



CS ESTIMATING

TAKEOFF & COST ESTIMATE

Job Name:

Address:

Date:

SR #	DESCRIPTION	QUANTITY	UNIT	WASTAGE	QUANTITY W/WASTAGE	UNIT LABOR HRS	TOTAL LABOR HRS	UNIT MATERIAL	UNIT LABOR	UNIT MAT/UNIT LAB	TOTAL COST	TRADE COST
GENERAL REQUIREMENTS												
1	Permit (.07% of project value)	0	Fee	0%	0.0	0.0	0.0	\$ -	\$ -	\$ -	\$ -	
2	Variance	0	Fee	0%	0.0	0.0	0.0	\$ -	\$ -	\$ -	\$ -	
3	Private inspections	0	Fee	0%	0.0	0.0	0.0	\$ -	\$ -	\$ -	\$ -	
4	Site cleaning	0	hrs	0%	0.0	0.0	0.0	\$ -	\$ -	\$ -	\$ -	
Sub Total												50
ELECTRICAL												
SITE												
LIGHTING												
5	(14W) Surface Mount Oilwu Led 'W3' Manufacturer: LITHONIA LIGHTING Model: OLLWULEDP140K120DDB	3	EA	0%	3.00	1.240	3.7	\$ 215.00	\$ 68.22	\$ 283.22	\$ 849.66	
6	(46W) Full Cutoff Led Wall Mounted Luminaire w/ 20 Led 700MA Drive Current 'W2' Manufacturer: LITHONIA LIGHTING Model: DSXW1 SERIES	3	EA	0%	3.00	1.338	4.0	\$ 232.00	\$ 73.62	\$ 305.62	\$ 916.85	
7	(46W) DSW1 LED W/ 10 Led Light Engines 'W1E' Manufacturer: LITHONIA LIGHTING Model: DSXW1 SERIES	7	EA	0%	7.00	1.373	9.6	\$ 238.00	\$ 75.52	\$ 313.52	\$ 2,194.63	
POWER												
Disconnect Switch												
8	(400A,3P) Weatherproof Disconnect Switch	2	EA	0%	2.00	4.875	9.8	\$ 845.00	\$ 268.13	\$ 1,113.13	\$ 2,226.25	
9	(1200A,3P) Weatherproof Disconnect Switch	1	EA	0%	1.00	7.212	7.2	\$ 1,250.00	\$ 396.63	\$ 1,646.63	\$ 1,646.63	
10	(20A) Disconnect Switch	1	EA	0%	1.00	0.379	0.4	\$ 65.65	\$ 20.83	\$ 86.48	\$ 86.48	
Junction Box												
11	(20A) Junction Box	2	EA	0%	2.00	0.203	0.4	\$ 35.25	\$ 11.19	\$ 46.44	\$ 92.87	
Transformer												
12	(4W,208/120V,3P) Pad Mounted Transformer	1	EA	0%	1.00	72.381	72.4	\$ 12,546.00	\$ 3,980.94	\$ 16,526.94	\$ 16,526.94	
SECURITY												
Camera												
13	(180 Degree) Camera	5	EA	0%	5.00	2.394	12.0	\$ 415.00	\$ 131.68	\$ 546.68	\$ 2,733.41	
WIRING & CONDUITS												
Wiring												
14	#12 AWG CU THHN/THWN	5460	LF	10%	6006.23	0.003	18.0	\$ 0.52	\$ 0.17	\$ 0.69	\$ 4,114.27	
15	#10 AWG CU THHN/THWN	82	LF	10%	90.02	0.003	0.3	\$ 0.58	\$ 0.18	\$ 0.76	\$ 68.78	
16	#3 AWG CU XHHN/XHWN	659	LF	10%	724.90	0.004	3.1	\$ 0.74	\$ 0.23	\$ 0.97	\$ 706.64	
17	#600 KCMIL XHHN/XHWN	7848	LF	10%	8632.80	0.007	57.3	\$ 1.15	\$ 0.36	\$ 1.51	\$ 13,077.86	
Conduit												
18	1" PVC Conduit	1850	LF	10%	2035.00	0.008	17.0	\$ 1.45	\$ 0.46	\$ 1.91	\$ 3,887.05	
19	1" PVC Conduit With Pull String	119	LF	10%	130.81	0.008	1.1	\$ 1.45	\$ 0.46	\$ 1.91	\$ 249.86	
20	1-1/2" PVC Conduit With Pull String	21	LF	10%	22.61	0.011	0.2	\$ 1.84	\$ 0.58	\$ 2.42	\$ 54.79	
21	2" PVC Conduit With Pull String	15	LF	10%	16.42	0.014	0.2	\$ 2.44	\$ 0.77	\$ 3.21	\$ 52.79	
22	4" PVC Conduit	1985	LF	10%	2161.50	0.028	60.5	\$ 4.85	\$ 1.54	\$ 6.39	\$ 13,809.70	
MAIN FLOOR												
LIGHTING												
Lights												
23	(57W) 4 Led Strip fixture W/ Wire Guard & Electronic Driver 'L2' Manufacturer: ISI LIGHTING Model: LPEC SERIES	224	EA	0%	224.00	0.704	157.7	\$ 122.00	\$ 38.71	\$ 160.71	\$ 35,999.38	
24	(23W) Down Light - Recessed Can 'D' Manufacturer: - Model: -	12	EA	0%	12.00	0.738	8.9	\$ 128.00	\$ 40.62	\$ 168.62	\$ 2,023.38	
25	(37W) Rectangular Pendant Light 4' Long 'L3' Manufacturer: COPPER LIGHTING Model: 4SWLED-40SL-LW-UNV-L840-CD1-U	8	EA	0%	8.00	0.762	6.1	\$ 132.00	\$ 41.88	\$ 173.88	\$ 1,391.08	
26	(40W) 4' Led Suspension Fixture W/ Electronic Dimmable Driver 'L4' Manufacturer: KNOX Model: Linear Suspension Series or Equal	1	EA	0%	1.00	0.796	0.8	\$ 138.00	\$ 43.79	\$ 181.79	\$ 181.79	
27	(40W) Led Fixture W/ Integral Occupancy Sensor 'L5' Manufacturer: ILP Model: CAVERN SERIES OR EQUAL	14	EA	0%	14.00	0.819	11.5	\$ 142.00	\$ 45.06	\$ 187.06	\$ 2,618.81	
28	(20W) Led Flush Mount 14" Diameter 'RD' Manufacturer: Lithonia LIGHTING Model: FMLACL14	5	EA	0%	5.00	0.681	3.4	\$ 118.00	\$ 37.44	\$ 155.44	\$ 777.21	
Emergency & Exit Lights												
29	(2' x4') Emergency Fluorescent Light Fixture W/ Emergency Battery Pack 'L1E'	6	EA	0%	6.00	0.912	5.5	\$ 158.00	\$ 50.13	\$ 208.13	\$ 1,248.81	
30	4 Led Strip fixture W/ Wire Guard & Electronic Driver 'L2E' Manufacturer: ISI LIGHTING Model: LPEC SERIES	88	EA	0%	88.00	0.946	83.3	\$ 164.00	\$ 52.04	\$ 216.04	\$ 19,011.38	
31	(20W) Led Flush Mount 14" Diameter w/ Emergency Battery Backup 'RD-EM' Manufacturer: Lithonia LIGHTING Model: FMLACL14	3	EA	0%	3.00	0.877	2.6	\$ 152.00	\$ 48.23	\$ 200.23	\$ 600.69	
32	Led Exit Sign W/ Battery 'X1' Manufacturer: LSI Model: EX SERIES OR EQUAL	31	EA	0%	31.00	0.969	30.0	\$ 168.00	\$ 53.31	\$ 221.31	\$ 6,860.54	
33	Led Exit Sign W/ Battery Backup 'X2' Manufacturer: LSI Model: EX SERIES OR EQUAL	13	EA	0%	13.00	0.952	12.4	\$ 165.00	\$ 52.36	\$ 217.36	\$ 2,825.63	
34	Led Exit Sign/ Light with Battery Backup 'Z'	3	EA	0%	3.00	1.004	3.0	\$ 174.00	\$ 55.21	\$ 229.21	\$ 687.63	
Lighting Control												
Switches												
35	Single Pole Switch -Model/Manufacturer: HBL1221X	4	EA	0%	4.00	0.281	1.1	\$ 48.65	\$ 15.44	\$ 64.09	\$ 256.35	
36	Three Pole Switch -Model/Manufacturer: HBL1223X	4	EA	0%	4.00	0.360	1.4	\$ 62.45	\$ 19.82	\$ 82.27	\$ 329.06	
37	Single Pole Dimmer Switch	1	EA	0%	1.00	0.187	0.2	\$ 32.45	\$ 10.30	\$ 42.75	\$ 42.75	
38	Low Voltage Override Switch	1	EA	0%	1.00	0.207	0.2	\$ 35.85	\$ 11.38	\$ 47.23	\$ 47.23	
39	Lighting Control Panel 'LCP'	1	EA	0%	1.00	0.857	0.9	\$ 148.50	\$ 47.12	\$ 195.62	\$ 195.62	
Sensors												
40	(20A) Lighting Control Sensor 'PP' - Manufacturer: Watt Stopper - Model: PW-200	13	EA	0%	13.00	0.337	4.4	\$ 58.45	\$ 18.55	\$ 77.00	\$ 1,000.96	
41	Passive Infrared Sensor - Manufacturer: Watt Stopper - Model: CX-100	48	EA	0%	48.00	0.246	11.8	\$ 42.65	\$ 13.53	\$ 56.18	\$ 2,696.79	



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42	Passive Infrared Sensor - Manufacturer: Watt Stopper - Model: CX-100-1	34	EA	0%	34.00	0.278	9.5	\$ 48.25	\$ 15.31	\$ 63.56	\$ 2,161.04	
43	Occupancy Sensor Ceiling Mounted 'OS' - Manufacturer: Watt Stopper - Model: PW-100	3	EA	0%	3.00	0.302	0.9	\$ 52.35	\$ 16.61	\$ 68.96	\$ 206.88	
44	Occupancy Sensor Wall Mounted 'OS' - Manufacturer: Watt Stopper - Model: PW-100	3	EA	0%	3.00	0.331	1.0	\$ 57.45	\$ 18.23	\$ 75.68	\$ 227.04	
Panels												
45	Lighting Control Panel 'LCP'	1	EA	0%	1.00	0.969	1.0	\$ 168.00	\$ 53.31	\$ 221.31	\$ 221.31	
Miscellaneous												
46	LCP Controlled Contactor	1	EA	0%	1.00	0.646	0.6	\$ 112.00	\$ 35.54	\$ 147.54	\$ 147.54	
47	LCP Controlled Contactor W/277 Coil	1	EA	0%	1.00	0.837	0.8	\$ 145.00	\$ 46.01	\$ 191.01	\$ 191.01	
48	Vapor Tight Linear Led Fixture	2	EA	0%	2.00	0.727	1.5	\$ 126.00	\$ 39.98	\$ 165.98	\$ 331.96	
POWER												
Receptacles												
49	(20A) GFCI Duplex Receptacle -Model/Manufacturer: #GF5352X	107	EA	0%	107.00	0.321	34.4	\$ 55.65	\$ 17.66	\$ 73.31	\$ 7,843.97	
50	(20A) Duplex Receptacle -Model/Manufacturer: #HBL5352X	18	EA	0%	18.00	0.245	4.4	\$ 42.55	\$ 13.50	\$ 56.05	\$ 1,008.93	
51	(20A) Weatherproof GFCI Duplex Receptacle -Model/Manufacturer: #GF5352X	9	EA	0%	9.00	0.360	3.2	\$ 62.45	\$ 19.82	\$ 82.27	\$ 740.39	
52	(20A) Quad Receptacle -Model/Manufacturer: #GF5352X	3	EA	0%	3.00	0.395	1.2	\$ 68.50	\$ 21.74	\$ 90.24	\$ 270.71	
Disconnect Switch												
53	(35A,3P) Disconnect Switch	20	EA	0%	20.00	0.418	8.4	\$ 72.45	\$ 22.99	\$ 95.44	\$ 1,908.78	
54	(20A) Disconnect Switch	10	EA	0%	10.00	0.223	2.2	\$ 38.65	\$ 12.26	\$ 50.91	\$ 509.14	
55	(20A,3P) Disconnect Switch	1	EA	0%	1.00	0.280	0.3	\$ 48.45	\$ 15.37	\$ 63.82	\$ 63.82	
56	(25A) Disconnect Switch	2	EA	0%	2.00	0.296	0.6	\$ 51.25	\$ 16.26	\$ 67.51	\$ 135.02	
57	(30A,2P) Disconnect Switch	2	EA	0%	2.00	0.325	0.6	\$ 56.25	\$ 17.85	\$ 74.10	\$ 148.20	
58	(50A,2P) Disconnect Switch	20	EA	0%	20.00	0.360	7.2	\$ 62.35	\$ 19.78	\$ 82.13	\$ 1,642.68	
59	(40A,2P) Disconnect Switch	1	EA	0%	1.00	0.335	0.3	\$ 58.15	\$ 18.45	\$ 76.60	\$ 76.60	
Junction Box												
60	(25A,2P) Junction Box	2	EA	0%	2.00	0.199	0.4	\$ 34.50	\$ 10.95	\$ 45.45	\$ 90.89	
Panels												
Main Distribution Panel 'MDP'												
61	(1200A,120/208V,3P) Main Distribution Panel 'MDP'	1	EA	0%	1.00	19.904	19.9	\$ 3,450.00	\$ 1,094.71	\$ 4,544.71	\$ 4,544.71	
Circuit Breakers												
62	(200A,3P) Circuit Breaker	2	EA	0%	2.00	2.740	5.5	\$ 475.00	\$ 150.72	\$ 625.72	\$ 1,251.44	
63	(400A,3P) Circuit Breaker	3	EA	0%	3.00	4.990	15.0	\$ 865.00	\$ 274.47	\$ 1,139.47	\$ 3,418.41	
Panel 'LM1'												
64	(400A,120/208V,3P) Weatherproof Panel 'LM1'	1	EA	0%	1.00	7.183	7.2	\$ 1,245.00	\$ 395.05	\$ 1,640.05	\$ 1,640.05	
Circuit Breakers												
65	(20A,1P) Circuit Breaker	9	EA	0%	9.00	0.301	2.7	\$ 52.15	\$ 16.55	\$ 68.70	\$ 618.28	
66	(20A,3P) Circuit Breaker	1	EA	0%	1.00	0.428	0.4	\$ 74.25	\$ 23.56	\$ 97.81	\$ 97.81	
67	(35A,3P) Circuit Breaker	12	EA	0%	12.00	0.485	5.8	\$ 84.10	\$ 26.69	\$ 110.79	\$ 1,329.43	
Panel 'LM2'												
68	(400A,120/208V,3P) Weatherproof Panel 'LM2'	1	EA	0%	1.00	7.183	7.2	\$ 1,245.00	\$ 395.05	\$ 1,640.05	\$ 1,640.05	
Circuit Breakers												
69	(20A,1P) Circuit Breaker	6	EA	0%	6.00	0.378	2.3	\$ 65.45	\$ 20.77	\$ 86.22	\$ 517.31	
70	(35A,3P) Circuit Breaker	8	EA	0%	8.00	0.485	3.9	\$ 84.10	\$ 26.69	\$ 110.79	\$ 886.28	
Panel 'LP1'												
71	(400A,120/208V,3P) Panel 'LP1'	1	EA	0%	1.00	5.048	5.0	\$ 875.00	\$ 277.64	\$ 1,152.64	\$ 1,152.64	
Circuit Breakers												
72	(20A,1P) Circuit Breaker	38	EA	0%	38.00	0.301	11.4	\$ 52.15	\$ 16.55	\$ 68.70	\$ 2,610.51	
73	(20A,2P) Circuit Breaker	2	EA	0%	2.00	0.395	0.8	\$ 68.45	\$ 21.72	\$ 90.17	\$ 180.34	
74	(25A,1P) Circuit Breaker	1	EA	0%	1.00	0.418	0.4	\$ 72.45	\$ 22.99	\$ 95.44	\$ 95.44	
75	(25A,2P) Circuit Breaker	1	EA	0%	1.00	0.430	0.4	\$ 74.55	\$ 23.66	\$ 98.21	\$ 98.21	
76	(50A,2P) Circuit Breaker	6	EA	0%	6.00	0.360	2.2	\$ 62.35	\$ 19.78	\$ 82.13	\$ 492.80	
77	(40A,2P) Circuit Breaker	1	EA	0%	1.00	0.335	0.3	\$ 58.15	\$ 18.45	\$ 76.60	\$ 76.60	
Panel 'LP2'												
78	(400A,120/208V,3P) Panel 'LP2'	1	EA	0%	1.00	5.048	5.0	\$ 875.00	\$ 277.64	\$ 1,152.64	\$ 1,152.64	
Circuit Breakers												
79	(20A,1P) Circuit Breaker	15	EA	0%	15.00	0.301	4.5	\$ 52.15	\$ 16.55	\$ 68.70	\$ 1,030.46	
80	(50A,2P) Circuit Breaker	6	EA	0%	6.00	0.360	2.2	\$ 62.35	\$ 19.78	\$ 82.13	\$ 492.80	
81	(30A,2P) Circuit Breaker	2	EA	0%	2.00	0.325	0.6	\$ 56.25	\$ 17.85	\$ 74.10	\$ 148.20	
Panel 'LP3'												
82	(400A,120/208V,3P) Panel 'LP3'	1	EA	0%	1.00	5.048	5.0	\$ 875.00	\$ 277.64	\$ 1,152.64	\$ 1,152.64	
Circuit Breakers												
83	(20A,1P) Circuit Breaker	14	EA	0%	14.00	0.301	4.2	\$ 52.15	\$ 16.55	\$ 68.70	\$ 961.77	
84	(50A,2P) Circuit Breaker	8	EA	0%	8.00	0.360	2.9	\$ 62.35	\$ 19.78	\$ 82.13	\$ 657.07	
SAFETY & SECURITY												
Camera												
85	(180 Degree) Camra	3	EA	0%	3.00	2.394	7.2	\$ 415.00	\$ 131.68	\$ 546.68	\$ 1,640.05	
COMMUNICATIONS												
Outlets												
86	Data & Telephone Outlet	3	EA	0%	3.00	0.206	0.6	\$ 35.65	\$ 11.31	\$ 46.96	\$ 140.89	
87	TV Outlet	2	EA	0%	2.00	0.224	0.4	\$ 38.75	\$ 12.30	\$ 51.05	\$ 102.09	
Racks												
88	(16 Port & 10 Pitch Cable) Rack	1	EA	0%	1.00	0.337	0.3	\$ 58.45	\$ 18.55	\$ 77.00	\$ 77.00	
Misc.												
89	(3/4"x4"Wx8"H) Plywood Backboard	1	EA	0%	1.00	0.147	0.1	\$ 25.45	\$ 8.08	\$ 33.53	\$ 33.53	
SINGLE LINE DIAGRAM												
90	Weatherproof Meter & Pedestal	1	EA	0%	1.00	2.221	2.2	\$ 385.00	\$ 122.16	\$ 507.16	\$ 507.16	
91	(3/4"x10") Copper Clad Steel Ground Rod	50	LF	0%	50.00	0.026	1.3	\$ 4.50	\$ 1.43	\$ 5.93	\$ 296.39	
WIRING & CONDUITS												
Wiring												
92	#14 AWG CU THHN/THWN	2910	LF	10%	3201.00	0.003	8.5	\$ 0.46	\$ 0.15	\$ 0.61	\$ 1,939.68	
93	#12 AWG CU THHN/THWN	53100	LF	10%	58410.00	0.003	175.2	\$ 0.52	\$ 0.17	\$ 0.69	\$ 40,010.85	
94	#10 AWG CU THHN/THWN	17370	LF	10%	19107.00	0.003	63.9	\$ 0.58	\$ 0.18	\$ 0.76	\$ 14,598.48	
95	#8 AWG CU XHHN/XHWN	7811	LF	10%	8591.81	0.004	30.7	\$ 0.62	\$ 0.20	\$ 0.82	\$ 7,017.20	
96	#6 AWG CU XHHN/XHWN	52	LF	10%	57.10	0.004	0.2	\$ 0.67	\$ 0.21	\$ 0.88	\$ 50.40	
97	#3/0 AWG CU XHHN/XHWN	104	LF	10%	114.20	0.004	0.5	\$ 0.74	\$ 0.23	\$ 0.97	\$ 111.32	
98	CAT#6 Cable	1187	LF	10%	1305.70	0.005	7.2	\$ 0.95	\$ 0.30	\$ 1.25	\$ 1,634.01	
Conduit												
99	3/4" EMT Conduit	3905	LF	10%	4295.91	0.007	28.5	\$ 1.15	\$ 0.36	\$ 1.51	\$ 6,507.89	
100	1/2" EMT Conduit	24830	LF	10%	27313.00	0.005	149.7	\$ 0.95	\$ 0.30	\$ 1.25	\$ 34,180.64	
101	2" EMT Conduit	52	LF	10%	57.10	0.020	1.1	\$ 3.45	\$ 1.09	\$ 4.54	\$ 259.51	
											Sub Total	\$295,369
PROJECTED COST												\$295,369
OVERHEAD											18%	\$ 53,166
												\$ 348,535