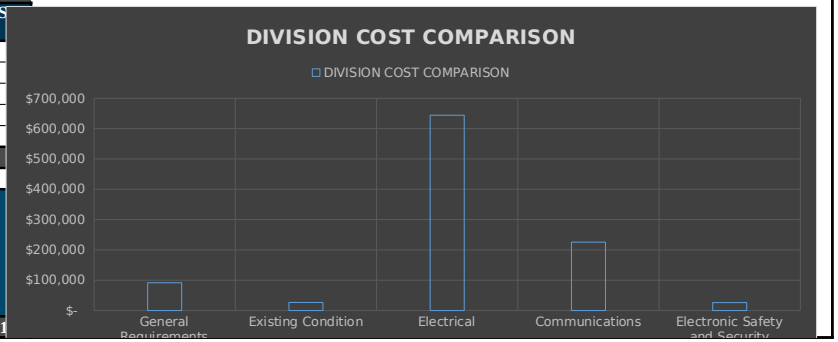
GENERAL SUMMARY

Prepared for: Citrus Heights Water District, 7803 B Madison Ave, Citrus Heights, CA 95610
Project ID: 2092026
Scope: Electrical
No. Of Floors: 1
Date: 28-Sep-26

ELECTRICAL ESTIMATION
+1 708-381-0900

BUILDING GSF		14,325	
DIVISION NO	DESCRIPTION	TOTAL DIV. COST	TOTAL DIV. COST (PER SF)
1000	General Requirements	$ 91,500	$
2000	Existing Condition	$ 26,565	$
26000	Electrical	$ 644,071	$
27000	Communications	$ 225,395	$
28000	Electronic Safety and Security	$ 26,192	$
TOTAL TRADE COST		$ 1,013,723	$
OVERHEAD	15%	$ 152,058	$
PROFIT	15%	$ 152,058	$
SUB-CONTRACTOR MARGIN	10%	$ 38,618	$
INSURANCE	3%	$ 30,412	$
CONTINGENCY	5%	$ 50,686	$
TAX	8%	$ 41,543	$
SUGGESTED BID		$ 1,479,099	$ 1



ELECTRICAL ESTIMATION

DETAILED BREAKDOWN OF ITEMS

Prepared for: Citrus Heights Water District, 7803 B Madison Ave, Citrus Heights, CA 95610
Project ID: 2092026
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ELECTRICAL ESTIMATION
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Date: 28-Sep-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										
			ADMINISTRATIVE REQUIREMENTS										
1			Project Management & Coordination	LS	1	0%	1	0.000	$ -	$ -	$ 28,500.00	$ 28,500.00	$ 28,500.00
2			Submittals	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
3			Shop Drawings	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
4			Owner/Governmental Safety Requirements	LS	1	0%	1	0.000	$ -	$ -	$ 2,000.00	$ 2,000.00	$ 2,000.00
5			Special Permits (like Building Service Lift)	LS	1	0%	1	0.000	$ -	$ -	$ 1,500.00	$ 1,500.00	$ 1,500.00
6			Traffic Management (Lane Closure, Flaggers, Diversion Barriers)	LS	1	0%	1	0.000	$ -	$ -	$ 5,000.00	$ 5,000.00	$ 5,000.00
7			CPM Construction Schedule & Updates	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
8			Progress Photos & Documentation	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
			QUALITY REQUIREMENTS							$ -		$ -	
9			Permits	LS	1	0%	1	0.000	$ -	$ -	$ 5,500.00	$ 5,500.00	$ 5,500.00
10			Testing, Commissioning & Inspection Services	LS	1	0%	1	0.000	$ -	$ -	$ 4,500.00	$ 4,500.00	$ 4,500.00
11			Mockups	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
			TEMPORARY FACILITIES & CONTROLS							$ -		$ -	
12			Temporary Utilities	LS	1	0%	1	0.000	$ -	$ -	$ 4,500.00	$ 4,500.00	$ 4,500.00
13			Construction Facilities	LS	1	0%	1	0.000	$ -	$ -	$ 4,000.00	$ 4,000.00	$ 4,000.00
14			Temporary Barriers and Enclosures	LS	1	0%	1	0.000	$ -	$ -	$ 3,500.00	$ 3,500.00	$ 3,500.00
15			Lifting Equipment	LS	1	0%	1	0.000	$ -	$ -	$ 2,500.00	$ 2,500.00	$ 2,500.00
16			Rental Equipment	LS	1	0%	1	0.000	$ -	$ -	$ 3,500.00	$ 3,500.00	$ 3,500.00
17			Field Office / Job Trailer	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
18			Temporary Fencing & Site Security	LS	1	0%	1	0.000	$ -	$ -	$ 1,500.00	$ 1,500.00	$ 1,500.00
19			Project Signage	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
20			Temporary Fire Protection & Weather Protection	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
			EXECUTION & CLOSEOUT REQUIREMENT							$ -		$ -	
21			Surveying, Layout & Field Engineering	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
22			Cleaning and Waste Management	LS	1	0%	1	0.000	$ -	$ -	$ 1,500.00	$ 1,500.00	$ 1,500.00
23			Closeout Submittals	LS	1	0%	1	0.000	$ -	$ -	$ 1,000.00	$ 1,000.00	$ 1,000.00
24			Demonstration & Training	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
25			Final Cleaning	LS	1	0%	1	0.000	$ -	$ -	$ 3,000.00	$ 3,000.00	$ 3,000.00
26			As-Built / Record Drawings	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
27			O&M Manuals	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
28			Final Inspections & Certificate of Occupancy	LS	1	0%	1	0.000	$ -	$ -	$ 1,000.00	$ 1,000.00	$ 1,000.00
			MISC.							$ -		$ -	
29			Bid Bonds	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
30			Scaffolding	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
31			Performance & Payment Bonds	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
32			Mobilization / Demobilization	LS	1	0%	1	0.000	$ -	$ -	$ 18,500.00	$ 18,500.00	$ 18,500.00
												SUBTOTAL	**$ 91,500**
			EXISTING CONDITIONS										
			DEMOLITION										
33	ED-201, ED-202, ED-211, ED-212, ED-221 & FAD-201		Existing FACU: Fire Alarm Control Unit To Be Removed	EA	1	0%	1	3.12	$ 118.00	$ 368.16	$ -	$ 368.16	$ 368.16
34			Existing Fire Bell To Be Removed	EA	1	0%	1	0.52	$ 118.00	$ 61.36	$ -	$ 61.36	$ 61.36
35			Existing Flow Switch To Be Removed	EA	1	0%	1	0.39	$ 118.00	$ 45.43	$ -	$ 45.43	$ 45.43
36			Existing Tamper Switch To Be Removed	EA	2	0%	2	0.41	$ 118.00	$ 48.62	$ -	$ 48.62	$ 97.23
			DEMOLITION PHASE 1										
37			Existing Electrical Equipment And Devices To Be Removed With Associate Wiring And Conduit Back To Source In This Area (3789 SF)	LS	1	0%	1	0.00	$ 118.00	$ -	$ 2,850.00	$ 2,850.00	$ 2,850.00
38			Existing Electrical Sub Panels, Equipment And Devices To Be Removed With Associate Wiring And Conduit Back To Source In This Area (14134 SF)	LS	1	0%	1	0.00	$ 118.00	$ -	$ 12,000.00	$ 12,000.00	$ 12,000.00
39			Existing Interior Light Fixture, Lighting Control To Be Removed With Associate Branch Circuit Back To Source In This Area (14180 SF)	LS	1	0%	1	0.00	$ 118.00	$ -	$ 5,700.00	$ 5,700.00	$ 5,700.00
40			Existing Disconnect Switch's To Be Removed With Associate Wiring And Conduit Back To Source	EA	16	0%	16	1.00	$ 118.00	$ 118.00	$ -	$ 118.00	$ 1,888.00
			DEMOLITION PHASE 2										
41			Existing Electrical Equipment And Devices To Be Removed With Associate Wiring And Conduit Back To Source In This Area (44 SF)	LS	1	0%	1	0.00	$ 118.00	$ -	$ 500.00	$ 500.00	$ 500.00
42			Existing Light Fixture, Lighting Control To Be Removed With Associate Branch Circuit Back To Source In This Area (140 SF)	LS	1	0%	1	0.00	$ 118.00	$ -	$ 600.00	$ 600.00	$ 600.00
43			Existing Downlight Fixture To Be Removed With Associate Wiring And Conduit Back To Source	EA	1	0%	1	0.40	$ 118.00	$ 47.20	$ -	$ 47.20	$ 47.20
44			Existing Main Switchboard MSB To Be Removed With Associate Wiring And Conduit Back To Source	EA	1	0%	1	16.00	$ 118.00	$ 1,888.00	$ -	$ 1,888.00	$ 1,888.00
45			Existing Panel Feeders To Be Removed	EA	1	0%	1	4.00	$ 118.00	$ 472.00	$ -	$ 472.00	$ 472.00
46			Existing Strip Light Fixture To Be Removed With Associate Wiring And Conduit Back To Source	EA	1	0%	1	0.40	$ 118.00	$ 47.20	$ -	$ 47.20	$ 47.20
												SUBTOTAL	**$ 26,565**
			ELECTRICAL										
			DISTRIBUTION										
			CONDUIT										
47			1" EMT Conduit	LF	480	10%	528	0.05	$ 118.00	$ 6.20	$ 2.67	$ 8.87	$ 4,683.28
48			1-1/4" EMT Conduit	LF	49	10%	54	0.06	$ 118.00	$ 7.08	$ 4.34	$ 11.42	$ 615.29
49			2" EMT Conduit	LF	20	10%	22	0.08	$ 118.00	$ 8.85	$ 6.22	$ 15.07	$ 331.55
50			2-1/2" EMT Conduit	LF	289	10%	318	0.10	$ 118.00	$ 11.77	$ 9.42	$ 21.19	$ 6,735.13
51			3" EMT Conduit	LF	795	10%	875	0.13	$ 118.00	$ 15.75	$ 15.74	$ 31.50	$ 27,544.04
52			1" RGS Conduit	LF	35	10%	39	0.09	$ 118.00	$ 10.89	$ 7.00	$ 17.89	$ 688.67
53			1-1/4" RGS Conduit	LF	5	10%	6	0.10	$ 118.00	$ 12.04	$ 11.27	$ 23.31	$ 128.19
54			1" LFMC Conduit	LF	21	10%	23	0.06	$ 118.00	$ 6.81	$ 4.01	$ 10.83	$ 250.09
55			1-1/4" LFMC Conduit	LF	3	10%	3	0.07	$ 118.00	$ 7.79	$ 6.50	$ 14.29	$ 47.16
			CONDUCTOR										
56			#10 CU THHN/THWN	LF	536	10%	590	0.01	$ 118.00	$ 0.94	$ 0.38	$ 1.32	$ 780.63
57			#8 CU THHN/THWN	LF	77	10%	85	0.01	$ 118.00	$ 1.06	$ 0.56	$ 1.62	$ 137.38
58			#6 CU THHN/THWN	LF	1608	10%	1769	0.01	$ 118.00	$ 1.18	$ 0.86	$ 2.04	$ 3,608.35
59			#4 CU THHN/THWN	LF	316	10%	348	0.01	$ 118.00	$ 1.30	$ 1.32	$ 2.62	$ 910.02
60			#3 CU THHN/THWN	LF	144	10%	158	0.01	$ 118.00	$ 1.42	$ 1.70	$ 3.11	$ 492.78
61			#1 CU THHN/THWN	LF	80	10%	88	0.01	$ 118.00	$ 1.65	$ 2.26	$ 3.91	$ 344.26
62			#2/0 CU THHN/THWN	LF	795	10%	875	0.02	$ 118.00	$ 1.89	$ 3.54	$ 5.43	$ 4,746.79
63			#3/0 CU THHN/THWN	LF	576	10%	634	0.02	$ 118.00	$ 2.01	$ 4.31	$ 6.32	$ 4,001.82
64			#4/0 CU THHN/THWN	LF	580	10%	638	0.02	$ 118.00	$ 2.12	$ 5.37	$ 7.49	$ 4,781.17
65			#400KCMIL CU THHN/THWN	LF	3540	10%	3894	0.03	$ 118.00	$ 3.78	$ 9.95	$ 13.73	$ 53,449.04
			LUGS										
66			Compression Lug CU With 1-Hole , #8 CU Wire	EA	4	0%	4	0.11	$ 118.00	$ 12.39	$ 2.64	$ 15.03	$ 60.12
67			Heat Shrink Tubing for #8 CU Wire	EA	4	0%	4	0.05	$ 118.00	$ 5.90	$ 0.50	$ 6.40	$ 25.60
68			Compression Lug CU With 1-Hole , #6 CU Wire	EA	42	0%	42	0.12	$ 118.00	$ 14.16	$ 3.55	$ 17.71	$ 743.82
69			Heat Shrink Tubing for #6 CU Wire	EA	42	0%	42	0.06	$ 118.00	$ 7.08	$ 0.60	$ 7.68	$ 322.56
70			Compression Lug CU With 1-Hole , #4 CU Wire	EA	10	0%	10	0.15	$ 118.00	$ 17.70	$ 4.55	$ 22.25	$ 222.50
71			Heat Shrink Tubing for #4 CU Wire	EA	10	0%	10	0.07	$ 118.00	$ 8.26	$ 0.75	$ 9.01	$ 90.10
72			Compression Lug CU With 1-Hole , #3 CU Wire	EA	8	0%	8	0.17	$ 118.00	$ 20.06	$ 5.50	$ 25.56	$ 204.48
73			Heat Shrink Tubing for #3 CU Wire	EA	8	0%	8	0.08	$ 118.00	$ 8.85	$ 0.80	$ 9.65	$ 77.20
74			Compression Lug CU With 1-Hole , #1 CU Wire	EA	8	0%	8	0.21	$ 118.00	$ 24.78	$ 8.05	$ 32.83	$ 262.64
75			Heat Shrink Tubing for #1 CU Wire	EA	8	0%	8	0.10	$ 118.00	$ 11.80	$ 1.00	$ 12.80	$ 102.40
76			Compression Lug CU With 1-Hole , #2/0 CU Wire	EA	18	0%	18	0.45	$ 118.00	$ 53.10	$ 10.63	$ 63.73	$ 1,147.14
77			Heat Shrink Tubing for #2/0 CU Wire	EA	18	0%	18	0.24	$ 118.00	$ 28.32	$ 0.30	$ 28.62	$ 515.16
78			Compression Lug CU With 1-Hole , #3/0 CU Wire	EA	32	0%	32	0.45	$ 118.00	$ 53.10	$ 11.00	$ 64.10	$ 2,051.20
79			Heat Shrink Tubing for #3/0 CU Wire	EA	32	0%	32	0.25	$ 118.00	$ 29.50	$ 0.32	$ 29.82	$ 954.24
80			Compression Lug CU With 1-Hole , #4/0 CU Wire	EA	16	0%	16	0.45	$ 118.00	$ 53.10	$ 11.56	$ 64.66	$ 1,034.56
81			Heat Shrink Tubing for #4/0 CU Wire	EA	16	0%	16	0.25	$ 118.00	$ 29.50	$ 0.34	$ 29.84	$ 477.44
82			Compression Lug CU With 1-Hole , #400 KCMIL CU Wire	EA	96	0%	96	0.47	$ 118.00	$ 55.46	$ 14.87	$ 70.33	$ 6,751.68
83			Heat Shrink Tubing for #400 KCMIL CU Wire	EA	96	0%	96	0.26	$ 118.00	$ 30.68	$ 3.40	$ 34.08	$ 3,271.68

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DETAILED BREAKDOWN OF ITEMS

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Scope: Electrical

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
			CIRCUIT BREAKER										
84			1P/20A Breaker	EA	121	0%	121	0.42	$ 118.00	$ 49.56	$ 33.00	$ 82.56	$ 9,989.76
85			1P/20A Breaker With Handle Tie	EA	2	0%	2	0.46	$ 118.00	$ 54.28	$ 38.00	$ 92.28	$ 184.56
86			2P/15A Breaker	EA	4	0%	4	0.42	$ 118.00	$ 49.56	$ 33.00	$ 82.56	$ 330.24
87			2P/20A Breaker	EA	4	0%	4	0.45	$ 118.00	$ 53.10	$ 43.18	$ 96.28	$ 385.12
88			2P/25A Breaker	EA	7	0%	7	0.46	$ 118.00	$ 54.28	$ 48.00	$ 102.28	$ 715.96
89			2P/30A Breaker	EA	1	0%	1	0.48	$ 118.00	$ 56.64	$ 59.00	$ 115.64	$ 115.64
90			2P/50A Breaker	EA	1	0%	1	0.52	$ 118.00	$ 61.36	$ 72.00	$ 133.36	$ 133.36
91			3P/15A Breaker	EA	1	0%	1	0.51	$ 118.00	$ 60.18	$ 52.00	$ 112.18	$ 112.18
92			3P/20A Breaker	EA	2	0%	2	0.51	$ 118.00	$ 60.18	$ 58.00	$ 118.18	$ 236.36
93			3P/50A Breaker	EA	2	0%	2	0.62	$ 118.00	$ 73.16	$ 95.00	$ 168.16	$ 336.32
94			3P/60A Breaker	EA	6	0%	6	0.55	$ 118.00	$ 64.90	$ 78.00	$ 142.90	$ 857.40
95			3P/70A Breaker	EA	1	0%	1	0.68	$ 118.00	$ 80.24	$ 140.00	$ 220.24	$ 220.24
96			3P/100A Breaker	EA	1	0%	1	0.98	$ 118.00	$ 115.64	$ 320.00	$ 435.64	$ 435.64
97		**For Future**	3P/100A Breaker	EA	2	0%	2	0.98	$ 118.00	$ 115.64	$ 320.00	$ 435.64	$ 871.28
98			3P/225A Breaker	EA	2	0%	2	1.80	$ 118.00	$ 212.40	$ 810.00	$ 1,022.40	$ 2,044.80
99			3P/400A Breaker	EA	2	0%	2	2.60	$ 118.00	$ 306.80	$ 2,400.00	$ 2,706.80	$ 5,413.60
100			3P/1000A Breaker	EA	1	0%	1	4.50	$ 118.00	$ 531.00	$ 6,800.00	$ 7,331.00	$ 7,331.00
			PANEL										
101			Main Switchboard MSB: 1000A, 120/208V, 3Ph, 4W, 65KAIC, 24 Poles, Surface Mounted, NEMA 1 Enclosure W/ 1000A, 120/208V, 3Ph, 4W CU Bussing 1000A Meter Socket, CT Compartment, Test Block And Bypass Standard Integrated Surge Protection Device With Disconnect Switch: Minimum 250KA/Phase, 125KA/Mode Underground Pull Section Neutral Link	EA	1	0%	1	30.00	$ 118.00	$ 3,540.00	$ 32,000.00	$ 35,540.00	$ 35,540.00
102			Panel A: 225A, 120/208 Wye, 3Ph, 4W, Mains: MLO, 22KAIC, 72 Poles, Recess	EA	1	0%	1	7.50	$ 118.00	$ 885.00	$ 3,800.00	$ 4,685.00	$ 4,685.00
103			Panel B: 400A, 120/208 Wye, 3Ph, 4W, Mains: MLO, 22KAIC, 42 Poles, Recess	EA	1	0%	1	8.80	$ 118.00	$ 1,038.40	$ 4,850.00	$ 5,888.40	$ 5,888.40
104			Panel C: 400A, 120/208 Wye, 3Ph, 4W, Mains: MLO, 22KAIC, 42 Poles, Recess	EA	1	0%	1	8.80	$ 118.00	$ 1,038.40	$ 4,850.00	$ 5,888.40	$ 5,888.40
105			Panel D: 225A, 120/208 Wye, 3Ph, 4W, Mains: MLO, 22KAIC, 60 Poles, Recess	EA	1	0%	1	8.00	$ 118.00	$ 944.00	$ 4,200.00	$ 5,144.00	$ 5,144.00
			DEVICES										
106			1000A, 120/208V, 3Ph, 4W, 50KAIC Manual Transfer Switch, NEMA 3R	EA	1	0%	1	22.00	$ 118.00	$ 2,596.00	$ 15,521.00	$ 18,117.00	$ 18,117.00
107			1000A, 120/208V, 3Ph, 4W, 50KAIC Portable Generator Cam Lock Tap Box, NE	EA	1	0%	1	14.00	$ 118.00	$ 1,652.00	$ 9,500.00	$ 11,152.00	$ 11,152.00
108		**Only Installation**	100A Revenue Grade Sub Meter	EA	1	0%	1	3.50	$ 118.00	$ 413.00	$ -	$ 413.00	$ 413.00
			DISCONNECT SWITCH										
109			2P/15AS/12AF Fused Disconnect Switch, NEMA 3R	EA	1	0%	1	0.83	$ 118.00	$ 97.94	$ 150.00	$ 247.94	$ 247.94
110			2P/15AS/15AF Fused Disconnect Switch, NEMA 3R	EA	3	0%	3	0.83	$ 118.00	$ 97.94	$ 150.00	$ 247.94	$ 743.82
111		**Rating Assumed From Panel**	2P/20A Fused Disconnect Switch, NEMA 3R	EA	8	0%	8	0.90	$ 118.00	$ 106.20	$ 160.00	$ 266.20	$ 2,129.60
112			2P/20AS/19AF Fused Disconnect Switch, NEMA 3R	EA	4	0%	4	0.90	$ 118.00	$ 106.20	$ 165.00	$ 271.20	$ 1,084.80
113		**Rating Assumed From Panel**	2P/25A Non-Fused Disconnect Switch, NEMA 1	EA	1	0%	1	0.83	$ 118.00	$ 97.94	$ 140.00	$ 237.94	$ 237.94
114			2P/25AS/25AF Fused Disconnect Switch, NEMA 3R	EA	6	0%	6	0.94	$ 118.00	$ 110.92	$ 180.00	$ 290.92	$ 1,745.52
115			3P/50AS/47AF Fused Disconnect Switch, NEMA 3R	EA	2	0%	2	1.10	$ 118.00	$ 129.80	$ 290.00	$ 419.80	$ 839.60
116			3P/60AS/49AF Fused Disconnect Switch, NEMA 3R	EA	3	0%	3	1.20	$ 118.00	$ 141.60	$ 310.00	$ 451.60	$ 1,354.80
117			3P/60AS/53AF Fused Disconnect Switch, NEMA 3R	EA	2	0%	2	1.20	$ 118.00	$ 141.60	$ 315.00	$ 456.60	$ 913.20
118			3P/70AS/62AF Fused Disconnect Switch, NEMA 3R	EA	1	0%	1	1.35	$ 118.00	$ 159.30	$ 360.00	$ 519.30	$ 519.30
			GROUNDING										
119			MBGB: Main Grounding Busbar	EA	1	0%	1	2.00	$ 118.00	$ 236.00	$ 450.00	$ 686.00	$ 686.00
120			AVGB: AV Ground Busbar	EA	1	0%	1	1.50	$ 118.00	$ 177.00	$ 280.00	$ 457.00	$ 457.00
121			TGB: 13"x2" Technology Ground Busbar	EA	2	0%	2	1.20	$ 118.00	$ 141.60	$ 220.00	$ 361.60	$ 723.20
122			3/8" Lock Washer	EA	2	0%	2	0.02	$ 118.00	$ 2.36	$ 0.35	$ 2.71	$ 5.42
123			3/8" Wood Lag Screw	EA	4	0%	4	0.03	$ 118.00	$ 3.54	$ 0.45	$ 3.99	$ 15.96
124			Busbar Support Bracket	EA	2	0%	2	0.15	$ 118.00	$ 17.70	$ 18.00	$ 35.70	$ 71.40
125			Isolation Support Spacer	EA	2	0%	2	0.10	$ 118.00	$ 11.80	$ 12.00	$ 23.80	$ 47.60
126			Ground Busbar	EA	1	0%	1	1.28	$ 118.00	$ 151.04	$ 204.43	$ 355.47	$ 355.47
127			Neutral Busbar	EA	1	0%	1	1.02	$ 118.00	$ 120.36	$ 153.32	$ 273.68	$ 273.68
128			#6 CU Ground Conductor	LF	20	10%	22	0.03	$ 118.00	$ 2.95	$ 2.30	$ 5.25	$ 115.50
129			#4 CU Ground Conductor	LF	20	10%	22	0.03	$ 118.00	$ 4.07	$ 3.83	$ 7.90	$ 173.89
130			#3/0 CU Ground Conductor	LF	60	10%	66	0.05	$ 118.00	$ 6.02	$ 12.00	$ 18.02	$ 1,189.19
131			#300 KCMIL CU Ground Conductor	LF	40	10%	44	0.08	$ 118.00	$ 9.44	$ 21.00	$ 30.44	$ 1,339.36
132			1-1/4" PVC SCH 40 Conduit	LF	40	10%	44	0.05	$ 118.00	$ 6.37	$ 3.04	$ 9.41	$ 413.91
			POWER										
			CONDUIT										
133	E-201, E-221, E-211, E-401, E-502 & E-801		1/2" EMT Conduit	LF	8344	10%	9178	0.03	$ 118.00	$ 3.81	$ 1.00	$ 4.81	$ 44,104.69
134			1/2" PVC SCH 40 Conduit	LF	69	10%	76	0.03	$ 118.00	$ 3.36	$ 0.70	$ 4.06	$ 308.38
135			1/2" RGS Conduit	LF	105	10%	116	0.05	$ 118.00	$ 6.46	$ 2.60	$ 9.06	$ 1,046.49
136			1/2" LFMC Conduit	LF	71	10%	78	0.04	$ 118.00	$ 4.16	$ 1.20	$ 5.36	$ 418.58
137			1/2" FMC Conduit	LF	9	10%	10	0.03	$ 118.00	$ 3.98	$ 1.20	$ 5.18	$ 51.31
			CONDUCTOR										
138			#12 CU THHN/THWN	LF	15952	10%	17547	0.01	$ 118.00	$ 0.83	$ 0.25	$ 1.08	$ 18,880.55
139			#10 CU THHN/THWN	LF	10260	10%	11286	0.01	$ 118.00	$ 0.94	$ 0.38	$ 1.32	$ 14,942.66
			DEVICE										
140			2 Pole Motor Rated Switch	EA	14	0%	14	0.55	$ 118.00	$ 64.90	$ 85.00	$ 149.90	$ 2,098.60
141			15A Equipment Connection	EA	4	0%	4	0.75	$ 118.00	$ 88.50	$ -	$ 88.50	$ 354.00
142			20A Equipment Connection	EA	4	0%	4	0.80	$ 118.00	$ 94.40	$ -	$ 94.40	$ 377.60
143			25A Equipment Connection	EA	6	0%	6	0.83	$ 118.00	$ 97.94	$ -	$ 97.94	$ 587.64
144			30A, Special Purpose Receptacle, NEMA L6-30R	EA	1	0%	1	0.45	$ 118.00	$ 53.10	$ 32.00	$ 85.10	$ 85.10
145			Combination Floor Flush Mounted Duplex Controlled Receptacle	EA	1	0%	1	0.65	$ 118.00	$ 76.70	$ 95.00	$ 171.70	$ 171.70
146			Dedicated Double Duplex Receptacle	EA	1	0%	1	0.35	$ 118.00	$ 41.30	$ 28.00	$ 69.30	$ 69.30
147			Dedicated Duplex Receptacle	EA	7	0%	7	0.30	$ 118.00	$ 35.40	$ 19.00	$ 54.40	$ 380.80
148			Dedicated GFCI Duplex Receptacle	EA	1	0%	1	0.38	$ 118.00	$ 44.84	$ 29.00	$ 73.84	$ 73.84
149			Dedicated GFCI Duplex Receptacle Above Counter	EA	2	0%	2	0.40	$ 118.00	$ 47.20	$ 29.00	$ 76.20	$ 152.40
150			Duplex Controlled Receptacle	EA	90	0%	90	0.30	$ 118.00	$ 35.40	$ 19.00	$ 54.40	$ 4,896.00
151			Duplex Controlled Receptacle Mounted Above Counter Top	EA	13	0%	13	0.33	$ 118.00	$ 38.94	$ 19.00	$ 57.94	$ 753.22
152			Duplex Receptacle	EA	44	0%	44	0.30	$ 118.00	$ 35.40	$ 18.50	$ 53.90	$ 2,371.60
153			Duplex Receptacle Mounted Above Counter Top	EA	3	0%	3	0.33	$ 118.00	$ 38.94	$ 19.00	$ 57.94	$ 173.82
154			Exhaust Fan Connection	EA	2	0%	2	0.50	$ 118.00	$ 59.00	$ -	$ 59.00	$ 118.00
155			Floor Flush Mounted Double Duplex Receptacle	EA	7	0%	7	0.70	$ 118.00	$ 82.60	$ 110.00	$ 192.60	$ 1,348.20
156			Floor Flush Mounted Duplex Controlled Receptacle	EA	1	0%	1	0.65	$ 118.00	$ 76.70	$ 95.00	$ 171.70	$ 171.70
157			Fourplex Controlled Receptacle	EA	37	0%	37	0.40	$ 118.00	$ 47.20	$ 42.00	$ 89.20	$ 3,300.40
158			Fourplex Controlled Receptacle Mounted Above Counter Top	EA	1	0%	1	0.43	$ 118.00	$ 50.74	$ 42.00	$ 92.74	$ 92.74
159			Fourplex Receptacle	EA	1	0%	1	0.40	$ 118.00	$ 47.20	$ 40.00	$ 87.20	$ 87.20
160			GFCI Controlled Duplex Receptacle	EA	6	0%	6	0.40	$ 118.00	$ 47.20	$ 29.00	$ 76.20	$ 457.20
161			GFCI Controlled Duplex Receptacle Mounted Above Counter Top And/Or Sink Ba	EA	6	0%	6	0.42	$ 118.00	$ 49.56	$ 29.00	$ 78.56	$ 471.36
162			GFCI Duplex Receptacle	EA	15	0%	15	0.38	$ 118.00	$ 44.84	$ 27.36	$ 72.20	$ 1,083.00
163			GFCI Duplex Receptacle Mounted Above Counter Top And/Or Sink Backsplash	EA	8	0%	8	0.40	$ 118.00	$ 47.20	$ 27.36	$ 74.56	$ 596.48
164			GFCI Duplex Receptacle Weatherproof While In Use	EA	5	0%	5	0.45	$ 118.00	$ 53.10	$ 45.00	$ 98.10	$ 490.50
165			Motor Rated Switch	EA	15	0%	15	0.45	$ 118.00	$ 53.10	$ 65.00	$ 118.10	$ 1,771.50
166			Plug Load Controller	EA	49	0%	49	0.35	$ 118.00	$ 41.30	$ 55.00	$ 96.30	$ 4,718.70
167			Single Pole Switch	EA	1	0%	1	0.28	$ 118.00	$ 33.04	$ 12.50	$ 45.54	$ 45.54
168			Surface Mounted Raceway And Box Wiremold 800 Series	EA	2	0%	2	1.20	$ 118.00	$ 141.60	$ 95.00	$ 236.60	$ 473.20
			LIGHTING										
			CONDUIT										
169			1/2" EMT Conduit	LF	3630	10%	3993	0.03	$ 118.00	$ 3.81	$ 1.00	$ 4.81	$ 19,186.56
170			3/4" EMT Conduit	LF	54	10%	59	0.05	$ 118.00	$ 5.49	$ 1.76	$ 7.25	$ 427.64
171		**For Future**	1" EMT Conduit With Pull string	LF	220	10%	242	0.05	$ 118.00	$ 6.20	$ 2.74	$ 8.93	$ 2,159.88
172			1/2" Flexible Conduit	LF	250	10%	275	0.04	$ 118.00	$ 4.16	$ 0.93	$ 5.09	$ 1,399.61
			CONDUCTOR										
173			#12 CU THHN/THWN	LF	2105	10%	2316	0.01	$ 118.00	$ 0.83	$ 0.25	$ 1.08	$ 2,491.83
174			#10 CU THHN/THWN	LF	899	10%	989	0.01	$ 118.00	$ 0.94	$ 0.38	$ 1.32	$ 1,309.49
175			#8 CU THHN/THWN	LF	8903	10%	9794	0.01	$ 118.00	$ 1.06	$ 0.56	$ 1.62	$ 15,885.59
			LIGHTING FIXTURES										
176			D1: 4.5" Square Downlight, FOCAL POINT FLC44D-SQ-SW-1000L-UNV-LZ1-1	EA	45	0%	45	0.85	$ 118.00	$ 100.30	$ 145.00	$ 245.30	$ 11,038.50
177			D1E: 4.5" Square Downlight, 0-10V 0% Dimming, Bar Hangers, Very Wide Flood	EA	14	0%	14	1.05	$ 118.00	$ 123.90	$ 245.00	$ 368.90	$ 5,164.60
178			ED: 6" Downlight Retrofit Kit, Wide Distribution, GREEN CREATIVE ED8-80-4	EA	19	0%	19	0.65	$ 118.00	$ 76.70	$ 95.00	$ 171.70	$ 3,262.30
179			EDE: 6" Downlight Retrofit Kit, Wide Distribution, Except With 90 Min. Emerges	EA	5	0%	5	0.85	$ 118.00	$ 100.30	$ 195.00	$ 295.30	$ 1,476.50
180			D2: 3.5" Cylinder, 0-10V 0% Dimming, Very Wide Flood Distribution, FOCAL P	EA	16	0%	16	0.90	$ 118.00	$ 106.20	$ 175.00	$ 281.20	$ 4,499.20
181			D2E: 3.5" Cylinder, 0-10V 0% Dimming, Very Wide Flood Distribution, Except W	EA	8	0%	8	1.15	$ 118.00	$ 135.70	$ 310.00	$ 445.70	$ 3,565.60
182			D3: 4.5 Square Downlight, 0-10V Dimming, Tunable White Controls, Open Reflec	EA	4	0%	4	0.90	$ 118.00	$ 106.20	$ 210.00	$ 316.20	$ 1,264.80
183			P4: 4' Flat Lens Strip Luminaire, Frosted Acrylic Shielding, 0-10V Dimming, HE	EA	6	0%	6	1.10	$ 118.00	$ 129.80	$ 165.00	$ 294.80	$ 1,768.80
184			P4E: 4' Flat Lens Strip Luminaire, Frosted Acrylic Shielding, 0-10V Dimming, Ex	EA	2	0%	2	1.30	$ 118.00	$ 153.40	$ 290.00	$ 443.40	$ 886.80
185			R1A2: 8' Linear Luminaire Flush Lens, Tunable White, DALI 1% Dimming, FOC	EA	4	0%	4	1.75	$ 118.00	$ 206.50	$ 680.00	$ 886.50	$ 3,546.00
186			R11: 4' Linear Luminaire, 1% 0-10V Dimming, Continuous Seamless Flat Diffusio	EA	8	0%	8	1.15	$ 118.00	$ 135.70	$ 310.00	$ 445.70	$ 3,565.60
187			R11E: 4' Linear Luminaire, 1% 0-10V Dimming, Continuous Seamless Flat Diffus	EA	2	0%	2	1.40	$ 118.00	$ 165.20	$ 480.00	$ 645.20	$ 1,290.40
188			R12: 8' Linear Luminaire, 1% 0-10V Dimming, Continuous Seamless Flat Diffusio	EA	2	0%	2	1.60	$ 118.00	$ 188.80	$ 560.00	$ 748.80	$ 1,497.60
189			W11: 2' Perimeter Luminaire, Flush Lens, 0-10V Dimming, FOCAL POINT FSM	EA	3	0%	3	1.05	$ 118.00	$ 123.90	$ 240.00	$ 363.90	$ 1,091.70
190			W12: 3' Perimeter Luminaire, Flush Lens, 0-10V Dimming, FOCAL POINT FSM	EA	1	0%	1	1.15	$ 118.00	$ 135.70	$ 290.00	$ 425.70	$ 425.70
191			W13: 4' Perimeter Luminaire, Flush Lens, 0-10V Dimming, FOCAL POINT FSM	EA	14	0%	14	1.25	$ 118.00	$ 147.50	$ 340.00	$ 487.50	$ 6,825.00

Phone: +1 708-381-0900

DETAILED BREAKDOWN OF ITEMS

Prepared for: Citrus Heights Water District, 7803 B Madison Ave, Citrus Heights, CA 95610
Project ID: 2092026
Scope: Electrical

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
192			W32: 4'-10" Perimeter Luminaire, Flush Lens, 0-10V Dimming, FOCAL POINT F	EA	3	0%	3	1.35	$ 118.00	$ 159.30	$ 410.00	$ 569.30	$ 1,707.90
193			W35: 10' Perimeter Luminaire, Flush Lens, 0-10V Dimming, FOCAL POINT FSN	EA	1	0%	1	1.90	$ 118.00	$ 224.20	$ 780.00	$ 1,004.20	$ 1,004.20
194			C11: 1ft Cove Interior RGBW Luminaire, SOLID STATE LUMINAIRES CLCV-	EA	189	0%	189	0.55	$ 118.00	$ 64.90	$ 95.00	$ 159.90	$ 30,221.10
195			C12: 1ft Cove Interior RGBW Luminaire, SOLID STATE LUMINAIRES CLCV-	EA	74	0%	74	0.65	$ 118.00	$ 76.70	$ 140.00	$ 216.70	$ 16,035.80
196			P1: 8' Direct/Indirect Linear Suspended Luminaire, Narrow Aperture Design, 0-10	EA	10	0%	10	1.70	$ 118.00	$ 200.60	$ 620.00	$ 820.60	$ 8,206.00
197			P1E: 8' Direct/Indirect Linear Suspended Luminaire, Narrow Aperture Design, 0-1	EA	16	0%	16	1.95	$ 118.00	$ 230.10	$ 780.00	$ 1,010.10	$ 16,161.60
198			P2: 8' Direct Linear Suspended Luminaire, Narrow Aperture Design, 0-10V Dimm	EA	3	0%	3	1.65	$ 118.00	$ 194.70	$ 580.00	$ 774.70	$ 2,324.10
199			P3: 48" Dia. Decorative Pendant, 0-10V Dimming, LIGHTART ACC-DIAL-OPE	EA	1	0%	1	2.20	$ 118.00	$ 259.60	$ 1,450.00	$ 1,709.60	$ 1,709.60
200			P11A: 8' Direct/Indirect Linear Suspended Luminaire, Narrow Aperture Design, 0-	EA	37	0%	37	1.75	$ 118.00	$ 206.50	$ 650.00	$ 856.50	$ 31,690.50
201			P11AE: 8' Direct/Indirect Linear Suspended Luminaire, Narrow Aperture Design, (	EA	12	0%	12	2.00	$ 118.00	$ 236.00	$ 810.00	$ 1,046.00	$ 12,552.00
202			P12AE: 12' Direct/Indirect Linear Suspended Luminaire, Narrow Aperture Design	EA	3	0%	3	2.40	$ 118.00	$ 283.20	$ 980.00	$ 1,263.20	$ 3,789.60
203			P21A: 8' Direct/Indirect Linear Suspended Luminaire, Tunable White Controls, DA	EA	2	0%	2	1.90	$ 118.00	$ 224.20	$ 850.00	$ 1,074.20	$ 2,148.40
204			U11: 12" Undercabinet Luminaire, ELV Dimming, BRUCK LIGHTING SABER-	EA	9	0%	9	0.50	$ 118.00	$ 59.00	$ 95.00	$ 154.00	$ 1,386.00
205			U12: 18" Undercabinet Luminaire, ELV Dimming, BRUCK LIGHTING SABER-	EA	1	0%	1	0.55	$ 118.00	$ 64.90	$ 125.00	$ 189.90	$ 189.90
206			U13: 24" Undercabinet Luminaire, ELV Dimming, BRUCK LIGHTING SABER-	EA	12	0%	12	0.60	$ 118.00	$ 70.80	$ 155.00	$ 225.80	$ 2,709.60
207			U14: 32" Undercabinet Luminaire, ELV Dimming, BRUCK LIGHTING SABER-	EA	1	0%	1	0.65	$ 118.00	$ 76.70	$ 185.00	$ 261.70	$ 261.70
208			V1: 3'-4" Perimeter Luminaire, Flush Lens, DMX 0.1% Dimming, RGBW, FINEL	EA	1	0%	1	1.60	$ 118.00	$ 188.80	$ 680.00	$ 868.80	$ 868.80
209			V2: 8' Perimeter Luminaire, Flush Lens, DMX 0.1% Dimming, RGBW, FINELITE	EA	1	0%	1	2.10	$ 118.00	$ 247.80	$ 1,250.00	$ 1,497.80	$ 1,497.80
210			V3: 12' Perimeter Luminaire, Flush Lens, DMX 0.1% Dimming, RGBW, FINELIT	EA	1	0%	1	2.50	$ 118.00	$ 295.00	$ 1,750.00	$ 2,045.00	$ 2,045.00
211			X1: Single Face Exit Sign With Emergency Backup Battery And Self-Diagnostic T	EA	18	0%	18	0.65	$ 118.00	$ 76.70	$ 95.00	$ 171.70	$ 3,090.60
212			X2: Double Face Exit Sign With Emergency Backup Battery And Self-Diagnostic	EA	4	0%	4	0.70	$ 118.00	$ 82.60	$ 115.00	$ 197.60	$ 790.40
			LIGHTING CONTROL										
213			Tunable White Control	EA	6	0%	6	0.55	$ 118.00	$ 64.90	$ 145.00	$ 209.90	$ 1,259.40
214			3-Way Dimmer Switch	EA	5	0%	5	0.35	$ 118.00	$ 41.30	$ 45.00	$ 86.30	$ 431.50
215			Dual Technology Occupancy Sensor, PASSIVE INFRA-RED	EA	35	0%	35	0.42	$ 118.00	$ 49.56	$ 68.00	$ 117.56	$ 4,114.60
216			Dual Technology, PASSIVE INFRA-RED	EA	17	0%	17	0.45	$ 118.00	$ 53.10	$ 68.00	$ 121.10	$ 2,058.70
217			Photocontrol Daylight Sensor	EA	34	0%	34	0.55	$ 118.00	$ 64.90	$ 140.00	$ 204.90	$ 6,966.60
218			Single Pole Dimmer Switch	EA	36	0%	36	0.25	$ 118.00	$ 29.50	$ 12.50	$ 42.00	$ 1,512.00
219			Single Pole Toggle Switch	EA	1	0%	1	0.28	$ 118.00	$ 33.04	$ 12.50	$ 45.54	$ 45.54
220			TS: Touchscreen And DMX Controller	EA	5	0%	5	1.20	$ 118.00	$ 141.60	$ 650.00	$ 791.60	$ 3,958.00
221			Wall Mounted Combination Occupancy Sensor With Dimmer Switch, PASSIVE	EA	35	0%	35	0.48	$ 118.00	$ 56.64	$ 95.00	$ 151.64	$ 5,307.40
			FIXTURE MOUNTING DETAIL										
222			#12x2" Pan Head Screw And Flat Washer	EA	48	0%	48	0.01	$ 118.00	$ 1.18	$ 0.15	$ 1.33	$ 63.84
223		**Length Assumed**	#12 Galvanized Iron Steel Support Wire	LF	850	10%	935	0.01	$ 118.00	$ 0.94	$ 0.12	$ 1.06	$ 994.84
224			Aircraft Cable	LF	320	10%	352	0.02	$ 118.00	$ 1.77	$ 0.45	$ 2.22	$ 781.44
225			Adjustable Bar Hanger With 1/2" Threaded Nipple Fastened To Box With 1/2" Loc	EA	22	0%	22	0.12	$ 118.00	$ 14.16	$ 6.50	$ 20.66	$ 454.52
226			Air Craft Cable Hanger Assembly	EA	50	0%	50	0.15	$ 118.00	$ 17.70	$ 8.50	$ 26.20	$ 1,310.00
227			#8 Sheet Metal Screw	EA	100	0%	100	0.01	$ 118.00	$ 0.59	$ 0.08	$ 0.67	$ 67.00
228			T-Bar Grid	EA	100	0%	100	0.05	$ 118.00	$ 5.90	$ 2.50	$ 8.40	$ 840.00
229			Telescoping Bar Hanger With #10 Sheet Metal Screws	EA	105	0%	105	0.10	$ 118.00	$ 11.80	$ 5.50	$ 17.30	$ 1,816.50
			MISCELLANEOUS										
230			Junction Box	EA	37	0%	37	0.20	$ 118.00	$ 23.60	$ 15.88	$ 39.48	$ 1,460.76
231		**For Future**	Junction Box	EA	2	0%	2	0.20	$ 118.00	$ 23.60	$ 15.88	$ 39.48	$ 78.96
232			Junction Box Wall Mounted	EA	15	0%	15	0.20	$ 118.00	$ 23.60	$ 15.88	$ 39.48	$ 592.20
233			Junction Box Weatherproof	EA	1	0%	1	0.25	$ 118.00	$ 29.50	$ 35.00	$ 64.50	$ 64.50
234			Octagon Outlet Box With Round Device Ring	EA	50	0%	50	0.30	$ 118.00	$ 35.40	$ 9.50	$ 44.90	$ 2,245.00
			SAW CUT										
235			Saw Cut & Repair Concrete Floor For Conduit Installation	LF	69	0%	69	0.09	$ 118.00	$ 10.62	$ 2.25	$ 12.87	$ 888.03
												SUBTOTAL	**$ 644,071**
			COMMUNICATION										
			TELECOMMUNICATION										
			CABLE TRAY										
236			Cable Tray, CTAM STCM-201-5D-8-G	LF	406	0%	406	0.12	$ 118.00	$ 14.16	$ 31.32	$ 45.48	$ 18,468.97
			CABLE TRAY FITTINGS										
237			Cable Tray 90 Deg Elbow	EA	6	0%	6	0.85	$ 118.00	$ 100.30	$ 145.00	$ 245.30	$ 1,471.80
238			Cable Tray Tee	EA	3	0%	3	1.00	$ 118.00	$ 118.00	$ 185.00	$ 303.00	$ 909.00
			CABLE TRAY ACCESSORIES										
239			3/8" Threaded Rod	EA	100	0%	100	0.08	$ 118.00	$ 9.44	$ 3.50	$ 12.94	$ 1,294.00
240			3/16" Dia, 7x7 Steel Aircraft Cable	LF	1244	10%	1368	0.02	$ 118.00	$ 2.36	$ 0.55	$ 2.91	$ 3,982.04
			CONDUIT										
241			1" EMT Conduit Upto Ceiling	LF	1710	10%	1881	0.05	$ 118.00	$ 6.20	$ 2.67	$ 8.87	$ 16,684.18
242			1" PVC SCH 40 Conduit	LF	6	10%	7	0.05	$ 118.00	$ 5.66	$ 1.81	$ 7.48	$ 51.89
			CONDUCTOR										
243			CAT6A Cable (Plenum), LEVITON 10143424	LF	25408	10%	27949	0.01	$ 118.00	$ 0.71	$ 0.42	$ 1.13	$ 31,526.10
			J-HOOKS										
244			Non-Continuous Open Ended Pathway, J-Hook W/ Color Clip, B-LINE BCH-32	EA	240	0%	240	0.08	$ 118.00	$ 9.44	$ 3.80	$ 13.24	$ 3,177.60
			DEVICES										
245		**OFOI**	2-Port Wireless Access Point	EA	14	0%	14	0.00	$ 118.00	$ -	$ -	$ -	$ -
246			RJ45 Connector	EA	28	0%	28	0.05	$ 118.00	$ 5.90	$ 0.72	$ 6.62	$ 185.26
247			4-11/16" SQ. 2-1/8" Deep Backbox	EA	14	0%	14	0.20	$ 118.00	$ 23.60	$ 7.64	$ 31.24	$ 437.36
248			Faceplate	EA	14	0%	14	0.05	$ 118.00	$ 5.90	$ 2.87	$ 8.77	$ 122.71
249			2" Rigid EMT Conduit Sleeve	LF	86	0%	86	0.08	$ 118.00	$ 8.85	$ 4.78	$ 13.63	$ 1,171.75
250			4" Rigid EMT Conduit Sleeve	LF	60	0%	60	0.09	$ 118.00	$ 10.62	$ 9.55	$ 20.17	$ 1,206.97
251			2-Port Voice/Data Outlet, Floor Mounted, B-LINE BCH-32	EA	1	0%	1	0.19	$ 118.00	$ 21.83	$ 27.08	$ 48.91	$ 48.91
252			RJ45 Connector	EA	2	0%	2	0.05	$ 118.00	$ 5.90	$ 0.72	$ 6.62	$ 13.23
253			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1	0%	1	0.20	$ 118.00	$ 23.60	$ 7.64	$ 31.24	$ 31.24
254			Faceplate, LEVITON 42080-2WS	EA	1	0%	1	0.05	$ 118.00	$ 5.90	$ 4.78	$ 10.68	$ 10.68
255			2-Port Voice/Data Outlet, Wall Mounted, B-LINE BCH-32	EA	113	0%	113	0.19	$ 118.00	$ 21.83	$ 27.08	$ 48.91	$ 5,527.26
256			RJ45 Connector	EA	226	0%	226	0.05	$ 118.00	$ 5.90	$ 0.72	$ 6.62	$ 1,495.27
257			4-11/16" SQ. 2-1/8" Deep Backbox	EA	113	0%	113	0.20	$ 118.00	$ 23.60	$ 7.64	$ 31.24	$ 3,530.12
258			Faceplate, LEVITON 42080-2WS	EA	113	0%	113	0.05	$ 118.00	$ 5.90	$ 4.78	$ 10.68	$ 1,206.28
259			4'x8'x3/4" Fire Rated Plywood, Painted Color: White	LF	26	0%	26	0.05	$ 118.00	$ 5.31	$ 7.16	$ 12.47	$ 320.42
			MDF RACK										
260			18"-Wide 4-Post Ladder Rack, Color: Black	LF	13	0%	13	0.30	$ 118.00	$ 35.40	$ 28.00	$ 63.40	$ 797.57
261			4-Post MDF Equipment Rack, 45RU, Floor Mounted, CHATSWORTH 15053-703	EA	1	0%	1	6.00	$ 118.00	$ 708.00	$ 2,450.00	$ 3,158.00	$ 3,158.00
262			0.625" Dia Expansion Anchor, HILTI KWIKBOLT TZ2	EA	4	0%	4	0.11	$ 118.00	$ 13.00	$ 343.00	$ 356.00	$ 1,424.01
263			18"x18"x6" NEMA-3R Wall Mounted Pull Box With Hinged Locking Keyed Lid	EA	2	0%	2	0.83	$ 118.00	$ 97.53	$ 309.00	$ 406.53	$ 813.05
264			2A: Fiber LIU, LEVITON 5R4UH-S12	EA	1	0%	1	0.55	$ 118.00	$ 65.02	$ 1,112.13	$ 1,177.15	$ 1,177.15
265			2B: OS Adapter Cassette Type LC, LEVITON	EA	1	0%	1	0.22	$ 118.00	$ 26.01	$ 265.80	$ 291.81	$ 291.81
266			4: Data Switch-48 Port POE+	EA	3	0%	3	0.55	$ 118.00	$ 65.02	$ 749.99	$ 815.01	$ 2,445.02
267			4: Fiber Transceiver Module, LC	EA	6	0%	6	0.17	$ 118.00	$ 19.51	$ 143.33	$ 162.83	$ 976.98
268			5A: Patch Panel-With Rear Wire Manager (24-Port), LEVITON 49255-L24	EA	2	0%	2	0.33	$ 118.00	$ 39.01	$ 76.44	$ 115.45	$ 230.90
269			5B: Patch Panel-With Rear Wire Manager (48-Port), LEVITON 49255-L48	EA	2	0%	2	0.39	$ 118.00	$ 45.51	$ 114.66	$ 160.17	$ 320.35
270			6: Horizontal Wire Manager, LEVITON NCMHF3	EA	7	0%	7	0.17	$ 118.00	$ 19.51	$ 43.00	$ 62.50	$ 437.52
271			7: Network Interface Card, APC AP9641	EA	1	0%	1	0.22	$ 118.00	$ 26.01	$ 477.75	$ 503.76	$ 503.76
272			7: UPS Battery Backup, 5000VA,7RU, APC SUA5000R5TXFMR	EA	1	0%	1	2.20	$ 118.00	$ 260.07	$ 6,875.99	$ 7,136.06	$ 7,136.06
273			8: Horizontal Power Distribution Unit, APC AP9562	EA	1	0%	1	0.33	$ 118.00	$ 39.01	$ 382.20	$ 421.21	$ 421.21
274			9: Vertical Wire Manager, MIDDLE ATLANTIC PCD-4-4-45SC	EA	2	0%	2	0.55	$ 118.00	$ 65.02	$ 286.65	$ 351.67	$ 703.34
			SECURITY										
			CONDUIT										
275			1/2" EMT Conduit Upto Ceiling	LF	765	10%	842	0.03	$ 118.00	$ 3.81	$ 1.00	$ 4.81	$ 4,043.83
276			1" EMT Conduit Upto Ceiling	LF	180	10%	198	0.05	$ 118.00	$ 6.20	$ 2.67	$ 8.87	$ 1,756.23
			CONDUCTOR										
277			18/6C Low-Voltage Control Cable – WEST PENN 25186B	LF	1828	10%	2011	0.01	$ 118.00	$ 1.18	$ 0.65	$ 1.83	$ 3,680.31
278			18/6C Low-Voltage Control Cable – WEST PENN 3021	LF	2923	10%	3215	0.01	$ 118.00	$ 1.18	$ 0.62	$ 1.80	$ 5,787.16
279			CAT6A Cable (Plenum), LEVITON 10143424	LF	1087	10%	1196	0.01	$ 118.00	$ 0.71	$ 0.42	$ 1.13	$ 1,348.96
			DEVICES										
280			Access Hardware Electrified Connection	EA	14	0%	14	0.85	$ 118.00	$ 100.30	$ -	$ 100.30	$ 1,404.20
281			Exterior Wall Surveillance Camera With IR Sensor, Smoked Dome Vandal Cover A	EA	10	0%	10	1.25	$ 118.00	$ 147.50	$ 8.00	$ 155.50	$ 1,555.00
282			4-11/16" SQ. 2-1/8" Deep Backbox	EA	10	0%	10	0.20	$ 118.00	$ 23.60	$ 275.00	$ 298.60	$ 2,986.00
283			Intrusion Alarm Control Keypad, #7872-W	EA	1	0%	1	0.40	$ 118.00	$ 47.20	$ 247.20	$ 294.40	$ 294.40
284			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1	0%	1	0.20	$ 118.00	$ 23.60	$ 45.00	$ 68.60	$ 68.60
285			Intrusion Alarm Door Contact, ABLOY EA 500	EA	12	0%	12	0.30	$ 118.00	$ 35.40	$ 181.40	$ 216.80	$ 2,601.60
286			Intrusion Alarm Proximity Motion Sensor, BOSCH ISC-CDL1-W15G	EA	28	0%	28	0.40	$ 118.00	$ 47.20	$ 66.01	$ 113.21	$ 3,169.88
287			4-11/16" SQ. 2-1/8" Deep Backbox	EA	28	0%	28	0.20	$ 118.00	$ 23.60	$ 8.00	$ 31.60	$ 884.80
288			Proximity Card Reader, HID SIGNO 20K	EA	12	0%	12	0.50	$ 118.00	$ 59.00	$ 443.15	$ 502.15	$ 6,025.80
289		**T-201, T-221, T-401, T-402, T-601, T-602 & T-801**	Single Gang, 2-1/8" Deep Backbox	EA	10	0%	10	0.20	$ 118.00	$ 23.60	$ 18.88	$ 42.48	$ 424.80
290			Expansion Module	EA	2	0%	2	0.30	$ 118.00	$ 35.40	$ 150.00	$ 185.40	$ 370.80
291		**OFOI**	Intrusion Alarm Control Panel With Enclosure, DIGITAL MONITORING PROD	EA	1	0%	1	0.00	$ 118.00	$ -	$ -	$ -	$ -
292			Intelligent Controller (4 Readers, 8 Inputs, 4 Outputs), MERCURY MP4502	EA	3	0%	3	0.75	$ 118.00	$ 88.50	$ 1,299.00	$ 1,387.50	$ 4,162.50
			AUDIO/VISUAL SYSTEM										
			CONDUIT										
293			1" EMT Conduit Upto Ceiling	LF	585	10%	644	0.05	$ 118.00	$ 6.20	$ 2.67	$ 8.87	$ 5,707.75
			CONDUCTOR										
294			Audio Speaker Cable, PROCO #WC-12-2	LF	349	10%	384	0.01	$ 118.00	$ 1.42	$ 0.55	$ 1.97	$ 754.68
295			CAT6 UTP, BERKTEK, LANMARK	LF	4415	10%	4857	0.01	$ 118.00	$ 0.71	$ 0.28	$ 0.99	$ 4,798.65
296			RS232 Control Cable	LF	35	10%	39	0.02	$ 118.00	$ 1.77	$ 0.65	$ 2.42	$ 93.17
			DEVICES										
297			8" Lay-In Speaker, JBL	EA	14	0%	14	0.35	$ 118.00	$ 41.30	$ 125.00	$ 166.30	$ 2,328.20
298			Amplifier-1, EXTRON 60-850-01	EA	1	0%	1	1.79	$ 118.00	$ 210.63	$ 1,250.00	$ 1,460.63	$ 1,460.63

Phone: +1 708-381-0900

DETAILED BREAKDOWN OF ITEMS

Prepared for: Citrus Heights Water District, 7803 B Madison Ave, Citrus Heights, CA 95610
Project ID: 2092026
Scope: Electrical

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
299			Amplifier-2, EXTRON 60-850-01	EA	1	0%	1	1.79	$ 118.00	$ 210.63	$ 1,250.00	$ 1,460.63	$ 1,460.63
300			Audio-Video Control Panel	EA	5	0%	5	1.00	$ 118.00	$ 118.00	$ 750.00	$ 868.00	$ 4,340.00
301			4-11/16" SQ. 2-1/8" Deep Backbox	EA	5	0%	5	0.22	$ 118.00	$ 25.96	$ 8.00	$ 33.96	$ 169.80
302			Audio-Video Input Plate	EA	16	0%	16	0.58	$ 118.00	$ 68.44	$ 75.00	$ 143.44	$ 2,295.04
303			4-11/16" SQ. 2-1/8" Deep Backbox	EA	16	0%	16	0.22	$ 118.00	$ 25.96	$ 8.00	$ 33.96	$ 543.36
304			Audio-Video Output Plate	EA	18	0%	18	0.58	$ 118.00	$ 68.44	$ 75.00	$ 143.44	$ 2,581.92
305			4-11/16" SQ. 2-1/8" Deep Backbox	EA	18	0%	18	0.22	$ 118.00	$ 25.96	$ 8.00	$ 33.96	$ 611.28
			EQUIPMENT										
306			TV-1: LED TV/Monitor With Mount, Size: 75"	EA	1	0%	1	3.00	$ 118.00	$ 354.00	$ 1,450.00	$ 1,804.00	$ 1,804.00
307			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1	0%	1	0.15	$ 118.00	$ 17.70	$ 6.15	$ 23.85	$ 23.85
308			TV-2: LED TV/Monitor With Mount, Size: 75"	EA	1	0%	1	3.00	$ 118.00	$ 354.00	$ 1,450.00	$ 1,804.00	$ 1,804.00
309			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1	0%	1	0.15	$ 118.00	$ 17.70	$ 6.15	$ 23.85	$ 23.85
310			TV-3: LED TV/Monitor With Mount, Size: 78"	EA	1	0%	1	3.20	$ 118.00	$ 377.60	$ 1,650.00	$ 2,027.60	$ 2,027.60
311			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1	0%	1	0.15	$ 118.00	$ 17.70	$ 6.15	$ 23.85	$ 23.85
312			TV-4: LED TV/Monitor With Mount, Size: 78"	EA	1	0%	1	3.20	$ 118.00	$ 377.60	$ 1,650.00	$ 2,027.60	$ 2,027.60
313			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1	0%	1	0.15	$ 118.00	$ 17.70	$ 6.15	$ 23.85	$ 23.85
314			TV-5: LED TV/Monitor With Mount, Size: 97"	EA	1	0%	1	5.00	$ 118.00	$ 590.00	$ 4,200.00	$ 4,790.00	$ 4,790.00
315			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1	0%	1	0.15	$ 118.00	$ 17.70	$ 6.15	$ 23.85	$ 23.85
316			TV-6: LED TV/Monitor With Mount, Size: 97"	EA	1	0%	1	5.00	$ 118.00	$ 590.00	$ 4,200.00	$ 4,790.00	$ 4,790.00
317			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1	0%	1	0.15	$ 118.00	$ 17.70	$ 6.15	$ 23.85	$ 23.85
318			TV-7: LED TV/Monitor With Mount, Size: 78"	EA	1	0%	1	3.20	$ 118.00	$ 377.60	$ 1,650.00	$ 2,027.60	$ 2,027.60
319			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1	0%	1	0.15	$ 118.00	$ 17.70	$ 6.15	$ 23.85	$ 23.85
320			TV-8: LED TV/Monitor With Mount, Size: 78"	EA	1	0%	1	3.20	$ 118.00	$ 377.60	$ 1,650.00	$ 2,027.60	$ 2,027.60
321			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1	0%	1	0.15	$ 118.00	$ 17.70	$ 6.15	$ 23.85	$ 23.85
322			TV-9: LED TV/Monitor With Mount, Size: 97"	EA	1	0%	1	5.00	$ 118.00	$ 590.00	$ 4,200.00	$ 4,790.00	$ 4,790.00
323			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1	0%	1	0.15	$ 118.00	$ 17.70	$ 6.15	$ 23.85	$ 23.85
324			TV-10: LED TV/Monitor With Mount, Size: 97"	EA	1	0%	1	5.00	$ 118.00	$ 590.00	$ 4,200.00	$ 4,790.00	$ 4,790.00
325			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1	0%	1	0.15	$ 118.00	$ 17.70	$ 6.15	$ 23.85	$ 23.85
326			TV-11: LED TV/Monitor With Mount, Size: 54"	EA	1	0%	1	2.20	$ 118.00	$ 259.60	$ 750.00	$ 1,009.60	$ 1,009.60
327			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1	0%	1	0.15	$ 118.00	$ 17.70	$ 6.15	$ 23.85	$ 23.85
328			TV-12: LED TV/Monitor With Mount, Size: 54"	EA	1	0%	1	2.20	$ 118.00	$ 259.60	$ 750.00	$ 1,009.60	$ 1,009.60
329			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1	0%	1	0.15	$ 118.00	$ 17.70	$ 6.15	$ 23.85	$ 23.85
330			TV-13: LED TV/Monitor With Mount, Size: 54"	EA	1	0%	1	2.20	$ 118.00	$ 259.60	$ 750.00	$ 1,009.60	$ 1,009.60
331			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1	0%	1	0.15	$ 118.00	$ 17.70	$ 6.15	$ 23.85	$ 23.85
332			TV-14: LED TV/Monitor With Mount, Size: 54"	EA	1	0%	1	2.20	$ 118.00	$ 259.60	$ 750.00	$ 1,009.60	$ 1,009.60
333			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1	0%	1	0.15	$ 118.00	$ 17.70	$ 6.15	$ 23.85	$ 23.85
334			TV-15: LED TV/Monitor With Mount, Size: 72"	EA	1	0%	1	2.80	$ 118.00	$ 330.40	$ 1,350.00	$ 1,680.40	$ 1,680.40
335			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1	0%	1	0.15	$ 118.00	$ 17.70	$ 6.15	$ 23.85	$ 23.85
336			TV-16: LED TV/Monitor With Mount, Size: 45"	EA	1	0%	1	1.80	$ 118.00	$ 212.40	$ 595.00	$ 807.40	$ 807.40
337			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1	0%	1	0.15	$ 118.00	$ 17.70	$ 6.15	$ 23.85	$ 23.85
338			TV-17: LED TV/Monitor With Mount, Size: 45"	EA	1	0%	1	1.80	$ 118.00	$ 212.40	$ 595.00	$ 807.40	$ 807.40
339			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1	0%	1	0.15	$ 118.00	$ 17.70	$ 6.15	$ 23.85	$ 23.85
			AUDIO VIDEO RACK										
340			18"-Wide 4-Post Ladder Rack, Color: Black	LF	5	0%	5	0.30	$ 118.00	$ 35.40	$ 28.00	$ 63.40	$ 297.98
341			Audiovisual Equipment Rack With Control Equipment, MIDDLE ATLANTIC SR-	EA	1	0%	1	4.12	$ 118.00	$ 486.16	$ 2,658.58	$ 3,144.74	$ 3,144.74
342			2A: Fiber LIU, LEVITON 5R1UH-S03	EA	1	0%	1	2.15	$ 118.00	$ 253.70	$ 344.68	$ 598.38	$ 598.38
343			2B: OS Adapter Cassette Type LC, LEVITON	EA	1	0%	1	0.20	$ 118.00	$ 23.60	$ 85.00	$ 108.60	$ 108.60
344			3: Horizontal Wire Manageer-1RU, LEVITON 49253-LPM	EA	5	0%	5	0.15	$ 118.00	$ 17.70	$ 45.00	$ 62.70	$ 313.50
345			4: Patch Panel With Rear Wire Manager (24-Port)-1RU, LEVITON 49255-H24	EA	4	0%	4	0.30	$ 118.00	$ 35.40	$ 80.00	$ 115.40	$ 461.60
346		OFOI	5: Data Switch-48 Port POE-1RU	EA	2	0%	2	0.00	$ 118.00	$ -	$ -	$ -	$ -
347			5: SMF Fiber Transceiver Module, LC	EA	4	0%	4	0.00	$ 118.00	$ -	$ -	$ -	$ -
348			6: Horizontal Power Distribution Unit-1RU, CHATSWORTH 12820-703	EA	1	0%	1	0.25	$ 118.00	$ 29.50	$ 250.00	$ 279.50	$ 279.50
349			7: Blank Panel-1RU, MIDDLE ATLANTIC EM1	EA	1	0%	1	0.05	$ 118.00	$ 5.90	$ 15.00	$ 20.90	$ 20.90
350			8: Vented Blank Panel-1RU, MIDDLE ATLANTIC VT1	EA	2	0%	2	0.05	$ 118.00	$ 5.90	$ 20.00	$ 25.90	$ 51.80
			SAW CUT										
351			Saw Cut & Repair Concrete Floor For Conduit Installation	LF	6	0%	6	0.09	$ 118.00	$ 10.62	$ 2.25	$ 12.87	$ 81.21
												SUBTOTAL	$ 225,395
			ELECTRONIC SAFETY AND SECURITY										
			FIRE ALARM										
			CONDUIT										
352			3/4" EMT Conduit	LF	857	10%	943	0.05	$ 118.00	$ 5.49	$ 1.76	$ 7.25	$ 6,830.53
353			1" EMT Conduit	LF	35	10%	38	0.05	$ 118.00	$ 6.20	$ 2.67	$ 8.87	$ 337.78
354			1" PVC SCH 40 Conduit	LF	67	10%	73	0.05	$ 118.00	$ 5.66	$ 1.81	$ 7.48	$ 547.20
			CONDUCTOR										
355			2#16 UTP, WP#AQ225	LF	67	10%	73	0.01	$ 118.00	$ 0.71	$ 0.32	$ 1.03	$ 75.24
356			2#16 UTP, FPLR Solid	LF	500	10%	550	0.01	$ 118.00	$ 0.71	$ 0.28	$ 0.99	$ 543.43
357			4#16 UTP, FPLR Solid	LF	35	10%	38	0.01	$ 118.00	$ 0.83	$ 0.45	$ 1.28	$ 48.59
358			2#14 UTP, FPLR Solid	LF	619	10%	681	0.01	$ 118.00	$ 0.71	$ 0.32	$ 1.03	$ 700.36
			DEVICES										
359			Ceiling Acend Horn Strobe, Red Fire, SIEMENS, SC-HS-CR-F	EA	20	0%	20	0.85	$ 118.00	$ 100.30	$ 106.49	$ 206.79	$ 4,135.80
360			Ceiling Acend Horn Strobe, Red Fire, SIEMENS, SL23HRS-FR	EA	1	0%	1	0.85	$ 118.00	$ 100.30	$ 106.49	$ 206.79	$ 206.79
361			Ceiling Acend Strobe Red Fire, SIEMENS, SC-ST-CR-F	EA	14	0%	14	0.70	$ 118.00	$ 82.60	$ 95.00	$ 177.60	$ 2,486.40
362			Wall Acend Strobe Red Fire, SIEMENS, SC-ST-WR-F	EA	3	0%	3	0.70	$ 118.00	$ 82.60	$ 95.00	$ 177.60	$ 532.80
363		FA-201	XTRI-M Mini Input Monitor Module With Built In Isolator, SEIMENS, XTRI-M	EA	4	0%	4	0.95	$ 118.00	$ 112.10	$ 185.00	$ 297.10	$ 1,188.40
364			Assembly, Fire Alarm Control Panel, Addressable, SEIMENS, FC2025-US	EA	1	0%	1	2.85	$ 118.00	$ 336.30	$ 1,747.43	$ 2,083.73	$ 2,083.73
365			Dialer Module #FCA2015-U1	EA	1	0%	1	0.40	$ 118.00	$ 47.20	$ 416.48	$ 463.68	$ 463.68
366			NAC Module, FCI2011-U1	EA	1	0%	1	0.35	$ 118.00	$ 41.30	$ 323.93	$ 365.23	$ 365.23
367			Periphery Board, #FCI2016-U1	EA	1	0%	1	0.40	$ 118.00	$ 47.20	$ 370.20	$ 417.40	$ 417.40
368			Card, Standard Operating Unit, FCM2018-U2	EA	1	0%	1	0.50	$ 118.00	$ 59.00	$ 462.75	$ 521.75	$ 521.75
369			Card, 170 Watt Power Supply, FP2016-U1	EA	1	0%	1	0.50	$ 118.00	$ 59.00	$ 601.58	$ 660.58	$ 660.58
370			System Record Documents Cabinet-Red, Space Age Electronics, SSU00689	EA	1	0%	1	0.75	$ 118.00	$ 88.50	$ 185.00	$ 273.50	$ 273.50
371			Smoke Detector W/6" Base, SIEMENS, OP921 W/DB-11 Base	EA	5	0%	5	0.75	$ 118.00	$ 88.50	$ 95.00	$ 183.50	$ 917.50
372			Remote Terminal (KEY, BL), SIEMENS, FT2015-U3	EA	1	0%	1	2.50	$ 118.00	$ 295.00	$ 650.00	$ 945.00	$ 945.00
373			Manual Station-Single Action, SIEMENS, HMS-S	EA	1	0%	1	0.65	$ 118.00	$ 76.70	$ 95.00	$ 171.70	$ 171.70
374			Duct Smoke Detector With Control Relay Module, SIEMENS, FDBZ492-HR W/FDO421	EA	1	0%	1	2.00	$ 118.00	$ 236.00	$ 485.00	$ 721.00	$ 721.00
375			Backflow Tamper Switches	EA	2	0%	2	0.75	$ 118.00	$ 88.50	$ 95.00	$ 183.50	$ 367.00
376			Flow Switch	EA	1	0%	1	0.85	$ 118.00	$ 100.30	$ 145.00	$ 245.30	$ 245.30
377			Tamper Switch	EA	1	0%	1	0.75	$ 118.00	$ 88.50	$ 95.00	$ 183.50	$ 183.50
378			Documentation Cabinet	EA	1	0%	1	0.65	$ 118.00	$ 76.70	$ 145.00	$ 221.70	$ 221.70
												SUBTOTAL	$ 26,192

		PROJECTED COST	**$1,013,723**
OVERHEAD		**15%**	**$152,058**
PROFIT		**15%**	**$152,058**
SUB-CONTRACTOR MARGIN		**10%**	**$38,618**
INSURANCE		**3%**	**$30,412**
CONTINGENCY		**5%**	**$50,686**
TAX		**7.75%**	**$41,543**
	SUGGESTED BID		**$1,479,099**

Notes:

1. Online sources are used for pricing.
2. Prices can vary depending upon field conditions.
3. The electrical scope of work was included based on the drawings, including all low-voltage/telecommunication work shown. If the intended scope is rough-in only for the low-voltage/telecommunication systems, please confirm so the corresponding work
e removed from the estimate.

Phone: +1 708-381-0900

MATERIAL LIST

Prepared for: Citrus Heights Water District, 7803 B Madison Ave, Citrus Heights, CA 95610
Project ID: 2092026
Scope: Electrical

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
			ELECTRICAL		
			DISTRIBUTION		
			CONDUIT (CUT LENGTH = 10 LF)		
1			1" EMT Conduit	EA	78
2			1-1/4" EMT Conduit	EA	5
3			2" EMT Conduit	EA	2
4			2-1/2" EMT Conduit	EA	29
5			3" EMT Conduit	EA	80
6			1" RGS Conduit	EA	4
7			1-1/4" RGS Conduit	EA	1
8			1" LFMC Conduit	EA	2
9			1-1/4" LFMC Conduit	EA	1
			CONDUCTOR (1 ROLL = 200 LF)		
10			#10 CU THHN/THWN	EA	3
11			#8 CU THHN/THWN	EA	1
12			#6 CU THHN/THWN	EA	8
13			#4 CU THHN/THWN	EA	2
14			#3 CU THHN/THWN	EA	1
15			#1 CU THHN/THWN	EA	1
16			#2/0 CU THHN/THWN	EA	4
17			#3/0 CU THHN/THWN	EA	3
18			#4/0 CU THHN/THWN	EA	3
19			#400KCMIL CU THHN/THWN	EA	18
			LUGS		
20			Compression Lug CU With 1-Hole , #8 CU Wire	EA	4
21			Heat Shrink Tubing for #8 CU Wire	EA	4
22			Compression Lug CU With 1-Hole , #6 CU Wire	EA	42
23			Heat Shrink Tubing for #6 CU Wire	EA	42
24			Compression Lug CU With 1-Hole , #4 CU Wire	EA	10
25			Heat Shrink Tubing for #4 CU Wire	EA	10
26			Compression Lug CU With 1-Hole , #3 CU Wire	EA	8
27			Heat Shrink Tubing for #3 CU Wire	EA	8
28			Compression Lug CU With 1-Hole , #1 CU Wire	EA	8
29			Heat Shrink Tubing for #1 CU Wire	EA	8
30			Compression Lug CU With 1-Hole , #2/0 CU Wire	EA	18
31			Heat Shrink Tubing for #2/0 CU Wire	EA	18
32			Compression Lug CU With 1-Hole , #3/0 CU Wire	EA	32
33			Heat Shrink Tubing for #3/0 CU Wire	EA	32
34			Compression Lug CU With 1-Hole , #4/0 CU Wire	EA	16
35			Heat Shrink Tubing for #4/0 CU Wire	EA	16
36			Compression Lug CU With 1-Hole , #400 KCMIL CU Wire	EA	96
37			Heat Shrink Tubing for #400 KCMIL CU Wire	EA	96
			CIRCUIT BREAKER		
38			1P/20A Breaker	EA	121
39			1P/20A Breaker With Handle Tie	EA	2
40			2P/15A Breaker	EA	4
41			2P/20A Breaker	EA	4
42			2P/25A Breaker	EA	7
43			2P/30A Breaker	EA	1
44			2P/50A Breaker	EA	1
45			3P/15A Breaker	EA	1
46			3P/20A Breaker	EA	2
47			3P/50A Breaker	EA	2

MATERIAL LIST

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ELECTRICAL ESTIMATION
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Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
48			3P/60A Breaker	EA	6
49			3P/70A Breaker	EA	1
50			3P/100A Breaker	EA	1
51		(For Future)	3P/100A Breaker	EA	2
52			3P/225A Breaker	EA	2
53			3P/400A Breaker	EA	2
54			3P/1000A Breaker	EA	1
			PANEL		
55			Main Switchboard MSB: 1000A, 120/208V, 3Ph, 4W, 65KAIC, 24 Poles, Surface Mounted, NEMA 1 Enclosure W/ 1000A, 120/208V, 3Ph, 4W CU Bussing 1000A Meter Socket, CT Compartment, Test Block And Bypass Standard Integrated Surge Protection Device With Disconnect Switch: Minimum 250KA/Phase, 125KA/Mode Underground Pull Section Neutral Link	EA	1
56			Panel A: 225A, 120/208 Wye, 3Ph, 4W, Mains: MLO, 22KAIC, 72 Poles, Reces	EA	1
57			Panel B: 400A, 120/208 Wye, 3Ph, 4W, Mains: MLO, 22KAIC, 42 Poles, Recess	EA	1
58			Panel C: 400A, 120/208 Wye, 3Ph, 4W, Mains: MLO, 22KAIC, 42 Poles, Recess	EA	1
59			Panel D: 225A, 120/208 Wye, 3Ph, 4W, Mains: MLO, 22KAIC, 60 Poles, Reces	EA	1
			DEVICES		
60			1000A, 120/208V, 3Ph, 4W, 50KAIC Manual Transfer Switch, NEMA 3R	EA	1
61			1000A, 120/208V, 3Ph, 4W, 50KAIC Portable Generator Cam Lock Tap Box, N	EA	1
62		Only Installation	100A Revenue Grade Sub Meter	EA	1
			DISCONNECT SWITCH		
63			2P/15AS/12AF Fused Disconnect Switch, NEMA 3R	EA	1
64			2P/15AS/15AF Fused Disconnect Switch, NEMA 3R	EA	3
65		Rating Assumed From Panel	2P/20A Fused Disconnect Switch, NEMA 3R	EA	8
66			2P/20AS/19AF Fused Disconnect Switch, NEMA 3R	EA	4
67		Rating Assumed From Panel	2P/25A Non-Fused Disconnect Switch, NEMA 1	EA	1
68			2P/25AS/25AF Fused Disconnect Switch, NEMA 3R	EA	6
69			3P/50AS/47AF Fused Disconnect Switch, NEMA 3R	EA	2
70			3P/60AS/49AF Fused Disconnect Switch, NEMA 3R	EA	3
71			3P/60AS/53AF Fused Disconnect Switch, NEMA 3R	EA	2
72			3P/70AS/62AF Fused Disconnect Switch, NEMA 3R	EA	1
			GROUNDING		
73			MBGB: Main Grounding Busbar	EA	1
74			AVGB: AV Ground Busbar	EA	1
75			TGB: 13"x2" Technology Ground Busbar	EA	2
76			3/8" Lock Washer	EA	2
77			3/8" Wood Lag Screw	EA	4
78			Busbar Support Bracket	EA	2
79			Isolation Support Spacer	EA	2
80			Ground Busbar	EA	1
81			Neutral Busbar	EA	1
82			#6 CU Ground Conductor (1 ROLL = 200 LF)	EA	1
83			#4 CU Ground Conductor (1 ROLL = 200 LF)	EA	1
84			#3/0 CU Ground Conductor (1 ROLL = 200 LF)	EA	1
85			#300 KCMIL CU Ground Conductor (1 ROLL = 200 LF)	EA	1
86			1-1/4" PVC SCH 40 Conduit (CUT LENGTH = 10 LF)	EA	4
			POWER		
			CONDUIT (CUT LENGTH = 10 LF)		
87	E-201, E-221, E-211, E-401, E-502 & E-801		1/2" EMT Conduit	EA	834
88			1/2" PVC SCH 40 Conduit	EA	7
89			1/2" RGS Conduit	EA	11
90			1/2" LFMC Conduit	EA	7
91			1/2" FMC Conduit	EA	1
			CONDUCTOR (1 ROLL = 200 LF)		
92			#12 CU THHN/THWN	EA	80
93			#10 CU THHN/THWN	EA	51
			DEVICE		
94			2 Pole Motor Rated Switch	EA	14
95			15A Equipment Connection	EA	4
96			20A Equipment Connection	EA	4
97			25A Equipment Connection	EA	6
98			30A, Special Purpose Receptacle, NEMA L6-30R	EA	1
99			Combination Floor Flush Mounted Duplex Controlled Receptacle	EA	1
100			Dedicated Double Duplex Receptacle	EA	1

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SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
101			Dedicated Duplex Receptacle	EA	7
102			Dedicated GFCI Duplex Receptacle	EA	1
103			Dedicated GFCI Duplex Receptacle Above Counter	EA	2
104			Duplex Controlled Receptacle	EA	90
105			Duplex Controlled Receptacle Mounted Above Counter Top	EA	13
106			Duplex Receptacle	EA	44
107			Duplex Receptacle Mounted Above Counter Top	EA	3
108			Exhaust Fan Connection	EA	2
109			Floor Flush Mounted Double Duplex Receptacle	EA	7
110			Floor Flush Mounted Duplex Controlled Receptacle	EA	1
111			Fourplex Controlled Receptacle	EA	37
112			Fourplex Controlled Receptacle Mounted Above Counter Top	EA	1
113			Fourplex Receptacle	EA	1
114			GFCI Controlled Duplex Receptacle	EA	6
115			GFCI Controlled Duplex Receptacle Mounted Above Counter Top And/Or Sink B	EA	6
116			GFCI Duplex Receptacle	EA	15
117			GFCI Duplex Receptacle Mounted Above Counter Top And/Or Sink Backsplash	EA	8
118			GFCI Duplex Receptacle Weatherproof While In Use	EA	5
119			Motor Rated Switch	EA	15
120			Plug Load Controller	EA	49
121			Single Pole Switch	EA	1
122			Surface Mounted Raceway And Box Wiremold 800 Series	EA	2
			LIGHTING		
			CONDUIT (CUT LENGTH = 10 LF)		
123			1/2" EMT Conduit	EA	363
124			3/4" EMT Conduit	EA	5
125		**For Future**	1" EMT Conduit With Pull string	EA	22
126			1/2" Flexible Conduit	EA	25
			CONDUCTOR (1 ROLL = 200 LF)		
127			#12 CU THHN/THWN	EA	11
128			#10 CU THHN/THWN	EA	4
129			#8 CU THHN/THWN	EA	45
			LIGHTING FIXTURES		
130			D1: 4.5" Square Downlight, FOCAL POINT FLC44D-SQ-SW-1000L-UNV-LZ1-	EA	45
131			D1E: 4.5" Square Downlight, 0-10V 0% Dimming, Bar Hangers, Very Wide Flooc	EA	14
132			ED: 6" Downlight Retrofit Kit, Wide Distribution, GREEN CREATIVE ED8-80-4	EA	19
133			EDE: 6" Downlight Retrofit Kit, Wide Distribution, Except With 90 Min. Emerger	EA	5
134			D2: 3.5" Cylinder, 0-10V 0% Dimming, Very Wide Flood Distribution, FOCAL P	EA	16
135			D2E: 3.5" Cylinder, 0-10V 0% Dimming, Very Wide Flood Distribution, Except W	EA	8
136			D3: 4.5 Square Downlight, 0-10V Dimming, Tunable White Controls, Open Reflec	EA	4
137			P4: 4' Flat Lens Strip Luminaire, Frosted Acrylic Shielding, 0-10V Dimming, HE V	EA	6
138			P4E: 4' Flat Lens Strip Luminaire, Frosted Acrylic Shielding, 0-10V Dimming, Ex	EA	2
139			R1A2: 8' Linear Luminaire Flush Lens, Tunable White, DALI 1% Dimming, FOC	EA	4
140			R11: 4' Linear Luminaire, 1% 0-10V Dimming, Continuous Seamless Flat Diffusic	EA	8
141			R11E: 4' Linear Luminaire, 1% 0-10V Dimming, Continuous Seamless Flat Diffus	EA	2
142			R12: 8' Linear Luminaire, 1% 0-10V Dimming, Continuous Seamless Flat Diffusic	EA	2
143			W11: 2' Perimeter Luminaire, Flush Lens, 0-10V Dimming, FOCAL POINT FSM	EA	3
144			W12: 3' Perimeter Luminaire, Flush Lens, 0-10V Dimming, FOCAL POINT FSM	EA	1
145			W13: 4' Perimeter Luminaire, Flush Lens, 0-10V Dimming, FOCAL POINT FSM	EA	14
146			W32: 4'-10" Perimeter Luminaire, Flush Lens, 0-10V Dimming, FOCAL POINT F	EA	3
147			W35: 10' Perimeter Luminaire, Flush Lens, 0-10V Dimming, FOCAL POINT FSM	EA	1
148			C11: 1ft Cove Interior RGBW Luminaire, SOLID STATE LUMINAIRES CLCV-	EA	189
149			C12: 1ft Cove Interior RGBW Luminaire, SOLID STATE LUMINAIRES CLCV-	EA	74
150			P1: 8' Direct/Indirect Linear Suspended Luminaire, Narrow Aperture Design, 0-10	EA	10
151			P1E: 8' Direct/Indirect Linear Suspended Luminaire, Narrow Aperture Design, 0-1	EA	16
152			P2: 8' Direct Linear Suspended Luminaire, Narrow Aperture Design, 0-10V Dimm	EA	3
153			P3: 48" Dia. Decorative Pendant, 0-10V Dimming, LIGHTART ACC-DIAL-OPEI	EA	1
154			P11A: 8' Direct/Indirect Linear Suspended Luminaire, Narrow Aperture Design, 0-	EA	37
155			P11AE: 8' Direct/Indirect Linear Suspended Luminaire, Narrow Aperture Design, (	EA	12
156			P12AE: 12' Direct/Indirect Linear Suspended Luminaire, Narrow Aperture Design,	EA	3
157			P21A: 8' Direct/Indirect Linear Suspended Luminaire, Tunable White Controls, DA	EA	2
158			U11: 12" Undercabinet Luminaire, ELV Dimming, BRUCK LIGHTING SABER-	EA	9
159			U12: 18" Undercabinet Luminaire, ELV Dimming, BRUCK LIGHTING SABER-	EA	1
160			U13: 24" Undercabinet Luminaire, ELV Dimming, BRUCK LIGHTING SABER-	EA	12
161			U14: 32" Undercabinet Luminaire, ELV Dimming, BRUCK LIGHTING SABER-	EA	1
162			V1: 3'-4" Perimeter Luminaire, Flush Lens, DMX 0.1% Dimming, RGBW, FINEL	EA	1
163			V2: 8' Perimeter Luminaire, Flush Lens, DMX 0.1% Dimming, RGBW, FINELITI	EA	1
164			V3: 12' Perimeter Luminaire, Flush Lens, DMX 0.1% Dimming, RGBW, FINELIT	EA	1
165			X1: Single Face Exit Sign With Emergency Backup Battery And Self-Diagnostic T	EA	18
166			X2: Double Face Exit Sign With Emergency Backup Battery And Self-Diagnostic	EA	4
			LIGHTING CONTROL		
167			Tunable White Control	EA	6
168			3-Way Dimmer Switch	EA	5

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SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
169			Dual Technology Occupancy Sensor, PASSIVE INFRA-RED	EA	35
170			Dual Technology, PASSIVE INFRA-RED	EA	17
171			Photocontrol Daylight Sensor	EA	34
172			Single Pole Dimmer Switch	EA	36
173			Single Pole Toggle Switch	EA	1
174			TS: Touchscreen And DMX Controller	EA	5
175			Wall Mounted Combination Occupancy Sensor With Dimmer Switch, PASSIVE	EA	35
			FIXTURE MOUNTING DETAIL		
176			#12x2" Pan Head Screw And Flat Washer	EA	48
177		**Length Assumed**	#12 Galvanized Iron Steel Support Wire	LF	850
178			Aircraft Cable	LF	320
179			Adjustable Bar Hanger With 1/2" Threaded Nipple Fastened To Box With 1/2" Lo	EA	22
180			Air Craft Cable Hanger Assembly	EA	50
181			#8 Sheet Metal Screw	EA	100
182			T-Bar Grid	EA	100
183			Telescoping Bar Hanger With #10 Sheet Metal Screws	EA	105
			MISCELLANEOUS		
184			Junction Box	EA	37
185		**For Future**	Junction Box	EA	2
186			Junction Box Wall Mounted	EA	15
187			Junction Box Weatherproof	EA	1
188			Octagon Outlet Box With Round Device Ring	EA	50
			SAW CUT		
189			Saw Cut & Repair Concrete Floor For Conduit Installation	EA	7
			COMMUNICATION		
			TELECOMMUNICATION		
			CABLE TRAY		
190			Cable Tray, CTAM STCM-201-5D-8-G	LF	406
			CABLE TRAY FITTINGS		
191			Cable Tray 90 Deg Elbow	EA	6
192			Cable Tray Tee	EA	3
			CABLE TRAY ACCESSORIES		
193			3/8" Threaded Rod	EA	100
194			3/16" Dia, 7x7 Steel Aircraft Cable	LF	1244
			CONDUIT (CUT LENGTH = 10 LF)		
195			1" EMT Conduit Upto Ceiling	EA	171
196			1" PVC SCH 40 Conduit	EA	1
			CONDUCTOR (1 ROLL = 200 LF)		
197			CAT6A Cable (Plenum), LEVITON 10143424	EA	127
			J-HOOKS		
198			Non-Continuous Open Ended Pathway, J-Hook W/ Color Clip, B-LINE BCH-32	EA	240
			DEVICES		
199		**OFOI**	2-Port Wireless Access Point	EA	14
			RJ45 Connector	EA	28
			4-11/16" SQ. 2-1/8" Deep Backbox	EA	14
			Faceplate	EA	14
200			2" Rigid EMT Conduit Sleeve (CUT LENGTH = 10 LF)	EA	9
201			4" Rigid EMT Conduit Sleeve (CUT LENGTH = 10 LF)	EA	6
202			2-Port Voice/Data Outlet, Floor Mounted, B-LINE BCH-32	EA	1
			RJ45 Connector	EA	2
			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1
			Faceplate, LEVITON 42080-2WS	EA	1
203			2-Port Voice/Data Outlet, Wall Mounted, B-LINE BCH-32	EA	113
			RJ45 Connector	EA	226
			4-11/16" SQ. 2-1/8" Deep Backbox	EA	113
			Faceplate, LEVITON 42080-2WS	EA	113
204			4'x8'x3/4" Fire Rated Plywood, Painted Color: White	LF	26
			MDF RACK		
205			18"-Wide 4-Post Ladder Rack, Color: Black	LF	13
206			4-Post MDF Equipment Rack, 45RU, Floor Mounted, CHATSWORTH 15053-703	EA	1
			0.625" Dia Expansion Anchor, HILTI KWIKBOLT TZ2	EA	4
			18"x18"x6" NEMA-3R Wall Mounted Pull Box With Hinged Locking Keyed Lid	EA	2
			2A: Fiber LIU, LEVITON 5R4UH-S12	EA	1
			2B: OS Adapter Cassette Type LC, LEVITON	EA	1
			4: Data Switch-48 Port POE+	EA	3
			4: Fiber Transceiver Module, LC	EA	6
			5A: Patch Panel-With Rear Wire Manager (24-Port), LEVITON 49255-L24	EA	2
			5B: Patch Panel-With Rear Wire Manager (48-Port), LEVITON 49255-L48	EA	2

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SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
	T-201, T-221, T-401, T-402, T-601, T-602 & T-801		6: Horizontal Wire Manager, LEVITON NCMHF3	EA	7
			7: Network Interface Card, APC AP9641	EA	1
			7: UPS Battery Backup, 5000VA,7RU, APC SUA5000R5TXFMR	EA	1
			8: Horizontal Power Distribution Unit, APC AP9562	EA	1
			9: Vertical Wire Manager, MIDDLE ATLANTIC PCD-4-4-45SC	EA	2
			SECURITY		
			CONDUIT (CUT LENGTH = 10 LF)		
207			1/2" EMT Conduit Upto Ceiling	EA	77
208			1" EMT Conduit Upto Ceiling	EA	18
			CONDUCTOR (1 ROLL = 200 LF)		
209			18/6C Low-Voltage Control Cable – WEST PENN 25186B	EA	9
210			18/6C Low-Voltage Control Cable – WEST PENN 3021	EA	15
211			CAT6A Cable (Plenum), LEVITON 10143424	EA	5
			DEVICES		
212			Access Hardware Electrified Connection	EA	14
213			Exterior Wall Surveillance Camera With IR Sensor, Smoked Dome Vandal Cover	EA	10
			4-11/16" SQ. 2-1/8" Deep Backbox	EA	10
214			Intrusion Alarm Control Keypad, #7872-W	EA	1
			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1
215			Intrusion Alarm Door Contact, ABLOY EA 500	EA	12
216			Intrusion Alarm Proximity Motion Sensor, BOSCH ISC-CDL1-W15G	EA	28
			4-11/16" SQ. 2-1/8" Deep Backbox	EA	28
217			Proximity Card Reader, HID SIGNO 20K	EA	12
			Single Gang, 2-1/8" Deep Backbox	EA	10
218			Expansion Module	EA	2
219		OFOI	Intrusion Alarm Control Panel With Enclosure, DIGITAL MONITORING PRO	EA	1
220			Intelligent Controller (4 Readers, 8 Inputs, 4 Outputs), MERCURY MP4502	EA	3
			AUDIO/VISUAL SYSTEM		
			CONDUIT (CUT LENGTH = 10 LF)		
221			1" EMT Conduit Upto Ceiling	EA	59
			CONDUCTOR (1 ROLL = 200 LF)		
222			Audio Speaker Cable, PROCO #WC-12-2	EA	2
223			CAT6 UTP, BERKTEK, LANMARK	EA	22
224			RS232 Control Cable	EA	1
			DEVICES		
225			8" Lay-In Speaker, JBL	EA	14
226			Amplifier-1, EXTRON 60-850-01	EA	1
227			Amplifier-2, EXTRON 60-850-01	EA	1
228			Audio-Video Control Panel	EA	5
			4-11/16" SQ. 2-1/8" Deep Backbox	EA	5
229			Audio-Video Input Plate	EA	16
			4-11/16" SQ. 2-1/8" Deep Backbox	EA	16
230			Audio-Video Output Plate	EA	18
			4-11/16" SQ. 2-1/8" Deep Backbox	EA	18
			EQUIPMENT		
231			TV-1: LED TV/Monitor With Mount, Size: 75"	EA	1
			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1
232			TV-2: LED TV/Monitor With Mount, Size: 75"	EA	1
			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1
233			TV-3: LED TV/Monitor With Mount, Size: 78"	EA	1
			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1
234			TV-4: LED TV/Monitor With Mount, Size: 78"	EA	1
			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1
235			TV-5: LED TV/Monitor With Mount, Size: 97"	EA	1
			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1
236			TV-6: LED TV/Monitor With Mount, Size: 97"	EA	1
			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1
237			TV-7: LED TV/Monitor With Mount, Size: 78"	EA	1
			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1
238			TV-8: LED TV/Monitor With Mount, Size: 78"	EA	1
			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1
239			TV-9: LED TV/Monitor With Mount, Size: 97"	EA	1
			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1
240			TV-10: LED TV/Monitor With Mount, Size: 97"	EA	1
			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1
241			TV-11: LED TV/Monitor With Mount, Size: 54"	EA	1
			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1
242			TV-12: LED TV/Monitor With Mount, Size: 54"	EA	1
			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1
243			TV-13: LED TV/Monitor With Mount, Size: 54"	EA	1
			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1

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244			TV-14: LED TV/Monitor With Mount, Size: 54"	EA	1
			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1
245			TV-15: LED TV/Monitor With Mount, Size: 72"	EA	1
			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1
246			TV-16: LED TV/Monitor With Mount, Size: 45"	EA	1
			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1
247			TV-17: LED TV/Monitor With Mount, Size: 45"	EA	1
			4-11/16" SQ. 2-1/8" Deep Backbox	EA	1
			AUDIO VIDEO RACK		
248			18"-Wide 4-Post Ladder Rack, Color: Black	LF	5
249			Audiovisual Equipment Rack With Control Equipment, MIDDLE ATLANTIC SR	EA	1
			2A: Fiber LIU, LEVITON 5R1UH-S03	EA	1
			2B: OS Adapter Cassette Type LC, LEVITON	EA	1
			3: Horizontal Wire Manageer-1RU, LEVITON 49253-LPM	EA	5
			4: Patch Panel With Rear Wire Manager (24-Port)-1RU, LEVITON 49255-H24	EA	4
		OFOI	5: Data Switch-48 Port POE-1RU	EA	2
			5: SMF Fiber Transceiver Module, LC	EA	4
			6: Horizontal Power Distribution Unit-1RU, CHATSWORTH 12820-703	EA	1
			7: Blank Panel-1RU, MIDDLE ATLANTIC EM1	EA	1
			8: Vented Blank Panel-1RU, MIDDLE ATLANTIC VT1	EA	2
			SAW CUT		
250			Saw Cut & Repair Concrete Floor For Conduit Installation	LF	6
			ELECTRONIC SAFETY AND SECURITY		
			FIRE ALARM		
			CONDUIT (CUT LENGTH = 10 LF)		
251			3/4" EMT Conduit	EA	86
252			1" EMT Conduit	EA	3
253			1" PVC SCH 40 Conduit	EA	7
			CONDUCTOR (1 ROLL = 200 LF)		
254			2#16 UTP, WP#AQ225	EA	1
255			2#16 UTP, FPLR Solid	EA	3
256			4#16 UTP, FPLR Solid	EA	1
257			2#14 UTP, FPLR Solid	EA	3
			DEVICES		
258			Ceiling Acend Horn Strobe, Red Fire, SIEMENS, SC-HS-CR-F	EA	20
259			Ceiling Acend Horn Strobe, Red Fire, SIEMENS, SL23HRS-FR	EA	1
260			Ceiling Acend Strobe Red Fire, SIEMENS, SC-ST-CR-F	EA	14
261			Wall Acend Strobe Red Fire, SIEMENS, SC-ST-WR-F	EA	3
262	FA-201		XTRI-M Mini Input Monitor Module With Built In Isolator, SEIMENS, XTRI-M	EA	4
263			Assembly, Fire Alarm Control Panel, Addressable, SEIMENS, FC2025-US	EA	1
			Dialer Module #FCA2015-U1	EA	1
			NAC Module, FCI2011-U1	EA	1
			Periphery Board, #FCI2016-U1	EA	1
			Card, Standard Operating Unit, FCM2018-U2	EA	1
			Card, 170 Watt Power Supply, FP2016-U1	EA	1
264			System Record Documents Cabinet-Red, Space Age Electronics, SSU00689	EA	1
265			Smoke Detector W/6" Base, SIEMENS, OP921 W/DB-11 Base	EA	5
266			Remote Terminal (KEY, BL), SIEMENS, FT2015-U3	EA	1
267			Manual Station-Single Action, SIEMENS, HMS-S	EA	1
268			Duct Smoke Detector With Control Relay Module, SIEMENS, FDBZ492-HR W/FDO421	EA	1
269			Backflow Tamper Switches	EA	2
270			Flow Switch	EA	1
271			Tamper Switch	EA	1
272			Documentation Cabinet	EA	1