

CONSTRUCTION ESTIMATE SUMMARY

PROJECT : PALM MIXED-USE, 236-238 PALM AVE.
LOCATION: IMPERIAL BEACH, CALIFORNIA
COVERED AREA: 63350
SCOPE: ELECTRICAL
FLOORS: 3
DATE: 25/10/2023



CSI CODE	DIVISION/ TRADE	TOTAL TRADE COST
DIVISION 1	GENERAL REQUIREMENTS	\$ -
DIVISION 2	SITE WORK/ EXISTING CONDITIONS	\$ -
DIVISION 3	CONCRETE	\$ -
DIVISION 4	MASONRY	\$ -
DIVISION 5	METALS	\$ -
DIVISION 6	WOOD, PLASTICS & COMPOSITES	\$ -
DIVISION 7	THERMAL & MOISTURE PROTECTION	\$ -
DIVISION 8	OPENINGS	\$ -
DIVISION 9	FINISHES	\$ -
DIVISION 10	SPECIALTIES	\$ -
DIVISION 11	EQUIPMENT	\$ -
DIVISION 12	FURNISHING	\$ -
DIVISION 13	SPECIAL CONSTRUCTION	\$ -
DIVISION 14	CONVEYING SYSTEM	\$ -
DIVISION 21	FIRE PROTECTION	\$ -
DIVISION 22	PLUMBING	\$ -
DIVISION 23	HVAC/ MECHANICAL	\$ -
DIVISION 26	ELECTRICAL	\$ -
DIVISION 28	ELECTRONIC SAFETY AND SECURITY	\$ -
DIVISION 31	EARTHWORK	\$ -
DIVISION 32	EXTERIOR IMPROVEMENT	\$ -
TOTAL TRADE COST		\$ -
OVERHEAD & PROFIT	20%	\$ -
INSURANCE	3%	\$ -
CONTINGENCY	7%	\$ -
TOTAL TRADE COST		\$ -

MATERIAL LIST & BILL OF QUANTITIES (BOQ)

PROJECT NAME	PALM MIXED-USE, 236-238 PALM AVE.
LOCATION	IMPERIAL BEACH, CALIFORNIA
SCOPE OF WORK	ELECTRICAL
GROSS AREA	63350
COVERED AREA	
PROJECT TYPE	
FLOORS	3
UNITS	

PALM MIXED-USE, 236-238 PALM AVE.

IMPERIAL BEACH, CALIFORNIA
ELECTRICAL
63350

3



	SUMMARY	COST
	SUBTOTAL	\$ -
PROFIT/OVERHEAD		\$ -
	TOTAL	\$ -

DATE: 25/10/2023

ITEM #	SHEET #	DETAIL #	CSI CODE	DESCRIPTION	UNITS	QUANTITY	WASTAGE (10%)	QTY W/ WASTAGE	MAT. COST	TOTAL MAT.	UNIT LAB. HOUR	TOTAL LAB. HOUR	LAB. RATE/ HR.	UNIT LABOR	TOTAL LABOR	UNIT COST	TOTAL COST	TRADE COST	
01 00 00 GENERAL REQUIREMENTS																			\$ -
1				SUPERVISION	LS	0.5	0%	0.5									\$ -		
2				PERMITS	LS	0.5	0%	0.5									\$ -		
3				FINAL CLEANUP	LS	0.5	0%	0.5									\$ -		
4				MOBILIZATION COSTS	LS	1.0	0%	1.0									\$ -		
5				PROJECT OVERHEADS	LS	1.0	0%	1.0									\$ -		
6				BOOKS	LS	1.0	0%	1.0									\$ -		
7				TEMPORARY CONTROL & FACILITIES	LS	0.5	0%	0.5									\$ -		
26 00 00 ELECTRICAL																			\$ -
SITE																			
LIGHTING FIXTURES																			
8				Z01: EXTERIOR BOLLARD LIGHTING FIXTURE (42"X18"WX9"D), (120/277V, 14W, 9581) -MANUFACTURE: FC OUTDOOR LIGHTING -MODEL: BFCB1690-LIN-V-42-3K-10L-FINISH-LD	EA	2	0%	2											
9				Z81: RECESSED LED DOWNLIGHT, 120/277V, 13.7W, 1500L -MANUFACTURE: GOTHAM -MODEL: BEVO4-30/15-AR-LD-WD-MVOLT-G210	EA	2	0%	2											
10				ZW1 : LED WALL SCIENCE. (11"X19"WX7"D), 120/277V, 11W, 1200L -MANUFACTURE: LITHONIA -MODEL: WY022-LED-P1-30K-80CR13M-MVOLT-SRM-FINISH	EA	6	0%	6											
11	E-102	E-102		ZW3: TRAPEZOIDAL WALL SCIENCE (12"LX12"WX8"D), 120/277V, 14W, 1500L -MANUFACTURE: FC OUTDOOR LIGHTING -MODEL: BFCW1010-LIN-V-3K-CR18S-15L-FINISH-LD	EA	6	0%	6											
12				ZW2E: TRAPEZOIDAL WALL SCIENCE W/ BATTERY BACKUP (12"LX12"WX8"D), 120/277V, 14W, 1500L -MANUFACTURE: FC OUTDOOR LIGHTING -MODEL: BFCW1010-LIN-V-3K-CR18S-15L-FINISH-LD	EA	2	0%	2											
13				ZW3: COMPACT ADJUSTABLE ANTI-GLARE FLOODLIGHT. (17"DIAx6"L), 120/277V, 13.7W, 300L -MANUFACTURE: TARGETTI -MODEL: BFLM-RP-FINISH-L1-MF-30-DIAIE601242UD-1E3791-1E3786	EA	4	0%	4											
14				R1E: 4"DIA. RECESSED LED DOWNLIGHT W/ BATTERY BACKUP, 120/277V, 13.7W, 1500L -MANUFACTURE: GOTHAM -MODEL: BEVO4-30/15-AR-LD-WD-MVOLT-G210	EA	3	0%	3											
BUILDING																			
LIGHTING FIXTURES																			
15				LEVEL 01 ZW2: TRAPEZOIDAL WALL SCIENCE (12"LX12"WX8"D), 120/277V, 14W, 1500L -MANUFACTURE: FC OUTDOOR LIGHTING -MODEL: BFCW1010-LIN-V-3K-CR18S-15L-FINISH-LD	EA	1	0%	1											
16				R1E: 4"DIA. RECESSED LED DOWNLIGHT W/ BATTERY BACKUP, 120/277V, 13.7W, 1500L -MANUFACTURE: GOTHAM -MODEL: BEVO4-30/15-AR-LD-WD-MVOLT-G210	EA	1	0%	1											
17				R1: 4"DIA. RECESSED LED DOWNLIGHT, 120/277V, 13.7W, 1500L -MANUFACTURE: GOTHAM -MODEL: BEVO4-30/15-AR-LD-WD-MVOLT-G210	EA	2	0%	2											
18				S1: 4'x18.8"W STRIP LIGHT, 120/277V, 31.8W, 4000L -MANUFACTURE: LITHONIA -MODEL: RCLX-L48-4000LM-SEF-FDL-WD-MVOLT-G210-30K-80CR1-NE57ADCK	EA	8	0%	8											
19				S1: 4'x18.8"W STRIP LIGHT W/ BATTERY BACKUP, 120/277V, 31.8W, 4000L -MANUFACTURE: LITHONIA -MODEL: RCLX-L48-4000LM-SEF-FDL-WD-MVOLT-G210-30K-80CR1-NE57ADCK	EA	7	0%	7											
20	E-201 & E-401	E-201 & E-401		S2: 4'x13"xWx2'D STRIP LIGHT, 120/277V, 31.8W, 4000L -MANUFACTURE: LITHONIA -MODEL: RCLX-L48-4000LM-SEF-FDL-MVOLT-G210-30K-80CR1	EA	3	0%	3											
21				S2E: 4'x13"xWx2'D STRIP LIGHT W/ BATTERY BACKUP, 120/277V, 31.8W, 4000L -MANUFACTURE: LITHONIA -MODEL: RCLX-L48-4000LM-SEF-FDL-MVOLT-G210-30K-80CR1	EA	2	0%	2											
22				U1: 4"DIA. SURFACE MOUNTED DOWNLIGHT, 120V, 12W, 1000L -MANUFACTURE: DMF -MODEL: #DRDH-N-JO (HOUSING), #DRD55-4.8-10-9-30-T (MODULE)	EA	5	0%	5											
23				U2: 4"DIAx8"H PENDANT MOUNTED CYLINDER, 120/277V, 10W, 750L -MANUFACTURE: DMF -MODEL: BDC4-C4-S-M-D-07-FL-O-00-00-30-FINISH-T-00-8	EA	2	0%	2											
24				U3: TAPE LIGHT IN FLEXIBLE EXTRUDED ALUMINUM CHANNEL WITH WHITE SQUARE DIFFUSED LENS (0.87X10.75"W), 24V, 1.3W/FT, 200L/FT -MANUFACTURE: KELVIX -MODEL: RUN-WL1-200-30K-24V-NA (TAPE), CH-011-2-FRS-SF-EC (CHANNEL)	EA	7	0%	7											
25				U4: WALL MOUNTED VANITY LIGHT(1)5'X4"WX2'D), 120V, 22W, 1041L -MANUFACTURE: BLACKJACK -MODEL: RNAN-25V-FINISH-121-30K-S4	EA	1	0%	1											
LEVEL 02																			
26				Z11E: EMERGENCY TAPE LIGHT IN FLEXIBLE EXTRUDED ALUMINUM CHANNEL WITH WHITE DIFFUSED LENS (0.25"X10.6"Wx), 24V, 1.3W/FT, 200L/FT -MANUFACTURE: KELVIX -MODEL: RUN-WL1-O-200-30K-24V-NA (TAPE), RCHM02-W-WH-CP-EC (CHANNEL)	EA	2	0%	2											
27				ZW2: TRAPEZOIDAL WALL SCIENCE (12"LX12"WX8"D), 120/277V, 14W, 1500L -MANUFACTURE: FC OUTDOOR LIGHTING -MODEL: BFCW1010-LIN-V-3K-CR18S-15L-FINISH-LD	EA	8	0%	8											
28				ZW2E: TRAPEZOIDAL WALL SCIENCE W/ BATTERY BACKUP (12"LX12"WX8"D), 120/277V, 14W, 1500L -MANUFACTURE: FC OUTDOOR LIGHTING -MODEL: BFCW1010-LIN-V-3K-CR18S-15L-FINISH-LD	EA	1	0%	1											
29				ZW4E: TRAPEZOIDAL WALL SCIENCE (18"X4"WX4"D), 120/277V, 12W, 700L -MANUFACTURE: FC OUTDOOR LIGHTING -MODEL: BFCW10B4-LIN-V-B30-7L-FINISH-SYM-TD	EA	4	0%	4											
30	E-203 & E-401 To E-404	E-203 & E-401 To E-404		R1E: 4"DIA. RECESSED LED DOWNLIGHT W/ BATTERY BACKUP, 120/277V, 13.7W, 1500L -MANUFACTURE: GOTHAM -MODEL: BEVO4-30/15-AR-LD-WD-MVOLT-G210	EA	9	0%	9											
31				R1: 4"DIA. RECESSED LED DOWNLIGHT, 120/277V, 13.7W, 1500L -MANUFACTURE: GOTHAM -MODEL: BEVO4-30/15-AR-LD-WD-MVOLT-G210	EA	5	0%	5											
32				U1: 4"DIA. SURFACE MOUNTED DOWNLIGHT, 120V, 12W, 1000L -MANUFACTURE: DMF -#DRDH-N-JO (HOUSING), #DRD55-4.8-10-9-30-T (MODULE)	EA	33	0%	33											
33				U2: 4"DIAx8"H PENDANT MOUNTED CYLINDER, 120/277V, 10W, 750L -MANUFACTURE: DMF -MODEL: BDC4-C4-S-M-D-07-FL-O-00-00-30-FINISH-T-00-8	EA	10	0%	10											
34				U3: TAPE LIGHT IN FLEXIBLE EXTRUDED ALUMINUM CHANNEL WITH WHITE SQUARE DIFFUSED LENS (0.87X10.75"W), 24V, 1.3W/FT, 200L/FT -MANUFACTURE: KELVIX -MODEL: RUN-WL1-200-30K-24V-NA (TAPE), CH-011-2-FRS-SF-EC (CHANNEL)	EA	28	0%	28											
35				U4: WALL MOUNTED VANITY LIGHT(1)5'X4"WX2'D), 120V, 22W, 1041L -MANUFACTURE: BLACKJACK -MODEL: RNAN-25V-FINISH-121-30K-S4	EA	7	0%	7											

36			ZW2: TRAPEZOIDAL WALL SCONCE (12X12"Wx8"D), 120/277V, 14W, 1500L -MANUFACTURE: FC OUTDOOR LIGHTING -MODEL: BFCW101D-UNV-3K-CRBS-1S-FINISH-LD	EA	8	0%	8		
37			ZW2S: TRAPEZOIDAL WALL SCONCE W/ BATTERY BACKUP (12X12"Wx8"D), 120/277V, 14W, 1500L -MANUFACTURE: FC OUTDOOR LIGHTING -MODEL: BFCW101D-UNV-3K-CRBS-1S-FINISH-LD	EA	3	0%	3		
38			ZW4: TRAPEZOIDAL WALL SCONCE (8FLX3"Wx4"D), 120/277V, 12W, 700L -MANUFACTURE: FC OUTDOOR LIGHTING -MODEL: BFCW10B4-UNV-830-7L-FINISH-SYM-TD	EA	8	0%	8		
39			R1E: 4"DIA. RECESSED LED DOWNLIGHT W/ BATTERY BACKUP, 120/277V, 13.7W, 1500L -MANUFACTURE: GOTHAM -MODEL: REV04-30/15-AR-LD-WD-MIVOLT-GZ10	EA	2	0%	2		
40	E-205 & E-401 To E-404	E-205 & E-401 To E-404	R1: 4"DIA. RECESSED LED DOWNLIGHT, 120/277V, 13.7W, 1500L -MANUFACTURE: GOTHAM -MODEL: REV04-30/15-AR-LD-WD-MIVOLT-GZ10	EA	4	0%	4		
41			U1: 4"DIA. SURFACE MOUNTED DOWNLIGHT, 120V, 12W, 1000L -MANUFACTURE: DMF -#RD0H-N-JO (HOUSING), #RD0SS-4-R-10-9-30-1 (MODULE)	EA	49	0%	49		
42			U2: 4"DIA.X8"H PENDANT MOUNTED CYTINDER, 120/277V, 10W, 750L -MANUFACTURE: DMF -MODEL: BDCA-C4-S-M-D-07-FL-Q-00-00-30-FINISH-T-00-R	EA	16	0%	16		
43			US: TAPE LIGHT IN FEEDABLE EXTENDED ALUMINUM CHANNEL WITH WHITE SQUARE DIFFUSED LENS (0.8"x0.75"W), 24V, 1.3W/FT, 200L/FT -MANUFACTURE: KELVIK -MODEL: RUN-L-WLI-200-30K-24V-NA (TAPE), CH-011-2-FRS-SF-EC (CHANNEL)	EA	37	0%	37		
44			U4: WALL MOUNTED VANITY LIGHT(15"Lx4"Wx2"D), 120V, 22W, 1041L -MANUFACTURE: BLACKJACK -MODEL: BRVAN-2SV-FINISH:121-30K-S4	EA	10	0%	10		
			POWER FIXTURES						
			LEVEL 01						
45			20A ARC FAULT DUPLEX RECEPTACLE	EA	11	0%	11		
46			20A DUPLEX RECEPTACLE	EA	4	0%	4		
47			20A GFCI DUPLEX RECEPTACLE	EA	2	0%	2		
48			20A GFCI FLUSH MOUNTED DUPLEX RECEPTACLE	EA	7	0%	7		
49			20A WEATHERPROOF GFCI DUPLEX RECEPTACLE	EA	2	0%	2		
50			QUADRUPLUX RECEPTACLE	EA	1	0%	1		
51			6-30R SPECIAL RECEPTACLE	EA	1	0%	1		
52			6-50R SPECIAL RECEPTACLE	EA	1	0%	1		
53	E-301 & E-401	E-301 & E-401	JUNCTION BOX	EA	1	0%	1		
54			WEATHERPROOF GFCI JUNCTION BOX	EA	2	0%	2		
55			DATA OUTLET	EA	2	0%	2		
56			TV OUTLET	EA	2	0%	2		
57			SMOKE DETECTOR	EA	1	0%	1		
58			SMOKE /CARBON MONOXIDE DETECTOR	EA	1	0%	1		
59			OCCUPANCY SENSOR	EA	3	0%	3		
60			MEDIA ENCLOSURE	EA	1	0%	1		
61			DOOR BELL W/ CHIME	EA	1	0%	1		
			LEVEL 02						
62			20A ARC FAULT DUPLEX RECEPTACLE	EA	83	0%	83		
63			20A DUPLEX RECEPTACLE	EA	12	0%	12		
64			20A GFCI DUPLEX RECEPTACLE	EA	10	0%	10		
65			20A GFCI FLUSH MOUNTED DUPLEX RECEPTACLE	EA	34	0%	34		
66			20A WEATHERPROOF GFCI DUPLEX RECEPTACLE	EA	5	0%	5		
67			6-30R SPECIAL RECEPTACLE	EA	5	0%	5		
68			6-50R SPECIAL RECEPTACLE	EA	5	0%	5		
69			JUNCTION BOX	EA	5	0%	5		
70	E-302 & E-401 & E-404	E-302 & E-401 & E-404	DATA OUTLET	EA	10	0%	10		
71			TV OUTLET	EA	11	0%	11		
72			SMOKE DETECTOR	EA	7	0%	7		
73			SMOKE /CARBON MONOXIDE DETECTOR	EA	5	0%	5		
74			OCCUPANCY SENSOR	EA	11	0%	11		
75			MEDIA ENCLOSURE	EA	5	0%	5		
76			DOOR BELL W/ CHIME	EA	5	0%	5		
			LEVEL 03						
77			20A ARC FAULT DUPLEX RECEPTACLE	EA	123	0%	123		
78			20A DUPLEX RECEPTACLE	EA	18	0%	18		
79			20A GFCI DUPLEX RECEPTACLE	EA	16	0%	16		
80			20A GFCI FLUSH MOUNTED DUPLEX RECEPTACLE	EA	50	0%	50		
81			20A WEATHERPROOF GFCI DUPLEX RECEPTACLE	EA	8	0%	8		
82			6-30R SPECIAL RECEPTACLE	EA	8	0%	8		
83			6-50R SPECIAL RECEPTACLE	EA	8	0%	8		
84	E-303 & E-401 & E-404	E-303 & E-401 & E-404	JUNCTION BOX	EA	8	0%	8		
85			DATA OUTLET	EA	16	0%	16		
86			TV OUTLET	EA	17	0%	17		
87			SMOKE DETECTOR	EA	11	0%	11		
88			SMOKE /CARBON MONOXIDE DETECTOR	EA	8	0%	8		
89			OCCUPANCY SENSOR	EA	18	0%	18		
90			MEDIA ENCLOSURE	EA	8	0%	8		
91			DOOR BELL W/ CHIME	EA	8	0%	8		
			ROOF LEVEL						
92	E-304	E-304	20A WEATHERPROOF GFCI DUPLEX RECEPTACLE	EA	5	0%	5		
			SWITCHES						
			LEVEL 01						
93			MOTOR RATED SWITCH	EA	2	0%	2		
94			OCCUPANCY SENSOR SWITCH	EA	1	0%	1		
95	E-301 & E-401	E-301 & E-401	SINGLE POLE DIMMER SWITCH	EA	5	0%	5		
96			SINGLE POLE SWITCH	EA	5	0%	5		
97			SINGLE POLE TIMER SWITCH	EA	1	0%	1		
98			VACANCY SENSOR SWITCH	EA	1	0%	1		
99			FUSED DISCONNECT SWITCH, NEMA 1, 30A/5/30A1, 2POLE	EA	1	0%	1		
			LEVEL 02						
100			MOTOR RATED SWITCH	EA	7	0%	7		
101	E-302 & E-401 To E-404	E-302 & E-401 To E-404	SINGLE POLE DIMMER SWITCH	EA	32	0%	32		
102			SINGLE POLE SWITCH	EA	16	0%	16		
103			3-WAY POLE DIMMER SWITCH	EA	4	0%	4		
104			SINGLE POLE TIMER SWITCH	EA	5	0%	5		
105			VACANCY SENSOR SWITCH	EA	7	0%	7		
106			FUSED DISCONNECT SWITCH, NEMA 1, 30A/5/30A1, 2POLE	EA	5	0%	5		
			LEVEL 03						
107			MOTOR RATED SWITCH	EA	10	0%	10		
108	E-303 & E-401 To E-404	E-303 & E-401 To E-404	SINGLE POLE DIMMER SWITCH	EA	49	0%	49		
109			SINGLE POLE SWITCH	EA	26	0%	26		
110			3-WAY POLE DIMMER SWITCH	EA	6	0%	6		
111			SINGLE POLE TIMER SWITCH	EA	8	0%	8		
112			VACANCY SENSOR SWITCH	EA	10	0%	10		
113			FUSED DISCONNECT SWITCH, NEMA 1, 30A/5/30A1, 2POLE	EA	8	0%	8		
			ROOF LEVEL						
114			DISCONNECT SWITCH, NEMA 3B, 60A/5/35A/5, 2POLE	EA	9	0%	9		
115	E-304	E-304	DISCONNECT SWITCH, NEMA 3B, 30A/5/20A/5, 2POLE	EA	5	0%	5		
116			DISCONNECT SWITCH, NEMA 3B, 30A/5/25A/5, 2POLE	EA	1	0%	1		
117			DISCONNECT SWITCH, 200A/5/150A/5, 3POLE	EA	1	0%	1		
			PANELBOARD						
118			A1: PANELBOARD -CAPACITY: 120/208V, 125A, 2 PHASE, 3 WIRE, 22,000 AIC RATING	EA	1	0%	1		
119			A2: PANELBOARD -CAPACITY: 120/208V, 125A, 2 PHASE, 3 WIRE, 22,000 AIC RATING	EA	2	0%	2		
120			A3: PANELBOARD -CAPACITY: 120/208V, 125A, 2 PHASE, 3 WIRE, 22,000 AIC RATING	EA	2	0%	2		
121			A4: PANELBOARD -CAPACITY: 120/208V, 125A, 2 PHASE, 3 WIRE, 22,000 AIC RATING	EA	2	0%	2		
122			A5: PANELBOARD -CAPACITY: 120/208V, 125A, 2 PHASE, 3 WIRE, 22,000 AIC RATING	EA	2	0%	2		
123	E-601	E-601	B1: PANELBOARD -CAPACITY: 120/208V, 125A, 2 PHASE, 3 WIRE, 22,000 AIC RATING	EA	2	0%	2		
124			B2: PANELBOARD -CAPACITY: 120/208V, 125A, 2 PHASE, 3 WIRE, 22,000 AIC RATING	EA	2	0%	2		
125			B3: PANELBOARD -CAPACITY: 120/208V, 125A, 2 PHASE, 3 WIRE, 22,000 AIC RATING	EA	1	0%	1		

[illegible]