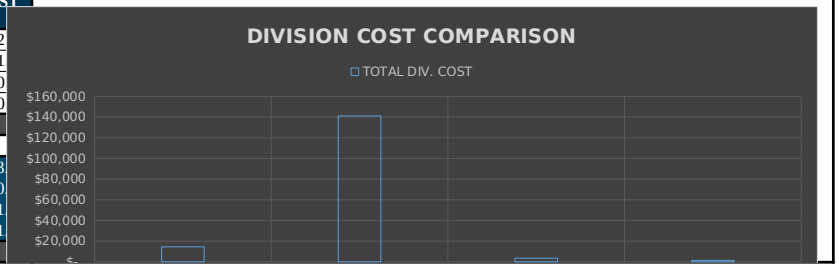
GENERAL SUMMARY

Prepared for: Custom Residence, 331 E Boca Road Boca Raton, Florida
Project ID: 14082026
Scope: Electrical
No. Of Floors: 2
Date: 28-Sep-26

ELECTRICAL ESTIMATION
+1 708-381-0900

BUILDING GSF	6,421
1st Floor (SF)	2961
2nd Floor (SF)	3460

DIVISION NO	DESCRIPTION	TOTAL DIV. COST	TOTAL DIV. COST (PER SF)
1000	General Requirements	$ 14,500	$ 2
26000	Electrical	$ 141,109	$ 21
27000	Communications	$ 3,538	$ 0
28000	Electronic Safety and Security	$ 1,376	$ 0
TOTAL TRADE COST		$ 160,523	$
OVERHEAD AND PROFIT	15%	$ 24,078	$ 3
INSURANCE	3%	$ 4,816	$ 0
CONTINGENCY	5%	$ 8,026	$ 1
TAX	7%	$ 6,359	$ 1
SUGGESTED BID		$ 203,802	$



ELECTRICAL ESTIMATION

DETAILED BREAKDOWN OF ITEMS

Prepared for: Custom Residence, 331 E Boca Road Boca Raton, Florida
Project ID: 14082026
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
			GENERAL REQUIREMENTS										
			ADMINISTRATIVE REQUIREMENTS										
1			Project Management & Coordination	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 6,000.00	$ 6,000.00
			QUALITY REQUIREMENTS										
2			Testing, Commissioning & Inspection Services	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 2,000.00	$ 2,000.00
			TEMPORARY FACILITIES & CONTROLS										
3			Construction Facilities	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 1,500.00	$ 1,500.00
			EXECUTION & CLOSEOUT REQUIREMENT										
4			Final Cleaning	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 1,000.00	$ 1,000.00
5			Final Inspections & Certificate of Occupancy	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 1,000.00	$ 1,000.00
			MISC.										
6			Mobilization / Demobilization	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 3,000.00	$ 3,000.00
												SUBTOTAL	**$ 14,500**
			ELECTRICAL										
			DISTRIBUTION										
			CONDUIT										
7			1" EMT Conduit	LF	65	10%	72	0.07	$ 60.00	$ 4.20	$ 2.67	$ 6.87	$ 491.55
8			2" EMT Conduit	LF	65	10%	72	0.10	$ 60.00	$ 6.00	$ 6.22	$ 12.22	$ 873.76
9			1" PVC SCH 40 Conduit	LF	11	10%	12	0.06	$ 60.00	$ 3.84	$ 1.81	$ 5.65	$ 68.39
10		**Length Assumed**	3" PVC SCH 40 Conduit With Pull String	LF	50	10%	55	0.15	$ 60.00	$ 8.70	$ 6.60	$ 15.30	$ 841.50
11			2" RGS Conduit	LF	5	10%	6	0.18	$ 60.00	$ 10.68	$ 14.76	$ 25.44	$ 139.92
12			2" LFMC Conduit	LF	3	10%	3	0.22	$ 60.00	$ 13.20	$ 16.25	$ 29.45	$ 97.19
			CONDUCTOR										
13			#10 Solid CU THHN	LF	77	10%	85	0.008	$ 60.00	$ 0.48	$ 0.38	$ 0.86	$ 72.84
14			#6 Stranded CU THWN	LF	207	10%	228	0.02	$ 60.00	$ 1.17	$ 1.24	$ 2.41	$ 548.76
15			#3/0 Stranded CU THWN	LF	217	10%	239	0.08	$ 60.00	$ 4.59	$ 6.33	$ 10.92	$ 2,606.60
			LUGS										
16			Compression Lug CU With 1-Hole , #6 CU Wire	EA	14	0%	14	0.12	$ 60.00	$ 7.20	$ 3.55	$ 10.75	$ 150.50
17			Heat Shrink Tubing for #6 CU Wire	EA	14	0%	14	0.06	$ 60.00	$ 3.60	$ 0.60	$ 4.20	$ 58.80
18			Compression Lug CU With 1-Hole , #3/0 CU Wire	EA	42	0%	42	0.30	$ 60.00	$ 18.00	$ 14.35	$ 32.35	$ 1,358.70
19			Heat Shrink Tubing for #3/0 CU Wire	EA	42	0%	42	0.16	$ 60.00	$ 9.60	$ 1.75	$ 11.35	$ 476.70
			PANEL										
20			Panel A: 200A, 240/120V, 1PH, 3W, Main: MLO, 54 Pole, 22KAIC Rated, Su	EA	1	0%	1	5.99	$ 60.00	$ 359.40	$ 2,827.48	$ 3,186.88	$ 3,186.88
21			1P/20A Breaker	EA	5	0%	5	0.42	$ 60.00	$ 25.20	$ 33.00	$ 58.20	$ 291.00
22			1P/20A Combination Type ARC Fault Breaker	EA	13	0%	13	0.42	$ 60.00	$ 25.20	$ 38.50	$ 63.70	$ 828.10
23			1P/20A Combination Type ARC/Ground Fault Breaker	EA	11	0%	11	0.42	$ 60.00	$ 25.20	$ 43.33	$ 68.53	$ 753.83
24			2P/20A Breaker	EA	1	0%	1	0.45	$ 60.00	$ 27.00	$ 43.18	$ 70.18	$ 70.18
25			2P/30A Breaker	EA	3	0%	3	0.48	$ 60.00	$ 28.80	$ 59.00	$ 87.80	$ 263.40
26			2P/30A Combination Type Ground Fault Breaker	EA	1	0%	1	0.48	$ 60.00	$ 28.80	$ 69.50	$ 98.30	$ 98.30
27			2P/50A Breaker	EA	1	0%	1	0.52	$ 60.00	$ 31.20	$ 72.00	$ 103.20	$ 103.20
28			2P/50A Combination Type Ground Fault Breaker	EA	1	0%	1	0.52	$ 60.00	$ 31.20	$ 82.22	$ 113.42	$ 113.42
29			Surge Protection Device	EA	1	0%	1	1.25	$ 60.00	$ 75.00	$ 225.00	$ 300.00	$ 300.00
30			Panel B: 200A, 240/120V, 1PH, 3W, Main: MLO, 42 Pole, 22KAIC Rated, Su	EA	1	0%	1	4.20	$ 60.00	$ 252.00	$ 2,199.15	$ 2,451.15	$ 2,451.15
31			1P/20A Breaker	EA	7	0%	7	0.42	$ 60.00	$ 25.20	$ 33.00	$ 58.20	$ 407.40
32			1P/20A Combination Type ARC Fault Breaker	EA	16	0%	16	0.42	$ 60.00	$ 25.20	$ 38.50	$ 63.70	$ 1,019.20
33			1P/20A Combination Type ARC/Ground Fault Breaker	EA	2	0%	2	0.42	$ 60.00	$ 25.20	$ 43.33	$ 68.53	$ 137.06
34			2P/20A Breaker	EA	1	0%	1	0.45	$ 60.00	$ 27.00	$ 43.18	$ 70.18	$ 70.18
35			2P/25A Breaker	EA	1	0%	1	0.45	$ 60.00	$ 27.00	$ 46.00	$ 73.00	$ 73.00
36			2P/30A Breaker	EA	4	0%	4	0.48	$ 60.00	$ 28.80	$ 59.00	$ 87.80	$ 351.20
37			Surge Protection Device	EA	1	0%	1	1.05	$ 60.00	$ 63.00	$ 178.86	$ 241.86	$ 241.86
38			Panel MB: 200A, 240/120V, 1PH, 3W, Main: MCB, 20 Pole, 22KAIC Rated, Sur	EA	1	0%	1	3.22	$ 60.00	$ 193.20	$ 1,047.21	$ 1,240.41	$ 1,240.41
39			1P/20A Breaker	EA	3	0%	3	0.42	$ 60.00	$ 25.20	$ 33.00	$ 58.20	$ 174.60
40			1P/20A Breaker With Handel Lock-Off Device	EA	1	0%	1	0.42	$ 60.00	$ 25.20	$ 38.50	$ 63.70	$ 63.70
41			2P/20A Breaker	EA	1	0%	1	0.45	$ 60.00	$ 27.00	$ 43.18	$ 70.18	$ 70.18
42			2P/50A Combination Type Ground Fault Breaker	EA	1	0%	1	0.54	$ 60.00	$ 32.10	$ 75.50	$ 107.60	$ 107.60
43			2P/60A Breaker	EA	1	0%	1	0.55	$ 60.00	$ 33.00	$ 78.00	$ 111.00	$ 111.00
44			2P/200A MCB	EA	1	0%	1	1.55	$ 60.00	$ 93.00	$ 650.00	$ 743.00	$ 743.00
45			Surge Protection Device	EA	1	0%	1	0.85	$ 60.00	$ 51.00	$ 125.50	$ 176.50	$ 176.50
46		**Provided By Pool Contractor Under Separate Permit**	100A, Pool Panel (Rating Assumed)	EA	1	0%	1	3.85	$ 60.00	$ 231.00	$ -	$ 231.00	$ 231.00
			DEVICES										
47			200A Meter	EA	1	0%	1	2.85	$ 60.00	$ 171.00	$ 513.24	$ 684.24	$ 684.24
48			45KW/45KVA (Stand-By Rating), 120/240v, 1PH, 3W, 60HZ, 1800 RPM LP Gas	EA	1	0%	1	62.50	$ 60.00	$ 3,750.00	$ 27,243.69	$ 30,993.69	$ 30,993.69
49			2P/200A Thermal-Magnetic, Molded Case Breaker (For Generator)	EA	1	0%	1	2.25	$ 60.00	$ 135.00	$ 594.99	$ 729.99	$ 729.99
50			Concrete Pad	EA	1	0%	1	4.55	$ 60.00	$ 273.00	$ 1,250.00	$ 1,523.00	$ 1,523.00
51			ATSA: 200A SE Rated Automatic Transfer Switch, GENERAC MODEL: "G0099	EA	1	0%	1	3.22	$ 60.00	$ 193.20	$ 929.00	$ 1,122.20	$ 1,122.20
52			2P/200A Breaker For ATSA	EA	1	0%	1	2.25	$ 60.00	$ 135.00	$ 594.99	$ 729.99	$ 729.99
53			ATSB: 200A SE Rated Automatic Transfer Switch, GENERAC MODEL: " RXGW	EA	1	0%	1	3.22	$ 60.00	$ 193.20	$ 929.00	$ 1,122.20	$ 1,122.20
54			2P/200A Breaker For ATSB	EA	1	0%	1	2.25	$ 60.00	$ 135.00	$ 594.99	$ 729.99	$ 729.99
			DISCONNECT SWITCHES										
55		**Factory Mounted**	2P/30A Disconnect Switch	EA	4	0%	4	0.94	$ 60.00	$ 56.28	$ 117.24	$ 173.52	$ 694.06
56			2P/60A Disconnect Switch, NEMA 3R	EA	1	0%	1	1.40	$ 60.00	$ 83.80	$ 264.79	$ 348.59	$ 348.59
			GROUNDING										
57			3/4"X10' Copper Clad Ground Rod	EA	1	0%	1	0.85	$ 60.00	$ 51.00	$ 58.50	$ 109.50	$ 109.50
58			Exothermic Connection	EA	1	0%	1	0.35	$ 60.00	$ 21.00	$ 35.50	$ 56.50	$ 56.50
59			Intersystem Bonding Bridge	EA	1	0%	1	0.30	$ 60.00	$ 18.00	$ 29.53	$ 47.53	$ 47.53
60			Concrete Enclosed Electrode	EA	1	0%	1	0.45	$ 60.00	$ 27.00	$ 45.50	$ 72.50	$ 72.50
61		**Length Assumed**	#6 CU Grounding Conductor	LF	40	10%	44	0.06	$ 60.00	$ 3.30	$ 1.65	$ 4.95	$ 217.80
62	**E201, E202, E301, E302 & E400**		#1/0 CU Grounding Conductor	LF	20	10%	22	0.10	$ 60.00	$ 6.00	$ 5.25	$ 11.25	$ 247.50
			POWER										
			CONDUIT										
63			1/2" EMT Conduit	LF	2227	10%	2449	0.05	$ 60.00	$ 2.82	$ 1.08	$ 3.90	$ 9,545.49
64			3/4" EMT Conduit	LF	389	10%	428	0.06	$ 60.00	$ 3.72	$ 1.76	$ 5.48	$ 2,346.70
65			3/4" PVC SCH 40 Conduit	LF	13	10%	15	0.06	$ 60.00	$ 3.30	$ 1.33	$ 4.63	$ 67.56
			CONDUCTOR										
66			3#12 NM Cable	LF	924	10%	1016	0.04	$ 60.00	$ 2.10	$ 1.25	$ 3.35	$ 3,405.16
67			#12 Solid CU THHN	LF	6720	10%	7392	0.01	$ 60.00	$ 0.36	$ 0.31	$ 0.67	$ 4,937.77
68			#10 Solid CU THHN	LF	1177	10%	1295	0.01	$ 60.00	$ 0.48	$ 0.46	$ 0.94	$ 1,219.76
69			#8 Stranded CU THWN	LF	120	10%	132	0.01	$ 60.00	$ 0.60	$ 0.65	$ 1.25	$ 165.14
			DEVICE										
70			Exhaust Fan Connection	EA	7	0%	7	0.82	$ 60.00	$ 48.90	$ -	$ 48.90	$ 342.30
71			Duplex Receptacle	EA	74	0%	74	0.30	$ 60.00	$ 18.00	$ 19.89	$ 37.89	$ 2,803.86
72			Duplex Receptacle, GFCI	EA	12	0%	12	0.40	$ 60.00	$ 24.00	$ 28.88	$ 52.88	$ 634.56
73			Duplex Receptacle, WP/GFCI	EA	8	0%	8	0.42	$ 60.00	$ 25.20	$ 31.50	$ 56.70	$ 453.60
74			Duplex Receptacle, GFCI Above Counter	EA	19	0%	19	0.42	$ 60.00	$ 25.20	$ 30.22	$ 55.42	$ 1,052.98
75			Simplex Receptacle	EA	12	0%	12	0.25	$ 60.00	$ 15.00	$ 14.50	$ 29.50	$ 354.00
76			Duplex Receptacle, Floor Mounted	EA	1	0%	1	0.85	$ 60.00	$ 51.00	$ 131.26	$ 182.26	$ 182.26
77			Duplex Receptacle & Tele/Data Outlet, Floor Mounted	EA	1	0%	1	0.98	$ 60.00	$ 58.80	$ 159.85	$ 218.65	$ 218.65
78			Recessed Air Switch	EA	1	0%	1	0.55	$ 60.00	$ 33.00	$ 78.99	$ 111.99	$ 111.99
79			Duplex Receptacle, Half Switched, 20A, 120V	EA	1	0%	1	0.30	$ 60.00	$ 18.00	$ 18.50	$ 36.50	$ 36.50
80			2P/50A Special Purpose Receptacle	EA	1	0%	1	0.48	$ 60.00	$ 28.80	$ 68.43	$ 97.23	$ 97.23
81			2P/30A Special Purpose Receptacle	EA	1	0%	1	0.40	$ 60.00	$ 24.00	$ 42.50	$ 66.50	$ 66.50
82			Duplex Receptacle, Recess Ceiling Mounted	EA	1	0%	1	0.38	$ 60.00	$ 22.80	$ 25.65	$ 48.45	$ 48.45
			LIGHTING										
			CONDUIT										
83			3/4" EMT Conduit	LF	236	10%	260	0.06	$ 60.00	$ 3.72	$ 1.76	$ 5.48	$ 1,422.24
			CONDUCTOR										
84			3#12 NM Cable	LF	634	10%	698	0.04	$ 60.00	$ 2.10	$ 1.25	$ 3.35	$ 2,336.88
85			3#10 NM Cable	LF	979	10%	1076	0.08	$ 60.00	$ 4.50	$ 2.45	$ 6.95	$ 7,480.63
86			#12 Solid CU THHN	LF	1282	10%	1410	0.01	$ 60.00	$ 0.36	$ 0.31	$ 0.67	$ 942.09
87			#10 Solid CU THHN	LF	708	10%	779	0.01	$ 60.00	$ 0.48	$ 0.46	$ 0.94	$ 733.54

Phone: +1 708-381-0900

DETAILED BREAKDOWN OF ITEMS

Prepared for: Custom Residence, 331 E Boca Road Boca Raton, Florida
Project ID: 14082026
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
			LIGHTING FIXTURES										
88			A1: 6" Dia LED Recessed Downlight, Selected By Owner Watts: 18W Max	EA	119	0%	119	0.65	$ 60.00	$ 39.00	$ 63.25	$ 102.25	$ 12,167.75
89			A2: 6" Dia LED Recessed Downlight - Vapor Proof, Selected By Owner Watts: 18W Max	EA	5	0%	5	0.65	$ 60.00	$ 39.00	$ 71.00	$ 110.00	$ 550.00
90			A3: 6" Dia LED Recessed Downlight - U.L. Listed For Wet Location, Selected By Owner Watts: 18W Max	EA	16	0%	16	0.65	$ 60.00	$ 39.00	$ 63.25	$ 102.25	$ 1,636.00
91			B: LED Exterior Wall Sconce, Selected By Owner Watts: 18W Max	EA	4	0%	4	0.82	$ 60.00	$ 49.20	$ 109.90	$ 159.10	$ 636.40
92			C: LED Interior Vanity Sconce, Selected By Owner Watts: 18W Max	EA	8	0%	8	1.02	$ 60.00	$ 61.20	$ 144.42	$ 205.62	$ 1,644.96
93			D: (34 Each) LED Cove Tape Light, Selected By Owner Watts: 3W/FT Max	LF	353	0%	353	0.15	$ 60.00	$ 9.00	$ 12.50	$ 21.50	$ 7,581.76
94			F: Ceiling Fan, Selected By Owner Watts: 150W Max	EA	6	0%	6	1.85	$ 60.00	$ 111.00	$ 269.99	$ 380.99	$ 2,285.94
95			G: Custom Decorative LED Chandelier, Selected By Owner Watts: 18W Max	EA	6	0%	6	2.20	$ 60.00	$ 132.00	$ 672.00	$ 804.00	$ 4,824.00
96			H: Custom Decorative LED Pendant, Selected By Owner Watts: 18W Max	EA	2	0%	2	2.20	$ 60.00	$ 132.00	$ 672.00	$ 804.00	$ 1,608.00
97			I: 1'x4' Surface Mounted LED Troffer, Selected By Owner Watts: 30W Max	EA	4	0%	4	0.78	$ 60.00	$ 46.80	$ 86.39	$ 133.19	$ 532.76
98		**Tag Not Given**	LED Interior Wall Sconce	EA	6	0%	6	1.02	$ 60.00	$ 61.20	$ 271.99	$ 333.19	$ 1,999.14
			LIGHTING CONTROL										
99			3-Way Switch	EA	16	0%	16	0.30	$ 60.00	$ 18.00	$ 23.50	$ 41.50	$ 664.00
100			4-Way Switch	EA	1	0%	1	0.42	$ 60.00	$ 25.20	$ 38.50	$ 63.70	$ 63.70
101			Single Pole Switch	EA	75	0%	75	0.28	$ 60.00	$ 16.80	$ 12.50	$ 29.30	$ 2,197.50
			MISCELLANEOUS										
102			Junction Box	EA	9	0%	9	0.35	$ 60.00	$ 21.00	$ 12.50	$ 33.50	$ 301.50
103			Junction Box For EV Charger	EA	1	0%	1	0.55	$ 60.00	$ 33.00	$ 21.50	$ 54.50	$ 54.50
			SAW CUT										
104			Saw Cut & Repair Concrete Floor For Conduit Installation	LF	13	0%	13	0.15	$ 60.00	$ 9.00	$ 1.25	$ 10.25	$ 133.25
			TRENCHING & BACKFILLING										
105			Excavation & Backfilling (2' Deep x 1' Wide Trench) Including All Labor and Material/Equipment	CFT	100	0%	100	0.06	$ 60.00	$ 3.30	$ -	$ 3.30	$ 330.00
												SUBTOTAL	**$ 141,109**
			COMMUNICATION										
			TELECOMMUNICATION										
			CONDUIT										
106			3/4" EMT Conduit Upto Ceiling	LF	156	10%	172	0.06	$ 60.00	$ 3.72	$ 1.76	$ 5.48	$ 940.25
107			3/4" PVC SCH 40 Conduit	LF	5	10%	6	0.06	$ 60.00	$ 3.30	$ 1.33	$ 4.63	$ 27.41
			CONDUCTOR										
108			CAT6 Cable	LF	468	10%	515	0.02	$ 60.00	$ 1.20	$ 0.28	$ 1.48	$ 762.52
109			Coaxial Cable	LF	533	10%	587	0.03	$ 60.00	$ 1.50	$ 0.32	$ 1.82	$ 1,067.79
	E301 & E302		**DEVICES**										
110			Tele/Data Outlet	EA	4	0%	4	0.30	$ 60.00	$ 18.00	$ 12.50	$ 30.50	$ 122.00
111			Backbox	EA	4	0%	4	0.15	$ 60.00	$ 9.00	$ 8.99	$ 17.99	$ 71.96
112			2 Port Faceplate	EA	4	0%	4	0.12	$ 60.00	$ 7.20	$ 7.25	$ 14.45	$ 57.80
113			RJ45 Connector	EA	8	0%	8	0.06	$ 60.00	$ 3.30	$ 0.95	$ 4.25	$ 34.00
114			TV Outlet	EA	8	0%	8	0.28	$ 60.00	$ 16.80	$ 10.50	$ 27.30	$ 218.40
115			Backbox	EA	8	0%	8	0.15	$ 60.00	$ 9.00	$ 5.99	$ 14.99	$ 119.92
116			Faceplate	EA	8	0%	8	0.10	$ 60.00	$ 6.00	$ 4.25	$ 10.25	$ 82.00
117			F-Connector	EA	8	0%	8	0.06	$ 60.00	$ 3.30	$ 0.95	$ 4.25	$ 34.00
												SUBTOTAL	**$ 3,538**
			ELECTRONIC SAFETY AND SECURITY										
			FIRE ALARM										
			CONDUCTOR										
118	**E201 & E202**		2#16 Plenum Rated Cable	LF	66	10%	73	0.02	$ 60.00	$ 1.20	$ 0.65	$ 1.85	$ 134.55
			DEVICES										
119			Combination Smoke / Carbon Monoxide Alarm	EA	3	0%	3	0.92	$ 60.00	$ 55.20	$ 129.99	$ 185.19	$ 555.57
120			Smoke Alarm	EA	7	0%	7	0.55	$ 60.00	$ 33.00	$ 65.00	$ 98.00	$ 686.00
												SUBTOTAL	**$ 1,376**

PROJECTED COST		**$160,523**
OVERHEAD AND PROFIT	**15%**	**$24,078**
INSURANCE	**3%**	**$4,816**
CONTINGENCY	**5%**	**$8,026**
TAX	**7%**	**$6,359**
SUGGESTED BID		**$203,802**

Notes:

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

ELECTRICAL ESTIMATION

DETAILED BREAKDOWN OF ITEMS

Prepared for: Custom Residence, 331 E Boca Road Boca Raton, Florida
Project ID: 14082026
Scope: Electrical

ELECTRICAL ESTIMATION
+1 708-381-0900

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY W/ WASTAGE
			ELECTRICAL		
			DISTRIBUTION		
			CONDUIT (1 CUT = 10LF)		
1			1" EMT Conduit	EA	7
2			2" EMT Conduit	EA	7
3			1" PVC SCH 40 Conduit	EA	1
4		**Length Assumed**	3" PVC SCH 40 Conduit With Pull String	EA	5
5			2" RGS Conduit	EA	1
6			2" LFMC Conduit	EA	0
			CONDUCTOR (1 ROLL = 200LF)		
7			#10 Solid CU THHN	ROLL	0.4
8			#6 Stranded CU THWN	ROLL	1
9			#3/0 Stranded CU THWN	ROLL	1
			LUGS		
10			Compression Lug CU With 1-Hole , #6 CU Wire	EA	14
11			Heat Shrink Tubing for #6 CU Wire	EA	14
12			Compression Lug CU With 1-Hole , #3/0 CU Wire	EA	42
13			Heat Shrink Tubing for #3/0 CU Wire	EA	42
			PANEL		
14			Panel A: 200A, 240/120V, 1PH, 3W, Main: MLO, 54 Pole, 22KAIC Rated, S	EA	1
15			1P/20A Breaker	EA	5
16			1P/20A Combination Type ARC Fault Breaker	EA	13
17			1P/20A Combination Type ARC/Ground Fault Breaker	EA	11
18			2P/20A Breaker	EA	1
19			2P/30A Breaker	EA	3
20			2P/30A Combination Type Ground Fault Breaker	EA	1
21			2P/50A Breaker	EA	1
22			2P/50A Combination Type Ground Fault Breaker	EA	1
23			Surge Protection Device	EA	1
24			Panel B: 200A, 240/120V, 1PH, 3W, Main: MLO, 42 Pole, 22KAIC Rated, S	EA	1
25			1P/20A Breaker	EA	7
26			1P/20A Combination Type ARC Fault Breaker	EA	16
27			1P/20A Combination Type ARC/Ground Fault Breaker	EA	2
28			2P/20A Breaker	EA	1
29			2P/25A Breaker	EA	1
30			2P/30A Breaker	EA	4
31			Surge Protection Device	EA	1
32			Panel MB: 200A, 240/120V, 1PH, 3W, Main: MCB, 20 Pole, 22KAIC Rated, Su	EA	1
33			1P/20A Breaker	EA	3
34			1P/20A Breaker With Handel Lock-Off Device	EA	1
35			2P/20A Breaker	EA	1
36			2P/50A Combination Type Ground Fault Breaker	EA	1
37			2P/60A Breaker	EA	1
38			2P/200A MCB	EA	1
39			Surge Protection Device	EA	1
40		**Provided By Pool Contractor Under Separate Permit**	100A, Pool Panel (Rating Assumed)	EA	1
			DEVICES		
41			200A Meter	EA	1
42			45KW/45KVA (Stand-By Rating), 120/240v, 1PH, 3W, 60HZ, 1800 RPM LP Gas	EA	1
43			2P/200A Thermal-Magnetic, Molded Case Breaker (For Generator)	EA	1
44			Concrete Pad	EA	1
45			ATSA: 200A SE Rated Automatic Transfer Switch, GENERAC MODEL: "G0099	EA	1
46			2P/200A Breaker For ATSA	EA	1
47			ATSB: 200A SE Rated Automatic Transfer Switch, GENERAC MODEL: " RXGV	EA	1
48			2P/200A Breaker For ATSB	EA	1
			DISCONNECT SWITCHES		
49		**Factory Mounted**	2P/30A Disconnect Switch	EA	4

DETAILED BREAKDOWN OF ITEMS

Prepared for: Custom Residence, 331 E Boca Road Boca Raton, Florida
Project ID: 14082026
Scope: Electrical

ELECTRICAL ESTIMATION
+1 708-381-0900

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY W/ WASTAGE
50	E201, E202, E301, E302 & E400		2P/60A Disconnect Switch, NEMA 3R	EA	1
			GROUNDING		
51			3/4"X10' Copper Clad Ground Rod	EA	1
52			Exothermic Connection	EA	1
53			Intersystem Bonding Bridge	EA	1
54			Concrete Enclosed Electrode	EA	1
55		Length Assumed	#6 CU Grounding Conductor	EA	0.2
56			#1/0 CU Grounding Conductor	EA	0.1
			POWER		
			CONDUIT (1 CUT = 10LF)		
57			1/2" EMT Conduit	EA	223
58			3/4" EMT Conduit	EA	39
59			3/4" PVC SCH 40 Conduit	EA	1
			CONDUCTOR (1 ROLL = 200LF)		
60			3#12 NM Cable	ROLL	5
61			#12 Solid CU THHN	ROLL	34
62			#10 Solid CU THHN	ROLL	6
63			#8 Stranded CU THWN	ROLL	1
			DEVICE		
64			Exhaust Fan Connection	EA	7
65			Duplex Receptacle	EA	74
66			Duplex Receptacle, GFCI	EA	12
67			Duplex Receptacle, WP/GFCI	EA	8
68			Duplex Receptacle, GFCI Above Counter	EA	19
69			Simplex Receptacle	EA	12
70			Duplex Receptacle, Floor Mounted	EA	1
71			Duplex Receptacle & Tele/Data Outlet, Floor Mounted	EA	1
72			Recessed Air Switch	EA	1
73			Duplex Receptacle, Half Switched, 20A, 120V	EA	1
74			2P/50A Special Purpose Receptacle	EA	1
75			2P/30A Special Purpose Receptacle	EA	1
76			Duplex Receptacle, Recess Ceiling Mounted	EA	1
			LIGHTING		
			CONDUIT (1 CUT = 10LF)		
77			3/4" EMT Conduit	EA	24
			CONDUCTOR (1 ROLL = 200LF)		
78			3#12 NM Cable	ROLL	3
79			3#10 NM Cable	ROLL	5
80			#12 Solid CU THHN	ROLL	6
81			#10 Solid CU THHN	ROLL	4
			LIGHTING FIXTURES		
82			A1: 6" Dia LED Recessed Downlight, Selected By Owner Watts: 18W Max	EA	119
83			A2: 6" Dia LED Recessed Downlight - Vapor Proof, Selected By Owner Watts: 18W Max	EA	5
84			A3: 6" Dia LED Recessed Downlight - U.L. Listed For Wet Location, Selected By Owner Watts: 18W Max	EA	16
85			B: LED Exterior Wall Sconce, Selected By Owner Watts: 18W Max	EA	4
86			C: LED Interior Vanity Sconce, Selected By Owner Watts: 18W Max	EA	8
87			D: (34 Each) LED Cove Tape Light, Selected By Owner Watts: 3W/FT Max	EA	353
88			F: Ceiling Fan, Selected By Owner Watts: 150W Max	EA	6
89			G: Custom Decorative LED Chandelier, Selected By Owner Watts: 18W Max	EA	6
90			H: Custom Decorative LED Pendant, Selected By Owner Watts: 18W Max	EA	2
91			I: 1'x4' Surface Mounted LED Troffer, Selected By Owner Watts: 30W Max	EA	4
92		Tag Not Given	LED Interior Wall Sconce	EA	6
			LIGHTING CONTROL		
93			3-Way Switch	EA	16
94			4-Way Switch	EA	1
95			Single Pole Switch	EA	75
			MISCELLANEOUS		
96			Junction Box	EA	9
97			Junction Box For EV Charger	EA	1
			SAW CUT		
98			Saw Cut & Repair Concrete Floor For Conduit Installation	EA	13
			TRENCHING & BACKFILLING		

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SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY W/ WASTAGE
99			Excavation & Backfilling (2' Deep x 1' Wide Trench) Including All Labor and Material/Equipment	CFT	100
			COMMUNICATION		
			TELECOMMUNICATION		
	E301 & E302		**CONDUIT (1 CUT = 10LF)**		
100			3/4" EMT Conduit Upto Ceiling	EA	16
101			3/4" PVC SCH 40 Conduit	EA	1
			CONDUCTOR (1 ROLL = 200LF)		
102			CAT6 Cable	ROLL	2
103			Coaxial Cable	ROLL	3
			DEVICES		
104			Tele/Data Outlet	EA	4
105			Backbox	EA	4
106			2 Port Faceplate	EA	4
107			RJ45 Connector	EA	8
108			TV Outlet	EA	8
109			Backbox	EA	8
110			Faceplate	EA	8
111			F-Connector	EA	8
			ELECTRONIC SAFETY AND SECURITY		
			FIRE ALARM		
	E201 & E202		**CONDUCTOR (1 ROLL = 200LF)**		
112			2#16 Plenum Rated Cable	ROLL	0.3
			DEVICES		
113			Combination Smoke / Carbon Monoxide Alarm	EA	3
114			Smoke Alarm	EA	7