

**Estimate of Materials and Cost of Construction**

SR #	CSI SECT	DESCRIPTION	QTY WITH WASTAGE	UNIT OF MEASUREMENT	TOTAL LABOR COST	TOTAL MATERIAL COST	UNIT COST (Lab+Mat+Equip.)	TOTAL ITEM COST	TOTAL TRADE COST
	<b>DIV. 01</b>	<b>GENERAL REQUIREMENTS</b>							\$ 41,568
		<b>Project Management &amp; Supervision</b>							
1		Project Management & Supervision	1	LS	\$ 30,231.20	\$ -	\$ 30,231.20	\$ 30,231	
		<b>Equipment and Tools</b>							
2		Mobilization/Demobilization (Temporary Control & Facilities)	1	LS	\$ 11,336.70	\$ -	\$ 11,336.70	\$ 11,337	
	<b>DIV. 26</b>	<b>ELECTRICAL</b>							\$ 893,449
		<b>Lighting Fixtures</b>							
3		Lighting Fixture as A1N 5" Round Adjustable LED Cylinder With Exposed J-Box Manf: LUMINII LETO 11 Integral LED Light	3	EA	\$ 130.20	\$ 228.00	\$ 119.40	\$ 358	
4		Lighting Fixture as C1 Surface Mounted Round Canopy LED, 3000K, 80 + CRI, 7975 Lumens 120/277V, With Pir Bi-Level Motion Daylight Sensor, White Finish Manf: Cooper Lighting Solutions Model: TTN-D3-830-U-RW-NW-TR-MS/DIM-L08	11	EA	\$ 545.60	\$ 1,661.00	\$ 200.60	\$ 2,207	
5		Lighting Fixture as C1E With Battery Backup Surface Mounted Round Canopy LED, 3000K, 80 + CRI, 7975 Lumens 120/277V, With Pir Bi-Level Motion Daylight Sensor, White Finish Manf: Cooper Lighting Solutions Model: TTN-D3-830-U-RW-NW-TR-MS/DIM-L08	9	EA	\$ 446.40	\$ 1,638.00	\$ 231.60	\$ 2,084	
6		Lighting Fixture as C2 4'-0" LED Strip Light, LED, 3000KM, 80 + CRI, 120/277V Manf: Metalux Model: 45NX-45SL-LW-UNV-L830-CD-ETRD	38	EA	\$ 1,884.80	\$ 6,612.00	\$ 223.60	\$ 8,497	
7		Lighting Fixture as C2E With Battery Backup 4'-0" LED Strip Light, LED, 3000KM, 80 + CRI, 120/277V Manf: Metalux Model: 45NX-45SL-LW-UNV-L830-CD-ETRD	18	EA	\$ 892.80	\$ 3,384.00	\$ 237.60	\$ 4,277	
8		Lighting Fixture as D1F 5" Round LED Pendant Downlight With Exposed J-Box Manf: LUMINII LETO 11 Integral LED Light	20	EA	\$ 868.00	\$ 1,520.00	\$ 119.40	\$ 2,388	
9		Lighting Fixture as D1N 5" Round LED Pendant Downlight With Exposed J-Box Manf: LUMINII LETO 11 Integral LED Light	3	EA	\$ 130.20	\$ 228.00	\$ 119.40	\$ 358	
10		Lighting Fixture as D2F 4" Round Recessed Tamper Resistant Fixed LED Downlight Manf: ALPHABET NU4 Integral LED Light	161	EA	\$ 5,589.92	\$ 10,626.00	\$ 100.72	\$ 16,216	
11		Lighting Fixture as D3F Recessed LED 2x2 Troffer With Direct Illumination 2x2 Lithonia Troffer	97	EA	\$ 3,007.00	\$ 11,058.00	\$ 145.00	\$ 14,065	
12		Lighting Fixture as D4F 4" Round Recessed Tamper Resistant Fixed LED Downlight Manf: ALPHABET NU4 Integral LED Light	8	EA	\$ 277.76	\$ 528.00	\$ 100.72	\$ 806	
13		Lighting Fixture as DD1 4" Round Recessed Tamper Resistant Fixed LED Downlight Manf: ALPHABET NU4 Integral LED Light	16	EA	\$ 555.52	\$ 1,056.00	\$ 100.72	\$ 1,612	
14		Lighting Fixture as L1W Surface Mounted Linear Wall Wash Fixture Mark Lighting	57	LF	\$ 140.15	\$ 361.67	\$ 8.88	\$ 502	
15		Lighting Fixture as LL1 Exterior Rated Recessed Linear LED Fixture Mounted in Wall and Ceiling With Direct View Kens and 90 Deg Illuminated Corner Element	4	EA	\$ 111.60	\$ 232.00	\$ 85.90	\$ 344	
16		Lighting Fixture as LP1 (8'-0" Length) Variable Length Pendant Mounted LED Linear Downlight With Direct and Indirect Illumination	8	EA	\$ 372.00	\$ 624.00	\$ 124.50	\$ 996	
17		Lighting Fixture as LP1 (12'-0" Length) Variable Length Pendant Mounted LED Linear Downlight With Direct and Indirect Illumination	6	EA	\$ 279.00	\$ 636.00	\$ 152.50	\$ 915	
18		Lighting Fixture as LP2 (8'-0" Length) Variable Length Pendant Mounted LED Linear Downlight With Direct and Indirect Illumination	2	EA	\$ 93.00	\$ 156.00	\$ 124.50	\$ 249	
19		Lighting Fixture as LP2 (12'-0" Length) Variable Length Pendant Mounted LED Linear Downlight With Direct and Indirect Illumination	72	EA	\$ 3,348.00	\$ 7,632.00	\$ 152.50	\$ 10,980	
20		Lighting Fixture as LP3 Variable Length Pendant Mounted LED Linear Downlight With Direct and Indirect Illumination	238	LF	\$ 11,074.97	\$ 18,577.38	\$ 124.50	\$ 29,652	
21		Lighting Fixture as LP4 (6'-0" Length) Variable Length Pendant Mounted LED Linear Downlight With Direct and Indirect Illumination	3	EA	\$ 139.50	\$ 192.00	\$ 110.50	\$ 332	
22		Lighting Fixture as LP4 (8'-0" Length) Variable Length Pendant Mounted LED Linear Downlight With Direct and Indirect Illumination	19	EA	\$ 883.50	\$ 1,539.00	\$ 127.50	\$ 2,423	
23		Lighting Fixture as LP4 (12'-0" Length) Variable Length Pendant Mounted LED Linear Downlight With Direct and Indirect Illumination	1	EA	\$ 46.50	\$ 106.00	\$ 152.50	\$ 153	
24		Lighting Fixture as LP5 Variable Length Pendant Mounted LED Linear Downlight With Direct and Indirect Illumination	386	LF	\$ 957.20	\$ 2,315.82	\$ 8.48	\$ 3,273	
25		Lighting Fixture as LP5 (12'-0" Length) Variable Length Pendant Mounted LED Linear Downlight With Direct and Indirect Illumination	1	EA	\$ 46.50	\$ 106.00	\$ 152.50	\$ 153	
26		Photocell	1	EA	\$ 18.60	\$ 36.00	\$ 54.60	\$ 55	

27	Lighting Fixture as S1E Wall/Ceiling Mounted Linear LED Fixture, 4-Foot Length Step Dimming Driver UL 924 Directly FED From Generator Unit Circuit. 90 Minute Battery Backup Manf: Lemar LED Model: TTU-48-H-30-2C	14	EA	\$ 694.40	\$ 2,296.00	\$ 213.60	\$ 2,990	
	<b>Conduits and wiring for Lighting</b>							
28	3/4" Conduits for Power (EMT Conduit)	19538	LF	\$ 72,682.85	\$ 31,261.44	\$ 5.32	\$ 103,944	
29	2-#12 AWG CU Live Wire	39077	LF	\$ 60,569.04	\$ 58,615.20	\$ 3.05	\$ 119,184	
30	1-#12 CU Ground Wire	19538	LF	\$ 30,284.52	\$ 29,307.60	\$ 3.05	\$ 59,592	
	<b>Important Note: Wiring and conduits are based on assumption. Electrical contractor need to confirm prior to bidding about wiring and conduits</b>							
	<b>Power Items</b>							
31	2-Pole Manual Motor Starter With Thermal Overload	37	EA	\$ 1,376.40	\$ 10,064.00	\$ 309.20	\$ 11,440	
32	Ceiling Mounted Junction Box 4" Square	4	EA	\$ 148.80	\$ 336.00	\$ 121.20	\$ 485	
33	Electric Vehicle Charging Stations. Provide Charge Point Single Or Double Port Ct4000 Level 2 Charging Station Or Equal. Coordinate Pedestal Mount Or Wall Mount With Owner Prior To Ordering. Make Final Connections As Needed	5	EA	\$ 1,550.00	\$ 5,790.00	\$ 1,468.00	\$ 7,340	
34	Floor Box	13	EA	\$ 241.80	\$ 416.00	\$ 50.60	\$ 658	
35	Low Voltage Dimmer. Connected To Lighting Control Panel Or Distributed Lighting Control	30	EA	\$ 520.80	\$ 1,110.00	\$ 54.36	\$ 1,631	
36	Low Voltage Room Type Occupancy Sensor & Dimmer. Arrow Indicates Direction Or Orientation, Subscript Indicates Switch Leg And Circuit To Be Controlled	22	EA	\$ 477.40	\$ 2,816.00	\$ 149.70	\$ 3,293	
37	Manual Motor Starter With Thermal Overload	7	EA	\$ 173.60	\$ 385.00	\$ 79.80	\$ 559	
38	Provide 20A Fused Disconnect Switch	51	EA	\$ 1,422.90	\$ 3,774.00	\$ 101.90	\$ 5,197	
39	Quadplex Receptacle	5	EA	\$ 62.00	\$ 130.00	\$ 38.40	\$ 192	
40	Room Type Occupancy Sensor, Arrow Indicates Direction	95	EA	\$ 2,591.60	\$ 6,080.00	\$ 91.28	\$ 8,672	
41	Room Type Occupancy Sensor, Arrow Indicates Direction Or Orientation, Subscript Indicates Switch Leg Or Circuit To Be Controlled	31	EA	\$ 845.68	\$ 1,984.00	\$ 91.28	\$ 2,830	
42	Single Pole Switch	9	EA	\$ 139.50	\$ 162.00	\$ 33.50	\$ 302	
43	Smoke Fire Damper Box (Fsd)	13	EA	\$ 209.56	\$ 494.00	\$ 54.12	\$ 704	
44	Technical Ground Bus	1	EA	\$ 37.20	\$ 174.00	\$ 211.20	\$ 211	
45	Wall Mounted 2022 Title 24 Compliant Half Switched Receptacle. Controlled	101	EA	\$ 1,252.40	\$ 3,030.00	\$ 42.40	\$ 4,282	
46	Wall Mounted Duplex Receptacle	214	EA	\$ 2,918.96	\$ 4,708.00	\$ 35.64	\$ 7,627	
47	Wall Mounted Duplex Receptacles	11	EA	\$ 150.04	\$ 242.00	\$ 35.64	\$ 392	
48	Wall Mounted Duplex Receptacles With Gfci	100	EA	\$ 2,046.00	\$ 3,400.00	\$ 54.46	\$ 5,446	
49	Wall Mounted Junction Box 4" Square	56	EA	\$ 1,388.80	\$ 3,808.00	\$ 92.80	\$ 5,197	
50	Wall Mounted Special Receptacle	18	EA	\$ 368.28	\$ 522.00	\$ 49.46	\$ 890	
51	Wattstopper Dimming Or Switched Emergency Lighting Relay Power Pack. Provide UI 924 Emergency Option (Er) As Per The Requirements Of The Electrical Panel From Which The Relay Is Fed. Provide Sensing Wires For Loss Of Normal Power To Each Unit From The Nearest Unswitched Lighting Circuit. Subscript Indicates Fixtures/Drivers Controlled	25	EA	\$ 3,410.00	\$ 9,500.00	\$ 516.40	\$ 12,910	
52	Wattstopper Dimming Or Switched Lighting Relay Power Pack. Subscript Indicates Fixtures/Drivers Controlled	50	EA	\$ 5,580.00	\$ 17,400.00	\$ 459.60	\$ 22,980	
53	Weatherproof Wall Mounted Duplex Receptacles With Gfci	17	EA	\$ 347.82	\$ 612.00	\$ 56.46	\$ 960	
	<b>Conduits and wiring for Power</b>							
54	3/4" Conduits for Power (EMT Conduit)	15389	LF	\$ 57,246.34	\$ 27,699.84	\$ 5.52	\$ 84,946	
55	2-#12 AWG CU Live Wire	30778	LF	\$ 47,705.28	\$ 46,166.40	\$ 3.05	\$ 93,872	
56	1-#12 CU Ground Wire	15389	LF	\$ 23,852.64	\$ 23,083.20	\$ 3.05	\$ 46,936	
	<b>Important Note: Wiring and conduits are based on assumption. Electrical contractor need to confirm prior to bidding about wiring and conduits</b>							
	<b>Panel Boards and Equipment's</b>							
	<b>Panel Boards</b>							
57	Panel Board as L1EVA 3-Phase 4-Wire 400 AMP	1	EA	\$ 421.60	\$ 3,000.00	\$ 3,421.60	\$ 3,422	
58	Panel Board as L1MA 3-Phase 4-Wire 225 AMP	1	EA	\$ 272.80	\$ 878.00	\$ 1,150.80	\$ 1,151	
59	Panel Board as L2KA 3-Phase 4-Wire 225 AMP	1	EA	\$ 272.80	\$ 878.00	\$ 1,150.80	\$ 1,151	
60	Panel Board as L1PA 3-Phase 4-Wire 225 AMP	1	EA	\$ 272.80	\$ 878.00	\$ 1,150.80	\$ 1,151	
61	Panel Board as L1TRA 3-Phase 4-Wire 225 AMP	1	EA	\$ 272.80	\$ 878.00	\$ 1,150.80	\$ 1,151	
62	Panel Board as L2KB 3-Phase 4-Wire 225 AMP	1	EA	\$ 272.80	\$ 878.00	\$ 1,150.80	\$ 1,151	
63	Panel Board as L1LA 3-Phase 4-Wire 225 AMP	1	EA	\$ 272.80	\$ 878.00	\$ 1,150.80	\$ 1,151	
64	Panel Board as LA 3-Phase 4-Wire 225 AMP	1	EA	\$ 272.80	\$ 878.00	\$ 1,150.80	\$ 1,151	
65	Panel Board as L2PA 3-Phase 4-Wire 225 AMP	1	EA	\$ 272.80	\$ 878.00	\$ 1,150.80	\$ 1,151	
66	Panel Board as L3PA 3-Phase 4-Wire 225 AMP	1	EA	\$ 272.80	\$ 878.00	\$ 1,150.80	\$ 1,151	

67	Panel Board as L3MA 3-Phase 4-Wire 225 AMP	1	EA	\$ 272.80	\$ 878.00	\$ 1,150.80	\$ 1,151	
68	Panel Board as LXL3PA 3-Phase 4-Wire 225 AMP	1	EA	\$ 272.80	\$ 878.00	\$ 1,150.80	\$ 1,151	
69	Panel Board as L3PB 3-Phase 4-Wire 400 AMP	1	EA	\$ 421.60	\$ 3,000.00	\$ 3,421.60	\$ 3,422	
70	Panel Board as XL1PA 3-Phase 4-Wire 225 AMP	1	EA	\$ 272.80	\$ 878.00	\$ 1,150.80	\$ 1,151	
71	Panel Board as LXL3MA 3-Phase 4-Wire 225 AMP	1	EA	\$ 272.80	\$ 878.00	\$ 1,150.80	\$ 1,151	
72	Panel Board as XL2PA 3-Phase 4-Wire 225 AMP	1	EA	\$ 272.80	\$ 878.00	\$ 1,150.80	\$ 1,151	
73	Panel Board as ELDP1A 3-Phase 4-Wire 225 AMP	1	EA	\$ 272.80	\$ 878.00	\$ 1,150.80	\$ 1,151	
74	Relay Cabinet as LCP	1	EA	\$ 223.20	\$ 1,098.00	\$ 1,321.20	\$ 1,321	
75	Main Switchboard Assembly 2500 AMP Bus 208/120V-3S, 4W	1	EA	\$ 1,612.00	\$ 18,740.00	\$ 20,352.00	\$ 20,352	
76	Panel Board as EDBLR (Provide and Furnish by Manf) 800 AMP	1	EA	\$ 558.00	\$ 5,420.00	\$ 5,978.00	\$ 5,978	
	<b>Switch Gear and Equipment's</b>							
77	4/0 Bare Copper Ground Conductor	1	EA	\$ 49.60	\$ 124.00	\$ 173.60	\$ 174	
78	400AMP Automatic Transfer Switch (With Manual Bypass)	1	EA	\$ 248.00	\$ 3,040.00	\$ 3,288.00	\$ 3,288	
79	800AMP Automatic Transfer Switch (With Manual Bypass)	1	EA	\$ 372.00	\$ 5,840.00	\$ 6,212.00	\$ 6,212	
80	ELEVATOR CONTROLLER TO BE SPECIFIED WITH 20KA SCCR	2	EA	\$ 99.20	\$ 148.00	\$ 123.60	\$ 247	
81	Emergency Distribution Board 1200 AMP	1	EA	\$ 372.00	\$ 4,750.00	\$ 5,122.00	\$ 5,122	
82	Generator (MTU 6R0225 DS350) 350 KW 438 KVA Diesel generator, With 24 Hour Skid Based Tank and Passive Particulate Filter	1	EA	\$ 2,480.00	\$ 70,500.00	\$ 72,980.00	\$ 72,980	
83	Kirk-Key Interlock Between Devices	1	EA	\$ 124.00	\$ 164.00	\$ 288.00	\$ 288	
84	PROVIDE EXOTHERMIC CONNECTION TO BUILDING STEEL COLUMN	1	EA	\$ 186.00	\$ 486.00	\$ 672.00	\$ 672	
85	PROVIDE EXOTHERMIC CONNECTION TO DRIVEN GROUND ROD(S). PROVIDE ADDITIONAL GROUND RODS AS REQUIRED TO CONFORM WITH SPECIFIED RESISTANCE LEVELS	2	EA	\$ 372.00	\$ 360.00	\$ 366.00	\$ 732	
86	Surge Protection Device	1	EA	\$ 161.20	\$ 130.00	\$ 291.20	\$ 291	
	<b>Conduit as F3125</b>							
87	1-1/2" Dia Conduit	34	LF	\$ 124.99	\$ 53.76	\$ 5.32	\$ 179	
88	3-#1	101	LF	\$ 156.24	\$ 181.44	\$ 3.35	\$ 338	
89	1-#6	34	LF	\$ 62.50	\$ 67.20	\$ 3.86	\$ 130	
	<b>Conduit as F4100</b>							
90	2" Dia Conduit	17	LF	\$ 62.50	\$ 30.24	\$ 5.52	\$ 93	
91	3-#1	50	LF	\$ 78.12	\$ 90.72	\$ 3.35	\$ 169	
92	1-#1	17	LF	\$ 26.04	\$ 30.24	\$ 3.35	\$ 56	
93	1-#6	17	LF	\$ 31.25	\$ 33.60	\$ 3.86	\$ 65	
	<b>Conduit as F4120</b>							
94	2" Dia Conduit	17	LF	\$ 62.50	\$ 30.24	\$ 5.52	\$ 93	
95	3-#1	50	LF	\$ 78.12	\$ 90.72	\$ 3.35	\$ 169	
96	1-#1	17	LF	\$ 26.04	\$ 30.24	\$ 3.35	\$ 56	
97	1-#6	17	LF	\$ 31.25	\$ 33.60	\$ 3.86	\$ 65	
	<b>Conduit as F4225</b>							
98	2-1/2" Dia Conduit	185	LF	\$ 802.03	\$ 358.51	\$ 6.28	\$ 1,161	
99	3-#3	554	LF	\$ 859.32	\$ 1,219.68	\$ 3.75	\$ 2,079	
100	1-#4	185	LF	\$ 286.44	\$ 406.56	\$ 3.75	\$ 693	
101	1-#4	185	LF	\$ 286.44	\$ 406.56	\$ 3.75	\$ 693	
	<b>Conduit as F4400</b>							
102	2-1/2" Dia Conduit	168	LF	\$ 729.12	\$ 352.80	\$ 6.44	\$ 1,082	
103	6-#3	1008	LF	\$ 1,562.40	\$ 2,318.40	\$ 3.85	\$ 3,881	
104	3-#3	504	LF	\$ 781.20	\$ 1,159.20	\$ 3.85	\$ 1,940	
105	2-#2	336	LF	\$ 729.12	\$ 840.00	\$ 4.67	\$ 1,569	
	<b>Conduit as F4800</b>							
106	3" Dia Conduit	202	LF	\$ 999.94	\$ 443.52	\$ 7.16	\$ 1,443	
107	9-#350	1814	LF	\$ 3,937.25	\$ 7,257.60	\$ 6.17	\$ 11,195	
108	3-#350	605	LF	\$ 937.44	\$ 2,419.20	\$ 5.55	\$ 3,357	
109	3-#1	605	LF	\$ 1,124.93	\$ 1,088.64	\$ 3.66	\$ 2,214	
110	UFER GROUND. PROVIDE MINIMUM 50' OF BARE COPPER CABLE EMBEDDED IN BUILDING FOUNDATION	53	LF	\$ 195.30	\$ 220.50	\$ 7.92	\$ 416	
<b>SUB TOTAL</b>				<b>419464.0904</b>	<b>\$ 515,552.72</b>		<b>\$ 935,017</b>	<b>\$ 935,017</b>
<b>MATERIAL TAX (10.75%)</b>						<b>11%</b>	<b>\$ 55,421.92</b>	<b>\$ 55,421.92</b>
<b>CONTRACTOR PROFIT (20%)</b>						<b>20.0%</b>	<b>\$ 187,003</b>	<b>\$ 187,003</b>
<b>OVERHEAD (15%)</b>						<b>15.0%</b>	<b>\$ 140,253</b>	<b>\$ 140,253</b>
<b>BOND FEE (1.5%)</b>						<b>1.5%</b>	<b>\$ 14,025</b>	<b>\$ 14,025</b>
<b>TOTAL BASE BID</b>							<b>\$ 1,331,720</b>	<b>\$ 1,331,720</b>