 30.72	$ 1.26	$ 2.97	$ 4.23	$ 4,707.46
252			3/8" Dia S.S Tubing	LF	200	5%	210	0.062	$ 30.72	$ 1.90	$ 5.66	$ 7.56	$ 1,587.87
253			1/2" Dia S.S Tubing	LF	320	5%	336	0.076	$ 30.72	$ 2.33	$ 8.50	$ 10.83	$ 3,640.47
254			3/4" Dia S.S Tubing	LF	160	5%	168	0.084	$ 30.72	$ 2.58	$ 14.50	$ 17.08	$ 2,869.52
			HEAT TRACE (Mfr. INVENT)										
			CONDUCTOR										
255			8W/ft, 120V Self— Reg Heating Cable (CLASS 1 DIV 2), 8BTV1 —CT	LF	470	5%	494	0.084	$ 30.72	$ 2.58	$ 27.78	$ 30.36	$ 14,982.90
			DEVICES										
256			Above —Insulation Lighted End Seal Kit (CLASS 1 DIV 2), E—100—L— A	EA	5	0%	5	1.250	$ 30.72	$ 38.40	$ 361.19	$ 399.59	$ 1,997.95
257			Single— Entry Power Kit with Junction Box (CLASS 1 DIV 2), JBS—100A	EA	4	0%	4	1.500	$ 30.72	$ 46.08	$ 473.50	$ 519.58	$ 2,078.32
258			Double— Entry Power Kit With Junction Box (CLASS 1 DIV 2), JBM —100A	EA	1	0%	1	2.250	$ 30.72	$ 69.12	$ 625.50	$ 694.62	$ 694.62
259			0—49°C HAZ. Thermostat (99—132VAC), ETS —05—A1 R —P	EA	4	0%	4	1.350	$ 30.72	$ 41.47	$ 1,450.50	$ 1,491.97	$ 5,967.89
260			Electric Traced Label for traced pipes and tanks, ETL— ENT LISH	EA	19	0%	19	0.500	$ 30.72	$ 15.36	$ 20.50	$ 35.86	$ 681.34
261			Glass Tope (6 6ft/roll) (not for stain less —steel pipe), GT-66	EA	4	0%	4	0.200	$ 30.72	$ 6.14	$ 24.47	$ 30.61	$ 122.46
262			Pipe Strap 1 inch to 3 inch, PS-3	EA	8	0%	8	0.120	$ 30.72	$ 3.69	$ 11.50	$ 15.19	$ 121.49
263			RTD WITH 10FT S/S Corrugated SHLD, RTD 10CS	EA	4	0%	4	0.160	$ 30.72	$ 4.92	$ 18.50	$ 23.42	$ 93.66
264			BE 20AMP, 30mA GFEP BREAKER, 1 — Pole, Bolt ON, 10KAIC, THQB-GFT	EA	4	0%	4	0.800	$ 30.72	$ 24.58	$ 190.50	$ 215.08	$ 860.30
			INSTRUMENTATION										
			CONDUIT										
265			3/4" RGS Conduit	LF	13373	5%	14042	0.053	$ 30.72	$ 1.62	$ 3.84	$ 5.46	$ 76,720.59
266			1" RGS Conduit	LF	8808	5%	9248	0.060	$ 30.72	$ 1.83	$ 6.25	$ 8.08	$ 74,754.27
267			1-1/2" RGS Conduit	LF	2619	5%	2750	0.076	$ 30.72	$ 2.33	$ 9.50	$ 11.83	$ 32,533.12
268			2" RGS Conduit	LF	520	5%	546	0.102	$ 30.72	$ 3.14	$ 15.79	$ 18.93	$ 10,337.23
			CONDUCTOR										
269			1PR#16 AWG - 600V 90 DegC - TC-UL, OKONITE, 264-60-4401	LF	24058	5%	25261	0.018	$ 30.72	$ 0.55	$ 0.89	$ 1.44	$ 36,450.47
270			1TR#16 AWG - 600V 90 DegC - TC-UL,	LF	10328	5%	10844	0.018	$ 30.72	$ 0.55	$ 0.89	$ 1.44	$ 15,647.58
271			2PR#16 AWG - 600V 90 DegC - TC-UL,	LF	2960	5%	3108	0.024	$ 30.72	$ 0.74	$ 1.17	$ 1.91	$ 5,927.83
272			4PR#16 AWG - 600V 90 DegC - TC-UL,	LF	9152	5%	9609	0.030	$ 30.72	$ 0.92	$ 2.30	$ 3.22	$ 30,957.10
273			8PR#16 AWG - 600V 90 DegC - TC-UL,	LF	2145	5%	2252	0.036	$ 30.72	$ 1.11	$ 4.82	$ 5.93	$ 13,347.90
274			16PR#16 AWG - 600V 90 DegC - TC-UL,	LF	649	5%	682	0.072	$ 30.72	$ 2.21	$ 8.99	$ 11.20	$ 7,637.02
275			12TR#16 AWG - 600V 90 DegC - TC-UL,	LF	1138	5%	1195	0.045	$ 30.72	$ 1.38	$ 7.50	$ 8.88	$ 10,613.58
276			12 fibers, 50 um multimode (OM3),	LF	3000	5%	3150	0.021	$ 30.72	$ 0.65	$ 3.93	$ 4.58	$ 14,411.63
277			CAT6 U/UTP 4PR#23 AWG - LSZH,	LF	12600	5%	13230	0.027	$ 30.72	$ 0.83	$ 1.66	$ 2.49	$ 32,935.29
			DEVICES										
278		Purchased By SIEMENS (COMP #8 UNIT)	TE-161: TEMPERATURE ELEMENT (RTD), CONAX &10-1287-1	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
279			TW-161: THERMOWELL, TBC	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
280			TE-171: TEMPERATURE ELEMENT (RTD), CONAX 10-1286-1	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
281			TW-171: THERMOWELL, ALLOY ENGINEERING 260 FH-U7	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
282			RO-81S: RESTRICTION ORIFICE, TBC	EA	1	0%	1	0.850	$ 30.72	$ 26.11	$ -	$ 26.11	$ 26.11
283			RO-81D: RESTRICTION ORIFICE, TBC	EA	1	0%	1	0.850	$ 30.72	$ 26.11	$ -	$ 26.11	$ 26.11
284			TE-163: TEMPERATURE ELEMENT (RTD), CONAX &10-1287-1	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
285			TW-163: THERMOWELL, TBC	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
286			TE-173: TEMPERATURE ELEMENT (RTD), CONAX 10-1286-1	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
287			TW-173: THERMOWELL, ALLOY ENGINEERING 260 FH-U7	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
288			RO-83S: RESTRICTION ORIFICE, TBC	EA	1	0%	1	0.850	$ 30.72	$ 26.11	$ -	$ 26.11	$ 26.11
289			RO-83D: RESTRICTION ORIFICE, TBC	EA	1	0%	1	0.850	$ 30.72	$ 26.11	$ -	$ 26.11	$ 26.11
290			TE-165: TEMPERATURE ELEMENT (RTD), CONAX &10-1287-1	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
291			TW-165: THERMOWELL, TBC	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
292			TE-175: TEMPERATURE ELEMENT (RTD), CONAX 10-1286-1	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
293			TW-175: THERMOWELL, ALLOY ENGINEERING 260 FH-U7	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
294			RO-85S: RESTRICTION ORIFICE, TBC	EA	1	0%	1	0.850	$ 30.72	$ 26.11	$ -	$ 26.11	$ 26.11
295			RO-85D: RESTRICTION ORIFICE, TBC	EA	1	0%	1	0.850	$ 30.72	$ 26.11	$ -	$ 26.11	$ 26.11
296			PIT-0801: PRESSURE TRANSMITTER, ROSEMOUNT 3051S2TG4A2A11A1ADA2B4E5L1 M5Q4Q8T1HR7 (IDD 01-06)	EA	1	0%	1	2.250	$ 30.72	$ 69.12	$ -	$ 69.12	$ 69.12
297			TE-0820: TEMPERATURE ELEMENT (RTD), ROSEMOUNT 214CRHSMB1S3E0090SLE5AT1C 3B1WDV20Q4XW (IDD 02-04)	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
298			TW-0820: THERMOWELL, ROSEMOUNT 114CE0072TAB2SC017AQ8R21X W (IDD 02-04)	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04

DETAILED BREAKDOWN OF ITEMS

Prepared for: Kinder Morgan NGPL-Compressor Station 388 HP Addition afe-238039
Project ID: 14052026
Scope: Electrical & Instruments

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 09/28/26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
299		Purchased By KM	DPIT-0801: DIFF PRESSURE TRANSMITTER, ROSEMOUNT 3051CD3A02A1AS5E5M5Q4Q8T1 HR7 (IDD 01-04)	EA	1	0%	1	2.250	$ 30.72	$ 69.12	$ -	$ 69.12	$ 69.12
300			RO-100A: RESTRICTION ORIFICE, ROSEMOUNT 1495PG160A9SD10500BCW R3FL Q8	EA	1	0%	1	0.850	$ 30.72	$ 26.11	$ -	$ 26.11	$ 26.11
301			RO-101A: RESTRICTION ORIFICE, ROSEMOUNT 1495PC160A9SDC09750BCW R3FI Q8(By KM Installed ByTBC	EA	1	0%	1	0.850	$ 30.72	$ 26.11	$ -	$ 26.11	$ 26.11
302			PIT-0831: PRESSURE TRANSMITTER, ROSEMOUNT 3051S2TG4A2A11A1ADA2B4E5L1 M5Q4Q8T1HR7 (IDD 01-06)	EA	1	0%	1	2.250	$ 30.72	$ 69.12	$ -	$ 69.12	$ 69.12
303			TE-0830: TEMPERATURE ELEMENT (RTD), ROSEMOUNT 214CRHSMB1S3E0077SLE5AT1C 3B1WDV20Q4XW (IDD 02-04)	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
304			TW-0830: THERMOWELL, ROSEMOUNT 114CE0060TAB2SC017AQ8R21X W (IDD 02-04)	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
305			DPIT-0831: DIFF PRESSURE TRANSMITTER, ROSEMOUNT 3051CD3A02A1AS5E5M5Q4Q8T1 HR7 (IDD 01-04)	EA	1	0%	1	2.250	$ 30.72	$ 69.12	$ -	$ 69.12	$ 69.12
306			RO-200A: RESTRICTION ORIFICE, ROSEMOUNT 1495UC1220RFSC07800BCW R3PH FLQ8	EA	1	0%	1	0.850	$ 30.72	$ 26.11	$ -	$ 26.11	$ 26.11
307			RO-201A: RESTRICTION ORIFICE, ROSEMOUNT 1495UC1220RFSC07100BCW R3PH FJQ8	EA	1	0%	1	0.850	$ 30.72	$ 26.11	$ -	$ 26.11	$ 26.11
308		Purchased By SIEMENS (COMP #8 UNIT)	TE-262: TEMPERATURE ELEMENT (RTD), CONAX &10-1287-1	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
309			TW-262: THERMOWELL, TBC	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
310			TE-272: TEMPERATURE ELEMENT (RTD), CONAX 10-1286-1	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
311			TW-272: THERMOWELL, ALLOY ENGINEERING 260 FH-U7	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
312			RO-82S: RESTRICTION ORIFICE, TBC	EA	1	0%	1	0.850	$ 30.72	$ 26.11	$ -	$ 26.11	$ 26.11
313			RO-82D: RESTRICTION ORIFICE, TBC	EA	1	0%	1	0.850	$ 30.72	$ 26.11	$ -	$ 26.11	$ 26.11
314			TE-264: TEMPERATURE ELEMENT (RTD), CONAX &10-1287-1	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
315			TW-264: THERMOWELL, TBC	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
316			TE-274: TEMPERATURE ELEMENT (RTD), CONAX 10-1286-1	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
317			TW-274: THERMOWELL, ALLOY ENGINEERING 260 FH-U7	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
318			RO-84S: RESTRICTION ORIFICE, TBC	EA	1	0%	1	0.850	$ 30.72	$ 26.11	$ -	$ 26.11	$ 26.11
319			RO-84D: RESTRICTION ORIFICE, TBC	EA	1	0%	1	0.850	$ 30.72	$ 26.11	$ -	$ 26.11	$ 26.11
320			TE-266: TEMPERATURE ELEMENT (RTD), CONAX &10-1287-1	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
321			TW-266: THERMOWELL, TBC	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
322			TE-276: TEMPERATURE ELEMENT (RTD), CONAX 10-1286-1	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
323			TW-276: THERMOWELL, ALLOY ENGINEERING 260 FH-U7	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
324			RO-86S: RESTRICTION ORIFICE, TBC	EA	1	0%	1	0.850	$ 30.72	$ 26.11	$ -	$ 26.11	$ 26.11
325			RO-86D: RESTRICTION ORIFICE, TBC	EA	1	0%	1	0.850	$ 30.72	$ 26.11	$ -	$ 26.11	$ 26.11
326		Purchased By PEERLESS (V-8100)	LIT-8101: LEVEL TRANSMITTER, ROSEMOUNT 5301HA1P1N4AE00300ACE5M1T1 Q8	EA	1	0%	1	1.560	$ 30.72	$ 47.92	$ -	$ 47.92	$ 47.92
327			LSHH-8102: LEVEL SWITCH, MAGTECH MLS-3EX-MAZZZS1C1E8	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 46.08
328			LSL-8103: LEVEL SWITCH, MAGTECH MLS-3EX-MAZZZS1C1E8	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 46.08
329			LG-8104: LEVEL GAUGE, MAGTECH 9935B3AC23AS4E018006ACADL8 BSQ8B2B	EA	1	0%	1	1.320	$ 30.72	$ 40.55	$ -	$ 40.55	$ 40.55
330			PI-8105: PRESSURE GAUGE, ASHCROFT 45-1279-S-SL-04L-XSG / 2000	EA	1	0%	1	0.800	$ 30.72	$ 24.58	$ -	$ 24.58	$ 24.58
331			DPIT-8100: DIFF PRESSURE TRANSMITTER, ROSEMOUNT 3051S2CD3A2A11A1AE5M5Q4Q8 T1	EA	1	0%	1	2.250	$ 30.72	$ 69.12	$ -	$ 69.12	$ 69.12
332			TI-8106: THERMOMETER, ASHCROFT 50EL42E060 YW	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
333			TW-8106: THERMOWELL, ASHCROFT 10W 0450HT260S	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
334			LCV-8101: CONTROL VALVE, FISHER D4 / DVC6200	EA	1	0%	1	3.000	$ 30.72	$ 92.16	$ -	$ 92.16	$ 92.16
335			SVO-8101: SOLENOID, ASCO EF8320G176	EA	1	0%	1	1.450	$ 30.72	$ 44.54	$ -	$ 44.54	$ 44.54
336		Purchased By PEERLESS (V-8300)	PSV-8300: PRESSURE SAFETY VALVE, AGCO 83S1M88-8	EA	1	0%	1	0.650	$ 30.72	$ 19.97	$ -	$ 19.97	$ 19.97
337			LIT-8301: LEVEL TRANSMITTER, ROSEMOUNT 5301HA1P1N4AE00300ACE5M1T1 Q8	EA	1	0%	1	1.560	$ 30.72	$ 47.92	$ -	$ 47.92	$ 47.92
338			LSHH-8302: LEVEL SWITCH, MAGTECH MLS-3EX-MAZZZS1C1E8	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 46.08
339			LSL-8303: LEVEL SWITCH, MAGTECH MLS-3EX-MAZZZS1C1E8	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 46.08
340			LG-8304: LEVEL GAUGE, MAGTECH 9935B3AC23AS4E018006ACADL8 BSQ8B2B	EA	1	0%	1	1.320	$ 30.72	$ 40.55	$ -	$ 40.55	$ 40.55
341			PI-8305: PRESSURE GAUGE, ASHCROFT 45-1279-S-SL-04L-XSG / 2000 PSIG	EA	1	0%	1	0.800	$ 30.72	$ 24.58	$ -	$ 24.58	$ 24.58
342			DPIT-8300: DIFF PRESSURE TRANSMITTER, ROSEMOUNT 3051S2CD3A2A11A1AE5M5Q4Q8 T1	EA	1	0%	1	2.250	$ 30.72	$ 69.12	$ -	$ 69.12	$ 69.12
343			TI-8306: THERMOMETER, ASHCROFT 50EL42E060 YW	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
344			TW-8306: THERMOWELL, ASHCROFT 10W 0450HT260S	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
345			LCV-8301: CONTROL VALVE, FISHER D4 / DVC6200	EA	1	0%	1	3.000	$ 30.72	$ 92.16	$ -	$ 92.16	$ 92.16
346			SVO-8301: SOLENOID, ASCO EF8320G176	EA	1	0%	1	1.450	$ 30.72	$ 44.54	$ -	$ 44.54	$ 44.54
347			BV-0801: ON-OFF VALVE, T.R.P. TBC	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 15.36
348			SVC-0801: SOLENOID, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1	0%	1	1.450	$ 30.72	$ 44.54	$ -	$ 44.54	$ 44.54
349			SVO-0801: SOLENOID, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1	0%	1	1.450	$ 30.72	$ 44.54	$ -	$ 44.54	$ 44.54
350			ZSC-0801: LIMIT SWITCH, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
351			ZSO-0801: LIMIT SWITCH, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
352			BV-0806: ON-OFF VALVE, EMERSON TBC (IDD 05-04) & (IDD 05-07)	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 15.36
353			SVO-0806: SOLENOID, PETER PAUL E24HJ9ZCCM, ASSEMBLED WITH VALVE	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
354			ZSC-0806: LIMIT SWITCH, TOPWORKS DXP-L41GNEB, ASSEMBLED WITH VALVE	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
355			ZSO-0806: LIMIT SWITCH, TOPWORKS DXP-L41GNEB, ASSEMBLED WITH VALVE	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
356			RO-0806: RESTRICTION ORIFICE, ROSEMOUNT 1495PG020A6SA01000BCW R3FL Q8	EA	1	0%	1	0.850	$ 30.72	$ 26.11	$ -	$ 26.11	$ 26.11
357			BV-0802: ON-OFF VALVE, T.R.P. TBC	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 15.36
358			SVC-0802: SOLENOID, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1	0%	1	1.450	$ 30.72	$ 44.54	$ -	$ 44.54	$ 44.54
359			SVO-0802: SOLENOID, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1	0%	1	1.450	$ 30.72	$ 44.54	$ -	$ 44.54	$ 44.54
360			ZSC-0802: LIMIT SWITCH, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
361			ZSO-0802: LIMIT SWITCH, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
362			BV-0803: ON-OFF VALVE, T.R.P. TBC	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 15.36
363			SVC-0803: SOLENOID, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1	0%	1	1.450	$ 30.72	$ 44.54	$ -	$ 44.54	$ 44.54
364			SVO-0803: SOLENOID, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1	0%	1	1.450	$ 30.72	$ 44.54	$ -	$ 44.54	$ 44.54
365			ZSC-0803: LIMIT SWITCH, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
366			ZSO-0803: LIMIT SWITCH, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
367			RO-0803: RESTRICTION ORIFICE, ROSEMOUNT 1495PG020A6SA00250BCW R3FL Q8	EA	1	0%	1	0.850	$ 30.72	$ 26.11	$ -	$ 26.11	$ 26.11
368			RO-0803: RESTRICTION ORIFICE, ROSEMOUNT 1495PG020A6SA00250BCW R3FL Q8	EA	1	0%	1	0.850	$ 30.72	$ 26.11	$ -	$ 26.11	$ 26.11
369			RO-0804: RESTRICTION ORIFICE, ROSEMOUNT 1495UC020RFSC00250BCW R3PH FLQ8	EA	1	0%	1	0.850	$ 30.72	$ 26.11	$ -	$ 26.11	$ 26.11
370			RO-0805: RESTRICTION ORIFICE, ROSEMOUNT 1495UC020RFSC00250BCW R3PH FLQ8	EA	1	0%	1	0.850	$ 30.72	$ 26.11	$ -	$ 26.11	$ 26.11
371			BV-0804: ON-OFF VALVE, DELTA TBC	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 15.36
372			SVC-0804: SOLENOID, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1	0%	1	1.450	$ 30.72	$ 44.54	$ -	$ 44.54	$ 44.54
373			SVO-0804: SOLENOID, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1	0%	1	1.450	$ 30.72	$ 44.54	$ -	$ 44.54	$ 44.54
374			ZSC-0804: LIMIT SWITCH, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
375			ZSO-0804: LIMIT SWITCH, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
376			BV-0805: ON-OFF VALVE, DELTA TBC	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 15.36
377			SVC-0805: SOLENOID, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1	0%	1	1.450	$ 30.72	$ 44.54	$ -	$ 44.54	$ 44.54
378			SVO-0805: SOLENOID, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1	0%	1	1.450	$ 30.72	$ 44.54	$ -	$ 44.54	$ 44.54
379			ZSC-0805: LIMIT SWITCH, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
380			ZSO-0805: LIMIT SWITCH, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
381			BPV-0807: ON-OFF VALVE, DELTA TBC	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 15.36
382			SVC-0807: SOLENOID, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1	0%	1	1.450	$ 30.72	$ 44.54	$ -	$ 44.54	$ 44.54
383			SVO-0807: SOLENOID, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1	0%	1	1.450	$ 30.72	$ 44.54	$ -	$ 44.54	$ 44.54
384			ZSC-0807: LIMIT SWITCH, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
385			ZSO-0807: LIMIT SWITCH, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
386			BDV-0808: ON-OFF VALVE, EMERSON TBC (IDD 05-04) & (IDD 05-07)	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 15.36
387			SVC-0808: SOLENOID, PETER PAUL E24HJ9ZCCM, ASSEMBLED WITH VALVE	EA	1	0%	1	1.150	$ 30.72	$ 35.33	$ -	$ 35.33	$ 35.33
388			ZSC-0808: LIMIT SWITCH, TOPWORKS DXP-L41GNEB, ASSEMBLED WITH VALVE	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
389			ZSO-0808: LIMIT SWITCH, TOPWORKS DXP-L41GNEB, ASSEMBLED WITH VALVE	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72

DETAILED BREAKDOWN OF ITEMS

Prepared for: Kinder Morgan NGPL-Compressor Station 388 HP Addition afe-238039
Project ID: 14052026
Scope: Electrical & Instruments

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 09/28/26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
390		Purchased By KM	BPV-0809: ON-OFF VALVE, EMERSON TBC (IDD 05-04) & (IDD 05-07)	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 15.36
391			SVO-0809: SOLENOID, PETER PAUL E24HJ9ZCCM, ASSEMBLED WITH VALVE	EA	1	0%	1	1.150	$ 30.72	$ 35.33	$ -	$ 35.33	$ 35.33
392			ZSC-0809: LIMIT SWITCH, TOPWORKS DXP-L41GNEB, ASSEMBLED WITH VALVE	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
393			ZSO-0809: LIMIT SWITCH, TOPWORKS DXP-L41GNEB, ASSEMBLED WITH VALVE	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
394			BDV-0810: ON-OFF VALVE, EMERSON TBC (IDD 05-04) & (IDD 05-07)	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 15.36
395			SVC-0810: SOLENOID, PETER PAUL E24HJ9ZCCM, ASSEMBLED WITH VALVE	EA	1	0%	1	1.150	$ 30.72	$ 35.33	$ -	$ 35.33	$ 35.33
396			ZSC-0810: LIMIT SWITCH, TOPWORKS DXP-L41GNEB, ASSEMBLED WITH VALVE	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
397			ZSO-0810: LIMIT SWITCH, TOPWORKS DXP-L41GNEB, ASSEMBLED WITH VALVE	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
398			BDV-0811: ON-OFF VALVE, EMERSON TBC (IDD 05-04) & (IDD 05-07)	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 15.36
399			SVC-0811: SOLENOID, PETER PAUL E24HJ9ZCCM, ASSEMBLED WITH VALVE	EA	1	0%	1	1.150	$ 30.72	$ 35.33	$ -	$ 35.33	$ 35.33
400			ZSC-0811: LIMIT SWITCH, TOPWORKS DXP-L41GNEB, ASSEMBLED WITH VALVE	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
401			ZSO-0811: LIMIT SWITCH, TOPWORKS DXP-L41GNEB, ASSEMBLED WITH VALVE	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
402			PIT-0802: PRESSURE TRANSMITTER, ROSEMOUNT 3051S2TG4A2A11A1ADA2B4E5L1 M5Q4Q8T1HR7(By KM Installed By388-50-E167 (IDD 01-06) 388-50-E167 (IDD 07-03)	EA	1	0%	1	2.250	$ 30.72	$ 69.12	$ -	$ 69.12	$ 69.12
403			PIT-0803: PRESSURE TRANSMITTER, ROSEMOUNT 3051S2TG4A2A11A1ADA2B4E5L1 M5Q4Q8T1HR7(By KM Installed By388-50-E167 (IDD 01-06) 388-50-E167 (IDD 07-03)	EA	1	0%	1	2.250	$ 30.72	$ 69.12	$ -	$ 69.12	$ 69.12
404			PIT-0804: PRESSURE TRANSMITTER, ROSEMOUNT 3051S2TG4A2A11A1ADA2B4E5L1 M5Q4Q8T1HR7(By KM Installed By388-50-E167 (IDD 01-06) 388-50-E167 (IDD 07-03)	EA	1	0%	1	2.250	$ 30.72	$ 69.12	$ -	$ 69.12	$ 69.12
405			PIT-0805: PRESSURE TRANSMITTER, ROSEMOUNT 3051S2TG3A2A11A1ADA2B4E5L1 M5Q4Q8T1HR7(By KM Installed By388-50-E167 (IDD 01-06) 388-50-E167 (IDD 07-03)	EA	1	0%	1	2.250	$ 30.72	$ 69.12	$ -	$ 69.12	$ 69.12
406			PIT-0806: PRESSURE TRANSMITTER, ROSEMOUNT 3051S2TG3A2A11A1ADA2B4E5L1 M5Q4Q8T1HR7(By KM Installed By388-50-E167 (IDD 01-06) 388-50-E167 (IDD 07-03)	EA	1	0%	1	2.250	$ 30.72	$ 69.12	$ -	$ 69.12	$ 69.12
407			PIT-0808: PRESSURE TRANSMITTER, ROSEMOUNT 3051S2TG4A2A11A1ADA2B4E5L1 M5Q4Q8T1HR7(By KM Installed By388-50-E167 (IDD 01-06) 388-50-E167 (IDD 07-03)	EA	1	0%	1	2.250	$ 30.72	$ 69.12	$ -	$ 69.12	$ 69.12
408			PIT-0809: PRESSURE TRANSMITTER, ROSEMOUNT 3051S2TG4A2A11A1ADA2B4E5L1 M5Q4Q8T1HR7(By KM Installed By388-50-E167 (IDD 01-06) 388-50-E167 (IDD 07-03)	EA	1	0%	1	2.250	$ 30.72	$ 69.12	$ -	$ 69.12	$ 69.12
409			PIT-0810: PRESSURE TRANSMITTER, ROSEMOUNT 3051S2TG4A2A11A1ADA2B4E5L1 M5Q4Q8T1HR7(By KM Installed By388-50-E167 (IDD 01-06) 388-50-E167 (IDD 07-03)	EA	1	0%	1	2.250	$ 30.72	$ 69.12	$ -	$ 69.12	$ 69.12
410			PIT-0814: PRESSURE TRANSMITTER, ROSEMOUNT 3051S2TG4A2A11A1ADA2B4E5L1 M5Q4Q8T1HR7(By KM Installed By388-50-E167 (IDD 01-06) 388-50-E167 (IDD 07-03)	EA	1	0%	1	2.250	$ 30.72	$ 69.12	$ -	$ 69.12	$ 69.12
411			PSHH-0803: PRESSURE SWITCH, NEO-DYN 231P46CC6(By KM Installed By388-50-E167 (IDD 01-06) 388-50-E167 (IDD 07-03)	EA	1	0%	1	1.250	$ 30.72	$ 38.40	$ -	$ 38.40	$ 38.40
412			PSHH-0804: PRESSURE SWITCH, NEO-DYN 231P45CC6(By KM Installed By388-50-E167 (IDD 01-06) 388-50-E167 (IDD 07-03)	EA	1	0%	1	1.250	$ 30.72	$ 38.40	$ -	$ 38.40	$ 38.40
413			PI-0801: PRESSURE GAUGE, ASHCROFT 451279SSL04LXNHSG4000#(By KM Installed By388-50-E167 (IDD 01-08)	EA	1	0%	1	0.800	$ 30.72	$ 24.58	$ -	$ 24.58	$ 24.58
414			PI-0802: PRESSURE GAUGE, ASHCROFT 451279SSL04LXNHSG2000#(By KM Installed By388-50-E167 (IDD 01-08)	EA	1	0%	1	0.800	$ 30.72	$ 24.58	$ -	$ 24.58	$ 24.58
415			PI-0812: PRESSURE GAUGE, ASHCROFT 451279SSL04LXNHSG4000#(By KM Installed By388-50-E167 (IDD 01-08)	EA	1	0%	1	0.800	$ 30.72	$ 24.58	$ -	$ 24.58	$ 24.58
416			PI-0813: PRESSURE GAUGE, ASHCROFT 451279SSL04LXNHSG2000#(By KM Installed By388-50-E167 (IDD 01-08)	EA	1	0%	1	0.800	$ 30.72	$ 24.58	$ -	$ 24.58	$ 24.58
417			PSV-8100: PRESSURE SAFETY VALVE, TBC	EA	1	0%	1	0.650	$ 30.72	$ 19.97	$ -	$ 19.97	$ 19.97
418			PSV-8005: PRESSURE SAFETY VALVE, TBC	EA	1	0%	1	0.650	$ 30.72	$ 19.97	$ -	$ 19.97	$ 19.97
419			PSV-8006: PRESSURE SAFETY VALVE, TBC	EA	1	0%	1	0.650	$ 30.72	$ 19.97	$ -	$ 19.97	$ 19.97
420		Purchased By Kingtool (V-8200)	LIT-8201: LEVEL TRANSMITTER, ROSEMOUNT 9930074BAE1E02475SD1FBH0SB 8AZB8AZF01200C0ZZ	EA	1	0%	1	1.560	$ 30.72	$ 47.92	$ -	$ 47.92	$ 47.92
421			LSHH-8202: LEVEL SWITCH, ROSEMOUNT MLS3EX-MAZZZS1C1E8	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 46.08
422			LSLC-8202: LEVEL SWITCH, ROSEMOUNT MLS3EX-MAZZZS1C1E8(By KM Installed By TBC	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 46.08
423			LG-8204: LEVEL GAUGE, ROSEMOUNT 9930085BAF1E02475SD1FBH0SB 8AZB8AZF01200C0ZZ	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
424			PI-8205: PRESSURE GAUGE, ASHCROFT 45-1009-S-L-04-B-2000	EA	1	0%	1	0.800	$ 30.72	$ 24.58	$ -	$ 24.58	$ 24.58
425			TI-8206: THERMOMETER, ASHCROFT 50-EI-60E-040	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
426			TW-8206: THERMOWELL, ASHCROFT 10W 0250 HT 260 C	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
427			LCV-8201: CONTROL VALVE, FISHER D4 / DVC6200	EA	1	0%	1	3.000	$ 30.72	$ 92.16	$ -	$ 92.16	$ 92.16
428			SVO-8201: SOLENOID, ASCO 535-1510566	EA	1	0%	1	1.450	$ 30.72	$ 44.54	$ -	$ 44.54	$ 44.54
429			PRV-8201: PRESSURE REGULATOR, FISHER 67CFR	EA	1	0%	1	1.440	$ 30.72	$ 44.24	$ -	$ 44.24	$ 44.24
430			PSV-8200: PRESSURE SAFETY VALVE, AGCO 83S1M88-6	EA	1	0%	1	0.650	$ 30.72	$ 19.97	$ -	$ 19.97	$ 19.97
431		Purchased By Kingtool (V-8400)	LIT-8401: LEVEL TRANSMITTER, ROSEMOUNT 9930085BAF1E02475SD1FBH0SB 8AZB8AZF01200C0ZZ	EA	1	0%	1	1.560	$ 30.72	$ 47.92	$ -	$ 47.92	$ 47.92
432			LSHH-8402: LEVEL SWITCH, ROSEMOUNT MLS3EX-MAZZZS1C1E8	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 46.08
433			LSL-8403: LEVEL SWITCH, ROSEMOUNT MLS3EX-MAZZZS1C1E8	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 46.08
434			LG-8404: LEVEL GAUGE, ROSEMOUNT 9930085BAF1E02475SD1FBH0SB 8AZB8AZF01200C0ZZ	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
435			PI-8405: PRESSURE GAUGE, ASHCROFT 45-1009-S-L-04-B-3000	EA	1	0%	1	0.800	$ 30.72	$ 24.58	$ -	$ 24.58	$ 24.58
436			TI-8406: THERMOMETER, ASHCROFT 50-EI-60E-040	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
437			TW-8406: THERMOWELL, ASHCROFT 10W 0250 HT 260 C	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
438			LCV-8401: CONTROL VALVE, FISHER D4 / DVC6200	EA	1	0%	1	3.000	$ 30.72	$ 92.16	$ -	$ 92.16	$ 92.16
439			SVO-8401: SOLENOID, ASCO 535-1510566	EA	1	0%	1	1.450	$ 30.72	$ 44.54	$ -	$ 44.54	$ 44.54
440			PRV-8401: PRESSURE REGULATOR, FISHER 67CFR	EA	1	0%	1	1.440	$ 30.72	$ 44.24	$ -	$ 44.24	$ 44.24
441			PSV-8400: PRESSURE SAFETY VALVE, AGCO 83S1M88-6	EA	1	0%	1	0.650	$ 30.72	$ 19.97	$ -	$ 19.97	$ 19.97
442		Purchased By KM	TE-0811: TEMPERATURE ELEMENT (RTD), ROSEMOUNT 214CRHSMB15E0087SLE5ATIC 3B1WDV20Q4XW(By KM Installed By388-50-E167 (IDD 02-04) 388-50-E169 (IDD 07-03)	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
443			TW-0811: THERMOWELL, ROSEMOUNT 114CE0070TAB2SC017AQ8R21X W(By KM Installed By388-50-E167 (IDD 02-04)	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
444			TE-0812: TEMPERATURE ELEMENT (RTD), ROSEMOUNT 214CRHSMB15E0077SLE5ATIC 3B1WDV20Q4XW(By KM Installed By388-50-E167 (IDD 02-04) 388-50-E169 (IDD 07-03)	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
445			TW-0812: THERMOWELL, ROSEMOUNT 114CE0060TAB2SC017AQ8R21X W(By KM Installed By388-50-E167 (IDD 02-04)	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
446		Purchased By TEK-FINS (GAS COOLER)	VT-8110: VIBRATION TRANSMITTER, METRIX VIBRATION ST548E-121-020-00	EA	1	0%	1	0.600	$ 30.72	$ 18.43	$ -	$ 18.43	$ 18.43
447			VT-8120: VIBRATION TRANSMITTER, METRIX VIBRATION ST548E-121-020-00	EA	1	0%	1	0.600	$ 30.72	$ 18.43	$ -	$ 18.43	$ 18.43
448			VT-8210: VIBRATION TRANSMITTER, METRIX VIBRATION ST548E-121-020-00	EA	1	0%	1	0.600	$ 30.72	$ 18.43	$ -	$ 18.43	$ 18.43
449			VT-8220: VIBRATION TRANSMITTER, METRIX VIBRATION ST548E-121-020-00	EA	1	0%	1	0.600	$ 30.72	$ 18.43	$ -	$ 18.43	$ 18.43
450			VT-8310: VIBRATION TRANSMITTER, METRIX VIBRATION ST548E-121-020-00	EA	1	0%	1	0.600	$ 30.72	$ 18.43	$ -	$ 18.43	$ 18.43
451			VT-8320: VIBRATION TRANSMITTER, METRIX VIBRATION ST548E-121-020-00	EA	1	0%	1	0.600	$ 30.72	$ 18.43	$ -	$ 18.43	$ 18.43
452			VT-8410: VIBRATION TRANSMITTER, METRIX VIBRATION ST548E-121-020-00	EA	1	0%	1	0.600	$ 30.72	$ 18.43	$ -	$ 18.43	$ 18.43
453			VT-8420: VIBRATION TRANSMITTER, METRIX VIBRATION ST548E-121-020-00	EA	1	0%	1	0.600	$ 30.72	$ 18.43	$ -	$ 18.43	$ 18.43
454		Purchased By KM	HS-8110: HAND SWITCH, TBC	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 15.36
455			HS-8120: HAND SWITCH, TBC	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 15.36
456			HS-8210: HAND SWITCH, TBC	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 15.36
457			HS-8220: HAND SWITCH, TBC	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 15.36
458			HS-8310: HAND SWITCH, TBC	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 15.36
459			HS-8320: HAND SWITCH, TBC	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 15.36
460			HS-8410: HAND SWITCH, TBC	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 15.36
461			HS-8420: HAND SWITCH, TBC	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 15.36
462		Purchased By SILENCER VENDOR	RO-8600: RESTRICTION ORIFICE, TBC	EA	1	0%	1	0.850	$ 30.72	$ 26.11	$ -	$ 26.11	$ 26.11
463			LIT-8801: LEVEL TRANSMITTER, TBC	EA	1	0%	1	1.560	$ 30.72	$ 47.92	$ -	$ 47.92	$ 47.92
464			LSH-8802: LEVEL SWITCH, TBC	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 46.08
465			LSL-8802: LEVEL SWITCH, TBC	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 46.08
466			LG-8803: LEVEL GAUGE, TBC	EA	1	0%	1	1.320	$ 30.72	$ 40.55	$ -	$ 40.55	$ 40.55
467			TI-8805: THERMOMETER, TBC	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04

DETAILED BREAKDOWN OF ITEMS

Prepared for: Kinder Morgan NGPL-Compressor Station 388 HP Addition afe-238039
Project ID: 14052026
Scope: Electrical & Instruments

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 09/28/26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
468		Purchased By KM	TW-8805: THERMOWELL, TBC	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
469			PSV-8807: PRESSURE SAFETY VALVE, TBC	EA	1	0%	1	0.650	$ 30.72	$ 19.97	$ -	$ 19.97	$ 19.97
470			DPIT-8804: DIFF PRESSURE TRANSMITTER, ROSEMOUNT 3051CD3A02A1AS5E5M5Q4Q8T1 HR7(By KM Installed By388-50-E167 (IDD 01-04) 388-50-E167 (IDD 07-03)	EA	1	0%	1	2.250	$ 30.72	$ 69.12	$ -	$ 69.12	$ 69.12
471		Purchased By SIEMENS (COMP #8 UNIT)	PSV-8501: PRESSURE SAFETY VALVE, TBC	EA	1	0%	1	0.650	$ 30.72	$ 19.97	$ -	$ 19.97	$ 19.97
472			TCV-137: CONTROL VALVE, AMOT 3BOCF13001	EA	1	0%	1	3.500	$ 30.72	$ 107.52	$ -	$ 107.52	$ 107.52
473			VT-8500: VIBRATION TRANSMITTER, TBC	EA	1	0%	1	0.600	$ 30.72	$ 18.43	$ -	$ 18.43	$ 18.43
474		Purchased By KM	HS-8500: HAND SWITCH, TBC	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 15.36
475			HS-1040: HAND SWITCH, TBC	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 15.36
476		Purchased By SIEMENS (LUBE OIL SKID)	TI-271: THERMOMETER, ROSEMOUNT 214CRW SMB1S4E0037SLAT1C3B 1XW	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
477			TW-271: THERMOWELL, ROSEMOUNT 114CE0020TAC1SF017AQ8XW	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
478		Purchased By SIEMENS (COMP #8 UNIT)	PI-218: PRESSURE GAUGE, TBC	EA	1	0%	1	0.800	$ 30.72	$ 24.58	$ -	$ 24.58	$ 24.58
479			PIT-223: PRESSURE TRANSMITTER, TBC 2051TG2A2B21AB4E5	EA	1	0%	1	2.250	$ 30.72	$ 69.12	$ -	$ 69.12	$ 69.12
480			FG-211: FLOW GAUGE, JACOB TARBOX 300-S	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 46.08
481			TI-212: THERMOMETER, ASHCROFT 50EI60E060XNNSG0/250F	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
482			TW-212: THERMOWELL, ALLOY ENGINEERING 1.00"-260S-U2-1/2"	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
483			FG-214: FLOW GAUGE, TBC	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 46.08
484			TI-215: THERMOMETER, TBC	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
485			TW-215: THERMOWELL, TBC	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
486			FG-231: FLOW GAUGE, JACOB TARBOX 300-S	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 46.08
487			TI-232: THERMOMETER, ASHCROFT 50EI60E060XNNSG0/250F	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
488			TW-232: THERMOWELL, ALLOY ENGINEERING 1.00"-260S-U2-1/2"	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
489			FG-234: FLOW GAUGE, TBC	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 46.08
490			TI-235: THERMOMETER, TBC	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
491			TW-235: THERMOWELL, TBC	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
492			FG-251: FLOW GAUGE, JACOB TARBOX 300-S	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 46.08
493			TI-252: THERMOMETER, ASHCROFT 50EI60E060XNNSG0/250F	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
494			TW-252: THERMOWELL, ALLOY ENGINEERING 1.00"-260S-U2-1/2"	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
495			FG-254: FLOW GAUGE, TBC	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 46.08
496			TI-255: THERMOMETER, TBC	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
497			TW-255: THERMOWELL, TBC	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
498			FG-221: FLOW GAUGE, JACOB TARBOX 300-S	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 46.08
499			TI-222: THERMOMETER, ASHCROFT 50EI60E060XNNSG0/250F	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
500			TW-222: THERMOWELL, ALLOY ENGINEERING 1.00"-260S-U2-1/2"	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
501			FG-224: FLOW GAUGE, TBC	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 46.08
502			TI-225: THERMOMETER, TBC	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
503			TW-225: THERMOWELL, TBC	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
504			FG-241: FLOW GAUGE, JACOB TARBOX 300-S	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 46.08
505			TI-242: THERMOMETER, ASHCROFT 50EI60E060XNNSG0/250F	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
506			TW-242: THERMOWELL, ALLOY ENGINEERING 1.00"-260S-U2-1/2"	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
507			FG-244: FLOW GAUGE, TBC	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 46.08
508			TI-245: THERMOMETER, TBC	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
509			TW-245: THERMOWELL, TBC	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
510			FG-261: FLOW GAUGE, JACOB TARBOX 300-S	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 46.08
511			TI-262: THERMOMETER, ASHCROFT 50EI60E060XNNSG0/250F	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
512			TW-262A: THERMOWELL, ALLOY ENGINEERING 1.00"-260S-U2-1/2"	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
513			FG-264: FLOW GAUGE, TBC	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 46.08
514			TI-265: THERMOMETER, TBC	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
515			TW-2625: THERMOWELL, TBC	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
516			TE-537: TEMPERATURE ELEMENT (RTD), TBC	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
517			VT-546: VIBRATION TRANSMITTER, METRIX VIBRATION ST5484E-152-0412-22	EA	1	0%	1	0.600	$ 30.72	$ 18.43	$ -	$ 18.43	$ 18.43
518			TE-501: TEMPERATURE ELEMENT (RTD), MOTOR VENDOR TBC	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
519			TE-502: TEMPERATURE ELEMENT (RTD), MOTOR VENDOR TBC	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
520			TE-503: TEMPERATURE ELEMENT (RTD), MOTOR VENDOR TBC	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
521			TE-504: TEMPERATURE ELEMENT (RTD), MOTOR VENDOR TBC	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
522			TE-505: TEMPERATURE ELEMENT (RTD), MOTOR VENDOR TBC	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
523			TE-506: TEMPERATURE ELEMENT (RTD), MOTOR VENDOR TBC	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
524			TE-507: TEMPERATURE ELEMENT (RTD), MOTOR VENDOR TBC	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
525			TE-508: TEMPERATURE ELEMENT (RTD), MOTOR VENDOR TBC	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
526			TE-509: TEMPERATURE ELEMENT (RTD), MOTOR VENDOR TBC	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
527			ZS-120: LIMIT SWITCH, MICRO SWITCH 16CX2C / LSZ55C	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
528			ZS-119: LIMIT SWITCH, MICRO SWITCH 16CX2C / LSZ51A	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
529			TE-311: TEMPERATURE ELEMENT (RTD), CONAX 10-1287-1	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
530			TE-312: TEMPERATURE ELEMENT (RTD), CONAX 10-1287-1	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
531			TE-313: TEMPERATURE ELEMENT (RTD), CONAX 10-1287-1	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
532			TE-314: TEMPERATURE ELEMENT (RTD), CONAX 10-1287-1	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
533			TE-315: TEMPERATURE ELEMENT (RTD), CONAX 10-1287-1	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
534			TE-316: TEMPERATURE ELEMENT (RTD), CONAX 10-1287-1	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
535			TE-317: TEMPERATURE ELEMENT (RTD), CONAX 10-1287-1	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
536			TE-318: TEMPERATURE ELEMENT (RTD), CONAX 10-1287-1	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
537			TE-319: TEMPERATURE ELEMENT (RTD), CONAX 10-1287-1	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
538			TE-320: TEMPERATURE ELEMENT (RTD), CONAX 10-1287-1	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
539			VT-321: VIBRATION TRANSMITTER, TBC	EA	1	0%	1	0.600	$ 30.72	$ 18.43	$ -	$ 18.43	$ 18.43
540			VT-322: VIBRATION TRANSMITTER, TBC	EA	1	0%	1	0.600	$ 30.72	$ 18.43	$ -	$ 18.43	$ 18.43
541			TC-102: HEATER CONTROLLER, CALORITECH CXST 12091-15	EA	1	0%	1	1.100	$ 30.72	$ 33.79	$ -	$ 33.79	$ 33.79
542			LG-107: LEVEL GAUGE, LOWELL TBC	EA	1	0%	1	1.320	$ 30.72	$ 40.55	$ -	$ 40.55	$ 40.55
543			140F-	EA	1	0%	1	1.560	$ 30.72	$ 47.92	$ -	$ 47.92	$ 47.92
544			LSL-106: LEVEL SWITCH, TBC	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 46.08
545			PRV-156: PRESSURE SAFETY VALVE, FULFLO VJ-7RV	EA	1	0%	1	0.650	$ 30.72	$ 19.97	$ -	$ 19.97	$ 19.97
546			PI-121: PRESSURE GAUGE, ASHCROFT 045-1279SSL-04L-XGV SG	EA	1	0%	1	0.800	$ 30.72	$ 24.58	$ -	$ 24.58	$ 24.58
547			PIT-122: PRESSURE TRANSMITTER, ROSEMOUNT 3051CG4A22A1AS5K5M5Q4QTAQ 8V5HR70229	EA	1	0%	1	2.250	$ 30.72	$ 69.12	$ -	$ 69.12	$ 69.12
548			PIT-123: PRESSURE TRANSMITTER, ROSEMOUNT 3051CG4A22A1AS5K5M5Q4QTAQ 8V5HR70229	EA	1	0%	1	2.250	$ 30.72	$ 69.12	$ -	$ 69.12	$ 69.12
549			PSE-301: PRESSURE RELIEF VALVE, BICERA Size 10RD	EA	1	0%	1	0.850	$ 30.72	$ 26.11	$ -	$ 26.11	$ 26.11
550			PSE-303: PRESSURE RELIEF VALVE, BICERA Size 10RD	EA	1	0%	1	0.850	$ 30.72	$ 26.11	$ -	$ 26.11	$ 26.11
551			PSE-305: PRESSURE RELIEF VALVE, BICERA Size 10RD	EA	1	0%	1	0.850	$ 30.72	$ 26.11	$ -	$ 26.11	$ 26.11
552			PSE-302: PRESSURE RELIEF VALVE, BICERA Size 10RD	EA	1	0%	1	0.850	$ 30.72	$ 26.11	$ -	$ 26.11	$ 26.11
553			PSE-304: PRESSURE RELIEF VALVE, BICERA Size 10RD	EA	1	0%	1	0.850	$ 30.72	$ 26.11	$ -	$ 26.11	$ 26.11
554			PSE-306: PRESSURE RELIEF VALVE, BICERA Size 10RD	EA	1	0%	1	0.850	$ 30.72	$ 26.11	$ -	$ 26.11	$ 26.11
555			VT-331: VIBRATION TRANSMITTER, TBC	EA	1	0%	1	0.600	$ 30.72	$ 18.43	$ -	$ 18.43	$ 18.43
556			VT-332: VIBRATION TRANSMITTER, TBC	EA	1	0%	1	0.600	$ 30.72	$ 18.43	$ -	$ 18.43	$ 18.43
557			VT-333: VIBRATION TRANSMITTER, TBC	EA	1	0%	1	0.600	$ 30.72	$ 18.43	$ -	$ 18.43	$ 18.43
558			VT-334: VIBRATION TRANSMITTER, TBC	EA	1	0%	1	0.600	$ 30.72	$ 18.43	$ -	$ 18.43	$ 18.43
559			VT-335: VIBRATION TRANSMITTER, TBC	EA	1	0%	1	0.600	$ 30.72	$ 18.43	$ -	$ 18.43	$ 18.43
560			VT-336: VIBRATION TRANSMITTER, TBC	EA	1	0%	1	0.600	$ 30.72	$ 18.43	$ -	$ 18.43	$ 18.43
561		Purchased By SIEMENS (LUBE OIL SKID)	PDIT-239: DIFF PRESSURE TRANSMITTER, ROSEMOUNT 2051CD4A22A1AE5B4	EA	1	0%	1	2.250	$ 30.72	$ 69.12	$ -	$ 69.12	$ 69.12
562			PDI-240: DIFF PRESSURE GAUGE, ORANGE RESEARCH 1201PG-1C-4.5-F	EA	1	0%	1	0.800	$ 30.72	$ 24.58	$ -	$ 24.58	$ 24.58
563			FO-153: RESTRICTION ORIFICE, MAC WELD TBC	EA	1	0%	1	0.850	$ 30.72	$ 26.11	$ -	$ 26.11	$ 26.11
564			TE-268: TEMPERATURE ELEMENT (RTD), ROSEMOUNT 214CRW SMB1S4E0037SLAT1C3B 1XW	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
565			TW-268: THERMOWELL, ROSEMOUNT 114CE0020TAC1SF017AQ8XW	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
566			TI-270: THERMOMETER, ASHCROFT 50EL60E025/250FXG4	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
567			TW-270: THERMOWELL, ASHCROFT 75W 01622SM260C	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
568			TE-269: TEMPERATURE ELEMENT (RTD), ROSEMOUNT 214CRW SMB1S4E0037SLAT1C3B 1XW	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
569			TW-269: THERMOWELL, ROSEMOUNT 114CE0020TAC1SF017AQ8XW	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
570			TCV-138: CONTROL VALVE, AMOT 3BOSJ14001	EA	1	0%	1	3.500	$ 30.72	$ 107.52	$ -	$ 107.52	$ 107.52
571			TE-267: TEMPERATURE ELEMENT (RTD), ROSEMOUNT 214CRW SMB1S4E0037SLAT1C3B 1XW	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
572			TW-267: THERMOWELL, ROSEMOUNT 114CE0020TAC1SF017AQ8XW	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
573			FO-154: RESTRICTION ORIFICE, SWAGELOK SS-810-1-8PD-.063	EA	1	0%	1	0.850	$ 30.72	$ 26.11	$ -	$ 26.11	$ 26.11
574		Purchased By SIEMENS (COMP #8 UNIT)	PIT-711: PRESSURE TRANSMITTER, ROSEMOUNT 3051CG4A22A1AS5K5M5Q4QTAQ 8V5HR70229	EA	1	0%	1	2.250	$ 30.72	$ 69.12	$ -	$ 69.12	$ 69.12
575			PIT-713: PRESSURE TRANSMITTER, ROSEMOUNT 3051CG4A22A1AS5K5M5Q4QTAQ 8V5HR70229	EA	1	0%	1	2.250	$ 30.72	$ 69.12	$ -	$ 69.12	$ 69.12
576			PIT-721: PRESSURE TRANSMITTER, ROSEMOUNT 3051CG4A22A1AS5K5M5Q4QTAQ 8V5HR70229	EA	1	0%	1	2.250	$ 30.72	$ 69.12	$ -	$ 69.12	$ 69.12
577			PIT-723: PRESSURE TRANSMITTER, ROSEMOUNT 3051CG4A22A1AS5K5M5Q4QTAQ 8V5HR70229	EA	1	0%	1	2.250	$ 30.72	$ 69.12	$ -	$ 69.12	$ 69.12
578		Purchased By SIEMENS (LUBE	PI-219: PRESSURE GAUGE, ASHCROFT 451279RSL04BXSG160#	EA	1	0%	1	0.800	$ 30.72	$ 24.58	$ -	$ 24.58	$ 24.58
579			PIT-224: PRESSURE TRANSMITTER, ROSEMOUNT 2051TG2A2B21AB4E5M4	EA	1	0%	1	2.250	$ 30.72	$ 69.12	$ -	$ 69.12	$ 69.12

DETAILED BREAKDOWN OF ITEMS

Prepared for: Kinder Morgan NGPL-Compressor Station 388 HP Addition afe-238039
Project ID: 14052026
Scope: Electrical & Instruments

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 09/28/26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
580		OIL SKID)	PRV-115: PRESSURE SAFETY VALVE, FULFLO FVSF-8R/SS/WS	EA	1	0%	1	0.650	$ 30.72	$ 19.97	$ -	$ 19.97	$ 19.97
581			HS-308: HAND SWITCH, TBC	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 15.36
582		Purchased By SIEMENS (COMP #8 UNIT)	MDG-8060: METAL DETECTOR, TBC	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 46.08
583		Purchased By KM	PIT-8700: PRESSURE TRANSMITTER, ROSEMOUNT 3051S2TG3A2A11A1ADA2B4E5L1 M5Q4Q8T1HR7(By KM Installed By388-50-E167 (IDD 01-06) 388-50-E167 (IDD 07-03)	EA	1	0%	1	2.250	$ 30.72	$ 69.12	$ -	$ 69.12	$ 69.12
584		Purchased By F-8700	PDI-8700A: DIFF PRESSURE GAUGE, TBC	EA	1	0%	1	0.800	$ 30.72	$ 24.58	$ -	$ 24.58	$ 24.58
585		VENDOR	PDI-8700B: DIFF PRESSURE GAUGE, TBC	EA	1	0%	1	0.800	$ 30.72	$ 24.58	$ -	$ 24.58	$ 24.58
586		Purchased By SIVALL (V-8100IA)	PSV-8101: PRESSURE SAFETY VALVE, TBC	EA	1	0%	1	0.650	$ 30.72	$ 19.97	$ -	$ 19.97	$ 19.97
587		Purchased By KM	PI-8102: PRESSURE GAUGE, ASHCROFT 451279SSL04LXNHSG300#(By KM Installed By388-50-E167 (IDD 01-08)	EA	1	0%	1	0.800	$ 30.72	$ 24.58	$ -	$ 24.58	$ 24.58
588		Purchased By T-8200 VENDOR	LIT-8200: LEVEL TRANSMITTER, MAGNETROL TBC	EA	1	0%	1	1.560	$ 30.72	$ 47.92	$ -	$ 47.92	$ 47.92
589			SVO-8200: SOLENOID, TBC	EA	1	0%	1	1.450	$ 30.72	$ 44.54	$ -	$ 44.54	$ 44.54
590			PRV-8200: PRESSURE REGULATOR, TBC	EA	1	0%	1	1.440	$ 30.72	$ 44.24	$ -	$ 44.24	$ 44.24
591		Purchased By SIEMENS (LUBRICATOR SKID)	PI-332: PRESSURE GAUGE, TBC	EA	1	0%	1	0.800	$ 30.72	$ 24.58	$ -	$ 24.58	$ 24.58
592			PI-336: PRESSURE GAUGE, TBC	EA	1	0%	1	0.800	$ 30.72	$ 24.58	$ -	$ 24.58	$ 24.58
593			RD-334: RUPTURE DISC, TBC	EA	1	0%	1	0.800	$ 30.72	$ 24.58	$ -	$ 24.58	$ 24.58
594			RD-335: RUPTURE DISC, TBC	EA	1	0%	1	0.800	$ 30.72	$ 24.58	$ -	$ 24.58	$ 24.58
595			FS-333: FLOW SWITCH, TBC	EA	1	0%	1	1.150	$ 30.72	$ 35.33	$ -	$ 35.33	$ 35.33
596			FS-309: FLOW SWITCH, TBC	EA	1	0%	1	1.150	$ 30.72	$ 35.33	$ -	$ 35.33	$ 35.33
597			HS-303: HAND SWITCH, TBC	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 15.36
598		Purchased By SIEMENS (COMP #8 UNIT)	TE-118: THERMOCOUPLE, EXLINE W 139165AF	EA	1	0%	1	0.650	$ 30.72	$ 19.97	$ -	$ 19.97	$ 19.97
599			XE-116: POSITION SENSOR, EXLINE 313509	EA	1	0%	1	0.880	$ 30.72	$ 27.03	$ -	$ 27.03	$ 27.03
600			TSHH-127: TEMPERATURE SWITCH, AMOT 4395BA01B0	EA	1	0%	1	1.320	$ 30.72	$ 40.55	$ -	$ 40.55	$ 40.55
601			TD-103: TEMPERATURE DETECTOR, AMOT &4102D15C16197	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
602			TSHH-135: TEMPERATURE SWITCH, AMOT 4395BA01B0	EA	1	0%	1	1.320	$ 30.72	$ 40.55	$ -	$ 40.55	$ 40.55
603			TD-119: TEMPERATURE DETECTOR, AMOT 4102D12C13197	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
604			TE-120: THERMOCOUPLE, EXLINE W 139165AF	EA	1	0%	1	0.650	$ 30.72	$ 19.97	$ -	$ 19.97	$ 19.97
605			XE-118: POSITION SENSOR, EXLINE 313509	EA	1	0%	1	0.880	$ 30.72	$ 27.03	$ -	$ 27.03	$ 27.03
606			TSHH-129: TEMPERATURE SWITCH, AMOT 4395BA01B0	EA	1	0%	1	1.320	$ 30.72	$ 40.55	$ -	$ 40.55	$ 40.55
607			TD-107: TEMPERATURE DETECTOR, AMOT &4102D15C16197	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
608			TSHH-137: TEMPERATURE SWITCH, AMOT 4395BA01B0	EA	1	0%	1	1.320	$ 30.72	$ 40.55	$ -	$ 40.55	$ 40.55
609			TD-121: TEMPERATURE DETECTOR, AMOT 4102D12C13197	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
610			TE-122: THERMOCOUPLE, EXLINE W 139165AF	EA	1	0%	1	0.650	$ 30.72	$ 19.97	$ -	$ 19.97	$ 19.97
611			XE-120: POSITION SENSOR, EXLINE 313509	EA	1	0%	1	0.880	$ 30.72	$ 27.03	$ -	$ 27.03	$ 27.03
612			TSHH-131: TEMPERATURE SWITCH, AMOT 4395BA01B0	EA	1	0%	1	1.320	$ 30.72	$ 40.55	$ -	$ 40.55	$ 40.55
613			TD-111: TEMPERATURE DETECTOR, AMOT &4102D15C16197	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
614			TSHH-139: TEMPERATURE SWITCH, AMOT 4395BA01B0	EA	1	0%	1	1.320	$ 30.72	$ 40.55	$ -	$ 40.55	$ 40.55
615			TD-123: TEMPERATURE DETECTOR, AMOT 4102D12C13197	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
616			TE-119: THERMOCOUPLE, EXLINE W 139165AF	EA	1	0%	1	0.650	$ 30.72	$ 19.97	$ -	$ 19.97	$ 19.97
617			XE-117: POSITION SENSOR, EXLINE 313509	EA	1	0%	1	0.880	$ 30.72	$ 27.03	$ -	$ 27.03	$ 27.03
618			TSHH-128: TEMPERATURE SWITCH, AMOT 4395BA01B0	EA	1	0%	1	1.320	$ 30.72	$ 40.55	$ -	$ 40.55	$ 40.55
619			TD-105: TEMPERATURE DETECTOR, AMOT &4102D15C16197	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
620			TSHH-136: TEMPERATURE SWITCH, AMOT 4395BA01B0	EA	1	0%	1	1.320	$ 30.72	$ 40.55	$ -	$ 40.55	$ 40.55
621			TD-120: TEMPERATURE DETECTOR, AMOT 4102D12C13197	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
622			TE-121: THERMOCOUPLE, EXLINE W 139165AF	EA	1	0%	1	0.650	$ 30.72	$ 19.97	$ -	$ 19.97	$ 19.97
623			XE-119: POSITION SENSOR, EXLINE 313509	EA	1	0%	1	0.880	$ 30.72	$ 27.03	$ -	$ 27.03	$ 27.03
624			TSHH-130: TEMPERATURE SWITCH, AMOT 4395BA01B0	EA	1	0%	1	1.320	$ 30.72	$ 40.55	$ -	$ 40.55	$ 40.55
625			TD-110: TEMPERATURE DETECTOR, AMOT &4102D15C16197	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
626			TSHH-138: TEMPERATURE SWITCH, AMOT 4395BA01B0	EA	1	0%	1	1.320	$ 30.72	$ 40.55	$ -	$ 40.55	$ 40.55
627			TD-122: TEMPERATURE DETECTOR, AMOT 4102D12C13197	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
628			TE-123: THERMOCOUPLE, EXLINE W 139165AF	EA	1	0%	1	0.650	$ 30.72	$ 19.97	$ -	$ 19.97	$ 19.97
629			XE-121: POSITION SENSOR, EXLINE 313509	EA	1	0%	1	0.880	$ 30.72	$ 27.03	$ -	$ 27.03	$ 27.03
630			TSHH-132: TEMPERATURE SWITCH, AMOT 4395BA01B0	EA	1	0%	1	1.320	$ 30.72	$ 40.55	$ -	$ 40.55	$ 40.55
631			TD-113: TEMPERATURE DETECTOR, AMOT &4102D15C16197	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
632			TSHH-140: TEMPERATURE SWITCH, AMOT 4395BA01B0	EA	1	0%	1	1.320	$ 30.72	$ 40.55	$ -	$ 40.55	$ 40.55
633			TD-124: TEMPERATURE DETECTOR, AMOT 4102D12C13197	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
634		Purchased By SIEMENS (UCP-8)	SVC-101: SOLENOID, ASCO EV8316G381V	EA	1	0%	1	1.450	$ 30.72	$ 44.54	$ -	$ 44.54	$ 44.54
635			PS-121: PRESSURE SWITCH, NEO-DYN 132P49CC8	EA	1	0%	1	1.250	$ 30.72	$ 38.40	$ -	$ 38.40	$ 38.40
636			SVC-102: SOLENOID, ASCO EV8316G381V	EA	1	0%	1	1.450	$ 30.72	$ 44.54	$ -	$ 44.54	$ 44.54
637			PS-122: PRESSURE SWITCH, NEO-DYN 132P49CC8	EA	1	0%	1	1.250	$ 30.72	$ 38.40	$ -	$ 38.40	$ 38.40
638			SVC-103: SOLENOID, ASCO EV8316G381V	EA	1	0%	1	1.450	$ 30.72	$ 44.54	$ -	$ 44.54	$ 44.54
639			PS-123: PRESSURE SWITCH, NEO-DYN 132P49CC8	EA	1	0%	1	1.250	$ 30.72	$ 38.40	$ -	$ 38.40	$ 38.40
640			SVC-104: SOLENOID, ASCO EV8316G381V	EA	1	0%	1	1.450	$ 30.72	$ 44.54	$ -	$ 44.54	$ 44.54
641			PS-124: PRESSURE SWITCH, NEO-DYN 132P49CC8	EA	1	0%	1	1.250	$ 30.72	$ 38.40	$ -	$ 38.40	$ 38.40
642			SOV-105: SOLENOID, ASCO EV8316G381V	EA	1	0%	1	1.450	$ 30.72	$ 44.54	$ -	$ 44.54	$ 44.54
643			PS-125: PRESSURE SWITCH, NEO-DYN 132P49CC8	EA	1	0%	1	1.250	$ 30.72	$ 38.40	$ -	$ 38.40	$ 38.40
644			SOV-106: SOLENOID, ASCO EV8316G381V	EA	1	0%	1	1.450	$ 30.72	$ 44.54	$ -	$ 44.54	$ 44.54
645			PS-126: PRESSURE SWITCH, NEO-DYN 132P49CC8	EA	1	0%	1	1.250	$ 30.72	$ 38.40	$ -	$ 38.40	$ 38.40
646			SOV-107: SOLENOID, ASCO EV8316G381V	EA	1	0%	1	1.450	$ 30.72	$ 44.54	$ -	$ 44.54	$ 44.54
647			PS-127: PRESSURE SWITCH, NEO-DYN 132P49CC8	EA	1	0%	1	1.250	$ 30.72	$ 38.40	$ -	$ 38.40	$ 38.40
648			SOV-108: SOLENOID, ASCO EV8316G381V	EA	1	0%	1	1.450	$ 30.72	$ 44.54	$ -	$ 44.54	$ 44.54
649			PS-128: PRESSURE SWITCH, NEO-DYN 132P49CC8	EA	1	0%	1	1.250	$ 30.72	$ 38.40	$ -	$ 38.40	$ 38.40
650			SOV-109: SOLENOID, ASCO EV8316G381V	EA	1	0%	1	1.450	$ 30.72	$ 44.54	$ -	$ 44.54	$ 44.54
651			PS-129: PRESSURE SWITCH, NEO-DYN 132P49CC8	EA	1	0%	1	1.250	$ 30.72	$ 38.40	$ -	$ 38.40	$ 38.40
652			SOV-110: SOLENOID, ASCO EV8316G381V	EA	1	0%	1	1.450	$ 30.72	$ 44.54	$ -	$ 44.54	$ 44.54
653			PS-130: PRESSURE SWITCH, NEO-DYN 132P49CC8	EA	1	0%	1	1.250	$ 30.72	$ 38.40	$ -	$ 38.40	$ 38.40
654			SOV-111: SOLENOID, ASCO EV8316G381V	EA	1	0%	1	1.450	$ 30.72	$ 44.54	$ -	$ 44.54	$ 44.54
655			PS-131: PRESSURE SWITCH, NEO-DYN 132P49CC8	EA	1	0%	1	1.250	$ 30.72	$ 38.40	$ -	$ 38.40	$ 38.40
656			SOV-112: SOLENOID, ASCO EV8316G381V	EA	1	0%	1	1.450	$ 30.72	$ 44.54	$ -	$ 44.54	$ 44.54
657			PS-132: PRESSURE SWITCH, NEO-DYN 132P49CC8	EA	1	0%	1	1.250	$ 30.72	$ 38.40	$ -	$ 38.40	$ 38.40
658			SOV-113: SOLENOID, ASCO EV8316G381V	EA	1	0%	1	1.450	$ 30.72	$ 44.54	$ -	$ 44.54	$ 44.54
659			PS-133: PRESSURE SWITCH, NEO-DYN 132P49CC8	EA	1	0%	1	1.250	$ 30.72	$ 38.40	$ -	$ 38.40	$ 38.40
660			SOV-114: SOLENOID, ASCO EV8316G381V	EA	1	0%	1	1.450	$ 30.72	$ 44.54	$ -	$ 44.54	$ 44.54
661			PS-134: PRESSURE SWITCH, NEO-DYN 132P49CC8	EA	1	0%	1	1.250	$ 30.72	$ 38.40	$ -	$ 38.40	$ 38.40
662			SOV-115: SOLENOID, ASCO EV8316G381V	EA	1	0%	1	1.450	$ 30.72	$ 44.54	$ -	$ 44.54	$ 44.54
663			PS-135: PRESSURE SWITCH, NEO-DYN 132P49CC8	EA	1	0%	1	1.250	$ 30.72	$ 38.40	$ -	$ 38.40	$ 38.40
664		Purchased By KM	BT-8001: FLAME DETECTOR, MSA FL500-3-5-2-3-1-1-1-1(By KM Installed By388-50-E169 (IDD 07-03) 388-50-E169 (IDD 06-06)	EA	1	0%	1	1.560	$ 30.72	$ 47.92	$ -	$ 47.92	$ 47.92
665			BT-8002: FLAME DETECTOR, MSA FL500-3-5-2-3-1-1-1-1(By KM Installed By388-50-E169 (IDD 07-03) 388-50-E169 (IDD 06-06)	EA	1	0%	1	1.560	$ 30.72	$ 47.92	$ -	$ 47.92	$ 47.92
666			BT-8003: FLAME DETECTOR, MSA FL500-3-5-2-3-1-1-1-1(By KM Installed By388-50-E169 (IDD 07-03) 388-50-E169 (IDD 06-06)	EA	1	0%	1	1.560	$ 30.72	$ 47.92	$ -	$ 47.92	$ 47.92
667			BT-8004: FLAME DETECTOR, MSA FL500-3-5-2-3-1-1-1-1(By KM Installed By388-50-E169 (IDD 07-03) 388-50-E169 (IDD 06-06)	EA	1	0%	1	1.560	$ 30.72	$ 47.92	$ -	$ 47.92	$ 47.92
668			BT-8005: FLAME DETECTOR, MSA FL500-3-5-2-3-1-1-1-1(By KM Installed By388-50-E169 (IDD 07-03) 388-50-E169 (IDD 06-06)	EA	1	0%	1	1.560	$ 30.72	$ 47.92	$ -	$ 47.92	$ 47.92
669			BT-8006: FLAME DETECTOR, MSA FL500-3-5-2-3-1-1-1-1(By KM Installed By388-50-E169 (IDD 07-03) 388-50-E169 (IDD 06-06)	EA	1	0%	1	1.560	$ 30.72	$ 47.92	$ -	$ 47.92	$ 47.92
670			GT-8001/2: GAS TRANSMITTER, MSA ULTIMA X5000 A-X5000-0M010AAAAT1(By KM Installed By388-50-E169 (IDD 06-08) 388-50-E169 (IDD 07-03)	EA	1	0%	1	3.000	$ 30.72	$ 92.16	$ -	$ 92.16	$ 92.16
671			GE-8001: GAS DETECTOR, MSA A-5K-SENSAA0M10(By KM Installed By388-50-E169 (IDD 06-07) 388-50-E169 (IDD 07-03)	EA	1	0%	1	2.850	$ 30.72	$ 87.55	$ -	$ 87.55	$ 87.55
672			GE-8002: GAS DETECTOR, MSA A-5K-SENSAA0M10(By KM Installed By388-50-E169 (IDD 06-07) 388-50-E169 (IDD 07-03)	EA	1	0%	1	2.850	$ 30.72	$ 87.55	$ -	$ 87.55	$ 87.55
673			BSD-8001: SHUTDOWN PUSHBUTTON, TBC	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 15.36
674			BSD-8002: SHUTDOWN PUSHBUTTON, TBC	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 15.36
675			BSD-8003: SHUTDOWN PUSHBUTTON, TBC	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 15.36
676			BSD-8004: SHUTDOWN PUSHBUTTON, TBC	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 15.36
677			XS-8001: INTRUSION DETECTOR, GE SECURITY SENTROL 2845T	EA	1	0%	1	1.180	$ 30.72	$ 36.25	$ -	$ 36.25	$ 36.25
678			XS-8002: INTRUSION DETECTOR, GE SECURITY SENTROL 2845T	EA	1	0%	1	1.180	$ 30.72	$ 36.25	$ -	$ 36.25	$ 36.25
679			XS-8003: INTRUSION DETECTOR, GE SECURITY SENTROL 2845T	EA	1	0%	1	1.180	$ 30.72	$ 36.25	$ -	$ 36.25	$ 36.25
680			XS-8004: INTRUSION DETECTOR, GE SECURITY SENTROL 2845T	EA	1	0%	1	1.180	$ 30.72	$ 36.25	$ -	$ 36.25	$ 36.25
681			OA-8001: LIGHT, TBC	EA	1	0%	1	0.650	$ 30.72	$ 19.97	$ -	$ 19.97	$ 19.97
682			OA-8002: LIGHT, TBC	EA	1	0%	1	0.650	$ 30.72	$ 19.97	$ -	$ 19.97	$ 19.97
683			OA-8003: LIGHT, TBC	EA	1	0%	1	0.650	$ 30.72	$ 19.97	$ -	$ 19.97	$ 19.97
684			OA-8004: LIGHT, TBC	EA	1	0%	1	0.650	$ 30.72	$ 19.97	$ -	$ 19.97	$ 19.97
685			OA-8005: LIGHT, TBC	EA	1	0%	1	0.650	$ 30.72	$ 19.97	$ -	$ 19.97	$ 19.97
686			TE-8001: TEMPERATURE ELEMENT (RTD), ROSEMOUNT 214CRHSSB1S3E0060SLW R3E5A T1C3B1W DV20Q4G3(By KM Installed By388-50-E169 (IDD 07-03)	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
687			TE-8002: TEMPERATURE ELEMENT (RTD), ROSEMOUNT 214CRHSSB1S3E0060SLW R3E5A T1C3B1W DV20Q4G3(By KM Installed By388-50-E169 (IDD 07-03)	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
688			TE-8003: TEMPERATURE ELEMENT (RTD), ROSEMOUNT 214CRHSSB1S3E0060SLW R3E5A T1C3B1W DV20Q4G3(By KM Installed By388-50-E169 (IDD 07-03)	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
689			XS-8010: HORN, TBC	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
690		Provided & Installed By Contractor	HS-8001: HAND SWITCH, TBC	EA	1	0%	1	0.000	$ 30.72	$ -	$ -	$ -	$ -
691			HS-8002: HAND SWITCH, TBC	EA	1	0%	1	0.000	$ 30.72	$ -	$ -	$ -	$ -
692			HS-8005: HAND SWITCH, TBC	EA	1	0%	1	0.000	$ 30.72	$ -	$ -	$ -	$ -
693			HS-8006: HAND SWITCH, TBC	EA	1	0%	1	0.000	$ 30.72	$ -	$ -	$ -	$ -
694			HS-8009: HAND SWITCH, TBC	EA	1	0%	1	0.000	$ 30.72	$ -	$ -	$ -	$ -
695			VT-8009: VIBRATION TRANSMITTER, TBC	EA	1	0%	1	0.600	$ 30.72	$ 18.43	$ -	$ 18.43	$ 18.43

DETAILED BREAKDOWN OF ITEMS

Prepared for: Kinder Morgan NGPL-Compressor Station 388 HP Addition afe-238039
Project ID: 14052026
Scope: Electrical & Instruments

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 09/28/26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
696		Purchased By KM	BT-8007: FLAME DETECTOR, MSA FL500-3-5-2-3-1-1-1-1(By KM Installed By388-50-E169 (IDD 07-03) 388-50-E169 (IDD 06-06)	EA	1	0%	1	1.560	$ 30.72	$ 47.92	$ -	$ 47.92	$ 47.92
697			BT-8008: FLAME DETECTOR, MSA FL500-3-5-2-3-1-1-1-1(By KM Installed By388-50-E169 (IDD 07-03) 388-50-E169 (IDD 06-06)	EA	1	0%	1	1.560	$ 30.72	$ 47.92	$ -	$ 47.92	$ 47.92
698			TE-8004: TEMPERATURE ELEMENT (RTD), ROSEMOUNT 214CRHSSB1S3E0060SLW R3E5A T1C3B1W DV20Q4G3(By KM Installed By388-50-E169 (IDD 07-03)	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
699			TE-8005: TEMPERATURE ELEMENT (RTD), ROSEMOUNT 214CRHSSB1S3E0060SLW R3E5A T1C3B1W DV20Q4G3(By KM Installed By388-50-E169 (IDD 07-03)	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
700			XS-8005: INTRUSION DETECTOR, GE SECURITY SENTROL 2845T	EA	1	0%	1	1.180	$ 30.72	$ 36.25	$ -	$ 36.25	$ 36.25
701			XS-8006: INTRUSION DETECTOR, GE SECURITY SENTROL 2845T	EA	1	0%	1	1.180	$ 30.72	$ 36.25	$ -	$ 36.25	$ 36.25
702			XS-8007: INTRUSION DETECTOR, GE SECURITY SENTROL 2845T	EA	1	0%	1	1.180	$ 30.72	$ 36.25	$ -	$ 36.25	$ 36.25
703			XS-8008: INTRUSION DETECTOR, GE SECURITY SENTROL 2845T	EA	1	0%	1	1.180	$ 30.72	$ 36.25	$ -	$ 36.25	$ 36.25
704			XS-8009: INTRUSION DETECTOR, GE SECURITY SENTROL 2845T	EA	1	0%	1	1.180	$ 30.72	$ 36.25	$ -	$ 36.25	$ 36.25
705		Purchased By PARKER (V-8500)	PSV-8500: PRESSURE SAFETY VALVE, AGCO 8431GI23/S1	EA	1	0%	1	0.650	$ 30.72	$ 19.97	$ -	$ 19.97	$ 19.97
706			LIT-8501A: LEVEL TRANSMITTER, MAGNETROL 706	EA	1	0%	1	1.560	$ 30.72	$ 47.92	$ -	$ 47.92	$ 47.92
707			LSH-8500A: LEVEL SWITCH, MAGNETROL TD2	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 46.08
708			LSLL-8500A: LEVEL SWITCH, MAGNETROL TD2	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 46.08
709			LG-8500A: LEVEL GAUGE, PENBERTHY 2RH4	EA	1	0%	1	1.320	$ 30.72	$ 40.55	$ -	$ 40.55	$ 40.55
710		Purchased By KM	BV-8500A: ON-OFF VALVE, EMERSON TBC(By KM Installed By388-50-E167 (IDD 05-04) 388-50-E169 (IDD 05-07)	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 15.36
711			SVO-8500A: SOLENOID, PETER PAUL E24HJ9ZCCM, ASSEMBLED WITH VALVE	EA	1	0%	1	1.450	$ 30.72	$ 44.54	$ -	$ 44.54	$ 44.54
712			ZSC-8500A: LIMIT SWITCH, TOPWORKS DXP-L41GNEB, ASSEMBLED WITH VALVE	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
713			ZSO-8500A: LIMIT SWITCH, TOPWORKS DXP-L41GNEB, ASSEMBLED WITH VALVE	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
714			LCV-8501A: CONTROL VALVE, F.E.T / RADIUS BAP / SR040(By KM Installed By388-50-E167 (IDD 05-03) 388-50-E169 (IDD 07-03)	EA	1	0%	1	3.000	$ 30.72	$ 92.16	$ -	$ 92.16	$ 92.16
715			SVO-8501A: SOLENOID, PETER PAUL E24HJ9ZCCM, ASSEMBLED WITH VALVE	EA	1	0%	1	1.450	$ 30.72	$ 44.54	$ -	$ 44.54	$ 44.54
716		Purchased By PARKER (V-8500)	PI-8500: PRESSURE GAUGE, ASHCROFT 1279	EA	1	0%	1	0.800	$ 30.72	$ 24.58	$ -	$ 24.58	$ 24.58
717			DPIT-8500: DIFF PRESSURE TRANSMITTER, ROSEMOUNT 3051CD	EA	1	0%	1	2.250	$ 30.72	$ 69.12	$ -	$ 69.12	$ 69.12
718			TI-8500: THERMOMETER, ASHCROFT 50E1	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
719			TW-8500: THERMOWELL, ASHCROFT ELL	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
720			LIT-8501B: LEVEL TRANSMITTER, MAGNETROL 706	EA	1	0%	1	1.560	$ 30.72	$ 47.92	$ -	$ 47.92	$ 47.92
721			LSH-8500B: LEVEL SWITCH, MAGNETROL TD2	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 46.08
722			LSLL-8500B: LEVEL SWITCH, MAGNETROL TD2	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 46.08
723			LG-8500B: LEVEL GAUGE, PENBERTHY 2RH4	EA	1	0%	1	1.320	$ 30.72	$ 40.55	$ -	$ 40.55	$ 40.55
724		Purchased By KM	BV-8500B: ON-OFF VALVE, EMERSON TBC(By KM Installed By388-50-E167 (IDD 05-04) 388-50-E169 (IDD 05-07)	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 15.36
725			SVO-8500B: SOLENOID, PETER PAUL E24HJ9ZCCM, ASSEMBLED WITH VALVE	EA	1	0%	1	1.450	$ 30.72	$ 44.54	$ -	$ 44.54	$ 44.54
726			ZSC-8500B: LIMIT SWITCH, TOPWORKS DXP-L41GNEB, ASSEMBLED WITH VALVE	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
727			ZSO-8500B: LIMIT SWITCH, TOPWORKS DXP-L41GNEB, ASSEMBLED WITH VALVE	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
728			LCV-8501B: CONTROL VALVE, F.E.T / RADIUS BAP / SR040(By KM Installed By388-50-E167 (IDD 05-03) 388-50-E169 (IDD 07-03)	EA	1	0%	1	3.000	$ 30.72	$ 92.16	$ -	$ 92.16	$ 92.16
729			SVO-8501B: SOLENOID, PETER PAUL E24HJ9ZCCM, ASSEMBLED WITH VALVE	EA	1	0%	1	1.450	$ 30.72	$ 44.54	$ -	$ 44.54	$ 44.54
730			PIT-8500: PRESSURE TRANSMITTER, ROSEMOUNT 3051S2TG4A2A11A1ADA2B4E5L1 M5Q4Q8T1HR7(By KM Installed By388-50-E167 (IDD 01-06) 388-50-E167 (IDD 07-03)	EA	1	0%	1	2.250	$ 30.72	$ 69.12	$ -	$ 69.12	$ 69.12
731			RO-8500: RESTRICTION ORIFICE, ROSEMOUNT 1495UC020RFSC00250BCW B3PH FLQ8	EA	1	0%	1	0.850	$ 30.72	$ 26.11	$ -	$ 26.11	$ 26.11
732			RIO#2 - Internal Panel Layout Compressor Building (BA-8000) - Unit 8	EA	1	0%	1	5.500	$ 30.72	$ 168.96	$ 5,450.00	$ 5,618.96	$ 5,618.96
733		Furnished By Panel Vendor	Free Standing NEMA Enclosure, 72x60x24, Carbon Steel – Gray, HOFFMAN, A726024ULP	EA	1	0%	1	6.500	$ 30.72	$ 199.68	$ -	$ 199.68	$ 199.68
734			68x56 Steel Back Panel, HOFFMAN, A72P60	EA	1	0%	1	1.250	$ 30.72	$ 38.40	$ -	$ 38.40	$ 38.40
735			60x14 Side Mounted Panel, Painted Steel, HOFFMAN, A72SMP14	EA	2	0%	2	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 61.44
736			3" X 5" Wire duct, Slotted, Narrow Finger, Gray & 3" Wire duct Cover, PANDUIT, F3X5LG6 / C3LG6	EA	1	0%	1	0.800	$ 30.72	$ 24.58	$ -	$ 24.58	$ 24.58
737			2" X 4" Wire duct, Slotted, Narrow Finger, Gray & 2" Wire duct Cover, PANDUIT, F2X4LG6 / C3LG6	EA	1	0%	1	0.800	$ 30.72	$ 24.58	$ -	$ 24.58	$ 24.58
738			Di Rail, 35mm X 7.5nn, Zinc/Steel, ALLEN BRADLEY, 199-DR1	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 15.36
739			Stand Off Insulator, GLASTIC, 2165-1B	EA	1	0%	1	0.400	$ 30.72	$ 12.29	$ -	$ 12.29	$ 12.29
740			LED Enclosure Light, 24VDC, 15IN, HOFFMAN, LED24V15	EA	1	0%	1	0.800	$ 30.72	$ 24.58	$ -	$ 24.58	$ 24.58
741			Mechanical Ground Lug, BURNDY, TYPE KC	EA	2	0%	2	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 30.72
742			Panel Nameplate, 1-1/2" X 4", Black Lamcoid With White Core, PANEL SHOP	EA	1	0%	1	0.350	$ 30.72	$ 10.75	$ -	$ 10.75	$ 10.75
743			Custom 125vdc Plastic Cover Guard With Standoffs, PANEL SHOP	EA	2	0%	2	0.350	$ 30.72	$ 10.75	$ -	$ 10.75	$ 21.50
744			Device Nameplate, 3/4" X 1-3/4", Black Lamcoid With White Core, PANEL SHOP	EA	51	0%	51	0.300	$ 30.72	$ 9.22	$ -	$ 9.22	$ 470.02
745			Marker Carrier - UBE/D, PHOENIX CONTACT, 800307	EA	15	0%	15	0.320	$ 30.72	$ 9.83	$ -	$ 9.83	$ 147.46
746			End Clamp E/NS 34 N, PHOENIX CONTACT, 800886	EA	34	0%	34	0.160	$ 30.72	$ 4.92	$ -	$ 4.92	$ 167.12
747			Feed-Through Terminal Block UT 10, PHOENIX CONTACT, 3044160	EA	4	0%	4	0.200	$ 30.72	$ 6.14	$ -	$ 6.14	$ 24.58
748			Feed-Through Ground Modular Terminal Block - UT 10-PE, PHOENIX CONTACT, 3044173	EA	2	0%	2	0.400	$ 30.72	$ 12.29	$ -	$ 12.29	$ 24.58
749			End Cover D-UT 2.5/10, PHOENIX CONTACT, 3047028	EA	2	0%	2	0.100	$ 30.72	$ 3.07	$ -	$ 3.07	$ 6.14
750			Surge Protection Device, PHOENIX CONTACT, 2907918	EA	2	0%	2	0.650	$ 30.72	$ 19.97	$ -	$ 19.97	$ 39.94
751			24V Power Supply, DC-DC Converter XLE 20 AMP, ALLEN BRADLEY, 1606-XLE480EP	EA	2	0%	2	1.200	$ 30.72	$ 36.86	$ -	$ 36.86	$ 73.73
752			Hydraulic-Magnetic Circuit Breaker 10 A / 120 V AC (50/60 Hz) / 50 V DC / 1 kA (SCCR), PHOENIX CONTACT, 2907196	EA	6	0%	6	0.600	$ 30.72	$ 18.43	$ -	$ 18.43	$ 110.59
753			Hydraulic-Magnetic Circuit Breaker 20 A / 120 V AC (50/60 Hz) / 50 V DC / 1 kA (SCCR), PHOENIX CONTACT, 2907199	EA	2	0%	2	0.600	$ 30.72	$ 18.43	$ -	$ 18.43	$ 36.86
754			Ground Bar, 9 Terminal Kit, SQUARE D, PK9GTA	EA	4	0%	4	0.350	$ 30.72	$ 10.75	$ -	$ 10.75	$ 43.01
755			Ground Modular Terminal Block - USLKG 6 N, PHOENIX CONTACT, 0442079	EA	9	0%	9	0.600	$ 30.72	$ 18.43	$ -	$ 18.43	$ 165.89
756			Fuse Modular Terminal Block - UT 4-L/HESILED 24 (5X20) - Two Level, PHOENIX CONTACT, 3214366	EA	64	0%	64	0.560	$ 30.72	$ 17.20	$ -	$ 17.20	$ 1,101.00
757			Terminal Block Relay, 24VDC, CLASS 1 DIV 2, 1NO-1NC Contacts, PHOENIX CONTACT, 2909524	EA	32	0%	32	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 491.52
758			Fuse Modular Terminal Block - UT 4-PE/L/HESILED 24 (5X20) Two Level, PHOENIX CONTACT, 3214321	EA	48	0%	48	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 737.28
759			Multilevel (Single Level) Feed Through Terminal Block - UT-4-L, PHOENIX CONTACT, 3214363	EA	68	0%	68	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 1,044.48
760			Hydraulic-Magnetic Circuit Breaker 5 A / 120 V AC (50/60 Hz) / 50 V DC / 1 kA (SCCR), PHOENIX CONTACT, 2907194	EA	17	0%	17	0.600	$ 30.72	$ 18.43	$ -	$ 18.43	$ 313.34
761			Fusible Disconnect, Finger Safe, Lock-On Provision, 30A, 600 VAC, 125 VDC, 225A, UL98, Single Pole, EATON, CCP2-1-30CE	EA	2	0%	2	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 61.44
762			CLASS CF FUSE, TCF, Time Delay, Dual Element, Current Limiting, Cube Fuse, 15A, Interrupting Rating 100KA / 300VDC AND 300KA/600VAC, EATON, TCF15RN	EA	4	0%	4	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 92.16
763			Flex I/O Repeater/Ethernet Adapter, ALLEN BRADLEY, 5094-AEN2TR	EA	2	0%	2	2.250	$ 30.72	$ 69.12	$ -	$ 69.12	$ 138.24
764			Flex I/O Discrete Input Module, 16 Point & Terminal Block Assembly, ALLEN BRADLEY, 5094-IB16	EA	2	0%	2	2.000	$ 30.72	$ 61.44	$ -	$ 61.44	$ 122.88
765			Flex I/O Discrete Output Module, 16 Point & Terminal Block Assembly, ALLEN BRADLEY, 5094-OB16	EA	2	0%	2	2.000	$ 30.72	$ 61.44	$ -	$ 61.44	$ 122.88
766			Flex I/O Analog Input Module, 8 Point & Terminal Block Assembly, ALLEN BRADLEY, 5094-IF8	EA	4	0%	4	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 184.32
767			Flex I/O Analog Output Module, 8 Point & Terminal Block Assembly, ALLEN BRADLEY, 5094-OF8	EA	2	0%	2	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 92.16
768			Flex I/O RTD Input Module, 8 Point & Terminal Block Assembly, ALLEN BRADLEY, 5094-IY8	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 46.08
769			Ethernet Switch, N-TRON, 708FX2-SC	EA	3	0%	3	1.350	$ 30.72	$ 41.47	$ -	$ 41.47	$ 124.42
770			Spare Fuse Container, Din Rail Mount, WEIDMULLER, 7914760001	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 15.36
771			Closet Connector Housing (CCH) Panel, SC Adapters, Duplex, 12 F, 50 MM Multimode (OM3/4), CORNING, CCH-CP12-E7	EA	2	0%	2	0.400	$ 30.72	$ 12.29	$ -	$ 12.29	$ 24.58
772			Single Panel Housing (SPH) Wall Mountable, Holds One CCH Connector Panel, Back, CORNING, SPH-01P	EA	2	0%	2	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 61.44
773			Single Panel Housing (SPH) Accessories & Components Din Rail Bracket, CORNING, SPH-DIN-KIT	EA	2	0%	2	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 61.44
774			Fuses, Ceramic, 250mA, 5 X 20MM, Fast Acting, BUSSMAN, S501-250-R	EA	1	0%	1	0.300	$ 30.72	$ 9.22	$ -	$ 9.22	$ 9.22
775			Fuses, Ceramic, 1A, 5 X 20MM, Time Delay, BUSSMAN, S505-1-R	EA	1	0%	1	0.250	$ 30.72	$ 7.68	$ -	$ 7.68	$ 7.68
776			Fuses, Ceramic, 2A, 5 X 20MM, Time Delay, BUSSMAN, S505-2-R	EA	1	0%	1	0.250	$ 30.72	$ 7.68	$ -	$ 7.68	$ 7.68
777			Fuses, Ceramic, 5A, 5 X 20MM, Time Delay, BUSSMAN, S505-5-R	EA	1	0%	1	0.250	$ 30.72	$ 7.68	$ -	$ 7.68	$ 7.68
778			Fuses, Ceramic, 10A, 5 X 20MM, Time Delay, BUSSMAN, S505-10-R	EA	1	0%	1	0.250	$ 30.72	$ 7.68	$ -	$ 7.68	$ 7.68
779			SC To Sc Duplex MM 50um Patch Cable - OM3, FIBERTRONICS, PC-DD7D3AV02M	EA	6	0%	6	0.400	$ 30.72	$ 12.29	$ -	$ 12.29	$ 73.73
780			CAT6 Ethernet Cables, Length As Required, CAT 6	EA	3	0%	3	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 92.16
781			Flex I/O Module Backplane, ALLEN BRADLEY, 5094-MB	EA	11	0%	11	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 506.88
782			Flex I/O Module Terminal Block Assembly, ALLEN BRADLEY, 5094-RTB3	EA	10	0%	10	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 460.80
783			Double-Level Feed Through Terminal Block - UTTB4, PHOENIX CONTACT, 3044814	EA	16	0%	16	0.600	$ 30.72	$ 18.43	$ -	$ 18.43	$ 294.91
784			End Cover D-UTB 2.5/4, PHOENIX CONTACT, 3047293	EA	1	0%	1	0.300	$ 30.72	$ 9.22	$ -	$ 9.22	$ 9.22
785			Spacer Plate - DP - UTTB 2.5/4, PHOENIX CONTACT, 3047303	EA	1	0%	1	0.250	$ 30.72	$ 7.68	$ -	$ 7.68	$ 7.68
786			Flex I/O Module Terminal Block Assembly, ALLEN BRADLEY, 5094-RTB3T	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
787			Ground Bar, Insulating Kit Lugs, SQUARE D, PKGTAB	EA	8	0%	8	0.400	$ 30.72	$ 12.29	$ -	$ 12.29	$ 98.30
788			Flex I/O Module Shield Bar, ALLEN BRADLEY, 5094-STB	EA	7	0%	7	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 215.04
789		KINDER MORGAN	21.0" LCD/1920X1080, Touch Screen, 17-10700T CPU, 32GB Memory, 512GB SSD, 24VDC CLASS I DIV.2, ARISTA, ARP-2221AP-J01-C01	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 46.08
790			RIO#3 - Internal Panel Layout Electrical AUX. Building (BA-8000) - Unit 8	EA	1	0%	1	5.500	$ 30.72	$ 168.96	$ 5,450.00	$ 5,618.96	$ 5,618.96
791			Free Standing NEMA Enclosure, 72X60X24, Carbon Steel - Gray, HOFFMAN, A726024ULPG	EA	1	0%	1	6.500	$ 30.72	$ 199.68	$ -	$ 199.68	$ 199.68
792			68X56 Steel Back Panel, HOFFMAN, A72P60	EA	1	0%	1	1.250	$ 30.72	$ 38.40	$ -	$ 38.40	$ 38.40
793			60X14 Side Mounted Panel, Painted Steel, HOFFMAN, A72SMP14	EA	2	0%	2	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 61.44
794			3" X 5" Wire duct, Slotted, Narrow Finger, Gray & 3" Wire duct Cover, PANDUIT, F3X5LG6 / C3LG6	EA	1	0%	1	0.800	$ 30.72	$ 24.58	$ -	$ 24.58	$ 24.58
795			2" X 4" Wire duct, Slotted, Narrow Finger, Gray & 2" Wire duct Cover, PANDUIT, F2X4LG6 / C3LG6	EA	1	0%	1	0.800	$ 30.72	$ 24.58	$ -	$ 24.58	$ 24.58
796			DI RAIL, 35MM X 7.5NN, ZINC/STEEL, ALLEN BRADLEY, 199-DR1	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 15.36

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Project ID: 14052026
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Date: 09/28/26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
797			Stand Off Insulator, GLASTIC, 2165-1B	EA	1	0%	1	0.400	$ 30.72	$ 12.29	$ -	$ 12.29	$ 12.29
798			LED Enclosure Light, 24VDC, 15IN, HOFFMAN, LED24V15	EA	1	0%	1	0.800	$ 30.72	$ 24.58	$ -	$ 24.58	$ 24.58
799			Mechanical Ground Lug, BURNDY, TYPE KC	EA	2	0%	2	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 30.72
800			Panel Nameplate, 1-1/2" X 4", Black Lamcoid With White Core, PANEL SHOP	EA	1	0%	1	0.350	$ 30.72	$ 10.75	$ -	$ 10.75	$ 10.75
801			Custom 125VDC Plastic Cover Guard With Standoffs, PANEL SHOP	EA	2	0%	2	0.350	$ 30.72	$ 10.75	$ -	$ 10.75	$ 21.50
802			Device Nameplate, 3/4" X 1-3/4", Black Lamcoid With White Core, PANEL SHOP	EA	34	0%	34	0.300	$ 30.72	$ 9.22	$ -	$ 9.22	$ 313.34
803			Marker Carrier - UBE/D, PHOENIX CONTACT, 800307	EA	20	0%	20	0.320	$ 30.72	$ 9.83	$ -	$ 9.83	$ 196.61
804			End Clamp E/NS 34 N, PHOENIX CONTACT, 800886	EA	42	0%	42	0.160	$ 30.72	$ 4.92	$ -	$ 4.92	$ 206.44
805			Feed-Through Terminal Block UT 10, PHOENIX CONTACT, 3044160	EA	4	0%	4	0.200	$ 30.72	$ 6.14	$ -	$ 6.14	$ 24.58
806			Feed-Through Ground Modular Terminal Block - UT 10-PE, PHOENIX CONTACT, 3044173	EA	2	0%	2	0.400	$ 30.72	$ 12.29	$ -	$ 12.29	$ 24.58
807			End Cover D-UT 2.5/10, PHOENIX CONTACT, 3047028	EA	2	0%	2	0.100	$ 30.72	$ 3.07	$ -	$ 3.07	$ 6.14
808			Surge Protection Device, PHOENIX CONTACT, 2907918	EA	2	0%	2	0.650	$ 30.72	$ 19.97	$ -	$ 19.97	$ 39.94
809			24V Power Supply, AC/DC Converter, XL2 250 SERIES, ALLEN BRADLEY, 1606-XLE480E	EA	2	0%	2	1.200	$ 30.72	$ 36.86	$ -	$ 36.86	$ 73.73
810			FAZ-NA Circuit Breaker, 1-Pole, 15 AMP, 125 VDC, EATON, FAZ-C15/1-DC	EA	2	0%	2	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 30.72
811			FAZ-NA Circuit Breaker, 1-Pole, 20 AMP, 125 VDC, EATON, FAZ-C20/1-DC	EA	2	0%	2	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 30.72
812			Ground Bar, 9 Terminal Kit, SQUARE D, PK9GTA	EA	4	0%	4	0.350	$ 30.72	$ 10.75	$ -	$ 10.75	$ 43.01
813			Ground Modular Terminal Block - USLKG 6 N, PHOENIX CONTACT, 442079	EA	9	0%	9	0.350	$ 30.72	$ 10.75	$ -	$ 10.75	$ 96.77
814			Fuse Modular Terminal Block - UT 4-L/HESILED 24 (5X20) - Two Level, PHOENIX CONTACT, 3214366	EA	129	0%	129	0.560	$ 30.72	$ 17.20	$ -	$ 17.20	$ 2,219.21
815			Ethernet Switch 16 Port, NTRON, NT-5016-000-0000	EA	1	0%	1	1.850	$ 30.72	$ 56.83	$ -	$ 56.83	$ 56.83
816			Fuse Modular Terminal Block - UT 4-PE/L/HESILED 24 (5X20) Two Level, PHOENIX CONTACT, 3214321	EA	48	0%	48	0.560	$ 30.72	$ 17.20	$ -	$ 17.20	$ 825.75
817			Multilevel (Single Level) Feed Through Terminal Block - UT-4-L, PHOENIX CONTACT, 3214363	EA	32	0%	32	0.350	$ 30.72	$ 10.75	$ -	$ 10.75	$ 344.06
818		**Furnished By Panel Vendor**	Terminal Block Relay, 24VDC, CLASS I DIV 2, 1NO-1NC Contacts, PHOENIX CONTACT, 2909524	EA	64	0%	64	0.300	$ 30.72	$ 9.22	$ -	$ 9.22	$ 589.82
819			Flex I/O Repeater/Ethernet Adapter, ALLEN BRADLEY, 5094-AEN2TR	EA	2	0%	2	2.250	$ 30.72	$ 69.12	$ -	$ 69.12	$ 138.24
820			Flex I/O Discrete Input Module, 16 Point & Terminal Block Assembly, ALLEN BRADLEY, 5094-IB16	EA	4	0%	4	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 184.32
821			Flex I/O Discrete Output Module, 16 Point & Terminal Block Assembly, ALLEN BRADLEY, 5094-OB16	EA	4	0%	4	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 184.32
822			Flex I/O Analog Input Module, 8 Point & Terminal Block Assembly, ALLEN BRADLEY, 5094-IF8	EA	4	0%	4	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 184.32
823			Flex I/O Analog Output Module, 8 Point & Terminal Block Assembly, ALLEN BRADLEY, 5094-OF8	EA	2	0%	2	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 92.16
824			Ethernet Switch, N-TRON, 708FX2-SC	EA	3	0%	3	1.350	$ 30.72	$ 41.47	$ -	$ 41.47	$ 124.42
825			Ethernet Switch, N-TRON, 710FX2-SC	EA	1	0%	1	1.350	$ 30.72	$ 41.47	$ -	$ 41.47	$ 41.47
826			Spare Fuse Container, Din Rail Mount, WEIDMULLER, 7914760001	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 15.36
827			Closet Connector Housing (CCH) Panel, SC Adapters, Duplex, 12 F, 50 MM Multimode (OM3/4), CORNING, CCH-CP12-E7	EA	3	0%	3	0.400	$ 30.72	$ 12.29	$ -	$ 12.29	$ 36.86
828			Single Panel Housing (SPH) Wall Mountable, Holds One CCH Connector Panel, Back, CORNING, SPH-01P	EA	3	0%	3	0.450	$ 30.72	$ 13.82	$ -	$ 13.82	$ 41.47
829			Single Panel Housing (SPH) Accessories & Components Din Rail Bracket, CORNING, SPH-DIN-KIT	EA	3	0%	3	0.450	$ 30.72	$ 13.82	$ -	$ 13.82	$ 41.47
830			Fuses, Ceramic, 250mA, 5 X 20MM, Fast Acting, BUSSMAN, S501-250-R	EA	1	0%	1	0.250	$ 30.72	$ 7.68	$ -	$ 7.68	$ 7.68
831			Fuses, Ceramic, 1A, 5 X 20MM, Time Delay, BUSSMAN, S505-1-R	EA	1	0%	1	0.250	$ 30.72	$ 7.68	$ -	$ 7.68	$ 7.68
832			Fuses, Ceramic, 2A, 5 X 20MM, Time Delay, BUSSMAN, S505-2-R	EA	1	0%	1	0.250	$ 30.72	$ 7.68	$ -	$ 7.68	$ 7.68
833			Fuses, Ceramic, 5A, 5 X 20MM, Time Delay, BUSSMAN, S505-5-R	EA	1	0%	1	0.250	$ 30.72	$ 7.68	$ -	$ 7.68	$ 7.68
834			Fuses, Ceramic, 10A, 5 X 20MM, Time Delay, BUSSMAN, S505-10-R	EA	1	0%	1	0.250	$ 30.72	$ 7.68	$ -	$ 7.68	$ 7.68
835			SC TO SC Duplex MM 50um Patch Cable - OM3, FIBERTRONICS, PC-DD7D3AV02M	EA	8	0%	8	0.300	$ 30.72	$ 9.22	$ -	$ 9.22	$ 73.73
836			Cat6 Ethernet Cables, Length As Required, CAT 6	EA	6	0%	6	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 184.32
837			Flex I/O Module Backplane, ALLEN BRADLEY, 5094-MB	EA	15	0%	15	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 460.80
838			Flex I/O Module Terminal Block Assembly, ALLEN BRADLEY, 5094-RTB3	EA	14	0%	14	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 430.08
839			Flex I/O Module Terminal Block Assembly, ALLEN BRADLEY, 5094-RTB3T	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
840			Fuse Modular Terminal Block - UT 4-L/HESILA 250 (5X20), PHOENIX CONTACT, 3214368	EA	35	0%	35	0.560	$ 30.72	$ 17.20	$ -	$ 17.20	$ 602.11
841			Ground Bar, Insulating Kit Lugs, SQUARE D, PKGTAB	EA	8	0%	8	0.350	$ 30.72	$ 10.75	$ -	$ 10.75	$ 86.02
842			Flex I/O Module Shield Bar, ALLEN BRADLEY, 5094-STB	EA	7	0%	7	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 215.04
843			DA10D Protocol Conversion And Data Acquisition, RED LION, DA10D	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 23.04
844			Flex I/O Rtd Input Module, 8 Point & Terminal Block Assembly, ALLEN BRADLEY, 5094-IY8	EA	1	0%	1	0.820	$ 30.72	$ 25.19	$ -	$ 25.19	$ 25.19
845			Double-Level Feed Through Terminal Block - UTTB4, PHOENIX CONTACT, 3044814	EA	16	0%	16	0.350	$ 30.72	$ 10.75	$ -	$ 10.75	$ 172.03
846			End Cover - D-UTB 2.5/4, PHOENIX CONTACT, 3047293	EA	1	0%	1	0.250	$ 30.72	$ 7.68	$ -	$ 7.68	$ 7.68
847			Spacer Plate - DP - UTTB 2.5/4, PHOENIX CONTACT, 3047303	EA	1	0%	1	0.200	$ 30.72	$ 6.14	$ -	$ 6.14	$ 6.14
848		**KINDER MORGAN**	21.0" LCD 1920X1080, Touch Screen, 17-10700T CPU, 32GB MEMORY, 512GB SSD, 24VDC, CLASS1 DIV2, ARISTA, ARP-2221AP-JO1-C01	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 46.08
849			1/2" OD x 0.049" Wall, 316SS Seamless Tubing, SWAGELOK, SS-T8-S-049	EA	15	0%	15	1.000	$ 30.72	$ 30.72	$ 74.50	$ 105.22	$ 1,578.30
850			1/2" OD x 1/2" MNPT Tube Connector, 316SS, SWAGELOK, SS - 810 - 1 - 8	EA	15	0%	15	1.000	$ 30.72	$ 30.72	$ 74.50	$ 105.22	$ 1,578.30
851		**(IDD 01-06)**	1/2" OD x 3/4" MNPT Tube Connector, 316SS, SWAGELOK, SS - 810 - 1 - 12	EA	15	0%	15	1.000	$ 30.72	$ 30.72	$ 74.50	$ 105.22	$ 1,578.30
852			In-Line Pressure Transmitter, ROSEMOUNT, 3051S	EA	15	0%	15	2.250	$ 30.72	$ 69.12	$ -	$ 69.12	$ 1,036.80
853			1/2" Union Tee, Tube OD, 316SS, SWAGELOK, SS - 810 - 3	EA	330	0%	330	0.200	$ 30.72	$ 6.14	$ 30.50	$ 36.64	$ 12,092.52
854			1/2" Tube Blowdown Needle Valve, 316SS, SWAGELOK, SS-6DBS8	EA	15	0%	15	0.650	$ 30.72	$ 19.97	$ 363.50	$ 383.47	$ 5,752.02
855			1/2" Plug Tube, 316SS, SWAGELOK, SS-810-P	EA	15	0%	15	0.320	$ 30.72	$ 9.83	$ 34.50	$ 44.33	$ 664.96
856			1/2" OD x 3/4" MNPT Tube Connector, 316SS, SWAGELOK, SS-810-1-12	EA	6	0%	6	0.300	$ 30.72	$ 9.22	$ 24.50	$ 33.72	$ 202.30
857			1/2" OD x 1/2" MNPT Tube Connector, 316SS, SWAGELOK, SS-810-1-8	EA	6	0%	6	0.300	$ 30.72	$ 9.22	$ 38.55	$ 47.77	$ 286.60
858			1/2" OD x 0.049" Wall, 316SS Seamless Tubing, SWAGELOK, SS-T8-S-049	EA	3	0%	3	1.000	$ 30.72	$ 30.72	$ 74.50	$ 105.22	$ 315.66
859			Coplanar Pressure Transmitter, ROSEMOUNT, 3051S	EA	3	0%	3	2.250	$ 30.72	$ 69.12	$ -	$ 69.12	$ 207.36
860			1/2" Union Tee, Tube OD, 316SS, SWAGELOK, SS-810-3	EA	6	0%	6	0.560	$ 30.72	$ 17.20	$ 138.50	$ 155.70	$ 934.22
861			1/2" Tube Blowdown Needle Valve, 316SS, SWAGELOK, SS-6DBS8	EA	6	0%	6	0.650	$ 30.72	$ 19.97	$ 363.50	$ 383.47	$ 2,300.81
862			1/2" Plug Tube, 316SS, SWAGELOK, SS-810-P	EA	6	0%	6	0.320	$ 30.72	$ 9.83	$ 34.50	$ 44.33	$ 265.98
863		**(IDD 01-04)**	1/2" Single Tube trace Bundle W/ BSX 5-2-OJ, THERMON, SE4F1-43-7-ATP-049	EA	3	0%	3	0.500	$ 30.72	$ 15.36	$ 60.50	$ 75.86	$ 227.58
864			Thermon Power Kit, THERMON, DP/FAK-4	EA	3	0%	3	1.000	$ 30.72	$ 30.72	$ 125.50	$ 156.22	$ 468.66
865			Power Terminator Kit, THERMON, PETK-1D	EA	6	0%	6	1.000	$ 30.72	$ 30.72	$ 85.50	$ 116.22	$ 697.32
866			Thermon End Kit, THERMON, ET-6C/FAK-10B	EA	6	0%	6	1.000	$ 30.72	$ 30.72	$ 60.50	$ 91.22	$ 547.32
867			2 Leg Heat Shrink Seal, THERMON, FAK-10B	EA	6	0%	6	0.380	$ 30.72	$ 11.67	$ 10.50	$ 22.17	$ 133.04
868			Reducing Bushing, 3/4"MNPT x 1/2"FNPT, 316 SS, SWAGELOK, SS-12-RB-8	EA	6	0%	6	0.250	$ 30.72	$ 7.68	$ 1.85	$ 9.53	$ 57.18
869			3-Valve Manifold Removable Thermal Insulation Jacket	EA	3	0%	3	2.500	$ 30.72	$ 76.80	$ 200.00	$ 276.80	$ 830.40
870			Pressure Transmitter	EA	1	0%	1	2.250	$ 30.72	$ 69.12	$ -	$ 69.12	$ 69.12
871			3/4" MNPT x 1/2"MNPT HEX Reducing Nipple (Short Nipple), SWAGELOK, SS-12-HRN-8	EA	1	0%	1	0.400	$ 30.72	$ 12.29	$ 45.50	$ 57.79	$ 57.79
872			Pressure Transmitter, ROSEMOUNT, 3051S	EA	1	0%	1	2.250	$ 30.72	$ 69.12	$ -	$ 69.12	$ 69.12
873			2 Valve In-Line Manifold, EMERSON, 0306 RT 22 BA11	EA	1	0%	1	1.800	$ 30.72	$ 55.30	$ 480.50	$ 535.80	$ 535.80
874			Plug 1/2", CROUSE-HINDS OR SIMILAR, PLG15	EA	1	0%	1	0.300	$ 30.72	$ 9.22	$ 14.50	$ 23.72	$ 23.72
875			Pressure Gauge, 1/2" MNPT Process Connection, ASHCROFT, 4512	EA	5	0%	5	1.200	$ 30.72	$ 36.86	$ 225.50	$ 262.36	$ 1,311.82
876		**IDD 01-08**	Block And Bleed Manifold, ASHCROFT, 50V022VASS50	EA	5	0%	5	1.560	$ 30.72	$ 47.92	$ 285.50	$ 333.42	$ 1,667.12
877			3/4"MNPT x 1/2"MNPT HEX Reducing Nipple (Short Nipple), SWAGELOK, SS-12-HRN-8	EA	5	0%	5	0.400	$ 30.72	$ 12.29	$ 45.50	$ 57.79	$ 288.94
878			Street Elbow, 1/2"FNPT x 1/2"MNPT, SWAGELOK, SS-8-SE	EA	5	0%	5	0.450	$ 30.72	$ 13.82	$ 62.50	$ 76.32	$ 381.62
879			Temperature Transmitter Remote Mounted	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ -	$ 30.72	$ 30.72
880			Temperature Transmitter, ROSEMOUNT, 3144P	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 46.08
881			Temperature Sensor Element RTD+Connection Head, ROSEMOUNT, 214C	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ 320.50	$ 351.22	$ 351.22
882			Thermowell, ROSEMOUNT, 114C	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ 220.50	$ 243.54	$ 243.54
883			Temperature Transmitter In-Line Direct Mounted (NPT Threaded)	EA	1	0%	1	0.400	$ 30.72	$ 12.29	$ -	$ 12.29	$ 12.29
884			Temperature Transmitter, ROSEMOUNT, 3144P	EA	1	0%	1	1.850	$ 30.72	$ 56.83	$ -	$ 56.83	$ 56.83
885			Temperature Sensor Element RTD, ROSEMOUNT, 214C	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ 250.50	$ 281.22	$ 281.22
886			Thermowell, ROSEMOUNT, 114C	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ 220.50	$ 243.54	$ 243.54
887			Temperature Element Tank Or Vessel Direct Mounted (Flanged)	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ 452.50	$ 498.58	$ 498.58
888			Temperature Sensor RTD + Connection Head, ROSEMOUNT, 214CRW	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ 552.50	$ 598.58	$ 598.58
889			Thermowell, ROSEMOUNT, 114C	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ 220.50	$ 243.54	$ 243.54
890		**(IDD 02-04)**	Temperature Sensor RTD + Connection Head, ROSEMOUNT, 214CRW	EA	8	0%	8	1.500	$ 30.72	$ 46.08	$ 552.50	$ 598.58	$ 4,788.64
891			Thermowell, ROSEMOUNT, 114C	EA	8	0%	8	0.750	$ 30.72	$ 23.04	$ 220.50	$ 243.54	$ 1,948.32
892			Temperature Element Direct Mounted (Flanged) - Thermosensor	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ 35.50	$ 50.86	$ 50.86
893			Type K Thermocouple Thermowell Assembly, THERMOSENSOR, 0883-C114C-1ET2G-8-2-5X200HBE-E8M	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ 35.50	$ 58.54	$ 58.54
894			Guided Wave Rader Level Transmitter With Magnetic Level Gauge	EA	1	0%	1	1.320	$ 30.72	$ 40.55	$ -	$ 40.55	$ 40.55
895			Guided Wave Rader Level Transmitter, ROSEMOUNT, 5300	EA	1	0%	1	1.650	$ 30.72	$ 50.69	$ -	$ 50.69	$ 50.69
896			Level Gauge, MAGTECH, "L" SERIES	EA	1	0%	1	1.320	$ 30.72	$ 40.55	$ 1,050.00	$ 1,090.55	$ 1,090.55
897			Control Ball Valve	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ 1,850.00	$ 1,896.08	$ 1,896.08
898			Control Ball Valve, FISHER	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ 1,850.00	$ 1,896.08	$ 1,896.08
899			Digital Valve Controller, FISHER, DVC6200	EA	1	0%	1	2.500	$ 30.72	$ 76.80	$ 2,358.50	$ 2,435.30	$ 2,435.30
900			Instrument Supply Regulator, FISHER, 67CFR	EA	1	0%	1	1.850	$ 30.72	$ 56.83	$ 452.50	$ 509.33	$ 509.33
901			Diaphragm Rotatory Actuator, FISHER, 2052	EA	1	0%	1	2.650	$ 30.72	$ 81.41	$ 3,250.00	$ 3,331.41	$ 3,331.41
902			Sliding-Stem Control Valve, FISHER, ES/ET/EWT/HPT	EA	2	0%	2	3.000	$ 30.72	$ 92.16	$ 7,850.00	$ 7,942.16	$ 15,884.32
903		**(IDD 05-03)**	Digital Valve Controller, FISHER, DVC6200	EA	2	0%	2	2.500	$ 30.72	$ 76.80	$ 2,358.50	$ 2,435.30	$ 4,870.60
904			Instrument Supply Regulator, FISHER, 67CFR	EA	2	0%	2	1.850	$ 30.72	$ 56.83	$ 452.50	$ 509.33	$ 1,018.66
905			Diaphragm Actuator, FISHER, 657 667	EA	2	0%	2	1.500	$ 30.72	$ 46.08	$ 256.50	$ 302.58	$ 605.16
906			Ball Valve	EA	7	0%	7	1.000	$ 30.72	$ 30.72	$ 1,011.41	$ 1,042.13	$ 7,294.91
907		**(IDD 05-04)**	Pneumatic Actuator, Spring Return/Pneumatic Actuator, Double Acting	EA	7	0%	7	1.250	$ 30.72	$ 38.40	$ 346.50	$ 384.90	$ 2,694.30
908			Position Switch, Go Proximity Switches, TOPWORX, DXP	EA	7	0%	7	2.000	$ 30.72	$ 61.44	$ 3,150.00	$ 3,211.44	$ 22,480.08
909			Solenoid Valve, ASCO, 8362A, 8562A	EA	7	0%	7	1.450	$ 30.72	$ 44.54	$ 950.50	$ 995.04	$ 6,965.31
910			3/8" Seamless 317L SS Tubing	LF	7	0%	7	0.100	$ 30.72	$ 3.07	$ 16.50	$ 19.57	$ 137.00
911			1/4" x 3/8" MNPT Tubing Connector, 316 SS	EA	7	0%	7	0.320	$ 30.72	$ 9.83	$ 16.50	$ 26.33	$ 184.31
912			3/8" x 1/2" MNPT Tubing Connector, 316 SS	EA	7	0%	7	0.350	$ 30.72	$ 10.75	$ 20.50	$ 31.25	$ 218.76
913		**(IDD 05-07)**	3/8" x 3/8" Tubing Union, 316 SS	EA	7	0%	7	0.300	$ 30.72	$ 9.22	$ 5.85	$ 15.07	$ 105.46
914			3/8" Ball Valve, FNPT 316 SS Swagelok	EA	7	0%	7	0.500	$ 30.72	$ 15.36	$ 110.50	$ 125.86	$ 881.02
915			1/4" x 3/8" MNPT Tubing Adapter, 316 SS Swagelok	EA	7	0%	7	0.320	$ 30.72	$ 9.83	$ 28.50	$ 38.33	$ 268.31
916			1/4" MNPT x 3/8" Male Tube Adapter, 316 SS Swagelok	EA	7	0%	7	0.320	$ 30.72	$ 9.83	$ 14.50	$ 24.33	$ 170.31
917			Pressure Control Valve - 67 CFR Regulator	EA	1	0%	1	2.850	$ 30.72	$ 87.55	$ 156.50	$ 244.05	$ 244.05
918			Pressure Regulator, FISHER, 67CFR-(1/4)-(00-125)	EA	1	0%	1	1.440	$ 30.72	$ 44.24	$ 356.50	$ 400.74	$ 400.74
919			1/2" OD x 1/4" MNPT Tube Connector, 316SS, SWAGELOK, SS-810-1-4	EA	2	0%	2	1.000	$ 30.72	$ 30.72	$ 32.50	$ 63.22	$ 126.44
920			1/2" OD x 0.049" Wall, 316SS Seamless Tubing, SWAGELOK, SS-T8-S-049	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ 32.50	$ 63.22	$ 63.22
921			1/2" OD x 3/4" MNPT Tube Connector, 316SS, SWAGELOK, SS-810-1-12	EA	1	0%	1	0.300	$ 30.72	$ 9.22	$ 24.50	$ 33.72	$ 33.72
922			1/2" OD x 3/8" OD Tube Adapter, 316SS, SWAGELOK, SS-810-R-6	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ 12.95	$ 28.31	$ 28.31
923			60 Series Ball Valve 1/2" OD, SWAGELOK, SS-63TS8	EA	1	0%	1	2.250	$ 30.72	$ 69.12	$ 1,450.00	$ 1,519.12	$ 1,519.12

DETAILED BREAKDOWN OF ITEMS

Prepared for: Kinder Morgan NGPL-Compressor Station 388 HP Addition afe-238039
Project ID: 14052026
Scope: Electrical & Instruments

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 09/28/26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
924			Ultraviolet Flame Detector	EA	1	0%	1	1.560	$ 30.72	$ 47.92	$ -	$ 47.92	$ 47.92
925			Dynamic Self Check Ultraviolet Flame Detector, HONEYWELL, C7061A102/U	EA	1	0%	1	1.600	$ 30.72	$ 49.15	$ -	$ 49.15	$ 49.15
926			Pipe Reducer	EA	1	0%	1	0.350	$ 30.72	$ 10.75	$ 18.50	$ 29.25	$ 29.25
927			Multispectrum IR Flame Detector	EA	1	0%	1	2.500	$ 30.72	$ 76.80	$ -	$ 76.80	$ 76.80
928			Multispectrum IR Flame Detector, 24VDC/4-20mA, DET-TRONICS, X3301	EA	1	0%	1	2.500	$ 30.72	$ 76.80	$ -	$ 76.80	$ 76.80
929		(IDD 06-07)	Infrared Hydrocarbon Gas Detector, DET-TRONICS, PIRECL	EA	2	0%	2	3.000	$ 30.72	$ 92.16	$ -	$ 92.16	$ 184.32
930			Flexvu Universal Display, DET-TRONICS, UD10	EA	2	0%	2	1.560	$ 30.72	$ 47.92	$ 1,918.50	$ 1,966.42	$ 3,932.85
931		(IDD 06-08)	Det-Tronics Pirecl And UD10 Display	EA	1	0%	1	1.560	$ 30.72	$ 47.92	$ 2,453.55	$ 2,501.47	$ 2,501.47
932			Flexvu Universal Display, DET-TRONICS, UD105A5N25T2	EA	1	0%	1	1.560	$ 30.72	$ 47.92	$ 2,242.50	$ 2,290.42	$ 2,290.42
933			Infrared Hydrocarbon Gas Detector, DET-TRONICS, PIRECLA1D3T1	EA	1	0%	1	3.000	$ 30.72	$ 92.16	$ -	$ 92.16	$ 92.16
934			Channel, C6 x 8.2	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ 80.50	$ 95.86	$ 95.86
935			Unistrut, 1 5/8", UNISTRUT, P1000	EA	1	0%	1	0.650	$ 30.72	$ 19.97	$ 53.50	$ 73.47	$ 73.47
936			Instrument Support Panel	EA	1	0%	1	0.350	$ 30.72	$ 10.75	$ 155.50	$ 166.25	$ 166.25
937			UL Approved For Class 1 DIV 2, 3/4" Flex Metallic Conduit, CROUSE-HINDS OR SIMILAR	EA	1	0%	1	0.400	$ 30.72	$ 12.29	$ 62.23	$ 74.52	$ 74.52
938			Liquid Tight Straight Fittings, Class 1 DIV 2, With Ground Lug 3/4", CROUSE-HINDS OR SIMILAR, LTB75GC	EA	4	0%	4	0.380	$ 30.72	$ 11.67	$ 55.47	$ 67.14	$ 268.57
939			Union Conduit 3/4" NPT, CROUSE-HINDS OR SIMILAR, UNY205	EA	1	0%	1	0.750	$ 30.72	$ 23.04	$ 108.72	$ 131.76	$ 131.76
940			Union Conduit, 90°, 3/4" NPT, CROUSE-HINDS OR SIMILAR, UNL205	EA	2	0%	2	0.750	$ 30.72	$ 23.04	$ 108.72	$ 131.76	$ 263.52
941			3/4" RGS Conduit	LF	1	0%	1	0.053	$ 30.72	$ 1.62	$ 3.84	$ 5.46	$ 5.46
942			Conduit Fitting, Type "T" W/Gasket & Cover, 3/4", CROUSE-HINDS OR SIMILAR, T29	EA	1	0%	1	0.400	$ 30.72	$ 12.29	$ 52.52	$ 64.81	$ 64.81
943			Conduit Drain, 3/4", CROUSE-HINDS OR SIMILAR, CD2	EA	1	0%	1	0.400	$ 30.72	$ 12.29	$ 48.06	$ 60.35	$ 60.35
944			3/4" Conduit Plug	EA	1	0%	1	0.300	$ 30.72	$ 9.22	$ 4.50	$ 13.72	$ 13.72
945		(IDD 07-03)	Conduit Nipple, 3/4" NPT, CROUSE-HINDS OR SIMILAR	EA	45	0%	45	0.350	$ 30.72	$ 10.75	$ 24.50	$ 35.25	$ 1,586.34
946			Union Conduit 3/4" NPT, CROUSE-HINDS OR SIMILAR, UNY205	EA	45	0%	45	0.750	$ 30.72	$ 23.04	$ 108.72	$ 131.76	$ 5,929.20
947			Seal Conduit 3/4" FNPT, CROUSE-HINDS OR SIMILAR, EYSX21	EA	45	0%	45	0.480	$ 30.72	$ 14.75	$ 68.50	$ 83.25	$ 3,746.05
948			Liquid Tight Straight Fittings, Class 1 DIV 2, With Ground Lug 3/4", CROUSE-HINDS OR SIMILAR, LTB75GC	EA	90	0%	90	0.300	$ 30.72	$ 9.22	$ 30.50	$ 39.72	$ 3,574.44
949			UL Approved For Class 1 DIV 2, 3/4" Flex Metallic Conduit, CROUSE-HINDS OR SIMILAR	EA	45	0%	45	0.380	$ 30.72	$ 11.67	$ 35.02	$ 46.69	$ 2,101.21
950			Conduit Fitting, Type "LB" W/Gasket & Cover, 3/4", CROUSE-HINDS OR SIMILAR, LB29	EA	45	0%	45	0.400	$ 30.72	$ 12.29	$ 52.52	$ 64.81	$ 2,916.36
951			Conduit Fitting, Type "T" W/Gasket & Cover, 3/4", CROUSE-HINDS OR SIMILAR, T29	EA	45	0%	45	0.400	$ 30.72	$ 12.29	$ 52.52	$ 64.81	$ 2,916.36
952			Conduit Drain, 3/4", CROUSE-HINDS OR SIMILAR, CD2	EA	45	0%	45	0.400	$ 30.72	$ 12.29	$ 48.06	$ 60.35	$ 2,715.66
953			Selector Switch (JOA) Field Mounted	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ 1,092.50	$ 1,138.58	$ 1,138.58
954			JOG Off Automatic Control Station, CROUSE-HINDS, EDS21274-S635	EA	1	0%	1	1.850	$ 30.72	$ 56.83	$ 1,150.00	$ 1,206.83	$ 1,206.83
955			Slotted Galvanized Strut, 1 5/8", UNISTRUT, P1000SL	EA	1	0%	1	0.560	$ 30.72	$ 17.20	$ 38.50	$ 55.70	$ 55.70
956			1/4" SS Spring Nut, UNISTRUT, P1006U1420-SS	EA	1	0%	1	0.450	$ 30.72	$ 13.82	$ 40.14	$ 53.96	$ 53.96
957			1/4" x 1 1/2" LNG. SS Bolt W/ 1/4" SS Lock Washer	EA	1	0%	1	0.120	$ 30.72	$ 3.69	$ 0.50	$ 4.19	$ 4.19
958			Conduit Nipple, 3/4" x Close	EA	1	0%	1	0.320	$ 30.72	$ 9.83	$ 4.50	$ 14.33	$ 14.33
959			Conduit "LB" Fitting, Form 8, W/Cover & Gasket, 3/4"	EA	1	0%	1	0.200	$ 30.72	$ 6.14	$ 8.50	$ 14.64	$ 14.64
960			Conduit, Rigid Steel, HDG, 3/4"	EA	1	0%	1	0.300	$ 30.72	$ 9.22	$ 28.50	$ 37.72	$ 37.72
961			Conduit Coupling, 3/4"	EA	1	0%	1	0.320	$ 30.72	$ 9.83	$ 10.50	$ 20.33	$ 20.33
962			Conduit Chase Nipple, 3/4"	EA	1	0%	1	0.250	$ 30.72	$ 7.68	$ 3.85	$ 11.53	$ 11.53
963			Nameplate, 3/8" Black Lettering 1"H x 4"L	EA	1	0%	1	0.320	$ 30.72	$ 9.83	$ 40.50	$ 50.33	$ 50.33
964			Instrument Air Supply	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ 356.50	$ 387.22	$ 387.22
965			1/4" OD x 1/2" MNPT Tube Connector, 316SS, SWAGELOK, SS-400-1-8	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ 48.50	$ 63.86	$ 63.86
966			1/4" OD x .049" Wall, 316SS Seamless Tubing, SWAGELOK, SS-T4-S-049	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ 74.50	$ 89.86	$ 89.86
967			Gas Detector Beam Mounting Plate	EA	1	0%	1	0.560	$ 30.72	$ 17.20	$ -	$ 17.20	$ 17.20
968			Point Infrared Eclipse Gas Detector, DET-Tronics (By Vendor)	EA	1	0%	1	2.800	$ 30.72	$ 86.02	$ -	$ 86.02	$ 86.02
969			1/4" OD x 0.035" Wall Tubing, 317L SS, Seamless, Fully Annealed, Astm A269 317L SS	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ 74.50	$ 89.86	$ 89.86
970			1/4" Tubing Union To Be Added	EA	1	0%	1	0.350	$ 30.72	$ 10.75	$ 20.50	$ 31.25	$ 31.25
971			1/4" Bug Screen Swagelok	EA	1	0%	1	0.350	$ 30.72	$ 10.75	$ 32.50	$ 43.25	$ 43.25
972			1/4" Male x 1/4" Tube Elbow Swagelok	EA	1	0%	1	0.320	$ 30.72	$ 9.83	$ 50.59	$ 60.42	$ 60.42
973			1/4" FNPT 3-Way Selector Swagelok SS-43XF4 W/Two Panel Mounting Nuts	EA	1	0%	1	0.850	$ 30.72	$ 26.11	$ 148.56	$ 174.67	$ 174.67
974			1/4" Male x 1/4" Female Pipe Elbow Swagelok	EA	1	0%	1	0.350	$ 30.72	$ 10.75	$ 30.50	$ 41.25	$ 41.25
975			3" x 3" Nameplate (Black With White Letters)	EA	1	0%	1	0.280	$ 30.72	$ 8.60	$ 10.50	$ 19.10	$ 19.10
976			2 1/4" x 3" Long SS Bolts And 2-Set Of 1/4" SS Nuts, Flat Washer And Lock Washers	EA	1	0%	1	0.300	$ 30.72	$ 9.22	$ 4.50	$ 13.72	$ 13.72
977			6mm Steel Mounting Plate	EA	1	0%	1	0.240	$ 30.72	$ 7.37	$ 18.50	$ 25.87	$ 25.87
978			Strobe Details (Triple) Rack Mounted (Roof)	EA	1	0%	1	0.300	$ 30.72	$ 9.22	$ 40.50	$ 49.72	$ 49.72
979			Flashing LED Hazardous Location Warning Light, RED, 191XL-120_240R, FEDERAL SIGNAL	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ 1,250.00	$ 1,280.72	$ 1,280.72
980			Flashing LED Hazardous Location Warning Light, Blue, 191XL-120_240B, FEDERAL SIGNAL	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ 1,250.00	$ 1,280.72	$ 1,280.72
981			Flashing LED Hazardous Location Warning Light, Amber, 191XL-120_240A, FEDERAL SIGNAL	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ 1,250.00	$ 1,280.72	$ 1,280.72
982			1" Form 7 Condulet Fitting , T37, CROUSE-HINDS	EA	4	0%	4	1.000	$ 30.72	$ 30.72	$ 56.61	$ 87.33	$ 349.32
983			1" Recessed Conduit Plug, PLG3, CROUSE-HINDS	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ 20.50	$ 51.22	$ 51.22
984			1" x 3/4" Reducer, RE32-SA, CROUSE-HINDS	EA	3	0%	3	0.500	$ 30.72	$ 15.36	$ 18.50	$ 33.86	$ 101.58
985			3/4" RGS Conduit	LF	1	0%	1	0.053	$ 30.72	$ 1.62	$ 3.84	$ 5.46	$ 5.46
986			1" RGS Conduit	LF	1	0%	1	0.060	$ 30.72	$ 1.83	$ 6.25	$ 8.08	$ 8.08
987			U-Bolt 1-1/2"	EA	2	0%	2	0.350	$ 30.72	$ 10.75	$ 18.50	$ 29.25	$ 58.50
988			Beam Mount Bracket, TECHLINE	EA	1	0%	1	0.300	$ 30.72	$ 9.22	$ 18.50	$ 27.72	$ 27.72
989			Conduit Drain, 3/4", CD2, CROUSE-HINDS	EA	1	0%	1	0.400	$ 30.72	$ 12.29	$ 48.06	$ 60.35	$ 60.35
990			Reducer Conduit 1" x 3/4", RE32, CROUSE-HINDS	EA	1	0%	1	0.300	$ 30.72	$ 9.22	$ 18.50	$ 27.72	$ 27.72
991			Valve W/Shafer Operator With Power Supply	EA	1	0%	1	1.850	$ 30.72	$ 56.83	$ 256.50	$ 313.33	$ 313.33
992			Tubing, 316SS Seamless, 3/8" O.D x 0.035", ASTM A-269	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ 74.50	$ 89.86	$ 89.86
993			Tube Connector, Male 316SS, 3/8" T x 1/4" MNPT, Swagelok, SS-66-1-4	EA	4	0%	4	0.400	$ 30.72	$ 12.29	$ 26.84	$ 39.13	$ 156.51
994			Tube Connector, Male 316SS, 3/8" T x 3/8" MNPT, Swagelok, SS-66-1-6	EA	2	0%	2	0.400	$ 30.72	$ 12.29	$ 26.84	$ 39.13	$ 78.26
995			Filter, Instrument Gas Supply, Fisher, 2400 PSIG, 1/4" FNPT, Extended Body	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ 137.50	$ 168.22	$ 168.22
996			Blowdown Manifold Control Panel Layout & BOM Unit #8	EA	1	0%	1	3.850	$ 30.72	$ 118.27	$ 4,250.00	$ 4,368.27	$ 4,368.27
997			Junction Box, NEMA 4X With Panel A-48P36 & a-NMV3 Ventilator (4' High x 3' Wide x 16" Deep), HOFFMAN, A-48H36FLP	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ 562.50	$ 593.22	$ 593.22
998			Union 1/4" x 1/4" 316 S.S, SWAGELOK, SS-400-6	EA	1	0%	1	0.350	$ 30.72	$ 10.75	$ 32.50	$ 43.25	$ 43.25
999			Tubing 3/8" O.D x .035" 316 S.S. SMLS, SWAGELOK, SS-T6-S-035-20	EA	1	0%	1	0.400	$ 30.72	$ 12.29	$ 52.50	$ 64.79	$ 64.79
1000			Tubing 1/4" O.D x .035" 316 S.S. SMLS, SWAGELOK, SS-T4-S-035-20	EA	1	0%	1	0.400	$ 30.72	$ 12.29	$ 52.50	$ 64.79	$ 64.79
1001			Bulkhead Reducing Union 3/8" x 1/4" 316 S.S, SWAGELOK, SS-600-61-4	EA	8	0%	8	0.350	$ 30.72	$ 10.75	$ 66.90	$ 77.65	$ 621.22
1002			Male Connector 1/4" 316 S.S, SWAGELOK, SS-400-1-4	EA	23	0%	23	0.300	$ 30.72	$ 9.22	$ 24.50	$ 33.72	$ 775.47
1003			Union Tee 1/4" 316 S.S, SWAGELOK, SS-400-3	EA	9	0%	9	0.400	$ 30.72	$ 12.29	$ 62.50	$ 74.79	$ 673.09
1004			Bulkhead Union 1/4" 316 S.S, SWAGELOK, SS-400-61	EA	1	0%	1	0.450	$ 30.72	$ 13.82	$ 42.50	$ 56.32	$ 56.32
1005			1/4" 3-Way Pilot Operated Valve, Normally Closed, Piston Activated, Spring Return, 1/4" N.P.T Ports And 1/8" N.P.T. Pilot, VERSA, VSP-3301	EA	3	0%	3	1.000	$ 30.72	$ 30.72	$ 184.50	$ 215.22	$ 645.66
1006			1/4" Manual Selector Valve, ROBERTSHAW, 99365-A1	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ 345.50	$ 391.58	$ 391.58
1007			1/4" Selector Valve, ROBERTSHAW, 82216-A1	EA	1	0%	1	1.800	$ 30.72	$ 55.30	$ 325.50	$ 380.80	$ 380.80
1008			1/4" 3-Way Solenoid Valve, Normally Open, FN.P.T. Ports, Voltage 24VDC (Explosion Proof), SKINNER, X55LB2100	EA	2	0%	2	1.450	$ 30.72	$ 44.54	$ 294.50	$ 339.04	$ 678.09
1009			1/2" Galvanized Steel Universal UnionFxF, BARTON OR SIMILAR	EA	2	0%	2	0.400	$ 30.72	$ 12.29	$ 20.50	$ 32.79	$ 65.58
1010			1/2" x 4" Galvanized Steel Conduit Pipe, BARTON OR SIMILAR	EA	6	0%	6	0.150	$ 30.72	$ 4.61	$ 8.50	$ 13.11	$ 78.65
1011			Gual Condulet 1/2" Galvanized Steel, BARTON OR SIMILAR	EA	2	0%	2	1.000	$ 30.72	$ 30.72	$ 123.31	$ 154.03	$ 308.06
1012			Hub 1/2" FNPT x 1/2" FNPT Galvanized Steel, BARTON OR SIMILAR	EA	2	0%	2	0.500	$ 30.72	$ 15.36	$ 18.50	$ 33.86	$ 67.72
1013			3"x1" Phenolic NAMPLATE, WHT W/BLK Lettering , BY PNL SHOP	EA	2	0%	2	0.300	$ 30.72	$ 9.22	$ 20.50	$ 29.72	$ 59.43
1014			3"x1" Phenolic NAMPLATE, BLK W/WHITE Lettering , BY PNL SHOP	EA	8	0%	8	0.300	$ 30.72	$ 9.22	$ 20.50	$ 29.72	$ 237.73
1015			Conduit Pipe Galvanized 1/2"D x 4" L THRD	EA	6	0%	6	0.160	$ 30.72	$ 4.92	$ 8.50	$ 13.42	$ 80.49
1016			Universal Union 1/2" FNPT x 1/2" FNPT Galvanized	EA	2	0%	2	0.200	$ 30.72	$ 6.14	$ 12.50	$ 18.64	$ 37.29
1017			1/4" Screwed Filter, FISHER, 252	EA	1	0%	1	0.300	$ 30.72	$ 9.22	$ 37.95	$ 47.17	$ 47.17
1018			Adapter Coupling 1/4" MNPT x 1" MNPT SS, SWAGELOK, CN4NM16NM10	EA	1	0%	1	0.650	$ 30.72	$ 19.97	$ 84.50	$ 104.47	$ 104.47
1019			1" Screwed Ball Valve, Regular Port, Rated, 1440 PSIG (MIN.) @ 150°F, Screwed End Conditions, C.S. Body & Tailpiece, S.S. Trim, Filled Teflon Seat, TFE Gasket, With Loctite Compound, With Wrench Operator, SWAGELOK, W.K.M.#1R-B136-CS-02-S1/HL	EA	1	0%	1	0.800	$ 30.72	$ 24.58	$ 132.50	$ 157.08	$ 157.08
1020			Instrument Comms Tower Fiber Patch Panel	EA	1	0%	1	1.850	$ 30.72	$ 56.83	$ 1,850.50	$ 1,907.33	$ 1,907.33
1021			Enclosure NEMA 4, 24" x 24" x 8", HOFFMAN, A24H24BLP3PT	EA	1	0%	1	1.560	$ 30.72	$ 47.92	$ 1,350.00	$ 1,397.92	$ 1,397.92
1022			Back Panel, HOFFMAN, A24P24	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ 256.50	$ 287.22	$ 287.22
1023			1"x4" White Phenolic Nameplate, 1/4" Black Letters	EA	1	0%	1	0.300	$ 30.72	$ 9.22	$ 20.50	$ 29.72	$ 29.72
1024			Switch, N-TRON, 708FX2-ST	EA	1	0%	1	2.500	$ 30.72	$ 76.80	$ 1,456.39	$ 1,533.19	$ 1,533.19
1025			Phoenix Quint Power Supply, PHOENIX CONTACT, PS/1AC/24DC/10	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ 346.25	$ 376.97	$ 376.97
1026			Single -Panel Housing, CORNING, SPH-01P	EA	1	0%	1	0.650	$ 30.72	$ 19.97	$ 129.00	$ 148.97	$ 148.97
1027			Connector Housing, SC Adapters, Duplex, 12 F, 50um Multimode, CORNING, CCH-CP12-E7	EA	1	0%	1	0.350	$ 30.72	$ 10.75	$ 110.50	$ 121.25	$ 121.25
1028			Single Panel Housing, CORNING, SPH-01P	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ 100.40	$ 146.48	$ 146.48
1029			Power Circuit Breaker, 10 AMP, 600VAC, Entrelec (GM SERIES) Din Rail MTD. Type, ENTRELEC,	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ 35.95	$ 66.67	$ 66.67
1030			Fuse Modular Terminal Block-UT 4-L/Hesiled 24 (5X20)-Two Level, PHOENIX CONTACT, 3214366	EA	6	0%	6	0.560	$ 30.72	$ 17.20	$ 18.50	$ 35.70	$ 214.22
1031			Marker Carrier - UBE/D, PHOENIX CONTACT, 800307	EA	2	0%	2	0.320	$ 30.72	$ 9.83	$ 39.99	$ 49.82	$ 99.64
1032			Ground Bar, 9 Terminal Kit, SQUARE D, PK9GTA	EA	1	0%	1	0.350	$ 30.72	$ 10.75	$ 18.50	$ 29.25	$ 29.25
1033			Ground Bar, Insulating Kit Lugs, SQUARE D, PKGTAB	EA	2	0%	2	0.400	$ 30.72	$ 12.29	$ 43.80	$ 56.09	$ 112.18
1034			Entrelec Terminal Block Type: M 4/6 Gray, ENTRELEC, 115-116.07	EA	1	0%	1	0.300	$ 30.72	$ 9.22	$ 14.50	$ 23.72	$ 23.72
1035			Entrelec Terminal Block Type: M 4/6.P Green, ENTRELEC, 115-113.16	EA	1	0%	1	0.200	$ 30.72	$ 6.14	$ 14.50	$ 20.64	$ 20.64
1036			Entrelec End Stops Type: BAM, ENTRELEC, 103-002.26	EA	8	0%	8	0.350	$ 30.72	$ 10.75	$ 20.50	$ 31.25	$ 250.02
1037			DI RAIL, 35MM X 7.5NN, ZINC/STEEL, ALLEN BRADLEY, 199-DR1	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ 20.50	$ 35.86	$ 35.86
1038			Stand Off Insulator, GLASTIC, 2165-1B	EA	1	0%	1	0.400	$ 30.72	$ 12.29	$ 10.50	$ 22.79	$ 22.79
1039			Instrument Control Building Fiber Patch Panel	EA	1	0%	1	2.500	$ 30.72	$ 76.80	$ 1,450.00	$ 1,526.80	$ 1,526.80
1040			Enclosure NEMA 4X Stainless Steel, 3-Point Latch, 30" x 24" x 8", HOFFMAN, A30H24SS3LP3PTU	EA	1	0%	1	0.800	$ 30.72	$ 24.58	$ -	$ 24.58	$ 24.58
1041			Back Panel, HOFFMAN, A30P24	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 15.36
1042			1" x 4" White Phenolic Nameplate, 1/4" Black Letters	EA	1	0%	1	0.300	$ 30.72	$ 9.22	$ -	$ 9.22	$ 9.22
1043			Switch, N-TRON, 708FX2-ST	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 46.08
1044			Phoenix Quint Power Supply, PHOENIX CONTACT, PS/1AC/24DC/10	EA	1	0%	1	1.250	$ 30.72	$ 38.40	$ -	$ 38.40	$ 38.40
1045			Single -Panel Housing, CORNING, SPH-01P	EA	3	0%	3	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 46.08
1046			Connector Housing, SC Adapters, Duplex, 12 F, 50um Multimode, CORNING, CCH-CP12-E7	EA	3	0%	3	0.400	$ 30.72	$ 12.29	$ -	$ 12.29	$ 36.86
1047			Switch, N-TRON, 710FX2-ST	EA	1	0%	1	1.500	$ 30.72	$ 46.08	$ -	$ 46.08	$ 46.08
1048		Supplier BY Panel Shop	Power Circuit Breaker, 10 AMP. 600VAC, Entrelec (GM SERIES) Din Rail MTD. Type, ENTRELEC, ENTRELEC, GMU10U	EA	1	0%	1	0.560	$ 30.72	$ 17.20	$ -	$ 17.20	$ 17.20
1049			Fuse Modular Terminal Block-UT 4-L/Hesiled 24 (5X20)-Two Level, PHOENIX CONTACT, 3214366	EA	6	0%	6	0.350	$ 30.72	$ 10.75	$ -	$ 10.75	$ 64.51
1050			Marker Carrier - UBE/D, PHOENIX CONTACT, 800307	EA	2	0%	2	0.320	$ 30.72	$ 9.83	$ -	$ 9.83	$ 19.66
1051			Ground Bar, 9 Terminal Kit, SQUARE D, PK9GTA	EA	1	0%	1	0.350	$ 30.72	$ 10.75	$ -	$ 10.75	$ 10.75
1052			Ground Bar, Insulating Kit Lugs, SQUARE D, PKGTAB	EA	2	0%	2	0.350	$ 30.72	$ 10.75	$ -	$ 10.75	$ 21.50
1053			Entrelec Terminal Block Type: M 4/6 Gray, ENTRELEC, 115-116.07	EA	1	0%	1	0.320	$ 30.72	$ 9.83	$ -	$ 9.83	$ 9.83

DETAILED BREAKDOWN OF ITEMS

Prepared for: Kinder Morgan NGPL-Compressor Station 388 HP Addition afe-238039
Project ID: 14052026
Scope: Electrical & Instruments

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 09/28/26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
1054			Entrelec Terminal Block Type: M 4/6.P Green, ENTRELEC, 115-113.16	EA	1	0%	1	0.320	$ 30.72	$ 9.83	$ -	$ 9.83	$ 9.83
1055			Entrelec End Stops Type: BAM, ENTRELEC, 103-002.26	EA	18	0%	18	0.250	$ 30.72	$ 7.68	$ -	$ 7.68	$ 138.24
1056			DI RAIL, 35MM X 7.5NN, ZINC/STEEL, ALLEN BRADLEY, 199-DR1	EA	1	0%	1	0.500	$ 30.72	$ 15.36	$ -	$ 15.36	$ 15.36
1057			Stand Off Insulator, GLASTIC, 2165-1B	EA	1	0%	1	0.400	$ 30.72	$ 12.29	$ -	$ 12.29	$ 12.29
1058			Stand Off Insulator, CORNING, SPH-DIN-KIT	EA	3	0%	3	0.650	$ 30.72	$ 19.97	$ -	$ 19.97	$ 59.90
			FIRE ALARM										
			DEVICES										
1059			Combo Fire Alarm Horns Strobe, L-SERIES	EA	2	0%	2	0.000	$ 30.72	$ -	$ -	$ -	$ -
1060			Fire Alarm Manul Pulstation, HONEYWELL PS-SATK	EA	2	0%	2	0.000	$ 30.72	$ -	$ -	$ -	$ -
1061		**Supplied And Installed By I&E Contractor**	Fire Alarm Smoke/Temperature Detector	EA	4	0%	4	0.000	$ 30.72	$ -	$ -	$ -	$ -
1062			Fire Alarm Control Panel, w/BATTERY, HONEY WELL SK-4, EDWARDS 12V4A	EA	1	0%	1	0.000	$ 30.72	$ -	$ -	$ -	$ -
1063		**Supplied By Kinder And Installed By I&E Contractor**	Battery Bank, CD TECHNOLOGIES, EDWARDS 12V4A (For Fire Alarm Panel)	EA	2	0%	2	0.000	$ 30.72	$ -	$ -	$ -	$ -
1064			Fire Alarm Heat Detector	EA	2	0%	2	0.000	$ 30.72	$ -	$ -	$ -	$ -
1065			Hydrogen Sensor, La MARCHE	EA	2	0%	2	0.000	$ 30.72	$ -	$ -	$ -	$ -
1066			24V 2-Pole Relay, EATON D7PF2AT1	EA	1	0%	1	1.350	$ 30.72	$ 41.47	$ 34.50	$ 75.97	$ 75.97
1067			2P Relay Socket, EATON DFPAA	EA	1	0%	1	1.000	$ 30.72	$ 30.72	$ 32.50	$ 63.22	$ 63.22
1068			Fire Alarm Terminal Block	EA	4	0%	4	0.800	$ 30.72	$ 24.58	$ 28.50	$ 53.08	$ 212.30
1069			Fire Alarm Pam-1 Relay, HONEY WALL PAM-1	EA	1	0%	1	1.250	$ 30.72	$ 38.40	$ 37.50	$ 75.90	$ 75.90
												SUBTOTAL	**$ 1,104,885**
			EARTHWORK										
			EXCAVATION & BACKFILL										
			ONE WAY DUCT BANK										
			EXCAVATION										
			Excavation For One Way Duck Bank - (1) 4" PVC Coated RGS Conduit	**LF**	**23**								
1070			Excavation:	CY	6	5%	7	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 154
			BACKFILL										
1071			12" Thick Sand Backfill Material	CY	1	5%	1	0.450	$ 30.72	$ 13.82	$ 18.50	$ 32.32	$ 45
1072			3" Thick Red Dye Concrete Cap	CY	0	5%	0	3.500	$ 30.72	$ 107.52	$ 250.50	$ 358.02	$ 127
1073			Concrete Formwork	SF	11	5%	12	0.100	$ 30.72	$ 3.07	$ -	$ 3.07	$ 37
1074			Compacted Subgrade Backfill Material	CY	5	5%	5	0.450	$ 30.72	$ 13.82	$ -	$ 13.82	$ 68
			TWO WAY DUCT BANK										
			EXCAVATION										
			Excavation For Two Way Duck Bank - (2) 5" PVC Coated RGS Conduit	**LF**	**79**								
1075			Excavation:	CY	32	5%	34	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 782
			BACKFILL										
1076			12" Thick Sand Backfill Material	CY	7	5%	7	0.450	$ 30.72	$ 13.82	$ 18.50	$ 32.32	$ 229
1077			3" Thick Concrete Conduit Bank	CY	3	5%	4	3.500	$ 30.72	$ 107.52	$ 250.50	$ 358.02	$ 1,283
1078			3" Thick Red Dye Concrete Cap	CY	2	5%	2	3.500	$ 30.72	$ 107.52	$ 250.50	$ 358.02	$ 593
1079			Concrete Formwork	SF	434	5%	456	0.100	$ 30.72	$ 3.07	$ -	$ 3.07	$ 1,400
1080			Compacted Subgrade Backfill Material	CY	21	5%	22	0.450	$ 30.72	$ 13.82	$ -	$ 13.82	$ 299
			THREE WAY DUCT BANK										
			EXCAVATION										
			Excavation For Three Way Duck Bank - (3) 5" PVC Coated RGS Conduit	**LF**	**8**								
1081			Excavation:	CY	5	5%	5	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 116
			BACKFILL										
1082			12" Thick Sand Backfill Material	CY	1	5%	1	0.450	$ 30.72	$ 13.82	$ 18.50	$ 32.32	$ 37
1083			3" Thick Concrete Conduit Bank	CY	0	5%	0	3.500	$ 30.72	$ 107.52	$ 250.50	$ 358.02	$ 166
1084			3" Thick Red Dye Concrete Cap	CY	0	5%	0	3.500	$ 30.72	$ 107.52	$ 250.50	$ 358.02	$ 71
1085			Concrete Formwork	SF	46	5%	49	0.100	$ 30.72	$ 3.07	$ -	$ 3.07	$ 149
1086			Compacted Subgrade Backfill Material	CY	3	5%	3	0.450	$ 30.72	$ 13.82	$ -	$ 13.82	$ 44
	388-31 - E168.1	Typical Detail 388-31 - E168.1	**THREE WAY DUCT BANK**										
			EXCAVATION										
			Excavation For Three Way Duck Bank - (3) 6" PVC Coated RGS Conduit	**LF**	**125**								
1087			Excavation:	CY	71	5%	75	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 1,724
			BACKFILL										
1088			12" Thick Sand Backfill Material	CY	18	5%	19	0.450	$ 30.72	$ 13.82	$ 18.50	$ 32.32	$ 623
1089			3" Thick Concrete Conduit Bank	CY	7	5%	7	3.500	$ 30.72	$ 107.52	$ 250.50	$ 358.02	$ 2,467
1090			3" Thick Red Dye Concrete Cap	CY	3	5%	3	3.500	$ 30.72	$ 107.52	$ 250.50	$ 358.02	$ 1,053
1091			Concrete Formwork	SF	688	5%	722	0.100	$ 30.72	$ 3.07	$ -	$ 3.07	$ 2,218
1092			Compacted Subgrade Backfill Material	CY	44	5%	46	0.450	$ 30.72	$ 13.82	$ -	$ 13.82	$ 632
			FOUR WAY DUCT BANK										
			EXCAVATION										
			Excavation For Four Way Duck Bank - (3) 4" PVC Coated RGS Conduit W/ Pull String - (1) 2" PVC Coated RGS Conduit W/ Pull String	**LF**	**127**								
1093			Excavation:	CY	72	5%	75	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 1,737
			BACKFILL										
1094			20" Thick Sand Backfill Material	CY	22	5%	23	0.450	$ 30.72	$ 13.82	$ 18.50	$ 32.32	$ 740
1095			3" Thick Red Dye Concrete Cap	CY	4	5%	4	3.500	$ 30.72	$ 107.52	$ 250.50	$ 358.02	$ 1,397
1096			Concrete Formwork	SF	64	5%	67	0.100	$ 30.72	$ 3.07	$ -	$ 3.07	$ 205
1097			Compacted Subgrade Backfill Material	CY	46	5%	49	0.450	$ 30.72	$ 13.82	$ -	$ 13.82	$ 672
			TEN WAY DUCT BANK										
			EXCAVATION										
			Excavation For Ten Way Duck Bank - (6) 5" PVC Coated RGS Conduit - (4) 2" PVC Coated RGS Conduit	**LF**	**18**								
1098			Excavation:	CY	18	5%	19	0.750	$ 30.72	$ 23.04	$ -	$ 23.04	$ 435
			BACKFILL										
1099			20" Thick Sand Backfill Material	CY	3	5%	4	0.450	$ 30.72	$ 13.82	$ 18.50	$ 32.32	$ 114
1100			3" Thick Red Dye Concrete Cap	CY	1	5%	1	3.500	$ 30.72	$ 107.52	$ 250.50	$ 358.02	$ 198
1101			Concrete Formwork	SF	9	5%	9	0.100	$ 30.72	$ 3.07	$ -	$ 3.07	$ 29
1102			Compacted Subgrade Backfill Material	CY	14	5%	15	0.450	$ 30.72	$ 13.82	$ -	$ 13.82	$ 205
												SUBTOTAL	**$ 20,046**

	PROJECTED COST	**$3,838,312**
PROFIT	**10%**	**$383,831**
INSURANCE	**3%**	**$115,149**
CONTINGENCY	**5%**	**$191,916**
TAX	**7%**	**$212,829**
SUGGESTED BID		**$4,742,037**

Notes:
1. Online sources are used for pricing.
2. Prices can vary depending upon field conditions.

MATERIAL LIST

Prepared for: Kinder Morgan NGPL-Compressor Station 388 HP Addition afe-238039
Project ID: 14052026
Scope: Electrical & Instruments

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
			GENERAL REQUIREMENTS		
1			Permits	LS	1
2			Supervision and Coordination	LS	1
3			Submittals and Shop drawings	LS	1
4			Final Cleaning	LS	1
5			Mobilization Costs	LS	1
6			Temporary Control & Facilities	LS	1
7			Scaffolding	LS	1
			ELECTRICAL		
			DISTRIBUTION		
			CONDUIT		
8			2" EMT Conduit	EA	16
9			1" RGS Conduit	EA	1820
10			2" RGS Conduit	EA	831
11			3" RGS Conduit	EA	26
12			4" RGS Conduit	EA	126
13			5" RGS Conduit	EA	174
14			6" RGS Conduit	EA	128
15			1" PVC COATED RIGID GALVANIZED CONDUIT	EA	1652
16			2" PVC COATED RIGID GALVANIZED CONDUIT	EA	682
17			3" PVC COATED RIGID GALVANIZED CONDUIT	EA	68
18			4" PVC COATED RIGID GALVANIZED CONDUIT	EA	88
19			5" PVC COATED RIGID GALVANIZED CONDUIT	EA	167
20			6" PVC COATED RIGID GALVANIZED CONDUIT	EA	204
			CONDUCTOR		
21			1/C #750KCMIL, MV-105, 15 kV, SHIELDED, OKONITE, 115-23-3802	Roll	19
22			1/C #4/0AWG, MV-105,15 kV, SHIELDED, OKONITE, 112-31-3464 (Green)	Roll	9
23			3/C #2AWG + 1/C #6AWG GND, MV-105, 15 kV, SHIELDED, OKONITE, 112	Roll	1
24			1/C #3/0AWG, XHHW-2, OKONITE, 112-31-3374 (Green)	Roll	6
25			1/C #1AWG, XHHW-2, OKONITE, 112-31-3514 (Green)	Roll	1
26			1/C #2AWG, XHHW-2, OKONITE, 112-24-2531	Roll	2
27			1/C #250KCMIL, XHHW-2, OKONITE, 112-31-6404	Roll	4
28			1/C #500KCMIL, RHH-RHW2, OKONITE, 112-31-3759	Roll	13
29			3/C #4AWG + 1/C #12AWG GND,XHHW-2 Shielded VFD, OKONITE, 112-31-	Roll	7
30			3/C #4AWG+ 1/C #8AWG GND,XHHW-2, OKONITE, 112-31-3777	Roll	9
31			3/C #8AWG+ 1/C #10AWG GND,XHHW-2, OKONITE, 112-31-3791	Roll	11
32			3/C #1/0AWG+ 1/C #6AWG GND,XHHW-2, OKONITE, 112-31-3365	Roll	2
33			4/C #250KCMIL+ 1/C #4AWG GND,XHHW-2, OKONITE, 112-31-3383	Roll	1
34			3/C #2AWG+ 1/C #6AWG GND,XHHW-2, OKONITE, 112-31-3833	Roll	4
35			4/C #2/0AWG+ 1/C #6AWG GND,XHHW-2, OKONITE, 112-31-3704	Roll	1
36			3/C #10AWG+ 1/C #10AWG GND Insulated,XHHW-2, OKONITE, 112-31-3709	Roll	26
37			4/C #10AWG,XHHW-2, OKONITE, 112-31-3753	Roll	2
38			9/C #10AWG,XHHW-2, OKONITE, 112-31-3823	Roll	1
39			3/C #10AWG+ 1/C #10AWG GND,XHHW-2, OKONITE, 112-31-3503	Roll	16
40			3/C #12AWG+ 1/C #12AWG GND Insulated,XHHW-2, OKONITE, 112-31-3379	Roll	21
41			3/C #14AWG ,XHHW-2, OKONITE, 112-31-3785	Roll	34
42			3/C #350AWG+ 1/C #3AWG GND,XHHW-2, OKONITE, 112-31-33747	Roll	1
43			3/C #4/0AWG+ 1/C #4AWG GND,XHHW-2, OKONITE, 112-31-33735	Roll	2
44			3/C #6AWG+ 1/C #8AWG GND,XHHW-2, OKONITE, 112-31-3612	Roll	1
45			3/C #8AWG+ 1/C #10AWG GND,XHHW-2, OKONITE, 112-31-3797	Roll	2
46			12/C #12AWG,XHHW-2, OKONITE, 112-31-3612	Roll	4
47			3/C #500AWG+ 1/C #3AWG GND,XHHW-2, OKONITE, 112-31-3797	Roll	1
48			4PR#14 AWG, IS-OS, OKONITE, 261-60-5504	Roll	2
49			12PR#16 AWG, IS-OS, OKONITE, 261-60-4412	Roll	1
50			4PR#16 AWG, IS-OS, OKONITE, 261-60-4404	Roll	1
			MV CABLE TERMINATION CABLE KIT		
51			25KV 600A T-Body, Outdoor, 1/C #750KCMIL, MV-105, 15kV, SHIELDED, 3	EA	9
52			25KV 600A T-Body, Outdoor, 3/C #2AWG + 1/C #6AWG GND, MV-105, 15kV	EA	1
53			5-35KV, Indoor, Cold Shrink QT-III, 1/C #750KCMIL, MV-105, 15kV, SHIELD	EA	9

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Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
54			5-35KV, Outdoor, Cold Shrink QT-III, 1/C #750KCMIL, MV-105, 15kV, SHIEL	EA	9
55			5-35KV, Indoor, Cold Shrink QT-III, 3/C #2AWG + 1/C #6AWG GND, MV-105	EA	1
56			5-35KV, Indoor, Cold Shrink QT-III, 1/C #4/0AWG, MV-105,15kV, SHIELDED	EA	27
57			5-35KV, Outdoor, Cold Shrink QT-III, 1/C #4/0AWG, MV-105,15kV, SHIELDE	EA	3
			CIRCUIT BREAKER		
58		Supplied By Contractor	1P/15A Breaker 35KAIC	EA	4
59			1P/20A Breaker	EA	14
60			1P/20A Breaker 14KAIC	EA	16
61			1P/20A Breaker 18KAIC	EA	18
62			1P/20A Breaker 35KAIC	EA	23
63			1P/30A Breaker 35KAIC	EA	1
64			2P/20A Breaker 22KAIC	EA	10
65			2P/20A Breaker 35KAIC	EA	15
66			2P/30A Breaker 22KAIC	EA	1
67			2P/40A Breaker 22KAIC	EA	5
68			2P/100A Breaker	EA	1
68			3P/125A MCB	EA	2
69			2P/125A Breaker 22KAIC	EA	1
70			2P/250A Breaker 22KAIC	EA	1
71			2P/400A Breaker 22KAIC	EA	2
72			3P/500A MCB	EA	1
73			3P/30A Breaker 35KAIC	EA	1
74			3P/60A MCB	EA	1
75			3P/150A MCB	EA	1
76			3P/200A MCB 18KAIC	EA	1
			PANEL		
77		Supplied By Contractor	Panel UCG 9110 125A, 120/240V. 1PH, 3W, Mains: MCB, 18 Poles, 35KAIC	EA	1
78			Panel UCG 9130: 125A, 120/240V. 1PH, 3W, Mains: MCB, 30 Poles, 35KAIC	EA	1
79			Panel UCG 9140: 250A, 208/120V. 3PH, 4W, Mains: MCB, 42 Poles, Surfa	EA	1
80			Panel UCG 9150: 250A, 120/208V. 3PH, 4W, Mains: MCB, 42 Poles, Surface	EA	1
81			Panel UCG 9160: 60A, 480/277V. 3PH, 3W, Mains: MCB, 30 Poles, 35KAIC	EA	1
82			Panel UCG-9120: 600A, 120/208V. 1PH, 2W, Mains: MCB, 42 Poles, 35KAI	EA	1
83			UCF-9160: 15KV Switchgear	EA	1
84			UCF-9170 MCC: 2000A, 480V, 3PH, 3W, 65KAIC, 60Hz	EA	1
85			UCG-9161: Lighting Contractor Panel LC-1	EA	1
			DEVICES		
86		Supplied By Contractor	45KVA Transformer, 480X208/120VAC, 3PH, EATON, CLASS 1, DIV 2 #Z48	EA	1
87			75KVA Transformer, 480X208/120VAC, 3PH, HAMMOND POWER SOLUTIO	EA	1
			DISCONNECT SWITCH		
88		Supplied And Installed By I&E Contractor	DC-BATT-9120, 600A, 125VDC 35KAIC (MIM) FUSSED DISCONNECT, #RE	EA	1
89		Supplied By Contractor	480V Disconnect Switch, EATON EBMX1D-N100	EA	1
90			3P/175A Power Distribution Block, EDISON PB1013	EA	1
91			3P/600A/125VDC Disconnect Switch, 35KAIC, NEMA-1	EA	1
92			3P/100A Explosion Proof Disconnect Switch, EATON #EBMX1D-N100 RLN4	EA	1
93			3P/30A Disconnect Switch, CLASS 1 DIV2, EBMX1D-N030 RLN4	EA	3
94			3P/100A Disconnect Switch, CLASS 1 DIV2, EBMX1D-N100 RLN4	EA	1
95			3P/60A Disconnect Switch, CLASS 1 DIV2, EBMX1D-N060 RLN4	EA	1
96			3P/30A Disconnect Switch, CLASS 1 DIV2, EBMX1D-N030 RLN4	EA	1
97			3P/100A Disconnect Switch, CLASS 1 DIV2, EBMX1D-N100 RLN4	EA	1
			GROUNDING		
98			Exothermic / Cadweld Grounding, C— Copper, Run: #1/0 to #250KCMIL, 1/2"	EA	100
99			Exothermic / Cadweld Grounding, C— Copper, Run: #1/0 TO #250KCMIL, 1/2"	EA	600
100			Exothermic / Cadweld Grounding, C— Copper, Run: #1 /0 TO #250 KCMIL, T	EA	30
101			Package Zinc Anode, #360P—42	EA	15
102			Air Terminal, Static Dissipating, Lighting Master, 1 LM — PP —31A	EA	55
103			#2/0 AWG HMWPE Green Grounding Cable	Roll	12
104			#250 KCMIL AWG HMWPE Green Grounding Cable	Roll	10
105			#2 AWG HMWPE Green Lightning Grounding Cable	Roll	5
			POWER		
			DEVICE		
106		Supplied And Installed By I&E Contractor	110V, Duplex Receptacle, GFCI, #2094-W NEMA 5-20R, w/ELECT. BOX, LE	EA	4
107			Data Network Outlet (2) Wiremold, V5744S SURFACE METAL BOX (2) O	EA	2
108			110V,Duplex Receptacle, #IG420 , w/ELECT. BOX, LEGRAND	EA	4
109			20A, Duplex Receptacle, GFCI, #2095TRWR w/WIUC10-GL SINGLE GAND	EA	8
110			110V, Exhaust Fan Connection With Battery Backup, #H2FAN-12X12-110VAC	EA	1
111			110V, UPS Qquad Receptacle, #IG420, HUBBEL	EA	2
			LIGHTING		
			CONDUIT		

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SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
112			3/4" EMT Conduit	EA	24
113			3/4" RGS Conduit	EA	26
114			3/4" Flexible Conduit	EA	6
			LIGHTING FIXTURES		
115			L1: LED 100-277 VAC, Appleton #MLGAL32CP5BU MERCMASTER Generati	EA	16
			1-5/8" x 1-5/8" Chanel	EA	224
			Beam Clamo For 1-5/8" x 1-5/8" Chanel	EA	64
			3/4" Conduit Tee, CROUSE-HINDS #GUAT26	EA	48
			3/8" Spring Nuts, Hex Head Bolts	EA	32
116			L2: Fixture, 30W LED, 100-277 VAC, APPLETON #MLLEDA22CP5BU1, Merc	EA	4
			1/4" Spring Nuts, Hex Head Bolts, Washers And Lock washers	EA	16
			1 5/8" x 1 5/8" Channel (Unistrut)	EA	32
			3/4" Conduit Clamp	EA	32
			Junction Box Dialight #HZXJB075	EA	16
117			L3: Fixture, 70W LED, 120-277VAC, APPLETON #AMLGL6CG6BU Areamast	EA	8
			1/4" Spring Nuts, Hex Head Bolts, Washers And Lockwashers	EA	8
			1 5/8" x 1 5/8" Channel (Unistrut)	EA	8
118			L4: LED Lighting Fixture	EA	19
			1 5/8" x 1 5/8" Channel (Unistrut)	EA	19
			Conduit Union, 3/4" CROUSE-HINDS #UNY205	EA	19
			Receptacle, Factory Sealed, 125V, 20A, 3 Wire, 2Pole, 3/4" Hub, Single Ga	EA	19
119			L8: LED Lighting Fixture	EA	3
			1 5/8" x 1 5/8" Channel (Unistrut)	EA	3
			3/4" Conduit Clamp	EA	3
			3/4" Conduit Hub, CROUSE-HINDS #ST-2	EA	3
			Emergency Light, Batt Backup, CROUSE-HINDS #AP70RWHDH	EA	3
120			110V, 60W LED Fixture, PART: #FNLED5CBSAD, ATX FNLED, APPLETON	EA	18
121			Exit Emergency Light w/Battery Backup, LITHONIA LIGHTING #LHQM-S-W-	EA	4
122			480V, 75WATT LED Wall Pack Lighting, AMLGL6CGLBU AREAMASTER G	EA	9
123			L18A: Flood Light Fixture 30K Lumens 250 Watts Appleton #AMLHL3C	EA	1
			3/4" Straight Flex Conduit Fitting	EA	2
			Poletop Bracket For 2 Lights, KW POLES #FA2180-36-2-KZ41-2	EA	1
			Poletop Bracket For 3 Lights, KW POLES #FA3180-36-2-KZ41-2	EA	1
			4"x4" Square Steel Break-Over Pole With 2" Tenon, 20' Tall KW #THSP20-4.00	EA	1
			Ground Sleeve	EA	1
			Conduit Sleeve, 1" PVC SCHEDULE 40	EA	1
			Fitting, 24" Radius Elbow Rigid Galvanized Steel, 40 MIL PVC COATED	EA	2
			Fitting, Conduit Grounding Bushing	EA	2
			Lowering Winch, Only One Needed Per Installatio	EA	1
124			L18B: Flood Light Fixture 30K Lumens 250 Watts Appleton #AMLHL3C	EA	2
			3/4" Straight Flex Conduit Fitting	EA	4
			Poletop Bracket For 2 Lights, KW POLES #FA2180-36-2-KZ41-2	EA	1
			Poletop Bracket For 3 Lights, KW POLES #FA3180-36-2-KZ41-2	EA	2
			4"x4" Square Steel Break-Over Pole With 2" Tenon, 20' Tall KW #THSP20-4.00	EA	1
			Ground Sleeve	EA	1
			Conduit Sleeve, 1" PVC SCHEDULE 40	EA	1
			Fitting, 24" Radius Elbow Rigid Galvanized Steel, 40 MIL PVC COATED	EA	2
			Fitting, Conduit Grounding Bushing	EA	2
			Lowering Winch, Only One Needed Per Installatio	EA	1
125			L18C: Flood Light Fixture 30K Lumens 250 Watts Appleton #AMLHL3C	EA	3
			3/4" Straight Flex Conduit Fitting	EA	6
			Poletop Bracket For 2 Lights, KW POLES #FA2180-36-2-KZ41-2	EA	3
			Poletop Bracket For 3 Lights, KW POLES #FA3180-36-2-KZ41-2	EA	1
			4"x4" Square Steel Break-Over Pole With 2" Tenon, 20' Tall KW #THSP20-4.00	EA	1
			Ground Sleeve	EA	1
			Conduit Sleeve, 1" PVC SCHEDULE 40	EA	1
			Fitting, 24" Radius Elbow Rigid Galvanized Steel, 40 MIL PVC COATED	EA	2
			Fitting, Conduit Grounding Bushing	EA	2
			Lowering Winch, Only One Needed Per Installatio	EA	1
126			L10: Flood Light Fixture Durosite 10100 Lumens 70 Watts Dialight Appleto	EA	1
			3/4" Conduit Hub, Crouse-Hinds #ST-2	EA	1
			3/4" Flex Conduit Straight Fitting	EA	2
			3/4" Conduit L Fitting Crouse-Hinds #LB27	EA	1
			5/16" Hex Head Bolts, Nuts, Washers And Lockwashers	EA	1
			1 5/8" x 1 5/8" Channel (UNISTRUT)	EA	1
			Flood Light Fixture Durosite 10100 Lumens 70 Watts Dialight Appleton #AM	EA	1
			3/4" Conduit Clamp	EA	1
			Receptacle, Factory Sealed, 125V, 20A, 3 Wire, 2POLE, 3/4" HUB, SINGL	EA	1

MATERIAL LIST

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SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
			3/4" Insulated Throat Grounding Bushing	EA	1
			3/4" Conduit T Fitting Crouse-Hinds #T27	EA	1
			3/4" Conduit Seal Crouse-Hinds #EYS21	EA	1
			3/4" RGS Conduit Coupling	EA	1
			1/4" Hex Head Bolts, Nuts, Washers And Lockwashers	EA	1
127			L11: Emergency Light, 56W, With Exit Sign Crouse-Hinds #N2LPS12222/120	EA	1
			1 5/8" x 1 5/8" Channel (UNISTRUT)	EA	1
			Conduit Union, 3/4" Crouse-Hinds #UNY205	EA	1
			3/4" Conduit Clamp	EA	1
128			L12: Strobe Light, Amber, Federal Signal #225XL-024A (AMBER)	EA	1
			Conduit Union, 3/4" Crouse-Hinds #UNY205	EA	1
			1 5/8" x 1 5/8" Channel (UNISTRUT)	EA	1
			3/4" Conduit Coupling	EA	1
			Conduit Seal, 3/4" Crouse-Hinds #EYD21	EA	1
			3/4" Conduit Nipple	EA	1
			3/4" Conduit Clamp	EA	1
129			L13: Fixture, 60W LED, 100-277 VAC, Appleton #FNLED5CBUSAD, ATX FNI	EA	1
			3/4" Conduit Clamp	EA	1
			3/4" Conduit Tee, Crouse-Hinds #GUAT26	EA	1
			Beam Clamp For 1 5/8" x 1 5/8" Channel (UNISTRUT)	EA	2
			1 5/8" x 1 5/8" Channel (UNISTRUT)	EA	1
			3/8" Spring Nuts, Hex Head Bolts, Washers And Lockwashers	EA	1
130			L14: Fixture, 70W LED, 120-277VAC, Appleton #AMLGL6CG6BU Areamaster	EA	1
			3/8" Stainless Steel Hardware	EA	4
			Wall Mount Bracket	EA	1
			GUAC59 With 1 Reducer RE51 And 1 Reducer RE52	EA	1
			1/2" Flexible Conduit Connector	EA	4
			1/2" J-Hook	EA	4
			1/2" Stainless Steel Hardware	EA	4
			Slipfitter Yoke Mounted	EA	1
			Flexible Liquidtight Metal, Conduit, 1/2", Anaconda Type U.A.	EA	1
			3/8" Steel Plate, Size As Required.	EA	1
			LIGHTING CONTROL		
131			3-Way Switch	EA	7
132			UCG-9161 480V Lighting Contactor/Panel, GE/EATON (Supplied And Installed	EA	1
133			Manual Bypass Switch, La MARCHE MBSW-100A-MB4B-4P (SupplieD By Ele	EA	1
134			110V, 3-Way Switch, LEGRAND #CSB20AC3-W (Supplied And Installed By I&	EA	6
135			110V, 4-WAY SWITCH, LEGRAND #CSB20AC4-W (Supplied And Installed B	EA	2
136			480V Photocell, INTERMATIC #K4135 (Supplied And Installed By I&E Contrac	EA	1
137			110V, Single-Way Switch, LEGRAND #CSB20AC1-W (Supplied And Installed I	EA	1
138			Photocelll, EATON #D2S20 CLASS1, DIV2 With Surface Mounted Box 1" #HU	EA	1
139			12P/30A Electrically Held Lighting Contactor, ECL03C2A9A	EA	1
			MISCELLANEOUS		
140	388-31-E174.5		Pull Box 4'x4' With Cover, OLDCASTLE	EA	1
141			Pull Vault 4'x4'x5' With Cover, OLDCASTLE	EA	1

COMMUNICATION

			TELECOMMUNICATION		
			CABLE TRAY		
142			12" Straight Section Aluminum, EATON B-LINE H46A06-12-240	LF	520
143			18" Straight Section Aluminum, EATON B-LINE H46A06-18-240	LF	120
144			36" Straight Section Aluminum, EATON B-LINE H46A06-36-240	LF	700
			CABLE TRAY ACCESSORIES		
145			12" Vertical Out Bend 90°, EATON B-LINE 6A-12-90V012	EA	2
146			36" Vertical Out Bend 90°, EATON B-LINE 6A-36-90V012	EA	6
147			12" Vertical In Bend 90°, EATON B-LINE 6A-12-90VI12	EA	4
148			18" Vertical In Bend 90°, EATON B-LINE 6A-18-90VI12	EA	1
149			36" Vertical In Bend 90°, EATON B-LINE 6A-36-90VI12	EA	6
150			36" Horizontal Bend 90°, EATON B-LINE 6A-36-90HB12	EA	12
151			12" Horizontal Tee, EATON B-LINE 6A-12-90HT12	EA	5
152			18" Horizontal Tee, EATON B-LINE 6A-18-90HT12	EA	2
153			36" Horizontal Tee, EATON B-LINE 6A-36-90HT12	EA	8
154			Straight Section Barrier Strip, EATON B-LINE 757P-144	EA	88
155			Vertical Out 90° Barrier Strip, EATON B-LINE 757P-90V012	EA	8
156			Vertical In 90° Barrier Strip, EATON B-LINE 757P-90V112	EA	11
157			Horizontal Bend 90° Barrier Strip, EATON B-LINE 757P-90HBFL	EA	10
158			12" Straight Ventilated Cover, EATON B-LINE 817A-12-240	EA	31
159			36" Straight Ventilated Cover, EATON B-LINE 817A-36-240	EA	31
160			12" Vertical Out 90° Ventilated Cover, EATON B-LINE 817A-12-90V012	EA	2

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SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
161			36" Vertical Out 90° Ventilated Cover, EATON B-LINE 817A-36-90V012	EA	4
162			12" Vertical In 90° Ventilated Cover, EATON B-LINE 8817A-12-90VI12	EA	4
163			36" Vertical In 90° Ventilated Cover, EATON B-LINE 8817A-36-90VI12	EA	6
164			36" Horizontal 90° Ventilated Cover, EATON B-LINE 817A-36-90HB12	EA	2
165			12" Frame Type Box Connector, ROXTEC GH 6x3 GALV	EA	3
166			36" Frame Type Box Connector, ROXTEC GH 6+6x3 GALV	EA	5
			SECURITY		
			DEVICES		
167		**Supplied By Electrical AUX Building Vendor & Installed By TBD**	Intrsion Switch, #2845T-M, GE SECURITY	EA	5
168			Lead Lag Controller, ITEM #27	EA	4
			TUBING		
			TUBING		
169			1/4" Dia S.S Tubing	EA	106
170			3/8" Dia S.S Tubing	EA	20
171			1/2" Dia S.S Tubing	EA	32
172			3/4" Dia S.S Tubing	EA	16
			HEAT TRACE (Mfr. INVENT)		
			CONDUCTOR		
173			8W/ft, 120V Self— Reg Heating Cable (CLASS 1 DIV 2), 8BTV1 —CT	Roll	2
			DEVICES		
174			Above —Insulation Lighted End Seal Kit (CLASS 1 DIV 2), E—100—L— A	EA	5
175			Single— Entry Power Kit with Junction Box (CLASS 1 DIV 2), JBS—100A	EA	4
176			Double— Entry Power Kit With Junction Box (CLASS 1 DIV 2), JBM —100A	EA	1
177			0—49"C HAZ. Thermostat (99—132VAC), ETS —05—A1 R —P	EA	4
178			Electric Traced Label for traced pipes and tanks, ETL— ENT LISH	EA	19
179			Glass Tope (6 6ft/roll) (not for stain less —steel pipe), GT-66	EA	4
180			Pipe Strap 1 inch to 3 inch, PS-3	EA	8
181			RTD WITH 10FT S/S Corrugated SHLD, RTD 10CS	EA	4
182			BE 20AMP, 30mA GFEP BREAKER, 1 — Pole, Bolt ON, 10KAIC, THQB-GFT	EA	4
			INSTRUMENTATION		
			CONDUIT		
183			3/4" RGS Conduit	EA	1337
184			1" RGS Conduit	EA	881
185			1-1/2" RGS Conduit	EA	262
186			2" RGS Conduit	EA	52
			CONDUCTOR		
187			1PR#16 AWG - 600V 90 DegC - TC-UL, OKONITE, 264-60-4401	Roll	120
188			1TR#16 AWG - 600V 90 DegC - TC-UL,	Roll	52
189			2PR#16 AWG - 600V 90 DegC - TC-UL,	Roll	15
190			4PR#16 AWG - 600V 90 DegC - TC-UL,	Roll	46
191			8PR#16 AWG - 600V 90 DegC - TC-UL,	Roll	11
192			16PR#16 AWG - 600V 90 DegC - TC-UL,	Roll	3
193			12TR#16 AWG - 600V 90 DegC - TC-UL,	Roll	6
194			12 fibers, 50 um multimode (OM3),	Roll	15
195			CAT6 U/UTP 4PR#23 AWG - LSZH,	Roll	63
			DEVICES		
196		**Purchased By SIEMENS (COMP #8 UNIT)**	TE-161: TEMPERATURE ELEMENT (RTD), CONAX &10-1287-1	EA	1
197			TW-161: THERMOWELL, TBC TBC	EA	1
198			TE-171: TEMPERATURE ELEMENT (RTD), CONAX 10-1286-1	EA	1
199			TW-171: THERMOWELL, ALLOY ENGINEERING 260 FH-U7	EA	1
200			RO-81S: RESTRICTION ORIFICE, TBC TBC	EA	1
201			RO-81D: RESTRICTION ORIFICE, TBC TBC	EA	1
202			TE-163: TEMPERATURE ELEMENT (RTD), CONAX &10-1287-1	EA	1
203			TW-163: THERMOWELL, TBC TBC	EA	1
204			TE-173: TEMPERATURE ELEMENT (RTD), CONAX 10-1286-1	EA	1
205			TW-173: THERMOWELL, ALLOY ENGINEERING 260 FH-U7	EA	1
206			RO-83S: RESTRICTION ORIFICE, TBC TBC	EA	1
207			RO-83D: RESTRICTION ORIFICE, TBC TBC	EA	1
208			TE-165: TEMPERATURE ELEMENT (RTD), CONAX &10-1287-1	EA	1
209			TW-165: THERMOWELL, TBC TBC	EA	1
210			TE-175: TEMPERATURE ELEMENT (RTD), CONAX 10-1286-1	EA	1
211			TW-175: THERMOWELL, ALLOY ENGINEERING 260 FH-U7	EA	1
212			RO-85S: RESTRICTION ORIFICE, TBC TBC	EA	1
213			RO-85D: RESTRICTION ORIFICE, TBC TBC	EA	1
214			PIT-0801: PRESSURE TRANSMITTER, ROSEMOUNT 3051S2TG4A2A11A1ADA2B4E5L1 M5Q4Q8T1HR7 (IDD 01-06)	EA	1

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SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
215		Purchased By KM	TE-0820: TEMPERATURE ELEMENT (RTD), ROSEMOUNT 214CRHSMB1S3E0090SLE5AT1C 3B1WDV20Q4XW (IDD 02-04)	EA	1
216			TW-0820: THERMOWELL, ROSEMOUNT 114CE0072TAB2SC017AQ8R21X W (IDD 02-04)	EA	1
217			DPIT-0801: DIFF PRESSURE TRANSMITTER, ROSEMOUNT 3051CD3A02A1AS5E5M5Q4Q8T1 HR7 (IDD 01-04)	EA	1
218			RO-100A: RESTRICTION ORIFICE, ROSEMOUNT 1495PG160A9SD10500BCW R3FL Q8	EA	1
219			RO-101A: RESTRICTION ORIFICE, ROSEMOUNT 1495PC160A9SDC09750BCW R3FI Q8(By KM Installed ByTBC	EA	1
220			PIT-0831: PRESSURE TRANSMITTER, ROSEMOUNT 3051S2TG4A2A11A1ADA2B4E5L1 M5Q4Q8T1HR7 (IDD 01-06)	EA	1
221			TE-0830: TEMPERATURE ELEMENT (RTD), ROSEMOUNT 214CRHSMB1S3E0077SLE5AT1C 3B1WDV20Q4XW (IDD 02-04)	EA	1
222			TW-0830: THERMOWELL, ROSEMOUNT 114CE0060TAB2SC017AQ8R21X W (IDD 02-04)	EA	1
223			DPIT-0831: DIFF PRESSURE TRANSMITTER, ROSEMOUNT 3051CD3A02A1AS5E5M5Q4Q8T1 HR7 (IDD 01-04)	EA	1
224			RO-200A: RESTRICTION ORIFICE, ROSEMOUNT 1495UC120RFSC07800BCW R3PH FLQ8	EA	1
225			RO-201A: RESTRICTION ORIFICE, ROSEMOUNT 1495UC120RFSC07100BCW R3PH FJQ8	EA	1
226		Purchased By SIEMENS (COMP #8 UNIT)	TE-262: TEMPERATURE ELEMENT (RTD), CONAX &10-1287-1	EA	1
227			TW-262: THERMOWELL, TBC TBC	EA	1
228			TE-272: TEMPERATURE ELEMENT (RTD), CONAX 10-1286-1	EA	1
229			TW-272: THERMOWELL, ALLOY ENGINEERING 260 FH-U7	EA	1
230			RO-82S: RESTRICTION ORIFICE, TBC TBC	EA	1
231			RO-82D: RESTRICTION ORIFICE, TBC TBC	EA	1
232			TE-264: TEMPERATURE ELEMENT (RTD), CONAX &10-1287-1	EA	1
233			TW-264: THERMOWELL, TBC TBC	EA	1
234			TE-274: TEMPERATURE ELEMENT (RTD), CONAX 10-1286-1	EA	1
235			TW-274: THERMOWELL, ALLOY ENGINEERING 260 FH-U7	EA	1
236			RO-84S: RESTRICTION ORIFICE, TBC TBC	EA	1
237			RO-84D: RESTRICTION ORIFICE, TBC TBC	EA	1
238			TE-266: TEMPERATURE ELEMENT (RTD), CONAX &10-1287-1	EA	1
239			TW-266: THERMOWELL, TBC TBC	EA	1
240			TE-276: TEMPERATURE ELEMENT (RTD), CONAX 10-1286-1	EA	1
241			TW-276: THERMOWELL, ALLOY ENGINEERING 260 FH-U7	EA	1
242			RO-86S: RESTRICTION ORIFICE, TBC TBC	EA	1
243			RO-86D: RESTRICTION ORIFICE, TBC TBC	EA	1
244		Purchased By PEERLESS (V-8100)	LIT-8101: LEVEL TRANSMITTER, ROSEMOUNT 5301HA1P1N4AE00300ACE5M1T1 Q8	EA	1
245			LSHH-8102: LEVEL SWITCH, MAGTECH MLS-3EX-MAZZZS1C1E8	EA	1
246			LSL-8103: LEVEL SWITCH, MAGTECH MLS-3EX-MAZZZS1C1E8	EA	1
247			LG-8104: LEVEL GAUGE, MAGTECH 9935B3ACZ3AS4E018006ACADL8 BSQ8B2B	EA	1
248			PI-8105: PRESSURE GAUGE, ASHCROFT 45-1279-S-SL-04L-XSG / 2000	EA	1
249			DPIT-8100: DIFF PRESSURE TRANSMITTER, ROSEMOUNT 3051S2CD3A2A11A1AE5M5Q4Q8 TI	EA	1
250			TI-8106: THERMOMETER, ASHCROFT 50EL42E060 YW	EA	1
251			TW-8106: THERMOWELL, ASHCROFT 10W 0450HT260S	EA	1
252			LCV-8101: CONTROL VALVE, FISHER D4 / DVC6200	EA	1
253			SVO-8101: SOLENOID, ASCO EF8320G176	EA	1
254		Purchased By PEERLESS (V-8300)	PSV-8300: PRESSURE SAFETY VALVE, AGCO 83S1M88-8	EA	1
255			LIT-8301: LEVEL TRANSMITTER, ROSEMOUNT 5301HA1P1N4AE00300ACE5M1T1 Q8	EA	1
256			LSHH-8302: LEVEL SWITCH, MAGTECH MLS-3EX-MAZZZS1C1E8	EA	1
257			LSL-8303: LEVEL SWITCH, MAGTECH MLS-3EX-MAZZZS1C1E8	EA	1
258			LG-8304: LEVEL GAUGE, MAGTECH 9935B3ACZ3AS4E018006ACADL8 BSQ8B2B	EA	1
259			PI-8305: PRESSURE GAUGE, ASHCROFT 45-1279-S-SL-04L-XSG / 2000 PSIG	EA	1

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260			DPIT-8300: DIFF PRESSURE TRANSMITTER, ROSEMOUNT 3051S2CD3A2A11A1AE5M5Q4Q8 TI	EA	1
261			TI-8306: THERMOMETER, ASHCROFT 50EL42E060 YW	EA	1
262			TW-8306: THERMOWELL, ASHCROFT 10W 0450HT260S	EA	1
263			LCV-8301: CONTROL VALVE, FISHER D4 / DVC6200	EA	1
264			SVO-8301: SOLENOID, ASCO EF8320G176	EA	1
265			BV-0801: ON-OFF VALVE, T.R.P. TBC	EA	1
266			SVC-0801: SOLENOID, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1
267			SVO-0801: SOLENOID, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1
268			ZSC-0801: LIMIT SWITCH, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1
269			ZSO-0801: LIMIT SWITCH, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1
270			BV-0806: ON-OFF VALVE, EMERSON TBC (IDD 05-04) & (IDD 05-07)	EA	1
271			SVO-0806: SOLENOID, PETER PAUL E24HJ9ZCCM, ASSEMBLED WITH VALVE	EA	1
272			ZSC-0806: LIMIT SWITCH, TOPWORKS DXP-L41GNEB, ASSEMBLED WITH VALVE	EA	1
273			ZSO-0806: LIMIT SWITCH, TOPWORKS DXP-L41GNEB, ASSEMBLED WITH VALVE	EA	1
274			RO-0806: RESTRICTION ORIFICE, ROSEMOUNT 1495PG020A6SA01000BCW R3FL Q8	EA	1
275			BV-0802: ON-OFF VALVE, T.R.P. TBC	EA	1
276			SVC-0802: SOLENOID, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1
277			SVO-0802: SOLENOID, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1
278			ZSC-0802: LIMIT SWITCH, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1
279			ZSO-0802: LIMIT SWITCH, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1
280			BV-0803: ON-OFF VALVE, T.R.P. TBC	EA	1
281			SVC-0803: SOLENOID, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1
282			SVO-0803: SOLENOID, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1
283			ZSC-0803: LIMIT SWITCH, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1
284			ZSO-0803: LIMIT SWITCH, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1
285			RO-0801: RESTRICTION ORIFICE, ROSEMOUNT 1495PG020A6SA00250BCW R3FL Q8	EA	1
286			RO-0803: RESTRICTION ORIFICE, ROSEMOUNT 1495PG020A6SA00250BCW R3FL Q8	EA	1
287			RO-0804: RESTRICTION ORIFICE, ROSEMOUNT 1495UC020RFSC00250BCW R3PH FLQ8	EA	1
288			RO-0805: RESTRICTION ORIFICE, ROSEMOUNT 1495UC020RFSC00250BCW R3PH FLQ8	EA	1
289			BV-0804: ON-OFF VALVE, DELTA TBC	EA	1
290			SVC-0804: SOLENOID, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1
291			SVO-0804: SOLENOID, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1
292			ZSC-0804: LIMIT SWITCH, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1
293			ZSO-0804: LIMIT SWITCH, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1
294			BV-0805: ON-OFF VALVE, DELTA TBC	EA	1
295			SVC-0805: SOLENOID, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1
296			SVO-0805: SOLENOID, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1
297			ZSC-0805: LIMIT SWITCH, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1
298			ZSO-0805: LIMIT SWITCH, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1
299			BPV-0807: ON-OFF VALVE, DELTA TBC	EA	1
300			SVC-0807: SOLENOID, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1
301			SVO-0807: SOLENOID, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1
302			ZSC-0807: LIMIT SWITCH, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1
303			ZSO-0807: LIMIT SWITCH, SHAFER TBC, ASSEMBLED WITH VALVE	EA	1
304			BDV-0808: ON-OFF VALVE, EMERSON TBC (IDD 05-04) & (IDD 05-07)	EA	1
305			SVC-0808: SOLENOID, PETER PAUL E24HJ9ZCCM, ASSEMBLED WITH VALVE	EA	1
306			ZSC-0808: LIMIT SWITCH, TOPWORKS DXP-L41GNEB, ASSEMBLED WITH VALVE	EA	1
307			ZSO-0808: LIMIT SWITCH, TOPWORKS DXP-L41GNEB, ASSEMBLED WITH VALVE	EA	1

MATERIAL LIST

Prepared for: Kinder Morgan NGPL-Compressor Station 388 HP Addition afe-238039
Project ID: 14052026
Scope: Electrical & Instruments

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
308		Purchased By KM	BPV-0809: ON-OFF VALVE, EMERSON TBC (IDD 05-04) & (IDD 05-07)	EA	1
309			SVO-0809: SOLENOID, PETER PAUL E24HJ9ZCCM, ASSEMBLED WITH VALVE	EA	1
310			ZSC-0809: LIMIT SWITCH, TOPWORKS DXP-L41GNEB, ASSEMBLED WITH VALVE	EA	1
311			ZSO-0809: LIMIT SWITCH, TOPWORKS DXP-L41GNEB, ASSEMBLED WITH VALVE	EA	1
312			BDV-0810: ON-OFF VALVE, EMERSON TBC (IDD 05-04) & (IDD 05-07)	EA	1
313			SVC-0810: SOLENOID, PETER PAUL E24HJ9ZCCM, ASSEMBLED WITH VALVE	EA	1
314			ZSC-0810: LIMIT SWITCH, TOPWORKS DXP-L41GNEB, ASSEMBLED WITH VALVE	EA	1
315			ZSO-0810: LIMIT SWITCH, TOPWORKS DXP-L41GNEB, ASSEMBLED WITH VALVE	EA	1
316			BDV-0811: ON-OFF VALVE, EMERSON TBC (IDD 05-04) & (IDD 05-07)	EA	1
317			SVC-0811: SOLENOID, PETER PAUL E24HJ9ZCCM, ASSEMBLED WITH VALVE	EA	1
318			ZSC-0811: LIMIT SWITCH, TOPWORKS DXP-L41GNEB, ASSEMBLED WITH VALVE	EA	1
319			ZSO-0811: LIMIT SWITCH, TOPWORKS DXP-L41GNEB, ASSEMBLED WITH VALVE	EA	1
320			PIT-0802: PRESSURE TRANSMITTER, ROSEMOUNT 3051S2TG4A2A11A1ADA2B4E5L1 M5Q4Q8T1HR7(By KM Installed By388-50-E167 (IDD 01-06) 388-50-E167 (IDD 07-03)	EA	1
321			PIT-0803: PRESSURE TRANSMITTER, ROSEMOUNT 3051S2TG4A2A11A1ADA2B4E5L1 M5Q4Q8T1HR7(By KM Installed By388-50-E167 (IDD 01-06) 388-50-E167 (IDD 07-03)	EA	1
322			PIT-0804: PRESSURE TRANSMITTER, ROSEMOUNT 3051S2TG4A2A11A1ADA2B4E5L1 M5Q4Q8T1HR7(By KM Installed By388-50-E167 (IDD 01-06) 388-50-E167 (IDD 07-03)	EA	1
323			PIT-0805: PRESSURE TRANSMITTER, ROSEMOUNT 3051S2TG3A2A11A1ADA2B4E5L1 M5Q4Q8T1HR7(By KM Installed By388-50-E167 (IDD 01-06) 388-50-E167 (IDD 07-03)	EA	1
324			PIT-0806: PRESSURE TRANSMITTER, ROSEMOUNT 3051S2TG3A2A11A1ADA2B4E5L1 M5Q4Q8T1HR7(By KM Installed By388-50-E167 (IDD 01-06) 388-50-E167 (IDD 07-03)	EA	1
325			PIT-0808: PRESSURE TRANSMITTER, ROSEMOUNT 3051S2TG4A2A11A1ADA2B4E5L1 M5Q4Q8T1HR7(By KM Installed By388-50-E167 (IDD 01-06) 388-50-E167 (IDD 07-03)	EA	1
326			PIT-0809: PRESSURE TRANSMITTER, ROSEMOUNT 3051S2TG4A2A11A1ADA2B4E5L1 M5Q4Q8T1HR7(By KM Installed By388-50-E167 (IDD 01-06) 388-50-E167 (IDD 07-03)	EA	1
327			PIT-0810: PRESSURE TRANSMITTER, ROSEMOUNT 3051S2TG4A2A11A1ADA2B4E5L1 M5Q4Q8T1HR7(By KM Installed By388-50-E167 (IDD 01-06) 388-50-E167 (IDD 07-03)	EA	1
328			PIT-0814: PRESSURE TRANSMITTER, ROSEMOUNT 3051S2TG4A2A11A1ADA2B4E5L1 M5Q4Q8T1HR7(By KM Installed By388-50-E167 (IDD 01-06) 388-50-E167 (IDD 07-03)	EA	1
329			PSHH-0803: PRESSURE SWITCH, NEO-DYN 231P46CC6(By KM Installed By388-50-E167 (IDD 01-06) 388-50-E167 (IDD 07-03)	EA	1
330			PSHH-0804: PRESSURE SWITCH, NEO-DYN 231P45CC6(By KM Installed By388-50-E167 (IDD 01-06) 388-50-E167 (IDD 07-03)	EA	1
331			PI-0801: PRESSURE GAUGE, ASHCROFT 451279SSL04LXNHSG4000#(By KM Installed By388-50-E167 (IDD 01-08)	EA	1
332			PI-0802: PRESSURE GAUGE, ASHCROFT 451279SSL04LXNHSG2000#(By KM Installed By388-50-E167 (IDD 01-08)	EA	1
333			PI-0812: PRESSURE GAUGE, ASHCROFT 451279SSL04LXNHSG4000#(By KM Installed By388-50-E167 (IDD 01-08)	EA	1
334			PI-0813: PRESSURE GAUGE, ASHCROFT 451279SSL04LXNHSG2000#(By KM Installed By388-50-E167 (IDD 01-08)	EA	1
335			PSV-8100: PRESSURE SAFETY VALVE, TBC TBC	EA	1
336			PSV-8005: PRESSURE SAFETY VALVE, TBC TBC	EA	1
337			PSV-8006: PRESSURE SAFETY VALVE, TBC TBC	EA	1

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SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
338		Purchased By Kingtool (V-8200)	LIT-8201: LEVEL TRANSMITTER, ROSEMOUNT 9930074BAE1E02475SD1FBH0SB 8AZB8AZF01200C0ZZ	EA	1
339			LSHH-8202: LEVEL SWITCH, ROSEMOUNT MLS3EX-MAZZZS1C1E8	EA	1
340			LSL-8203: LEVEL SWITCH, ROSEMOUNT MLS3EX-MAZZZS1C1E8(By KINGTOOL (V-8200) Installed ByTBC	EA	1
341			LG-8204: LEVEL GAUGE, ROSEMOUNT 9930085BAF1E02475SD1FBH0SB 8AZB8AZF01200C0ZZ	EA	1
342			PI-8205: PRESSURE GAUGE, ASHCROFT 45-1009-S-L-04-B-2000	EA	1
343			TI-8206: THERMOMETER, ASHCROFT 50-EI-60E-040	EA	1
344			TW-8206: THERMOWELL, ASHCROFT 10W 0250 HT 260 C	EA	1
345			LCV-8201: CONTROL VALVE, FISHER D4 / DVC6200	EA	1
346			SVO-8201: SOLENOID, ASCO 535-1510566	EA	1
347			PRV-8201: PRESSURE REGULATOR, FISHER 67CFR	EA	1
348			PSV-8200: PRESSURE SAFETY VALVE, AGCO 83S1M88-6	EA	1
349		Purchased By Kingtool (V-8400)	LIT-8401: LEVEL TRANSMITTER, ROSEMOUNT 9930085BAF1E02475SD1FBH0SB 8AZB8AZF01200C0ZZ	EA	1
350			LSHH-8402: LEVEL SWITCH, ROSEMOUNT MLS3EX-MAZZZS1C1E8	EA	1
351			LSL-8403: LEVEL SWITCH, ROSEMOUNT MLS3EX-MAZZZS1C1E8	EA	1
352			LG-8404: LEVEL GAUGE, ROSEMOUNT 9930085BAF1E02475SD1FBH0SB 8AZB8AZF01200C0ZZ	EA	1
353			PI-8405: PRESSURE GAUGE, ASHCROFT 45-1009-S-L-04-B-3000	EA	1
354			TI-8406: THERMOMETER, ASHCROFT 50-EI-60E-040	EA	1
355			TW-8406: THERMOWELL, ASHCROFT 10W 0250 HT 260 C	EA	1
356			LCV-8401: CONTROL VALVE, FISHER D4 / DVC6200	EA	1
357			SVO-8401: SOLENOID, ASCO 535-1510566	EA	1
358			PRV-8401: PRESSURE REGULATOR, FISHER 67CFR	EA	1
359			PSV-8400: PRESSURE SAFETY VALVE, AGCO 83S1M88-6	EA	1
360		Purchased By KM	TE-0811: TEMPERATURE ELEMENT (RTD), ROSEMOUNT 214CRHSMB1S3E0087SLE5AT1C 3B1WDV20Q4XW(By KM Installed By388-50-E167 (IDD 02-04) 388-50-E169 (IDD 07-03)	EA	1
361			TW-0811: THERMOWELL, ROSEMOUNT 114CE0070TAB2SC017AQ8R21X W(By KM Installed By388-50-E167 (IDD 02-04)	EA	1
362			TE-0812: TEMPERATURE ELEMENT (RTD), ROSEMOUNT 214CRHSMB1S3E0077SLE5AT1C 3B1WDV20Q4XW(By KM Installed By388-50-E167 (IDD 02-04) 388-50-E169 (IDD 07-03)	EA	1
363			TW-0812: THERMOWELL, ROSEMOUNT 114CE0060TAB2SC017AQ8R21X W(By KM Installed By388-50-E167 (IDD 02-04)	EA	1
364		Purchased By TEK-FINS (GAS COOLER)	VT-8110: VIBRATION TRANSMITTER, METRIX VIBRATION ST548E-121-020-00	EA	1
365			VT-8120: VIBRATION TRANSMITTER, METRIX VIBRATION ST548E-121-020-00	EA	1
366			VT-8210: VIBRATION TRANSMITTER, METRIX VIBRATION ST548E-121-020-00	EA	1
367			VT-8220: VIBRATION TRANSMITTER, METRIX VIBRATION ST548E-121-020-00	EA	1
368			VT-8310: VIBRATION TRANSMITTER, METRIX VIBRATION ST548E-121-020-00	EA	1
369			VT-8320: VIBRATION TRANSMITTER, METRIX VIBRATION ST548E-121-020-00	EA	1
370			VT-8410: VIBRATION TRANSMITTER, METRIX VIBRATION ST548E-121-020-00	EA	1
371			VT-8420: VIBRATION TRANSMITTER, METRIX VIBRATION ST548E-121-020-00	EA	1
372		Purchased By KM	HS-8110: HAND SWITCH, TBC TBC	EA	1
373			HS-8120: HAND SWITCH, TBC TBC	EA	1
374			HS-8210: HAND SWITCH, TBC TBC	EA	1
375			HS-8220: HAND SWITCH, TBC TBC	EA	1
376			HS-8310: HAND SWITCH, TBC TBC	EA	1
377			HS-8320: HAND SWITCH, TBC TBC	EA	1
378			HS-8410: HAND SWITCH, TBC TBC	EA	1
379			HS-8420: HAND SWITCH, TBC TBC	EA	1
380		Purchased By SILENCER VENDOR	RO-8600: RESTRICTION ORIFICE, TBC TBC	EA	1
381		Purchased By KM	LIT-8801: LEVEL TRANSMITTER, TBC TBC	EA	1
382			LSH-8802: LEVEL SWITCH, TBC TBC	EA	1
383			LSL-8802: LEVEL SWITCH, TBC TBC	EA	1
384			LG-8803: LEVEL GAUGE, TBC TBC	EA	1
385			TI-8805: THERMOMETER, TBC TBC	EA	1
386			TW-8805: THERMOWELL, TBC TBC	EA	1
387			PSV-8807: PRESSURE SAFETY VALVE, TBC TBC	EA	1
388			DPIT-8804: DIFF PRESSURE TRANSMITTER, ROSEMOUNT 3051CD3A02A1AS5E5M5Q4Q8T1 HR7(By KM Installed By388-50-E167 (IDD 01-04) 388-50-E167 (IDD 07-03)	EA	1
389		Purchased By SIEMENS (COMP	PSV-8501: PRESSURE SAFETY VALVE, TBC TBC	EA	1
390			TCV-137: CONTROL VALVE, AMOT 3BOCF13001	EA	1

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+1 708-381-0900

Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
391		#8 UNIT)	VT-8500: VIBRATION TRANSMITTER, TBC TBC	EA	1
392		Purchased By KM	HS-8500: HAND SWITCH, TBC TBC	EA	1
393			HS-1040: HAND SWITCH, TBC TBC	EA	1
394		Purchased By SIEMENS (LUBE OIL SKID)	TI-271: THERMOMETER, ROSEMOUNT 214CRW SMB1S4E0037SLAT1C3B 1XW	EA	1
395			TW-271: THERMOWELL, ROSEMOUNT 114CE0020TAC1SF017AQ8XW	EA	1
396		Purchased By SIEMENS (COMP #8 UNIT)	PI-218: PRESSURE GAUGE, TBC TBC	EA	1
397			PIT-223: PRESSURE TRANSMITTER, TBC 2051TG2A2B21AB4E5	EA	1
398			FG-211: FLOW GAUGE, JACOB TARBOX 300-S	EA	1
399			TI-212: THERMOMETER, ASHCROFT 50EI60E060XNNSG0/250F	EA	1
400			TW-212: THERMOWELL, ALLOY ENGINEERING 1.00"-260S-U2-1/2"	EA	1
401			FG-214: FLOW GAUGE, TBC TBC	EA	1
402			TI-215: THERMOMETER, TBC TBC	EA	1
403			TW-215: THERMOWELL, TBC TBC	EA	1
404			FG-231: FLOW GAUGE, JACOB TARBOX 300-S	EA	1
405			TI-232: THERMOMETER, ASHCROFT 50EI60E060XNNSG0/250F	EA	1
406			TW-232: THERMOWELL, ALLOY ENGINEERING 1.00"-260S-U2-1/2"	EA	1
407			FG-234: FLOW GAUGE, TBC TBC	EA	1
408			TI-235: THERMOMETER, TBC TBC	EA	1
409			TW-235: THERMOWELL, TBC TBC	EA	1
410			FG-251: FLOW GAUGE, JACOB TARBOX 300-S	EA	1
411			TI-252: THERMOMETER, ASHCROFT 50EI60E060XNNSG0/250F	EA	1
412			TW-252: THERMOWELL, ALLOY ENGINEERING 1.00"-260S-U2-1/2"	EA	1
413			FG-254: FLOW GAUGE, TBC TBC	EA	1
414			TI-255: THERMOMETER, TBC TBC	EA	1
415			TW-255: THERMOWELL, TBC TBC	EA	1
416			FG-221: FLOW GAUGE, JACOB TARBOX 300-S	EA	1
417			TI-222: THERMOMETER, ASHCROFT 50EI60E060XNNSG0/250F	EA	1
418			TW-222: THERMOWELL, ALLOY ENGINEERING 1.00"-260S-U2-1/2"	EA	1
419			FG-224: FLOW GAUGE, TBC TBC	EA	1
420			TI-225: THERMOMETER, TBC TBC	EA	1
421			TW-225: THERMOWELL, TBC TBC	EA	1
422			FG-241: FLOW GAUGE, JACOB TARBOX 300-S	EA	1
423			TI-242: THERMOMETER, ASHCROFT 50EI60E060XNNSG0/250F	EA	1
424			TW-242: THERMOWELL, ALLOY ENGINEERING 1.00"-260S-U2-1/2"	EA	1
425			FG-244: FLOW GAUGE, TBC TBC	EA	1
426			TI-245: THERMOMETER, TBC TBC	EA	1
427			TW-245: THERMOWELL, TBC TBC	EA	1
428			FG-261: FLOW GAUGE, JACOB TARBOX 300-S	EA	1
429			TI-262: THERMOMETER, ASHCROFT 50EI60E060XNNSG0/250F	EA	1
430			TW-262A: THERMOWELL, ALLOY ENGINEERING 1.00"-260S-U2-1/2"	EA	1
431			FG-264: FLOW GAUGE, TBC TBC	EA	1
432			TI-265: THERMOMETER, TBC TBC	EA	1
433			TW-2625: THERMOWELL, TBC TBC	EA	1
434			TE-537: TEMPERATURE ELEMENT (RTD), TBC TBC	EA	1
435			VT-546: VIBRATION TRANSMITTER, METRIX VIBRATION ST5484E-152-0412-22	EA	1
436			TE-501: TEMPERATURE ELEMENT (RTD), MOTOR VENDOR TBC	EA	1
437			TE-502: TEMPERATURE ELEMENT (RTD), MOTOR VENDOR TBC	EA	1
438			TE-503: TEMPERATURE ELEMENT (RTD), MOTOR VENDOR TBC	EA	1
439			TE-504: TEMPERATURE ELEMENT (RTD), MOTOR VENDOR TBC	EA	1
440			TE-505: TEMPERATURE ELEMENT (RTD), MOTOR VENDOR TBC	EA	1
441			TE-506: TEMPERATURE ELEMENT (RTD), MOTOR VENDOR TBC	EA	1
442			TE-507: TEMPERATURE ELEMENT (RTD), MOTOR VENDOR TBC	EA	1
443			TE-508: TEMPERATURE ELEMENT (RTD), MOTOR VENDOR TBC	EA	1
444			TE-509: TEMPERATURE ELEMENT (RTD), MOTOR VENDOR TBC	EA	1
445			ZS-120: LIMIT SWITCH, MICRO SWITCH 16CX2C / LSZ55C	EA	1
446			ZS-119: LIMIT SWITCH, MICRO SWITCH 16CX2C / LSZ51A	EA	1
447			TE-311: TEMPERATURE ELEMENT (RTD), CONAX 10-1287-1	EA	1
448			TE-312: TEMPERATURE ELEMENT (RTD), CONAX 10-1287-1	EA	1
449			TE-313: TEMPERATURE ELEMENT (RTD), CONAX 10-1287-1	EA	1
450			TE-314: TEMPERATURE ELEMENT (RTD), CONAX 10-1287-1	EA	1
451			TE-315: TEMPERATURE ELEMENT (RTD), CONAX 10-1287-1	EA	1
452			TE-316: TEMPERATURE ELEMENT (RTD), CONAX 10-1287-1	EA	1
453			TE-317: TEMPERATURE ELEMENT (RTD), CONAX 10-1287-1	EA	1

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SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
454			TE-318: TEMPERATURE ELEMENT (RTD), CONAX 10-1287-1	EA	1
455			TE-319: TEMPERATURE ELEMENT (RTD), CONAX 10-1287-1	EA	1
456			TE-320: TEMPERATURE ELEMENT (RTD), CONAX 10-1287-1	EA	1
457			VT-321: VIBRATION TRANSMITTER, TBC TBC	EA	1
458			VT-322: VIBRATION TRANSMITTER, TBC TBC	EA	1
459			TC-102: HEATER CONTROLLER, CALORITECH CXST 12091-15	EA	1
460			LG-107: LEVEL GAUGE, LOWELL TBC	EA	1
461			140F-	EA	1
462			LSL-106: LEVEL SWITCH, TBC TBC	EA	1
463			PRV-156: PRESSURE SAFETY VALVE, FULFLO VJ-7RV	EA	1
464			PI-121: PRESSURE GAUGE, ASHCROFT 045-1279SSL-04L-XGV SG	EA	1
465			PIT-122: PRESSURE TRANSMITTER, ROSEMOUNT 3051CG4A22A1AS5K5M5Q4QTAQ 8V5HR70229	EA	1
466			PIT-123: PRESSURE TRANSMITTER, ROSEMOUNT 3051CG4A22A1AS5K5M5Q4QTAQ 8V5HR70229	EA	1
467			PSE-301: PRESSURE RELIEF VALVE, BICERA Size 10RD	EA	1
468			PSE-303: PRESSURE RELIEF VALVE, BICERA Size 10RD	EA	1
469			PSE-305: PRESSURE RELIEF VALVE, BICERA Size 10RD	EA	1
470			PSE-302: PRESSURE RELIEF VALVE, BICERA Size 10RD	EA	1
471			PSE-304: PRESSURE RELIEF VALVE, BICERA Size 10RD	EA	1
472			PSE-306: PRESSURE RELIEF VALVE, BICERA Size 10RD	EA	1
473			VT-331: VIBRATION TRANSMITTER, TBC TBC	EA	1
474			VT-332: VIBRATION TRANSMITTER, TBC TBC	EA	1
475			VT-333: VIBRATION TRANSMITTER, TBC TBC	EA	1
476			VT-334: VIBRATION TRANSMITTER, TBC TBC	EA	1
477			VT-335: VIBRATION TRANSMITTER, TBC TBC	EA	1
478			VT-336: VIBRATION TRANSMITTER, TBC TBC	EA	1
479			PDIT-239: DIFF PRESSURE TRANSMITTER, ROSEMOUNT 2051CD4A22A1AE5B4	EA	1
480			PDI-240: DIFF PRESSURE GAUGE, ORANGE RESEARCH 1201PG-1C-4.5-F	EA	1
481			FO-153: RESTRICTION ORIFICE, MAC WELD TBC	EA	1
482			TE-268: TEMPERATURE ELEMENT (RTD), ROSEMOUNT 214CRW SMB1S4E0037SLAT1C3B 1XW	EA	1
483		**Purchased By SIEMENS (LUBE OIL SKID)**	TW-268: THERMOWELL, ROSEMOUNT 114CE0020TAC1SF017AQ8XW	EA	1
484			TI-270: THERMOMETER, ASHCROFT 50EL60E025/250FXC4	EA	1
485			TW-270: THERMOWELL, ASHCROFT 75W 01622SM260C	EA	1
486			TE-269: TEMPERATURE ELEMENT (RTD), ROSEMOUNT 214CRW SMB1S4E0037SLAT1C3B 1XW	EA	1
487			TW-269: THERMOWELL, ROSEMOUNT 114CE0020TAC1SF017AQ8XW	EA	1
488			TCV-138: CONTROL VALVE, AMOT 3BOSJ14001	EA	1
489			TE-267: TEMPERATURE ELEMENT (RTD), ROSEMOUNT 214CRW SMB1S4E0037SLAT1C3B 1XW	EA	1
490			TW-267: THERMOWELL, ROSEMOUNT 114CE0020TAC1SF017AQ8XW	EA	1
491			FO-154: RESTRICTION ORIFICE, SWAGELOK SS-810-1-8PD-.063	EA	1
492			PIT-711: PRESSURE TRANSMITTER, ROSEMOUNT 3051CG4A22A1AS5K5M5Q4QTAQ 8V5HR70229	EA	1
493		**Purchased By SIEMENS (COMP #8 UNIT)**	PIT-713: PRESSURE TRANSMITTER, ROSEMOUNT 3051CG4A22A1AS5K5M5Q4QTAQ 8V5HR70229	EA	1
494			PIT-721: PRESSURE TRANSMITTER, ROSEMOUNT 3051CG4A22A1AS5K5M5Q4QTAQ 8V5HR70229	EA	1
495			PIT-723: PRESSURE TRANSMITTER, ROSEMOUNT 3051CG4A22A1AS5K5M5Q4QTAQ 8V5HR70229	EA	1
496			PI-219: PRESSURE GAUGE, ASHCROFT 451279RSL04BXSG160#	EA	1
497		**Purchased By SIEMENS (LUBE OIL SKID)**	PIT-224: PRESSURE TRANSMITTER, ROSEMOUNT 2051TG2A2B21AB4E5M4	EA	1
498			PRV-115: PRESSURE SAFETY VALVE, FULFLO FVSF-8R/SS/WS	EA	1
499			HS-308: HAND SWITCH, TBC TBC	EA	1
500		**Purchased By SIEMENS (COMP #8 UNIT)**	MDG-8060: METAL DETECTOR, TBC TBC	EA	1
501		**Purchased By KM**	PIT-8700: PRESSURE TRANSMITTER, ROSEMOUNT 3051S2TG3A2A11A1ADA2B4E5L1 M5Q4Q8T1HR7(By KM Installed By388-50-E167 (IDD 01-06) 388-50-E167 (IDD 07-03)	EA	1
502		**Purchased By F-8700 VENDOR**	PDI-8700A: DIFF PRESSURE GAUGE, TBC TBC	EA	1
503			PDI-8700B: DIFF PRESSURE GAUGE, TBC TBC	EA	1
504		**Purchased By SIVALL (V-8100IA)**	PSV-8101: PRESSURE SAFETY VALVE, TBC TBC	EA	1
505		**Purchased By KM**	PI-8102: PRESSURE GAUGE, ASHCROFT 451279SSL04LXNHSG300#(By KM Installed By388-50-E167 (IDD 01-08)	EA	1
506		**Purchased By T-8200 VENDOR**	LIT-8200: LEVEL TRANSMITTER, MAGNETROL TBC	EA	1
507			SVO-8200: SOLENOID, TBC TBC	EA	1

MATERIAL LIST

Prepared for: Kinder Morgan NGPL-Compressor Station 388 HP Addition afe-238039
Project ID: 14052026
Scope: Electrical & Instruments

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
508		8200 VENDOR	PRV-8200: PRESSURE REGULATOR, TBC TBC	EA	1
509		Purchased By SIEMENS (LUBRICATOR SKID)	PI-332: PRESSURE GAUGE, TBC TBC	EA	1
510			PI-336: PRESSURE GAUGE, TBC TBC	EA	1
511			RD-334: RUPTURE DISC, TBC TBC	EA	1
512			RD-335: RUPTURE DISC, TBC TBC	EA	1
513			FS-333: FLOW SWITCH, TBC TBC	EA	1
514			FS-309: FLOW SWITCH, TBC TBC	EA	1
515			HS-303: HAND SWITCH, TBC TBC	EA	1
516		Purchased By SIEMENS (COMP #8 UNIT)	TE-118: THERMOCOUPLE, EXLINE W 139165AF	EA	1
517			XE-116: POSITION SENSOR, EXLINE 313509	EA	1
518			TSHH-127: TEMPERATURE SWITCH, AMOT 4395BA01B0	EA	1
519			TD-103: TEMPERATURE DETECTOR, AMOT &4102D15C16197	EA	1
520			TSHH-135: TEMPERATURE SWITCH, AMOT 4395BA01B0	EA	1
521			TD-119: TEMPERATURE DETECTOR, AMOT 4102D12C13197	EA	1
522			TE-120: THERMOCOUPLE, EXLINE W 139165AF	EA	1
523			XE-118: POSITION SENSOR, EXLINE 313509	EA	1
524			TSHH-129: TEMPERATURE SWITCH, AMOT 4395BA01B0	EA	1
525			TD-107: TEMPERATURE DETECTOR, AMOT &4102D15C16197	EA	1
526			TSHH-137: TEMPERATURE SWITCH, AMOT 4395BA01B0	EA	1
527			TD-121: TEMPERATURE DETECTOR, AMOT 4102D12C13197	EA	1
528			TE-122: THERMOCOUPLE, EXLINE W 139165AF	EA	1
529			XE-120: POSITION SENSOR, EXLINE 313509	EA	1
530			TSHH-131: TEMPERATURE SWITCH, AMOT 4395BA01B0	EA	1
531			TD-111: TEMPERATURE DETECTOR, AMOT &4102D15C16197	EA	1
532			TSHH-139: TEMPERATURE SWITCH, AMOT 4395BA01B0	EA	1
533			TD-123: TEMPERATURE DETECTOR, AMOT 4102D12C13197	EA	1
534			TE-119: THERMOCOUPLE, EXLINE W 139165AF	EA	1
535			XE-117: POSITION SENSOR, EXLINE 313509	EA	1
536			TSHH-128: TEMPERATURE SWITCH, AMOT 4395BA01B0	EA	1
537			TD-105: TEMPERATURE DETECTOR, AMOT &4102D15C16197	EA	1
538			TSHH-136: TEMPERATURE SWITCH, AMOT 4395BA01B0	EA	1
539			TD-120: TEMPERATURE DETECTOR, AMOT 4102D12C13197	EA	1
540			TE-121: THERMOCOUPLE, EXLINE W 139165AF	EA	1
541			XE-119: POSITION SENSOR, EXLINE 313509	EA	1
542			TSHH-130: TEMPERATURE SWITCH, AMOT 4395BA01B0	EA	1
543			TD-110: TEMPERATURE DETECTOR, AMOT &4102D15C16197	EA	1
544			TSHH-138: TEMPERATURE SWITCH, AMOT 4395BA01B0	EA	1
545			TD-122: TEMPERATURE DETECTOR, AMOT 4102D12C13197	EA	1
546			TE-123: THERMOCOUPLE, EXLINE W 139165AF	EA	1
547			XE-121: POSITION SENSOR, EXLINE 313509	EA	1
548			TSHH-132: TEMPERATURE SWITCH, AMOT 4395BA01B0	EA	1
549			TD-113: TEMPERATURE DETECTOR, AMOT &4102D15C16197	EA	1
550			TSHH-140: TEMPERATURE SWITCH, AMOT 4395BA01B0	EA	1
551			TD-124: TEMPERATURE DETECTOR, AMOT 4102D12C13197	EA	1
552		Purchased By SIEMENS (UCP-8)	SVC-101: SOLENOID, ASCO EV8316G381V	EA	1
553			PS-121: PRESSURE SWITCH, NEO-DYN 132P49CC8	EA	1
554			SVC-102: SOLENOID, ASCO EV8316G381V	EA	1
555			PS-122: PRESSURE SWITCH, NEO-DYN 132P49CC8	EA	1
556			SVC-103: SOLENOID, ASCO EV8316G381V	EA	1
557			PS-123: PRESSURE SWITCH, NEO-DYN 132P49CC8	EA	1
558			SVC-104: SOLENOID, ASCO EV8316G381V	EA	1
559			PS-124: PRESSURE SWITCH, NEO-DYN 132P49CC8	EA	1
560			SOV-105: SOLENOID, ASCO EV8316G381V	EA	1
561			PS-125: PRESSURE SWITCH, NEO-DYN 132P49CC8	EA	1
562			SOV-106: SOLENOID, ASCO EV8316G381V	EA	1
563			PS-126: PRESSURE SWITCH, NEO-DYN 132P49CC8	EA	1
564			SOV-107: SOLENOID, ASCO EV8316G381V	EA	1
565			PS-127: PRESSURE SWITCH, NEO-DYN 132P49CC8	EA	1
566			SOV-108: SOLENOID, ASCO EV8316G381V	EA	1
567			PS-128: PRESSURE SWITCH, NEO-DYN 132P49CC8	EA	1
568			SOV-109: SOLENOID, ASCO EV8316G381V	EA	1
569			PS-129: PRESSURE SWITCH, NEO-DYN 132P49CC8	EA	1
570			SOV-110: SOLENOID, ASCO EV8316G381V	EA	1
571			PS-130: PRESSURE SWITCH, NEO-DYN 132P49CC8	EA	1
572			SOV-111: SOLENOID, ASCO EV8316G381V	EA	1
573			PS-131: PRESSURE SWITCH, NEO-DYN 132P49CC8	EA	1
574			SOV-112: SOLENOID, ASCO EV8316G381V	EA	1
575			PS-132: PRESSURE SWITCH, NEO-DYN 132P49CC8	EA	1
576			SOV-113: SOLENOID, ASCO EV8316G381V	EA	1
577			PS-133: PRESSURE SWITCH, NEO-DYN 132P49CC8	EA	1
578			SOV-114: SOLENOID, ASCO EV8316G381V	EA	1
579			PS-134: PRESSURE SWITCH, NEO-DYN 132P49CC8	EA	1
580			SOV-115: SOLENOID, ASCO EV8316G381V	EA	1
581			PS-135: PRESSURE SWITCH, NEO-DYN 132P49CC8	EA	1
582			BT-8001: FLAME DETECTOR, MSA FL500-3-5-2-3-1-1-1-1(By KM Installed By388-50-E169 (IDD 07-03) 388-50-E169 (IDD 06-06)	EA	1
583			BT-8002: FLAME DETECTOR, MSA FL500-3-5-2-3-1-1-1-1(By KM Installed By388-50-E169 (IDD 07-03) 388-50-E169 (IDD 06-06)	EA	1

MATERIAL LIST

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Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
584		Purchased By KM	BT-8003: FLAME DETECTOR, MSA FL500-3-5-2-3-1-1-1-1(By KM Installed By388-50-E169 (IDD 07-03) 388-50-E169 (IDD 06-06)	EA	1
585			BT-8004: FLAME DETECTOR, MSA FL500-3-5-2-3-1-1-1-1(By KM Installed By388-50-E169 (IDD 07-03) 388-50-E169 (IDD 06-06)	EA	1
586			BT-8005: FLAME DETECTOR, MSA FL500-3-5-2-3-1-1-1-1(By KM Installed By388-50-E169 (IDD 07-03) 388-50-E169 (IDD 06-06)	EA	1
587			BT-8006: FLAME DETECTOR, MSA FL500-3-5-2-3-1-1-1-1(By KM Installed By388-50-E169 (IDD 07-03) 388-50-E169 (IDD 06-06)	EA	1
588			GT-8001/2: GAS TRANSMITTER, MSA ULTIMA X5000 A-X5000-0M010AAAAT1(By KM Installed By388-50-E169 (IDD 06-08) 388-50-E169 (IDD 07-03)	EA	1
589			GE-8001: GAS DETECTOR, MSA A-5K-SENSAA0M10(By KM Installed By388-50-E169 (IDD 06-07) 388-50-E169 (IDD 07-03)	EA	1
590			GE-8002: GAS DETECTOR, MSA A-5K-SENSAA0M10(By KM Installed By388-50-E169 (IDD 06-07) 388-50-E169 (IDD 07-03)	EA	1
591			BSD-8001: SHUTDOWN PUSHBUTTON, TBC TBC	EA	1
592			BSD-8002: SHUTDOWN PUSHBUTTON, TBC TBC	EA	1
593			BSD-8003: SHUTDOWN PUSHBUTTON, TBC TBC	EA	1
594			BSD-8004: SHUTDOWN PUSHBUTTON, TBC TBC	EA	1
595			XS-8001: INTRUSION DETECTOR, GE SECURITY SENTROL 2845T	EA	1
596			XS-8002: INTRUSION DETECTOR, GE SECURITY SENTROL 2845T	EA	1
597			XS-8003: INTRUSION DETECTOR, GE SECURITY SENTROL 2845T	EA	1
598			XS-8004: INTRUSION DETECTOR, GE SECURITY SENTROL 2845T	EA	1
599			OA-8001: LIGHT, TBC TBC	EA	1
600			OA-8002: LIGHT, TBC TBC	EA	1
601			OA-8003: LIGHT, TBC TBC	EA	1
602			OA-8004: LIGHT, TBC TBC	EA	1
603			OA-8005: LIGHT, TBC TBC	EA	1
604			TE-8001: TEMPERATURE ELEMENT (RTD), ROSEMOUNT 214CRHSSB1S3E0060SLW R3E5A T1C3B1W DV20Q4G3(By KM Installed By388-50-E169 (IDD 07-03)	EA	1
605			TE-8002: TEMPERATURE ELEMENT (RTD), ROSEMOUNT 214CRHSSB1S3E0060SLW R3E5A T1C3B1W DV20Q4G3(By KM Installed By388-50-E169 (IDD 07-03)	EA	1
606			TE-8003: TEMPERATURE ELEMENT (RTD), ROSEMOUNT 214CRHSSB1S3E0060SLW R3E5A T1C3B1W DV20Q4G3(By KM Installed By388-50-E169 (IDD 07-03)	EA	1
607			XS-8010: HORN, TBC TBC	EA	1
608		Provided & Installed By Contractor	HS-8001: HAND SWITCH, TBC TBC	EA	1
609			HS-8002: HAND SWITCH, TBC TBC	EA	1
610			HS-8005: HAND SWITCH, TBC TBC	EA	1
611			HS-8006: HAND SWITCH, TBC TBC	EA	1
612			HS-8009: HAND SWITCH, TBC TBC	EA	1
613		Purchased By KM	VT-8009: VIBRATION TRANSMITTER, TBC TBC	EA	1
614			BT-8007: FLAME DETECTOR, MSA FL500-3-5-2-3-1-1-1-1(By KM Installed By388-50-E169 (IDD 07-03) 388-50-E169 (IDD 06-06)	EA	1
615			BT-8008: FLAME DETECTOR, MSA FL500-3-5-2-3-1-1-1-1(By KM Installed By388-50-E169 (IDD 07-03) 388-50-E169 (IDD 06-06)	EA	1
616			TE-8004: TEMPERATURE ELEMENT (RTD), ROSEMOUNT 214CRHSSB1S3E0060SLW R3E5A T1C3B1W DV20Q4G3(By KM Installed By388-50-E169 (IDD 07-03)	EA	1
617			TE-8005: TEMPERATURE ELEMENT (RTD), ROSEMOUNT 214CRHSSB1S3E0060SLW R3E5A T1C3B1W DV20Q4G3(By KM Installed By388-50-E169 (IDD 07-03)	EA	1
618			XS-8005: INTRUSION DETECTOR, GE SECURITY SENTROL 2845T	EA	1
619			XS-8006: INTRUSION DETECTOR, GE SECURITY SENTROL 2845T	EA	1
620			XS-8007: INTRUSION DETECTOR, GE SECURITY SENTROL 2845T	EA	1
621			XS-8008: INTRUSION DETECTOR, GE SECURITY SENTROL 2845T	EA	1
622			XS-8009: INTRUSION DETECTOR, GE SECURITY SENTROL 2845T	EA	1
623		Purchased By PARKER (V-8500)	PSV-8500: PRESSURE SAFETY VALVE, AGCO 84316J23/S1	EA	1
624			LIT-8501A: LEVEL TRANSMITTER, MAGNETROL 706	EA	1
625			LSH-8500A: LEVEL SWITCH, MAGNETROL TD2	EA	1
626			LSLL-8500A: LEVEL SWITCH, MAGNETROL TD2	EA	1
627			LG-8500A: LEVEL GAUGE, PENBERTHY 2RH4	EA	1
628			BV-8500A: ON-OFF VALVE, EMERSON TBC(By KM Installed By388-50-E167 (IDD 05-04) 388-50-E169 (IDD 05-07)	EA	1
629			SVO-8500A: SOLENOID, PETER PAUL E24HJ9ZCCM, ASSEMBLED WITH VALVE	EA	1

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SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
630		Purchased By KM	ZSC-8500A: LIMIT SWITCH, TOPWORKS DXP-L41GNEB, ASSEMBLED WITH VALVE	EA	1
631			ZSO-8500A: LIMIT SWITCH, TOPWORKS DXP-L41GNEB, ASSEMBLED WITH VALVE	EA	1
632			LCV-8501A: CONTROL VALVE, F.E.T / RADIUS BAP / SR040(By KM Installed By388-50-E167 (IDD 05-03) 388-50-E169 (IDD 07-03)	EA	1
633			SVO-8501A: SOLENOID, PETER PAUL E24HJ9ZCCM, ASSEMBLED WITH VALVE	EA	1
634		Purchased By PARKER (V-8500)	PI-8500: PRESSURE GAUGE, ASHCROFT 1279	EA	1
635			DPIT-8500: DIFF PRESSURE TRANSMITTER, ROSEMOUNT 3051CD	EA	1
636			TI-8500: THERMOMETER, ASHCROFT 50EI	EA	1
637			TW-8500: THERMOWELL, ASHCROFT ELL	EA	1
638			LIT-8501B: LEVEL TRANSMITTER, MAGNETROL 706	EA	1
639			LSH-8500B: LEVEL SWITCH, MAGNETROL TD2	EA	1
640			LSLL-8500B: LEVEL SWITCH, MAGNETROL TD2	EA	1
641			LG-8500B: LEVEL GAUGE, PENBERTHY 2RH4	EA	1
642		Purchased By KM	BV-8500B: ON-OFF VALVE, EMERSON TBC(By KM Installed By388-50-E167 (IDD 05-04) 388-50-E169 (IDD 05-07)	EA	1
643			SVO-8500B: SOLENOID, PETER PAUL E24HJ9ZCCM, ASSEMBLED WITH VALVE	EA	1
644			ZSC-8500B: LIMIT SWITCH, TOPWORKS DXP-L41GNEB, ASSEMBLED WITH VALVE	EA	1
645			ZSO-8500B: LIMIT SWITCH, TOPWORKS DXP-L41GNEB, ASSEMBLED WITH VALVE	EA	1
646			LCV-8501B: CONTROL VALVE, F.E.T / RADIUS BAP / SR040(By KM Installed By388-50-E167 (IDD 05-03) 388-50-E169 (IDD 07-03)	EA	1
647			SVO-8501B: SOLENOID, PETER PAUL E24HJ9ZCCM, ASSEMBLED WITH VALVE	EA	1
648			PIT-8500: PRESSURE TRANSMITTER, ROSEMOUNT 3051S2TG4A2A11A1ADA2B4E5L1 M5Q4Q8T1HR7(By KM Installed By388-50-E167 (IDD 01-06) 388-50-E167 (IDD 07-03)	EA	1
649			RO-8500: RESTRICTION ORIFICE, ROSEMOUNT 1495UC020RFSC00250BCW R3PH FLQ8	EA	1
650		Furnished By Panel Vendor	RIO#2 - Internal Panel Layout Compressor Building (BA-8000) - Unit 8	EA	1
			Free Standing NEMA Enclosure, 72x60x24, Carbon Steel – Gray, HOFFMAN, A726024ULP	EA	1
			68x56 Steel Back Panel, HOFFMAN, A72P60	EA	1
			60x14 Side Mounted Panel, Painted Steel, HOFFMAN, A72SMP14	EA	2
			3" X 5" Wireduct, Slotted, Narrow Finger, Gray & 3" Wireduct Cover, PANDUIT, F3X5LG6 / C3LG6	EA	1
			2" X 4" Wireduct, Slotted, Narrow Finger, Gray & 2" Wireduct Cover, PANDUIT, F2X4LG6 / C3LG6	EA	1
			Di Rail, 35mm X 7.5nn, Zinc/Steel, ALLEN BRADLEY, 199-DR1	EA	1
			Stand Off Insulator, GLASTIC, 2165-1B	EA	1
			LED Enclosure Light, 24VDC, 15IN, HOFFMAN, LED24V15	EA	1
			Mechanical Ground Lug, BURNDY, TYPE KC	EA	2
			Panel Nameplate, 1-1/2" X 4", Black Lamcoid With White Core, PANEL SHOP	EA	1
			Custom 125vdc Plastic Cover Guard With Standoffs, PANEL SHOP	EA	2
			Device Nameplate, 3/4" X 1-3/4", Black Lamcoid With White Core, PANEL SHOP	EA	51
			Marker Carrier - UBE/D, PHOENIX CONTACT, 800307	EA	15
			End Clamp E/NS 34 N, PHOENIX CONTACT, 800886	EA	34
			Feed-Through Terminal Block UT 10, PHOENIX CONTACT, 3044160	EA	4
			Feed-Through Ground Modular Terminal Block - UT 10-PE, PHOENIX CONTACT, 3044173	EA	2
			End Cover D-UT 2.5/10, PHOENIX CONTACT, 3047028	EA	2
			Surge Protection Device, PHOENIX CONTACT, 2907918	EA	2
			24V Power Supply, DC-DC Converter XLE 20 AMP, ALLEN BRADLEY, 1606-XLE480EP	EA	2
			Hydraulic-Magnetic Circuit Breaker 10 A / 120 V AC (50/60 Hz) / 50 V DC / 1 kA (SCCR), PHOENIX CONTACT, 2907196	EA	6
			Hydraulic-Magnetic Circuit Breaker 20 A / 120 V AC (50/60 Hz) / 50 V DC / 1 kA (SCCR), PHOENIX CONTACT, 2907199	EA	2
			Ground Bar, 9 Terminal Kit, SQUARE D, PK9GTA	EA	4
			Ground Modular Terminal Block - USLKG 6 N, PHOENIX CONTACT, 0442079	EA	9
			Fuse Modular Terminal Block - UT 4-L/HESILED 24 (5X20) - Two Level, PHOENIX CONTACT, 3214366	EA	64
			Terminal Block Relay, 24VDC, CLASS 1 DIV 2, 1NO-1NC Contacts, PHOENIX CONTACT, 2909524	EA	32
			Fuse Modular Terminal Block - UT 4-PE/L/HESILED 24 (5X20) Two Level, PHOENIX CONTACT, 3214321	EA	48
			Multilevel (Single Level) Feed Through Terminal Block - UT-4-L, PHOENIX CONTACT, 3214363	EA	68
			Hydraulic-Magnetic Circuit Breaker 5 A / 120 V AC (50/60 Hz) / 50 V DC / 1 kA (SCCR), PHOENIX CONTACT, 2907194	EA	17
			Fusible Disconnect, Finger Safe, Lock-On Provision, 30A, 600 VAC, 125 VDC, 225A, UL98, Single Pole, EATON, CCP2-1-30CF	EA	2
			CLASS CF FUSE, TCF, Time Delay, Dual Element, Current Limiting, Cube Fuse, 15A, Interrupting Rating 100KA / 300VDC AND 300KA/600VAC, EATON, TCF15RN	EA	4

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SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
			Flex I/O Repeater/Ethernet Adapter, ALLEN BRADLEY, 5094-AEN2TR	EA	2
			Flex I/O Discrete Input Module, 16 Point & Terminal Block Assembly, ALLEN BRADLEY, 5094-IB16	EA	2
			Flex I/O Discrete Output Module, 16 Point & Terminal Block Assembly, ALLEN BRADLEY, 5094-OB16	EA	2
			Flex I/O Analog Input Module, 8 Point & Terminal Block Assembly, ALLEN BRADLEY, 5094-IF8	EA	4
			Flex I/O Analog Output Module, 8 Point & Terminal Block Assembly, ALLEN BRADLEY, 5094-OF8	EA	2
			Flex I/O RTD Input Module, 8 Point & Terminal Block Assembly, ALLEN BRADLEY, 5094-IY8	EA	1
			Ethernet Switch, N-TRON, 708FX2-SC	EA	3
			Spare Fuse Container, Din Rail Mount, WEIDMULLER, 7914760001	EA	1
			Closet Connector Housing (CCH) Panel, SC Adapters, Duplex, 12 F, 50 MM Multimode (OM3/4), CORNING, CCH-CP12-E7	EA	2
			Single Panel Housing (SPH) Wall Mountable, Holds One CCH Connector Panel, Back, CORNING, SPH-01P	EA	2
			Single Panel Housing (SPH) Accessories & Components Din Rail Bracket, CORNING, SPH-DIN-KIT	EA	2
			Fuses, Ceramic, 250mA, 5 X 20MM, Fast Acting, BUSSMAN, S501-250-R	EA	1
			Fuses, Ceramic, 1A, 5 X 20MM, Time Delay, BUSSMAN, S505-1-R	EA	1
			Fuses, Ceramic, 2A, 5 X 20MM, Time Delay, BUSSMAN, S505-2-R	EA	1
			Fuses, Ceramic, 5A, 5 X 20MM, Time Delay, BUSSMAN, S505-5-R	EA	1
			Fuses, Ceramic, 10A, 5 X 20MM, Time Delay, BUSSMAN, S505-10-R	EA	1
			SC To Sc Duplex MM 50um Patch Cable - OM3, FIBERTRONICS, PC-DD7D3AV02M	EA	6
			CAT6 Ethernet Cables, Length As Required, CAT 6	EA	3
			Flex I/O Module Backplane, ALLEN BRADLEY, 5094-MB	EA	11
			Flex I/O Module Terminal Block Assembly, ALLEN BRADLEY, 5094-RTB3	EA	10
			Double-Level Feed Through Terminal Block - UTTB4, PHOENIX CONTACT, 3044814	EA	16
			End Cover D-UTB 2.5/4, PHOENIX CONTACT, 3047293	EA	1
			Spacer Plate - DP - UTTB 2.5/4, PHOENIX CONTACT, 3047303	EA	1
			Flex I/O Module Terminal Block Assembly, ALLEN BRADLEY, 5094-RTB3T	EA	1
			Ground Bar, Insulating Kit Lugs, SQUARE D, PKGTAB	EA	8
			Flex I/O Module Shield Bar, ALLEN BRADLEY, 5094-STB	EA	7
		KINDER MORGAN	21.0" LCD/1920X1080, Touch Screen, 17-10700T CPU, 32GB Memory, 512GB SSD, 24VDC CLASS I DIV.2, ARISTA, ARP-2221AP-J01-C01	EA	1
651			RIO#3 - Internal Panel Layout Electrical AUX. Building (BA-8000) - Unit 8	EA	1
			Free Standing NEMA Enclosure, 72X60X24, Carbon Steel - Gray, HOFFMAN, A726024ULPG	EA	1
			68X56 Steel Back Panel, HOFFMAN, A72P60	EA	1
			60X14 Side Mounted Panel, Painted Steel, HOFFMAN, A72SMP14	EA	2
			3" X 5" Wireduct, Slotted, Narrow Finger, Gray & 3" Wireduct Cover, PANDUIT, F3X5LG6 / C3LG6	EA	1
			2" X 4" Wireduct, Slotted, Narrow Finger, Gray & 2" Wireduct Cover, PANDUIT, F2X4LG6 / C3LG6	EA	1
			DI RAIL, 35MM X 7.5NN, ZINC/STEEL, ALLEN BRADLEY, 199-DR1	EA	1
			Stand Off Insulator, GLASTIC, 2165-1B	EA	1
			LED Enclosure Light, 24VDC, 15IN, HOFFMAN, LED24V15	EA	1
			Mechanical Ground Lug, BURNDY, TYPE KC	EA	2
			Panel Nameplate, 1-1/2" X 4", Black Lamcoid With White Core, PANEL SHOP	EA	1
			Custom 125VDC Plastic Cover Guard With Standoffs, PANEL SHOP	EA	2
			Device Nameplate, 3/4" X 1-3/4", Black Lamcoid With White Core, PANEL SHOP	EA	34
			Marker Carrier - UBE/D, PHOENIX CONTACT, 800307	EA	20
			End Clamp E/NS 34 N, PHOENIX CONTACT, 800886	EA	42
			Feed-Through Terminal Block UT 10, PHOENIX CONTACT, 3044160	EA	4
			Feed-Through Ground Modular Terminal Block - UT 10-PE, PHOENIX CONTACT, 3044173	EA	2
			End Cover D-UT 2.5/10, PHOENIX CONTACT, 3047028	EA	2
			Surge Protection Device, PHOENIX CONTACT, 2907918	EA	2
			24V Power Supply, DC-DC Converter XLE 20 AMP, ALLEN BRADLEY, 1606-XLE480EP	EA	2
			FAZ-NA Circuit Breaker, 1-Pole, 15 AMP, 125 VDC, EATON, FAZ-C15/1-DC	EA	2
			FAZ-NA Circuit Breaker, 1-Pole, 20 AMP, 125 VDC, EATON, FAZ-C20/1-DC	EA	2
			Ground Bar, 9 Terminal Kit, SQUARE D, PK9GTA	EA	4
			Ground Modular Terminal Block - USLKG 6 N, PHOENIX CONTACT, 442079	EA	9
			Fuse Modular Terminal Block - UT 4-L/HESILED 24 (5X20) - Two Level, PHOENIX CONTACT, 3214366	EA	129
			Ethernet Switch 16 Port, NTRON, NT-5016-000-0000	EA	1
			Fuse Modular Terminal Block - UT 4-PE/L/HESILED 24 (5X20) Two Level, PHOENIX CONTACT, 3214321	EA	48
			Multilevel (Single Level) Feed Through Terminal Block - UT-4-L, PHOENIX CONTACT, 3214363	EA	32
		Furnished By Panel Vendor	Terminal Block Relay, 24VDC, CLASS I DIV 2, 1NO-1NC Contacts, PHOENIX CONTACT, 2909524	EA	64
			Flex I/O Repeater/Ethernet Adapter, ALLEN BRADLEY, 5094-AEN2TR	EA	2
			Flex I/O Discrete Input Module, 16 Point & Terminal Block Assembly, ALLEN BRADLEY, 5094-IB16	EA	4
			Flex I/O Discrete Output Module, 16 Point & Terminal Block Assembly, ALLEN BRADLEY, 5094-OB16	EA	4

MATERIAL LIST

Prepared for: Kinder Morgan NGPL-Compressor Station 388 HP Addition afe-238039
Project ID: 14052026
Scope: Electrical & Instruments

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
			Flex I/O Analog Input Module, 8 Point & Terminal Block Assembly, ALLEN BRADLEY, 5094-IF8	EA	4
			Flex I/O Analog Output Module, 8 Point & Terminal Block Assembly, ALLEN BRADLEY, 5094-OF8	EA	2
			Ethernet Switch, N-TRON, 708FX2-SC	EA	3
			Ethernet Switch, N-TRON, 710FX2-SC	EA	1
			Spare Fuse Container, Din Rail Mount, WEIDMULLER, 7914760001	EA	1
			Closet Connector Housing (CCH) Panel, SC Adapters, Duplex, 12 F, 50 MM Multimode (OM3/4), CORNING, CCH-CP12-E7	EA	3
			Single Panel Housing (SPH) Wall Mountable, Holds One CCH Connector Panel, Back, CORNING, SPH-01P	EA	3
			Single Panel Housing (SPH) Accessories & Components Din Rail Bracket, CORNING, SPH-DIN-KIT	EA	3
			Fuses, Ceramic, 250mA, 5 X 20MM, Fast Acting, BUSSMAN, S501-250-R	EA	1
			Fuses, Ceramic, 1A, 5 X 20MM, Time Delay, BUSSMAN, S505-1-R	EA	1
			Fuses, Ceramic, 2A, 5 X 20MM, Time Delay, BUSSMAN, S505-2-R	EA	1
			Fuses, Ceramic, 5A, 5 X 20MM, Time Delay, BUSSMAN, S505-5-R	EA	1
			Fuses, Ceramic, 10A, 5 X 20MM, Time Delay, BUSSMAN, S505-10-R	EA	1
			SC TO SC Duplex MM 50um Patch Cable - OM3, FIBERTRONICS, PC-DD7D3AV02M	EA	8
			Cat6 Ethernet Cables, Length As Required, CAT 6	EA	6
			Flex I/O Module Backplane, ALLEN BRADLEY, 5094-MB	EA	15
			Flex I/O Module Terminal Block Assembly, ALLEN BRADLEY, 5094-RTB3	EA	14
			Flex I/O Module Terminal Block Assembly, ALLEN BRADLEY, 5094-RTB3T	EA	1
			Fuse Modular Terminal Block - UT 4-L/HESILA 250 (5X20), PHOENIX CONTACT, 3214368	EA	35
			Ground Bar, Insulating Kit Lugs, SQUARE D, PKGTAB	EA	8
			Flex I/O Module Shield Bar, ALLEN BRADLEY, 5094-STB	EA	7
			DA10D Protocol Conversion And Data Acquisition, RED LION, DA10D	EA	1
			Flex I/O Rtd Input Module, 8 Point & Terminal Block Assembly, ALLEN BRADLEY, 5094-IY8	EA	1
			Double-Level Feed Through Terminal Block - UTTB4, PHOENIX CONTACT, 3044814	EA	16
			End Cover - D-UTB 2.5/4, PHOENIX CONTACT, 3047293	EA	1
			Spacer Plate - DP - UTTB 2.5/4, PHOENIX CONTACT, 3047303	EA	1
		KINDER MORGAN	21.0" LCD/1920X1080, Touch Screen, 17-10700T CPU, 32GB MEMORY, 512GB SSD, 24VDC, CLASS1 DIV2, ARISTA, ARP-2221AP-JO1-C01	EA	1
			1/2" OD x 0.049" Wall, 316SS Seamless Tubing, SWAGELOK, SS-T8-S-049	EA	15
			1/2" OD x 1/2" MNPT Tube Connector, 316SS, SWAGELOK, SS - 810 - 1 - 8	EA	15
			1/2" OD x 3/4" MNPT Tube Connector, 316SS, SWAGELOK, SS - 810 - 1 - 12	EA	15
		(IDD 01-06)	In-Line Pressure Transmitter, ROSEMOUNT, 3051S	EA	15
			1/2" Union Tee, Tube OD, 316SS, SWAGELOK, SS - 810 - 3	EA	330
			1/2" Tube Blowdown Needle Valve, 316SS, SWAGELOK, SS-6DBS8	EA	15
			1/2" Plug Tube, 316SS, SWAGELOK, SS-810-P	EA	15
			1/2" OD x 3/4" MNPT Tube Connector, 316SS, SWAGELOK, SS-810-1-12	EA	6
			1/2" OD x 1/2" MNPT Tube Connector, 316SS, SWAGELOK, SS-810-1-8	EA	6
			1/2" OD x 0.049" Wall, 316SS Seamless Tubing, SWAGELOK, SS-T8-S-049	EA	3
			Coplanar Pressure Transmitter, ROSEMOUNT, 3051S	EA	3
			1/2" Union Tee, Tube OD, 316SS, SWAGELOK, SS-810-3	EA	6
			1/2" Tube Blowdown Needle Valve, 316SS, SWAGELOK, SS-6DBS8	EA	6
			1/2" Plug Tube, 316SS, SWAGELOK, SS-810-P	EA	6
		(IDD 01-04)	1/2" Single Tubetrace Bundle W/ BSX 5-2-OJ, THERMON, SE4F1-43-7-ATP-049	EA	3
			Thermon Power Kit, THERMON, DP/FAK-4	EA	3
			Power Terminator Kit, THERMON, PETK-1D	EA	6
			Thermon End Kit, THERMON, ET-6C/FAK-10B	EA	6
			2 Leg Heat Shrink Seal, THERMON, FAK-10B	EA	6
			Reducing Bushing, 3/4"MNPT x 1/2"FNPT, 316 SS, SWAGELOK, SS-12-RB-8	EA	6
			3-Valve Manifold Removable Thermal Insulation Jacket	EA	3
652			Pressure Transmitter	EA	1
			3/4" MNPT x 1/2"MNPT HEX Reducing Nipple (Short Nipple), SWAGELOK, SS-12-HRN-8	EA	1
			Pressure Transmitter, ROSEMOUNT, 3051S	EA	1
			2 Valve In-Line Manifold, EMERSON, 0306 RT 22 BA11	EA	1
			Plug 1/2", CROUSE-HINDS OR SIMILAR, PLG15	EA	1
			Pressure Gauge, 1/2" MNPT Process Connection, ASHCROFT, 4512	EA	5
		IDD 01-08	Block And Bleed Manifold, ASHCROFT, 50V022VASS50	EA	5
			3/4"MNPT x 1/2"MNPT HEX Reducing Nipple (Short Nipple), SWAGELOK, SS-12-HRN-8	EA	5
			Street Elbow, 1/2"FNPT x 1/2"MNPT, SWAGELOK, SS-8-SE	EA	5
653			Temperature Transmitter Remote Mounted	EA	1
			Temperature Transmitter, ROSEMOUNT, 3144P	EA	1
			Temperature Sensor Element RTD+Connection Head, ROSEMOUNT, 214C	EA	1
			Thermowell, ROSEMOUNT, 114C	EA	1
654			Temperature Transmitter In-Line Direct Mounted (NPT Threaded)	EA	1
			Temperature Transmitter, ROSEMOUNT, 3144P	EA	1
			Temertaure Sensor Element RTD, ROSEMOUNT, 214C	EA	1
			Thermowell, ROSEMOUNT, 114C	EA	1

MATERIAL LIST

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Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
655			Temperature Element Tank Or Vessel Direct Mounted (Flanged)	EA	1
			Temperature Sensor RTD + Connection Head, ROSEMOUNT, 214CRW	EA	1
			Thermowell, ROSEMOUNT, 114C	EA	1
		(IDD 02-04)	Temperature Sensor RTD + Connection Head, ROSEMOUNT, 214CRW	EA	8
			Thermowell, ROSEMOUNT, 114C	EA	8
656			Temperature Element Direct Mounted (Flanged) - Thermosensor	EA	1
			Type "K" Thermocouple/Thermowell Assembly, THERMOSENSOR, 6083-CI4K-1FT36-8-1.5"X300#RF-FRW	EA	1
657			Guided Wave Rader Level Transmitter With Magnetic Level Gauge	EA	1
			Guided Wave Rader Level Transmitter, ROSEMOUNT, 5300	EA	1
			Level Gauge, MAGTECH, "L" SERIES	EA	1
658			Control Ball Valve	EA	1
			Control Ball Valve, FISHER	EA	1
			Digital Valve Controller, FISHER, DVC6200	EA	1
			Instrument Supply Regulator, FISHER, 67CFR	EA	1
			Diaphragm Rotatory Actuator, FISHER, 2052	EA	1
		(IDD 05-03)	Sliding-Stem Control Valve, FISHER, ES/ET/EWT/HPT	EA	2
			Digital Valve Controller, FISHER, DVC6200	EA	2
			Instrument Supply Regulator, FISHER, 67CFR	EA	2
			Diaphragm Actuator, FISHER, 657 667	EA	2
		(IDD 05-04)	Ball Valve	EA	7
			Pneumatic Actuator, Spring Return/Pneumatic Actuator, Double Acting	EA	7
			Position Switch, Go Proximity Switches, TOPWORX, DXP	EA	7
			Solenoid Valve, ASCO, 8362A, 8562A	EA	7
		(IDD 05-07)	3/8" Seamless 317L SS Tubing	LF	7
			1/4" x 3/8" MNPT Tubing Connector, 316 SS	EA	7
			3/8" x 1/2" MNPT Tubing Connector, 316 SS	EA	7
			3/8" x 3/8" Tubing Union, 316 SS	EA	7
			3/8" Ball Valve, FNPT 316 SS Swagelok	EA	7
			1/4" x 3/8" MNPT Tubing Adapter, 316 SS Swagelok	EA	7
			1/4" MNPT x 3/8" Male Tube Adapter, 316 SS Swagelok	EA	7
659			Pressure Control Valve - 67 CFR Regulator	EA	1
			Pressure Regulator, FISHER, 67CFR-(1/4)-(00-125)	EA	1
			1/2" OD x 1/4" MNPT Tube Connector, 316SS, SWAGELOK, SS-810-1-4	EA	2
			1/2" OD x 0.049" Wall, 316SS Seamless Tubing, SWAGELOK, SS-T8-S-049	EA	1
			1/2" OD x 3/4" MNPT Tube Connector, 316SS, SWAGELOK, SS-810-1-12	EA	1
			1/2" OD x 3/8" OD Tube Adapter, 316SS, SWAGELOK, SS-810-R-6	EA	1
			60 Series Ball Valve 1/2" OD, SWAGELOK, SS-63TS8	EA	1
660			Ultraviolet Flame Detector	EA	1
			Dynamic Self Check Ultraviolet Flame Detector, HONEYWELL, C7061A102/U	EA	1
			Pipe Reducer	EA	1
661			Multispectrum IR Flame Detector	EA	1
			Multispectrum IR Flame Detector, 24VDC/4-20mA, DET-TRONICS, X3301	EA	1
		(IDD 06-07)	Infrared Hydrocarbon Gas Detector, DET-TRONICS, PIRECL	EA	2
			Flexvu Universal Display, DET-TRONICS, UD10	EA	2
662		(IDD 06-08)	Det-Tronics Pirecl And UD10 Display	EA	1
			Flexvu Universal Display, DET-TRONICS, UD105A5N25T2	EA	1
			Infrared Hydrocarbon Gas Detector, DET-TRONICS, PIRECLA1D3T1	EA	1
			Channel, C6 x 8.2	EA	1
			Unistrut, 1 5/8", UNISTRUT, P1000	EA	1
			Instrument Support Panel	EA	1
			UL Approved For Class 1 DIV 2, 3/4" Flex Metallic Conduit, CROUSE-HINDS OR SIMILAR	EA	1
			Liquid Tight Straight Fittings, Class 1 DIV 2, With Ground Lug 3/4", CROUSE-HINDS OR SIMILAR, LTB75GC	EA	4
			Union Conduit 3/4" NPT, CROUSE-HINDS OR SIMILAR, UNY205	EA	1
			Union Conduit, 90°, 3/4" NPT, CROUSE-HINDS OR SIMILAR, UNL205	EA	2
			3/4" RGS Conduit	LF	1
			Conduit Fitting, Type "T" W/Gasket & Cover, 3/4", CROUSE-HINDS OR SIMILAR, T29	EA	1
			Conduit Drain, 3/4", CROUSE-HINDS OR SIMILAR, CD2	EA	1
			3/4" Conduit Plug	EA	1
		(IDD 07-03)	Conduit Nipple, 3/4" NPT, CROUSE-HINDS OR SIMILAR	LF	45
			Union Conduit 3/4" NPT, CROUSE-HINDS OR SIMILAR, UNY205	EA	45
			Seal Conduit 3/4" FNPT, CROUSE-HINDS OR SIMILAR, EYSX21	EA	45
			Liquid Tight Straight Fittings, Class 1 DIV 2, With Ground Lug 3/4", CROUSE-HINDS OR SIMILAR, LTB75GC	EA	90
			UL Approved For Class 1 DIV 2, 3/4" Flex Metallic Conduit, CROUSE-HINDS OR SIMILAR	EA	45
			Conduit Fitting, Type "LB" W/Gasket & Cover, 3/4", CROUSE-HINDS OR SIMILAR, LB29	EA	45
			Conduit Fitting, Type "T" W/Gasket & Cover, 3/4", CROUSE-HINDS OR SIMILAR, T29	EA	45
			Conduit Drain, 3/4", CROUSE-HINDS OR SIMILAR, CD2	EA	45
663			Selector Switch (JOA) Field Mounted	EA	1
			JOG Off Automatic Control Station, CROUSE-HINDS, EDS21274-S635	EA	1
			Slotted Galvanized Strut, 1 5/8", UNISTRUT, P1000SL	EA	1
			1/4" SS Spring Nut, UNISTRUT, P1006U1420-SS	EA	1
			1/4" x 1 1/2" LNG. SS Bolt W/ 1/4" SS Lock Washer	EA	1
			Conduit Nipple, 3/4" x Close	EA	1

MATERIAL LIST

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Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
			Conduit "LB" Fitting, Form 8, W/Cover & Gasket, 3/4"	EA	1
			Conduit, Rigid Steel, HDG, 3/4"	EA	1
			Conduit Coupling, 3/4"	EA	1
			Conduit Chase Nipple, 3/4"	EA	1
			Nameplate, 3/8" Black Lettering 1"H x 4"L	EA	1
664			Instrument Air Supply	EA	1
			1/4" OD x 1/2" MNPT Tube Connector, 316SS, SWAGELOK, SS-400-1-8	EA	1
			1/4" OD x .049" Wall, 316SS Seamless Tubing, SWAGELOK, SS-T4-S-049	EA	1
665			Gas Detector Beam Mounting Plate	EA	1
			Point Infrared Eclipse Gas Detector, DET-Tronics (By Vendor)	EA	1
			1/4" OD x 0.035" Wall Tubing, 317L SS, Seamless, Fully Annealed, Astm A269 317L SS	EA	1
			1/4" Tubing Union To Be Added	EA	1
			1/4" Bug Screen Swagelok	EA	1
			1/4" Male x 1/4" Tube Elbow Swagelok	EA	1
			1/4" FNPT 3-Way Selector Swagelok SS-43XF4 W/Two Panel Mounting Nuts	EA	1
			1/4" Male x 1/4" Female Pipe Elbow Swagelok	EA	1
			3" x 3" Nameplate (Black With White Letters)	EA	1
			2 1/4" x 3" Long SS Bolts And 2-Set Of 1/4" SS Nuts, Flat Washer And Lock Washers	EA	1
			6mm Steel Mounting Plate	EA	1
666			Strobe Details (Triple) Rack Mounted (Roof)	EA	1
			Flashing LED Hazardous Location Warning Light, RED, 191XL-120_240R, FEDERAL SIGNAL	EA	1
			Flashing LED Hazardous Location Warning Light, Blue, 191XL-120_240B, FEDERAL SIGNAL	EA	1
			Flashing LED Hazardous Location Warning Light, Amber, 191XL-120_240A, FEDERAL SIGNAL	EA	1
			1" Form 7 Condulet Fitting , T37, CROUSE-HINDS	EA	4
			1" Recessed Conduit Plug, PLG3, CROUSE-HINDS	EA	1
			1" x 3/4" Reducer, RE32-SA, CROUSE-HINDS	EA	3
			3/4" RGS Conduit	LF	1
			1" RGS Conduit	LF	1
			U-Bolt 1-1/2"	EA	2
			Beam Mount Bracket, TECHLINE	EA	1
			Conduit Drain, 3/4", CD2, CROUSE-HINDS	EA	1
			Reducer Conduit 1" x 3/4", RE32, CROUSE-HINDS	EA	1
667			Valve W/Shafer Operator With Power Supply	EA	1
			Tubing, 316SS Seamless, 3/8" O.D x 0.035", ASTM A-269	EA	1
			Tube Conector, Male 316SS, 3/8" T x 1/4" MNPT, Swagelok, SS-66-1-4	EA	4
			Tube Conector, Male 316SS, 3/8" T x 3/8" MNPT, Swagelok, SS-66-1-6	EA	2
			Filter, Instrument Gas Supply, Fisher, 2400 PSIG, 1/4" FNPT, Extended Body	EA	1
668			Blowdon Manifold Control Panel Layout & BOM Unit #8	EA	1
			Junction Box, NEMA 4X With Panel A-48P36 & a-NMV3 Ventilator (4' High x 3' Wide x 16" Deep), HOFFMAN, A-48H36FLP	EA	1
			Union 1/4" x 1/4" 316 S.S, SWAGELOK, SS-400-6	EA	1
			Tubing 3/8" O.D x .035" 316 S.S. SMLS, SWAGELOK, SS-T6-S-035-20	EA	1
			Tubing 1/4" O.D x .035" 316 S.S. SMLS, SWAGELOK, SS-T4-S-035-20	EA	1
			Bulkhead Reducing Union 3/8" x 1/4" 316 S.S, SWAGELOK, SS-600-61-4	EA	8
			Male Connector 1/4" 316 S.S, SWAGELOK, SS-400-1-4	EA	23
			Union Tee 1/4" 316 S.S, SWAGELOK, SS-400-3	EA	9
			Bulkhead Union 1/4" 316 S.S, SWAGELOK, SS-400-61	EA	1
			1/4" 3-Way Pilot Operated Valve, Normally Closed, Piston Activated, Spring Return, 1/4" N.P.T Ports And 1/8" N.P.T. Pilot, VERSA, VSP-3301	EA	3
			1/4" Manual Selector Valve, ROBERTSHAW, 99365-A1	EA	1
			1/4" Selector Valve, ROBERTSHAW, 82216-A1	EA	1
			1/4" 3-Way Solenoid Valve, Normally Open, FN.P.T. Ports, Voltage 24VDC (Explosion Proof), SKINNER, X55LB2100	EA	2
			1/2" Galvanized Steel Universal UnionFxF, BARTON OR SIMILAR	EA	2
			1/2" x 4" Galvanized Steel Conduit Pipe, BARTON OR SIMILAR	EA	6
			Gual Condulet 1/2" Galvanized Steel, BARTON OR SIMILAR	EA	2
			Hub 1/2" FNPT x 1/2" FNPT Galvanized Steel, BARTON OR SIMILAR	EA	2
			3"x1" Phenolic NAMPLATE, WHT W/BLK Lettering , BY PNL SHOP	EA	2
			3"x1" Phenolic NAMPLATE, BLK W/WHITE Lettering , BY PNL SHOP	EA	8
			Conduit Pipe Galvanized 1/2"D x 4" L THRD	EA	6
			Universal Union 1/2" FNPT x 1/2" FNPT Galvanized	EA	2
			1/4" Screwed Filter, FISHER, 252	EA	1
			Adapter Coupling 1/4" MNPT x 1" MNPT SS, SWAGELOK, CN4NM16NM10	EA	1
			1" Screwed Ball Valve, Regular Port, Rated, 1440 PSIG (MIN.) @ 150°F, Screwed End Conditions, C.S. Body & Tailpiece, S.S. Trim, Filled Teflon Seat, TFE Gasket, With Loctite Compound, With Wrench Operator, SWAGELOK, W.K.M.#1R-B136-CS-02-S1/HL	EA	1
669			Instrument Comms Tower Fiber Patch Panel	EA	1
			Enclosure NEMA 4, 24" x 24" x 8", HOFFMAN, A24H24BLP3PT	EA	1
			Back Panel, HOFFMAN, A24P24	EA	1
			1"x4" White Phenolic Nameplate, 1/4" Black Letters	EA	1
			Switch, N-TRON, 708FX2-ST	EA	1
			Phoenix Quint Power Supply, PHOENIX CONTACT, PS/1AC/24DC/10	EA	1
			Single -Panel Housing, CORNING, SPH-01P	EA	1
			Connector Housing, SC Adapters, Duplex, 12 F, 50um Multimode, CORNING, CCH-CP12-E7	EA	1

MATERIAL LIST

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Project ID: 14052026
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ELECTRICAL ESTIMATION
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Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
			Single Panel Housing, CORNING, SPH-01P	EA	1
			Power Circuit Breaker, 10 AMP. 600VAC, Entrelec (GM SERIES) Din Rail MTD. Type, ENTRELEC	EA	1
			Fuse Modular Terminal Block-UT 4-L/Hesiled 24 (5X20)-Two Level, PHOENIX CONTACT, 3214366	EA	6
			Marker Carrier - UBE/D, PHOENIX CONTACT, 800307	EA	2
			Ground Bar, 9 Terminal Kit, SQUARE D, PK9GTA	EA	1
			Ground Bar, Insulating Kit Lugs, SQUARE D, PKGTAB	EA	2
			Entrelec Terminal Block Type: M 4/6 Gray, ENTRELEC, 115-116.07	EA	1
			Entrelec Terminal Block Type: M 4/6.P Green, ENTRELEC, 115-113.16	EA	1
			Entrelec End Stops Type: BAM, ENTRELEC, 103-002.26	EA	8
			DI RAIL, 35MM X 7.5NN, ZINC/STEEL, ALLEN BRADLEY, 199-DR1	EA	1
			Stand Off Insulator, GLASTIC, 2165-1B	EA	1
670			Instrument Control Building Fiber Patch Panel	EA	1
			Enclosure NEMA 4X Stainless Steel, 3-Point Latch, 30" x 24" x 8", HOFFMAN, A30H2408SSLP3PTW	EA	1
			Back Panel, HOFFMAN, A30P24	EA	1
			1" x 4" White Phenolic Nameplate, 1/4" Black Letters	EA	1
			Switch, N-TRON, 708FX2-ST	EA	1
			Phoenix Quint Power Supply, PHOENIX CONTACT, PS/1AC/24DC/10	EA	1
			Single -Panel Housing, CORNING, SPH-01P	EA	3
			Connector Housing, SC Adapters, Duplex, 12 F, 50um Multimode, CORNING, CCH-CP12-E7	EA	3
			Switch, N-TRON, 710FX2-ST	EA	1
		Supplier BY Panel Shop	Power Circuit Breaker, 10 AMP. 600VAC, Entrelec (GM SERIES) Din Rail MTD. Type, ENTRELEC, ENTRELEC, GMU10U	EA	1
			Fuse Modular Terminal Block-UT 4-L/Hesiled 24 (5X20)-Two Level, PHOENIX CONTACT, 3214366	EA	6
			Marker Carrier - UBE/D, PHOENIX CONTACT, 800307	EA	2
			Ground Bar, 9 Terminal Kit, SQUARE D, PK9GTA	EA	1
			Ground Bar, Insulating Kit Lugs, SQUARE D, PKGTAB	EA	2
			Entrelec Terminal Block Type: M 4/6 Gray, ENTRELEC, 115-116.07	EA	1
			Entrelec Terminal Block Type: M 4/6.P Green, ENTRELEC, 115-113.16	EA	1
			Entrelec End Stops Type: BAM, ENTRELEC, 103-002.26	EA	18
			DI RAIL, 35MM X 7.5NN, ZINC/STEEL, ALLEN BRADLEY, 199-DR1	EA	1
			Stand Off Insulator, GLASTIC, 2165-1B	EA	1
			Stand Off Insulator, CORNING, SPH-DIN-KIT	EA	3
			FIRE ALARM		
			DEVICES		
671			Combo Fire Alarm Horns Strobe, L-SERIES	EA	2
672			Fire Alarm Manul Pulstation, HONEYWELL PS-SATK	EA	2
673		**Supplied And Installed By I&E Contractor**	Fire Alarm Smoke/Temprature Detector	EA	4
674			Fire Alarm Control Panel, w/BATTERY, HONEY WELL SK-4, EDWARDS 12V	EA	1
675		**Supplied By Kinder And Insttaled By I&E Contractor**	Battery Bank, CD TECHNOLOGIES, EDWARDS 12V4A (For Fire Alarm Panel)	EA	2
676			Fire Alarm Heat Detector	EA	2
677			Hydrogen Sensor, La MARCHE	EA	2
678			24V 2-Pole Relay, EATON D7PF2AT1	EA	1
679			2P Relay Socket, EATON DFPAA	EA	1
680			Fire Alarm Terminal Block	EA	4
681			Fire Alarm Pam-1 Relay, HONEY WALL PAM-1	EA	1
			EARTHWORK		
			EXCAVATION & BACKFILL		
			ONE WAY DUCT BANK		
			EXCAVATION		
			Excavation For One Way Duck Bank - (1) 4" PVC Coated RGS Conduit	**LF**	**23**
682			Excavation:	CY	6
			BACKFILL		
683			12" Thick Sand Backfill Material	CY	1
684			3" Thick Red Dye Concrete Cap	CY	0.3
685			Concrete Formwork	SF	11
686			Compacted Subgrade Backfill Material	CY	4.7
			TWO WAY DUCT BANK		
			EXCAVATION		
			Excavation For Two Way Duck Bank - (2) 5" PVC Coated RGS Conduit	**LF**	**79**
687			Excavation:	CY	32
			BACKFILL		

MATERIAL LIST

Prepared for: Kinder Morgan NGPL-Compressor Station 388 HP Addition afe-238039
Project ID: 14052026
Scope: Electrical & Instruments

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
688			12" Thick Sand Backfill Material	CY	7
689			3" Thick Concrete Conduit Bank	CY	3
690			3" Thick Red Dye Concrete Cap	CY	1.6
691			Concrete Formwork	SF	434
692			Compacted Subgrade Backfill Material	CY	21
			THREE WAY DUCT BANK		
			EXCAVATION		
			Excavation For Three Way Duck Bank - (3) 5" PVC Coated RGS Conduit	**LF**	**8**
693			Excavation:	CY	5
			BACKFILL		
694			12" Thick Sand Backfill Material	CY	1
695			3" Thick Concrete Conduit Bank	CY	0.4
696			3" Thick Red Dye Concrete Cap	CY	0.2
697			Concrete Formwork	SF	46
698			Compacted Subgrade Backfill Material	CY	3
	388-31 - E168.1	Typical Detail 388-31 - E168.1	**THREE WAY DUCT BANK**		
			EXCAVATION		
			Excavation For Three Way Duck Bank - (3) 6" PVC Coated RGS Conduit	**LF**	**125**
699			Excavation:	CY	71
			BACKFILL		
700			12" Thick Sand Backfill Material	CY	18
701			3" Thick Concrete Conduit Bank	CY	6.6
702			3" Thick Red Dye Concrete Cap	CY	2.8
703			Concrete Formwork	SF	688
704			Compacted Subgrade Backfill Material	CY	44
			FOUR WAY DUCT BANK		
			EXCAVATION		
			Excavation For Four Way Duck Bank - (3) 4" PVC Coated RGS Conduit W/ Pull String - (1) 2" PVC Coated RGS Conduit W/ Pull String	**LF**	**127**
705			Excavation:	CY	72
			BACKFILL		
706			20" Thick Sand Backfill Material	CY	22
707			3" Thick Red Dye Concrete Cap	CY	4
708			Concrete Formwork	SF	64
709			Compacted Subgrade Backfill Material	CY	46
			TEN WAY DUCT BANK		
			EXCAVATION		
			Excavation For Ten Way Duck Bank - (6) 5" PVC Coated RGS Conduit - (4) 2" PVC Coated RGS Conduit	**LF**	**18**
710			Excavation:	CY	18
			BACKFILL		
711			20" Thick Sand Backfill Material	CY	3
712			3" Thick Red Dye Concrete Cap	CY	1
713			Concrete Formwork	SF	9
714			Compacted Subgrade Backfill Material	CY	14