





KEYNOTES
205 NEW PANELBOARD
201 PROVIDE 200V 4-4A DEDICATED CIRCUIT TO HEAT TRACE CONTROLLER FOR DRUGS WING. COORDINATE FINAL LOCATION AND FINAL POWER REQUIREMENTS WITH HEAT TRACE SYSTEM PROVIDER PRIOR TO ROUGH-IN.

REG
ARCHITECTS
since 1988



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CHENEY BROTHERS
NORTHPOINT
1101 NORTH POINT PKWY.
WEST PALM BEACH, FL 33407

NO. DATE DESCRIPTION

DATE 2/24/2014
MODELED JVS
CHECKED MR. SJH
PROJECT # 224037
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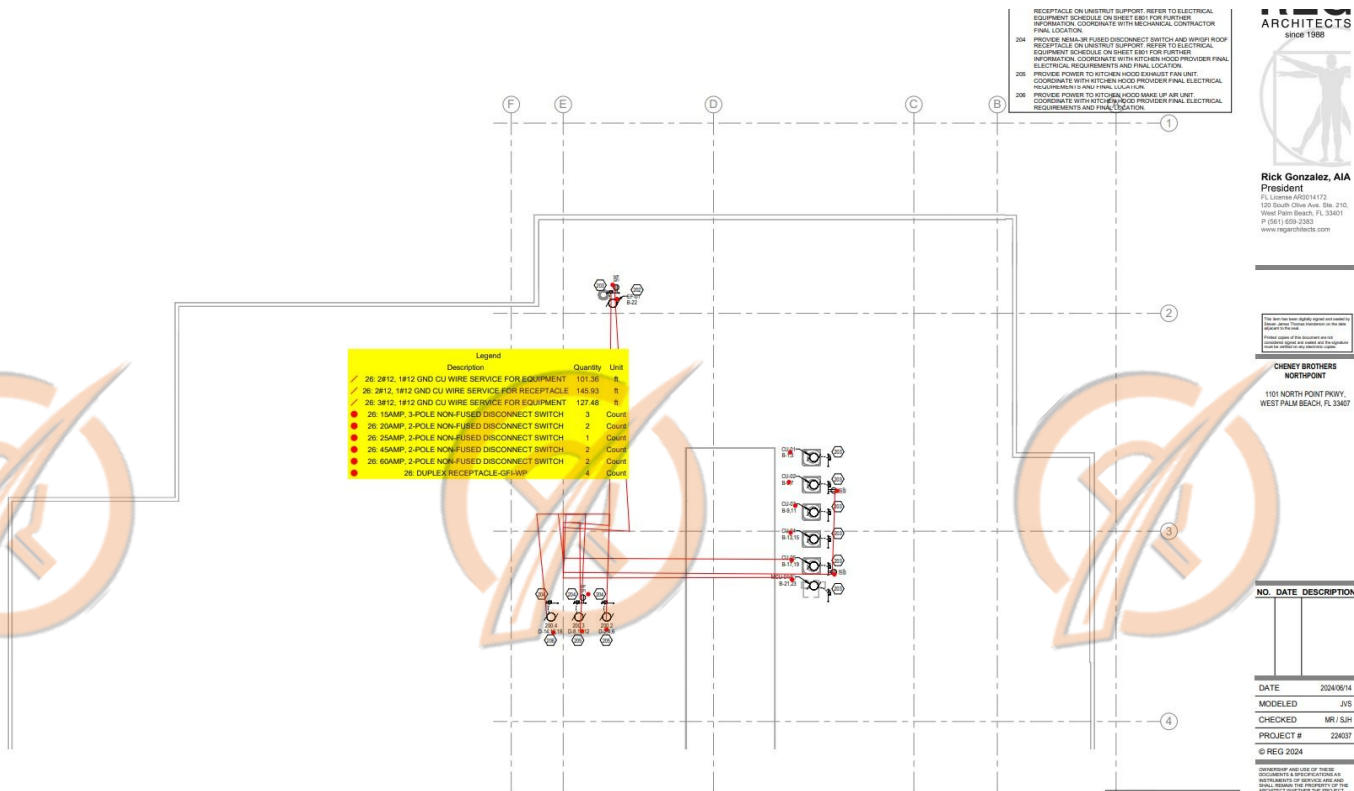
POWER LEVEL 1 FLOOR PLAN

Legend	
Description	Quantity
26. 2#12 18/12 GND CU WIRE SERVICE FOR RECEPTACLE	2,322.00 ft
26. 20AMP 3-POLE NON-FUSED DISCONNECT SWITCH	5 Count
26. 75AMP 3-POLE NON-FUSED DISCONNECT SWITCH	1 Count
26. CEILING MOUNTED DUPLEX RECEPTACLE	2 Count
26. COMBO DATA TELE OUTLET	40 Count
26. DUPLEX RECEPTACLE-GFI	38 Count
26. DUPLEX RECEPTACLE	133 Count
26. FLUSH MOUNTED DUPLEX RECEPTACLE	1 Count
26. FLUSH MOUNTED DUPLEX RECEPTACLE WITH DATA OUTLET	4 Count
26. JUNCTION BOX	2 Count
26. QUAD RECEPTACLE	2 Count
26. SPECIAL PURPOSE RECEPTACLE	5 Count
26. TV OUTLET	2 Count

1 POWER LEVEL 1 FLOOR PLAN
REV 1.0

FORMICA & ASSOCIATES
Consulting Engineers
Celebrating 40 years!
883 N. Federal Highway
West Palm Beach, FL 33411

STATUS - 100% CD



Legend			
Description	Quantity	Unit	
✓ 26 2812 1812 GND CU WIRE SERVICE FOR EQUIPMENT	101.36	ft.	
✓ 26 2812 1812 GND CU WIRE SERVICE FOR RECEPTACLE	145.03	ft.	
✓ 26 3412 1812 GND CU WIRE SERVICE FOR EQUIPMENT	127.48	ft.	
● 26 15AMP 1-POLE NON-FUSED DISCONNECT SWITCH	1	Count	
● 26 25AMP 2-POLE NON-FUSED DISCONNECT SWITCH	2	Count	
● 26 45AMP 2-POLE NON-FUSED DISCONNECT SWITCH	2	Count	
● 26 60AMP 2-POLE NON-FUSED DISCONNECT SWITCH	2	Count	
● 26 DUPLEX RECEPTACLE-GFI-WP	4	Count	

RECEPTACLE ON UNSTRUCTURED SUPPORT REFER TO ELECTRICAL EQUIPMENT SCHEDULE ON SHEET E301 FOR FURTHER INFORMATION. COORDINATE WITH MECHANICAL CONTRACTOR FINAL LOCATION.

204 PROVIDE NEURAL FUSED DISCONNECT SWITCH AND WHIRL ROOF RECEPTACLE ON UNSTRUCTURED SUPPORT REFER TO ELECTRICAL EQUIPMENT SCHEDULE ON SHEET E301 FOR FURTHER INFORMATION. COORDINATE WITH MECHANICAL CONTRACTOR FINAL ELECTRICAL REQUIREMENTS AND FINAL LOCATION.

205 PROVIDE POWER TO SWITCHES AND RECEPTACLE FINAL UNIT. COORDINATE WITH MECHANICAL CONTRACTOR FINAL ELECTRICAL REQUIREMENTS AND FINAL LOCATION.

206 PROVIDE POWER TO SWITCHES AND RECEPTACLE FINAL UNIT. COORDINATE WITH MECHANICAL CONTRACTOR FINAL ELECTRICAL REQUIREMENTS AND FINAL LOCATION.

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SINCE 1988

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NO.	DATE	DESCRIPTION
DATE	2024/01/14	
MODELED	JHS	
CHECKED	MRJ/SH	
PROJECT #	224037	
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NOTES:
1. ALL CONDUIT SHALL BE 1/2" EMT-RUN IN 1/2" RACEWAY.
2. ALL CONDUIT SHALL BE 1/2" EMT-RUN IN 1/2" RACEWAY.
3. ALL CONDUIT SHALL BE 1/2" EMT-RUN IN 1/2" RACEWAY.
4. ALL CONDUIT SHALL BE 1/2" EMT-RUN IN 1/2" RACEWAY.

1 POWER ROOF PLAN
10' = 1"

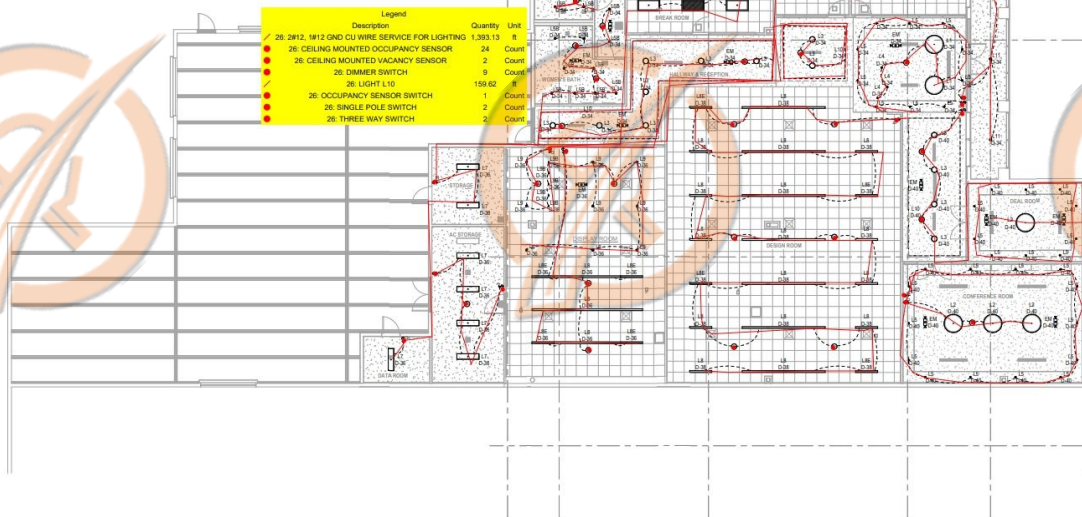
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POWER ROOF PLAN
E302





1 LIGHTING LEVEL 1 RCP
1.5" = 1'-0"



GENERAL DISCLAIMER:

ANY CHANGES TO THE SYSTEM COMING FROM THESE PLANS WITHOUT FIELD APPROVAL OF THE DESIGNER WHO PREPARED THESE PLANS, WILL NULL AND VOID THESE PLANS AND THE INSURANT WILL BE RESPONSIBLE. IN ADDITION, ALL EMPLOYEES ASSOCIATED WITH IMPLEMENTING THESE PLANS ARE SOLELY EMPLOYED BY THE INSURANT AND THE INSURANT WILL BE THE RESPONSIBILITY OF THE COMPANY. ANYCHANGES TO THESE CHANGES FROM FID TO INCLUDE MARKET COMMUNITIES.

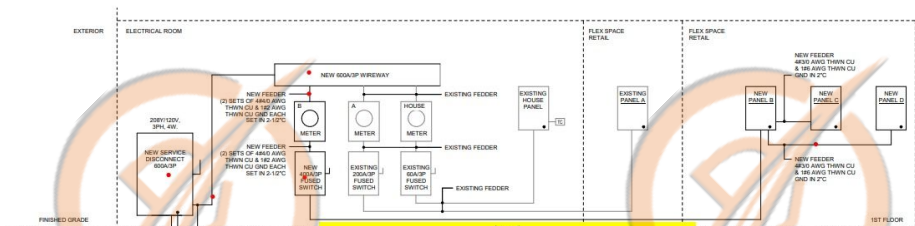
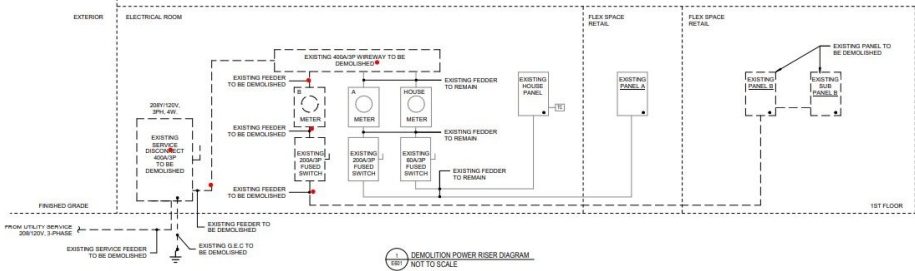
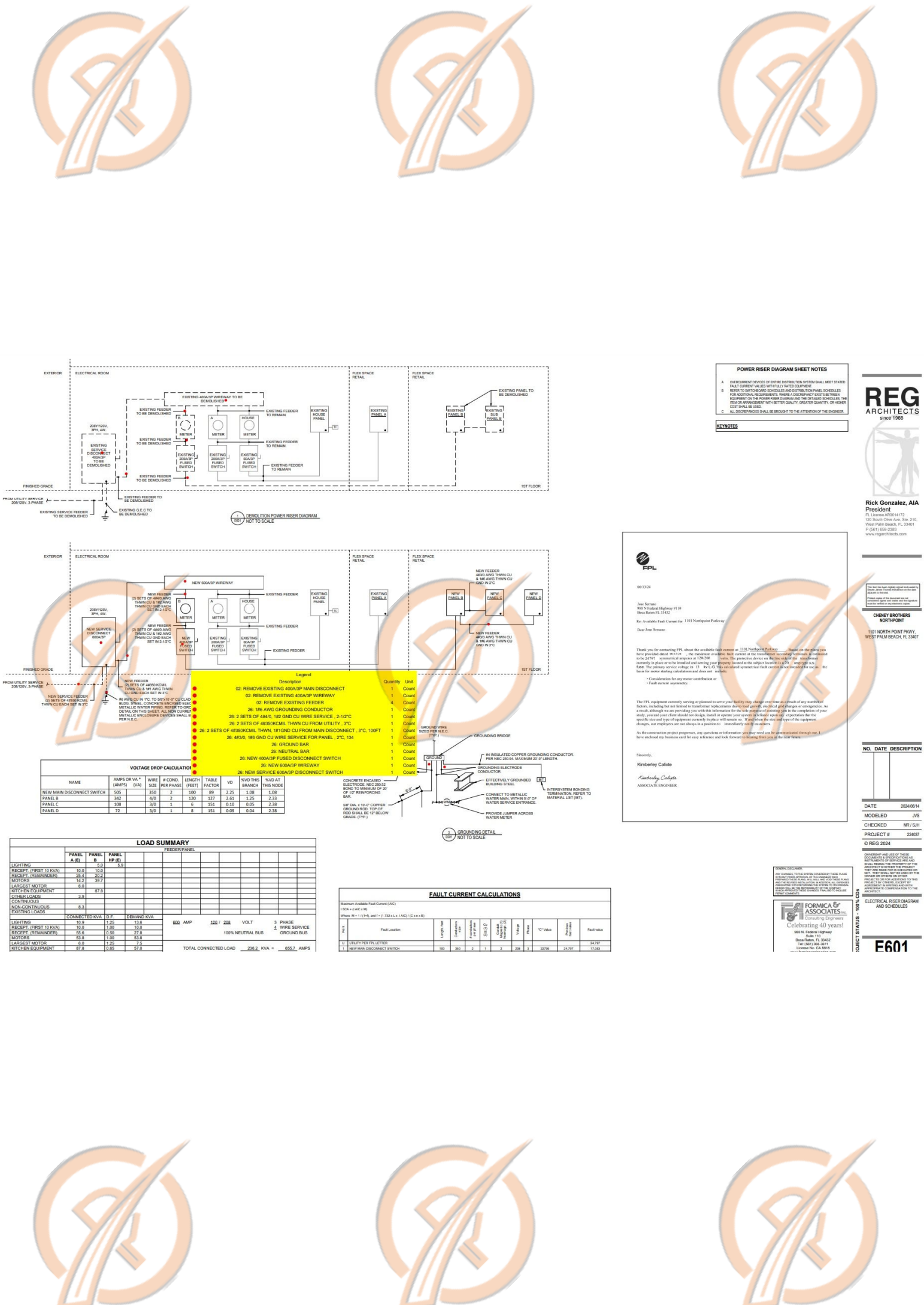


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VOLTAGE DROP CALCULATION									
NAME	AMPS OR VA (AMPS)	WIRE SIZE (AWG)	# COND.	LENGTH (FEET)	TABLE FACTOR	VD (VOLTS)	NVD AT BRANCH (VOLTS)	NVD AT THIS NODE (VOLTS)	
NEW MAIN DISCONNECT SWITCH	500	350	2	100	89	2.25	1.08	1.08	
PANEL B	343	410	2	120	127	2.63	1.25	2.33	
PANEL C	158	310	1	6	151	0.09	0.05	2.38	
PANEL D	72	310	1	8	151	0.09	0.04	2.38	

LOAD SUMMARY									
FEEDER/PANEL									
	PANEL A (E)	PANEL B	PANEL HP (E)	S					
LIGHTING									
RECEPT (FIRST 10 KVA)	10.0	10.0							
RECEPT (REMAINDERS)	25.4	25.4							
MOTORS	15.2	29.7							
LARGEST MOTOR	3.9								
KITCHEN EQUIPMENT	8.0	8.8							
OTHER LOADS	3.8								
CONTINUOUS	8.0								
NON-CONTINUOUS	8.0								
EXISTING LOADS									
CONNECTED KVA	100	125							
DEMAND KVA	100	125							
LIGHTING	10.0	10.0			500	AMP	120	0	3 PHASE
RECEPT (FIRST 10 KVA)	10.0	10.0	10.0						
RECEPT (REMAINDERS)	15.2	29.7	27.8						
MOTORS	15.2	29.7	27.8						
LARGEST MOTOR	3.9	1.25	53.8						
KITCHEN EQUIPMENT	8.0	1.25	7.5						
MOTORS	8.8	0.85	57.8						
					TOTAL CONNECTED LOAD 238.2 KVA = 655.7 AMP				

FAULT CURRENT CALCULATIONS									
Maximum Available Fault Current (MFC)									
Where M = 1 (174), MFC = 17,400 kA (17,400 kA x 1000)									
Item	Field Location	Length (ft)	Conductor	Resistance per foot	Impedance (Z)	Source (V)	Phase	"C" Value	Fault Value
1	UTILITY BUS LEFT	100	350	2	1	208	3	2070	24,700
2	NEW MAIN DISCONNECT SWITCH	100	350	2	1	208	3	2070	24,700

POWER RISER DIAGRAM SHEET NOTES

A. OVERCURRENT DEVICES OF ENTIRE DISTRIBUTION SYSTEM SHALL MEET STATED FAULT CURRENT VALUES WITH FULLY RATED EQUIPMENT.

B. REFER TO SUPPLEMENTAL SCHEDULES AND DISTRIBUTION PANEL SCHEDULES FOR ADDITIONAL REQUIREMENTS. THESE REQUIREMENTS SHALL BE SHOWN ON THE POWER RISER DIAGRAM AND THE DETAILS THEREON. THE TOTAL IS RESPONSIBILITY OF THE DESIGNER. CONSULT THE DESIGNER FOR COSTS THAT SHALL BE SHOWN.

C. ALL DISCONNECTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

KEYNOTES

10/13/24

Joe Serrano
180 N Federal Highway #110
Boca Raton, FL 33433

Re: Available Fault Current for 1181 Northpoint Parkway

Dear Joe Serrano:

Thank you for contacting FPL about the available fault current at 1181 Northpoint Parkway. Based on the plans you have provided dated 08/11/24, the maximum available fault current at the main service entrance is 24,700 amperes at 120/208 volts. The protective device on the line side of the transformer is 2000 amperes at 120/208 volts. The primary service voltage is 13.8 kV. The calculated symmetrical fault current is not included for use as the basis for determining calculations and does not include:

- Consideration for any remote contribution or
- Fault current asymmetry.

The FPL equipment currently serving or planned to serve your facility may change over time as a result of an unrelated factor, including but not limited to transformer replacement due to load, general electrical changes or emergencies. As a result, although we are providing you with this information for the sole purpose of providing you with the completion of your study, you and your client should not design, install or operate your system in reliance upon any information that is specific to a place or to be installed and having your property located at the subject location. It is the responsibility of the engineer to ensure that the equipment is properly sized and that the system is properly designed and installed.

As the construction project progresses, any questions or information you may need can be communicated through me. I have included my business card for any reference and look forward to hearing from you as you move forward.

Sincerely,
Kimberly Calisto
Associate Engineer

NO. DATE DESCRIPTION

DATE 2024/09/14

MODELED JRS

CHECKED MR / SH

PROJECT # 224037

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REVISIONS

1. 08/11/24: Initial design and calculation of fault current. The maximum available fault current is 24,700 amperes at 120/208 volts. The protective device on the line side of the transformer is 2000 amperes at 120/208 volts. The primary service voltage is 13.8 kV. The calculated symmetrical fault current is not included for use as the basis for determining calculations and does not include:

- Consideration for any remote contribution or
- Fault current asymmetry.

2. 10/13/24: Updated design and calculation of fault current. The maximum available fault current is 24,700 amperes at 120/208 volts. The protective device on the line side of the transformer is 2000 amperes at 120/208 volts. The primary service voltage is 13.8 kV. The calculated symmetrical fault current is not included for use as the basis for determining calculations and does not include:

- Consideration for any remote contribution or
- Fault current asymmetry.

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ELECTRICAL RISER DIAGRAM AND SCHEDULES

PROJECT STATUS - 100% CLOSING

E601



ANY CHANGES TO THE SYSTEM COORDINATED BY THESE PLANS WITHOUT THESE APPROVALS OF THE ENGINEER WOULD PROBABLY DESTROY THEIR PLANS. WE WILL READ AND VOICE THESE PLANS AND THE REVEALING VULNERABILITY. IN ADDITION, ALL EXPENSES ASSOCIATED WITH THE APPROVALS OF THE ENGINEER FOR OUR COMPANY DESIGN WILL BE THE RESPONSIBILITY OF THE COMPANY WHICH APPROVED THESE CHANGES. PLEASE TO INCLUDE PRESENT COMMENTS.

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Branch Panel: C

Location: HALLWAY & RECEPTION 2

Supply from: B

Mounting: RECESSED

Enclosure: NEMA1

Volts: 208/120V

Phase: 1

Wire: 4

Ground Bus: Yes

A.L.C. Rating: 22,000 AMPS SYMMETRICAL

Main Type: MLO

Bus Rating: 200 AMPS

GFP: No

Notes:

Circuit Count	Circuit Description	Load Type	Rating	Poles	A				B				Poles	Rating	Load Type	Circuit Description	Count
					P	N	U	G	P	N	U	G					
1	101-RECEPTION CORRIDOR	KT	20 A	3	1000 VA	720 VA	NA	NA	1000 VA	720 VA	NA	NA	1000 VA	720 VA	NA	NA	1
2	201-RECEPTION RECEPTION	KT	20 A	3	1000 VA	720 VA	NA	NA	1000 VA	720 VA	NA	NA	1000 VA	720 VA	NA	NA	1
3	111-11 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
4	112-12 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
5	113-13 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
6	114-14 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
7	115-15 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
8	116-16 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
9	117-17 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
10	118-18 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
11	119-19 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
12	120-20 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
13	121-21 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
14	122-22 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
15	123-23 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
16	124-24 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
17	125-25 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
18	126-26 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
19	127-27 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
20	128-28 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
21	129-29 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
22	130-30 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
23	131-31 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
24	132-32 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
25	133-33 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
26	134-34 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
27	135-35 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
28	136-36 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
29	137-37 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
30	138-38 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
31	139-39 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
32	140-40 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
33	141-41 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
34	142-42 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
35	143-43 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
36	144-44 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
37	145-45 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
38	146-46 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
39	147-47 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
40	148-48 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
41	149-49 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
42	150-50 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
43	151-51 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
44	152-52 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
45	153-53 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
46	154-54 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
47	155-55 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
48	156-56 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
49	157-57 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
50	158-58 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
51	159-59 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
52	160-60 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
53	161-61 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
54	162-62 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
55	163-63 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
56	164-64 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
57	165-65 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
58	166-66 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
59	167-67 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
60	168-68 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
61	169-69 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
62	170-70 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
63	171-71 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
64	172-72 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
65	173-73 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
66	174-74 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
67	175-75 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
68	176-76 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
69	177-77 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
70	178-78 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1
71	179-79 HEAT TRAC	KT	40 A	3	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1000 VA	1000 VA	NA	NA	1

This form has been digitally signed and sealed by
Graham James Thomas Henderson on the date
indicated in the seal.

Printed copies of the document are not
considered signed and sealed and the signature
cannot be verified on any electronic copies.

**CHENEY BROTHERS
NORTHPOINT**

1101 NORTH POINT PKWY,
WEST PALM BEACH, FL 33407

[illegible]

DETAILED TAKEOFF & PRICING

DETAILED BREAKDOWN OF ITEMS

PrepareD for: CHENEY BROTHERS NORTHPOINT

Project ID: 1101 NORTH POINT PKWY, WEST PALM BEACH, FL, 33407

Scope: ELECTRICAL

Date: 7/14/2024

TOTAL LABOR H Hourly rate

1333.69 50.00

TOTAL
MATERIAL
COST

\$ 37,014.77



SR #	DESCRIPTION	QUANTITY	UNIT	VASTAGE	QUANTITY V/ VASTAGE	UNIT MANHOUR	LABOR HOUR	HOURLY WAGE	LABOR COST	UNIT MAT. COST	MATERIAL COST	SUB COST
DIV-1		GENERAL REQUIREMENTS										
1	Permits	1	LS	0%	1	0.000	0.00	\$ 50.00	\$ -	\$ -	\$ -	\$ -
2	Supervision and Coordination	1	LS	0%	1	0.000	0.00	\$ 50.00	\$ -	\$ -	\$ -	\$ -
3	Submittals and Shop Drawings	1	LS	0%	1	0.000	0.00	\$ 50.00	\$ -	\$ -	\$ -	\$ -
4	Final Cleaning	1	LS	0%	1	0.000	0.00	\$ 50.00	\$ -	\$ -	\$ -	\$ -
5	Mobilization Costs	1	LS	0%	1	0.000	0.00	\$ 50.00	\$ -	\$ -	\$ -	\$ -
6	Temporary Control & Facilities	1	LS	0%	1	0.000	0.00	\$ 50.00	\$ -	\$ -	\$ -	\$ -
7	Scaffold/Ding	1	LS	0%	1	0.000	0.00	\$ 50.00	\$ -	\$ -	\$ -	\$ -
DIV-02		EXISTING CONDITION										
DEMOLISH												
8	Remove Existing 400A/3P Main Disconnect	1	EA	10%	1	2.500	2.75	\$ 50.00	\$ 137.50	\$ -	\$ -	\$ 137.50
9	Remove Existing 400A/3P Wireway	1	EA	10%	1	2.500	2.75	\$ 50.00	\$ 137.50	\$ -	\$ -	\$ 137.50
10	Remove Existing Feeder	55	LF	10%	61	0.075	4.54	\$ 50.00	\$ 226.88	\$ -	\$ -	\$ 226.88
DIV-26		ELECTRICAL										
CONDUIT												
11	3/4" Emt Conduit	5120	LF	10%	5632	0.062	349.18	\$ 50.00	\$ 17,459.20	\$ 1.12	\$ 6,307.84	\$ 23,767.04
12	1" Emt Conduit	245	LF	10%	270	0.070	18.87	\$ 50.00	\$ 943.25	\$ 1.46	\$ 393.47	\$ 1,336.72
13	2" Emt Conduit	15	LF	10%	17	0.080	1.32	\$ 50.00	\$ 66.00	\$ 2.10	\$ 34.65	\$ 100.65
14	2-1/2" Emt Conduit	120	LF	10%	132	0.100	13.20	\$ 50.00	\$ 660.00	\$ 2.96	\$ 390.72	\$ 1,050.72
15	3" Emt Conduit	100	LF	10%	110	0.150	16.50	\$ 50.00	\$ 825.00	\$ 3.45	\$ 379.50	\$ 1,204.50
CONDUCTOR												
16	2#12, 1#12 Gnd Cu Wire Service For Lighting	2120	LF	10%	2332	0.040	93.28	\$ 50.00	\$ 4,664.00	\$ 0.48	\$ 1,119.36	\$ 5,783.36
17	2#12, 1#12 Gnd Cu Wire Service For Receptacle	2670	LF	10%	2937	0.040	117.48	\$ 50.00	\$ 5,874.00	\$ 0.48	\$ 1,403.76	\$ 7,277.76
18	2#12, 1#12 Gnd Cu Wire Service For Equipment	165	LF	10%	182	0.040	7.26	\$ 50.00	\$ 363.00	\$ 0.48	\$ 87.12	\$ 450.12
19	3#12, 1#12 Gnd Cu Wire Service For Equipment	145	LF	10%	160	0.040	6.38	\$ 50.00	\$ 319.00	\$ 0.48	\$ 76.56	\$ 395.56
20	2#6, 1#10 Gnd Cu Wire Service For Equipment	105	LF	10%	116	0.062	7.16	\$ 50.00	\$ 358.05	\$ 0.91	\$ 105.11	\$ 463.16
21	2#6, 1#10 Gnd Cu Wire Service For Equipment	135	LF	10%	149	0.065	9.65	\$ 50.00	\$ 482.63	\$ 0.98	\$ 145.53	\$ 628.16
22	2 Sets Of 4#350Kcmil Thwn Cu From Utility	25	LF	10%	28	0.100	2.75	\$ 50.00	\$ 137.50	\$ 34.50	\$ 948.75	\$ 1,086.25
23	2 Sets Of 4#350Kcmil Thwn, 1#10Gnd Cu From Main Disconnect	100	LF	10%	110	0.100	11.00	\$ 50.00	\$ 550.00	\$ 34.50	\$ 3,795.00	\$ 4,345.00
24	2 Sets Of 4#440, 1#2 Gnd Cu Wire Service	120	LF	10%	132	0.072	9.50	\$ 50.00	\$ 475.20	\$ 1.54	\$ 203.28	\$ 678.48
25	4#3/0, 1#6 Gnd Cu Wire Service For Panel	12	LF	10%	13	0.075	0.99	\$ 50.00	\$ 49.50	\$ 1.12	\$ 14.78	\$ 64.28
26	Cat5e/Cat6 Cable For Data/tele Outlet	660	LF	10%	726	0.045	32.67	\$ 50.00	\$ 1,633.50	\$ 0.55	\$ 399.30	\$ 2,032.80
27	Rj6 Coaxial Cable For Tv Outlet	65	LF	10%	72	0.056	4.00	\$ 50.00	\$ 200.20	\$ 0.65	\$ 46.48	\$ 246.68
GROUND												
28	Ground Bar	1	EA	0%	1	1.000	1.00	\$ 50.00	\$ 50.00	\$ 88.00	\$ 88.00	\$ 138.00
29	Neutral Bar	1	EA	0%	1	1.000	1.00	\$ 50.00	\$ 50.00	\$ 88.00	\$ 88.00	\$ 138.00
30	1#6 Awg Grounding Conductor	10	LF	10%	11	0.062	0.68	\$ 50.00	\$ 34.10	\$ 0.96	\$ 10.56	\$ 44.66
LIGHTING FIXTURE												
31	Light L1, Pendant Ring, Mfg. Alu, 108Watt Led	2	EA	0%	2	2.000	4.00	\$ 50.00	\$ 200.00	\$ -	\$ -	\$ 200.00
32	Light L2, Pendant Ring, Mfg. Alu, 45.5Watt Led	4	EA	0%	4	1.600	6.40	\$ 50.00	\$ 320.00	\$ -	\$ -	\$ 320.00
33	Light L3, 12" Round Fixture, G Lighting, GI-3339-C-Finish, 13Watt Led	13	EA	0%	13	1.000	13.00	\$ 50.00	\$ 650.00	\$ -	\$ -	\$ 650.00
34	Light L4, 22" Pendant Tube Alu T2Lp-R-V-D-10-98-40-22-Finish-Cord Finish, 9.3 Watt	3	EA	0%	3	1.200	3.60	\$ 50.00	\$ 180.00	\$ -	\$ -	\$ 180.00
35	Light L5, 3" Round Downlight Halo H136A20940Ed010locat T13Pin2Gmwrb, 19.5Watt	34	EA	0%	34	1.300	44.20	\$ 50.00	\$ 2,210.00	\$ -	\$ -	\$ 2,210.00
36	Light L5B, 4" Round Downlight Halo M140m10Lsf19Fse010-T143R2Gmwrb / H14Rsmf, 12Watt Led	16	EA	0%	16	0.950	15.20	\$ 50.00	\$ 760.00	\$ -	\$ -	\$ 760.00
37	Light L6, 2X4 Panel Corelite 24ld-40-Chr2-L840-U, 35.2 Watt	5	EA	0%	5	1.450	7.25	\$ 50.00	\$ 362.50	\$ -	\$ -	\$ 362.50
38	Light L6E, 2X4 Panel Corelite With Battery 24ld-40-Chr2-L840-U, 35.2 Watt	1	EA	0%	1	1.500	1.50	\$ 50.00	\$ 75.00	\$ -	\$ -	\$ 75.00
39	Light L7, 1X4 Flat Panel Metalux 14Fp4240C / DI-14W-U, 39.2 Watt	7	EA	0%	7	1.650	11.55	\$ 50.00	\$ 577.50	\$ -	\$ -	\$ 577.50
40	Light L8, Linear Led Alu, 6.3 Watt	6	EA	0%	6	0.940	5.64	\$ 50.00	\$ 282.00	\$ -	\$ -	\$ 282.00
41	Light L8E, Linear Led With Battery Backup, Alu, 6.3 Watt	18	EA	0%	18	0.960	17.28	\$ 50.00	\$ 864.00	\$ -	\$ -	\$ 864.00
42	Light L9, 4" Led Downlight Csl, 25 Watt Led	3	EA	0%	3	1.550	13.95	\$ 50.00	\$ 697.50	\$ -	\$ -	\$ 697.50
43	Light L9B, 2" Led Downlight Csl, 10.9 Watt	5	EA	0%	5	1.330	6.65	\$ 50.00	\$ 332.50	\$ -	\$ -	\$ 332.50
44	Light L10, Led Strips Acclaim Flexosid / Flx Msp 2 / Flx Min Fl2, 2.433Ft	166	LF	10%	172	0.340	58.34	\$ 50.00	\$ 2,917.20	\$ -	\$ -	\$ 2,917.20
45	Light L11, 5" Led Downlight Csl Ed55-Nic-40-90-50-25S / Ed5-R-F-St-Wr, 24Watt	3	EA	0%	3	1.400	4.20	\$ 50.00	\$ 210.00	\$ -	\$ -	\$ 210.00
46	Light Em, Emergency Light Isolite Mign2-Cu-wh-Mr-L, 4.5Watt	24	EA	0%	24	1.000	24.00	\$ 50.00	\$ 1,200.00	\$ -	\$ -	\$ 1,200.00
LIGHTING CONTROL												
47	Single Pole Switch	2	EA	0%	2	0.550	1.10	\$ 50.00	\$ 55.00	\$ 14.00	\$ 28.00	\$ 83.00
48	Three Way Switch	2	EA	0%	2	0.850	1.70	\$ 50.00	\$ 85.00	\$ 18.00	\$ 36.00	\$ 121.00
49	Dimmer Switch	9	EA	0%	9	0.800	7.20	\$ 50.00	\$ 360.00	\$ 16.00	\$ 144.00	\$ 504.00
50	Occupancy Sensor Switch	1	EA	0%	1	1.000	1.00	\$ 50.00	\$ 50.00	\$ 40.00	\$ 40.00	\$ 90.00
51	Ceiling Mounted Occupancy Sensor	24	EA	0%	24	1.500	36.00	\$ 50.00	\$ 1,800.00	\$ 154.00	\$ 3,696.00	\$ 5,496.00
52	Ceiling Mounted Vacancy Sensor	2	EA	0%	2	1.500	3.00	\$ 50.00	\$ 150.00	\$ 145.00	\$ 290.00	\$ 440.00

\$ 103,197

POWER RECEPTACLE												
53	Duplex Receptacle	133	EA	0%	133	0.550	73.15	\$ 50.00	\$ 3,657.50	\$ 12.00	\$ 1,596.00	\$ 5,253.50
54	Duplex Receptacle-Gfi	38	EA	0%	38	0.290	11.02	\$ 50.00	\$ 551.00	\$ 65.00	\$ 2,470.00	\$ 3,021.00
55	Duplex Receptacle-Gfi-w/p	4	EA	0%	4	0.750	3.00	\$ 50.00	\$ 150.00	\$ 73.00	\$ 292.00	\$ 442.00
56	Flush Mounted Duplex Receptacle	1	EA	0%	1	0.800	0.80	\$ 50.00	\$ 40.00	\$ 22.00	\$ 22.00	\$ 62.00
57	Flush Mounted Duplex Receptacle With Data Outlet	4	EA	0%	4	1.000	4.00	\$ 50.00	\$ 200.00	\$ 48.00	\$ 192.00	\$ 392.00
58	Ceiling Mounted Duplex Receptacle	2	EA	0%	2	0.950	1.90	\$ 50.00	\$ 95.00	\$ 24.00	\$ 48.00	\$ 143.00
59	Quad Receptacle	2	EA	0%	2	0.900	1.80	\$ 50.00	\$ 90.00	\$ 34.00	\$ 68.00	\$ 158.00
60	Special Purpose Receptacle	5	EA	0%	5	1.200	6.00	\$ 50.00	\$ 300.00	\$ 46.00	\$ 230.00	\$ 530.00
DISCONNECT SWITCH												
61	15Amp, 3-Pole Non-Fused Disconnect Switch	3	EA	0%	3	0.750	2.25	\$ 50.00	\$ 112.50	\$ 22.00	\$ 66.00	\$ 178.50
62	20Amp, 2-Pole Non-Fused Disconnect Switch	7	EA	0%	7	0.800	5.60	\$ 50.00	\$ 280.00	\$ 30.00	\$ 210.00	\$ 490.00
63	25Amp, 2-Pole Non-Fused Disconnect Switch	1	EA	0%	1	0.850	0.85	\$ 50.00	\$ 42.50	\$ 36.00	\$ 36.00	\$ 78.50
64	45Amp, 2-Pole Non-Fused Disconnect Switch	2	EA	0%	2	1.200	2.40	\$ 50.00	\$ 120.00	\$ 48.00	\$ 96.00	\$ 216.00
65	60Amp, 2-Pole Non-Fused Disconnect Switch	2	EA	0%	2	1.450	2.90	\$ 50.00	\$ 145.00	\$ 57.00	\$ 114.00	\$ 259.00
66	70Amp, 3-Pole Non-Fused Disconnect Switch	1	EA	0%	1	1.500	1.50	\$ 50.00	\$ 75.00	\$ 76.00	\$ 76.00	\$ 151.00
67	New 400A/3P Fused Disconnect Switch	1	EA	0%	1	2.500	2.50	\$ 50.00	\$ 125.00	\$ 276.00	\$ 276.00	\$ 401.00
68	New Service 600A/3P Disconnect Switch	1	EA	0%	1	3.500	3.50	\$ 50.00	\$ 175.00	\$ 346.00	\$ 346.00	\$ 521.00
TRENCHING, Excavation & Backfilling												
69	6" Trenching For 3"Pvc Underground Cbale	98.8	LF	10%	109	0.019	2.06	\$ 50.00	\$ 103.25	\$ -	\$ -	\$ 103.25
70	Excavation For Underground Cable	4.7	CY	10%	5	0.320	1.65	\$ 50.00	\$ 82.37	\$ -	\$ -	\$ 82.37
71	Backfilling For Underground Cable	3.5	CY	10%	4	0.022	0.08	\$ 50.00	\$ 4.24	\$ 2.60	\$ 10.01	\$ 14.25
Legend: LF=Linear Feet, EA=Each, CY=Cubic Yard												
METER												
72	Ct Cabinet & Meter	1	EA	0%	1	3.000	3.00	\$ 50.00	\$ 150.00	\$ 455.00	\$ 455.00	\$ 605.00
73	Kwh/Phase Loss Meter/Ct	1	EA	0%	1	3.500	3.50	\$ 50.00	\$ 175.00	\$ 788.00	\$ 788.00	\$ 963.00
TRANSFORMER												
74	Txfmr T1, 75Kva	1	EA	0%	1	20.000	20.00	\$ 50.00	\$ 1,000.00	\$ 7,320.00	\$ 7,320.00	\$ 8,320.00
PANEL & CIRCUIT BREAKER												
75	Panel-B, 400Amp, 208Y/120V, 3-Ph, 4W	1	EA	0%	1	30.000	30.00	\$ 50.00	\$ 1,500.00	\$ -	\$ -	\$ 1,500.00
76	15Amp, 1-Pole Circuit Breaker	8	EA	0%	8	0.550	4.40	\$ 50.00	\$ 220.00	\$ -	\$ -	\$ 220.00
77	15Amp, 2-Pole Circuit Breaker	6	EA	0%	6	0.600	3.60	\$ 50.00	\$ 180.00	\$ -	\$ -	\$ 180.00
78	200Amp, 3-Pole Circuit Breaker	2	EA	0%	2	1.860	3.72	\$ 50.00	\$ 186.00	\$ -	\$ -	\$ 186.00
79	20Amp, 1-Pole Circuit Breaker	14	EA	0%	14	0.650	9.10	\$ 50.00	\$ 455.00	\$ -	\$ -	\$ 455.00
80	20Amp, 2-Pole Circuit Breaker	1	EA	0%	1	0.700	0.70	\$ 50.00	\$ 35.00	\$ -	\$ -	\$ 35.00
81	25Amp, 2-Pole Circuit Breaker	1	EA	0%	1	0.750	0.75	\$ 50.00	\$ 37.50	\$ -	\$ -	\$ 37.50
82	45Amp, 2-Pole Circuit Breaker	2	EA	0%	2	0.800	1.60	\$ 50.00	\$ 80.00	\$ -	\$ -	\$ 80.00
83	60Amp, 2-Pole Circuit Breaker	2	EA	0%	2	0.900	1.80	\$ 50.00	\$ 90.00	\$ -	\$ -	\$ 90.00
84	70Amp, 3-Pole Circuit Breaker	1	EA	0%	1	1.000	1.00	\$ 50.00	\$ 50.00	\$ -	\$ -	\$ 50.00
85	Panel-C, 200Amp, 208Y/120V, 3-Ph, 4W	1	EA	0%	1	22.000	22.00	\$ 50.00	\$ 1,100.00	\$ -	\$ -	\$ 1,100.00
86	15Amp, 1-Pole Circuit Breaker	4	EA	0%	4	0.550	2.20	\$ 50.00	\$ 110.00	\$ -	\$ -	\$ 110.00
87	20Amp, 1-Pole Circuit Breaker	31	EA	0%	31	0.650	20.15	\$ 50.00	\$ 1,007.50	\$ -	\$ -	\$ 1,007.50
88	40Amp, 2-Pole Circuit Breaker	1	EA	0%	1	0.780	0.78	\$ 50.00	\$ 39.00	\$ -	\$ -	\$ 39.00
89	40Amp, 3-Pole Circuit Breaker	1	EA	0%	1	0.950	0.95	\$ 50.00	\$ 47.50	\$ -	\$ -	\$ 47.50
90	70Amp, 2-Pole Circuit Breaker	1	EA	0%	1	1.000	1.00	\$ 50.00	\$ 50.00	\$ -	\$ -	\$ 50.00
91	Panel-D, 200Amp, 208Y/120V, 3-Ph, 4W	1	EA	0%	1	22.000	22.00	\$ 50.00	\$ 1,100.00	\$ -	\$ -	\$ 1,100.00
92	20Amp, 1-Pole Circuit Breaker	25	EA	0%	25	0.850	21.25	\$ 50.00	\$ 1,062.50	\$ -	\$ -	\$ 1,062.50
93	15Amp, 3-Pole Circuit Breaker	3	EA	0%	3	0.700	2.10	\$ 50.00	\$ 105.00	\$ -	\$ -	\$ 105.00
MISC. ITEMS												
94	Junction Box	2	EA	0%	2	1.000	2.00	\$ 50.00	\$ 100.00	\$ 55.00	\$ 110.00	\$ 210.00
95	New 600A/3P Wireway	1	EA	0%	1	2.500	2.50	\$ 50.00	\$ 125.00	\$ -	\$ -	\$ 125.00
COMMUNICATION OUTLET												
96	Tv Outlet	2	EA	0%	2	0.650	1.30	\$ 50.00	\$ 65.00	\$ 38.00	\$ 76.00	\$ 141.00
97	Combo Data Tele Outlet	40	EA	0%	40	0.616	24.64	\$ 50.00	\$ 1,232.00	\$ 46.00	\$ 1,840.00	\$ 3,072.00
											SUBTOTAL	\$ 103,197
											PROJECTED COST	\$103,197
OVERHEAD AND PROFIT											25%	\$25,799
MATERIAL MARKUPS											30%	\$30,959
TAX											10.0%	\$10,320
SUGGESTED BID												\$170,276

Note:

1. Please verify the Electrical and their prices with owner.

2. Online sources are used for pricing.

3. Prices can vary Depending upon field conditions.