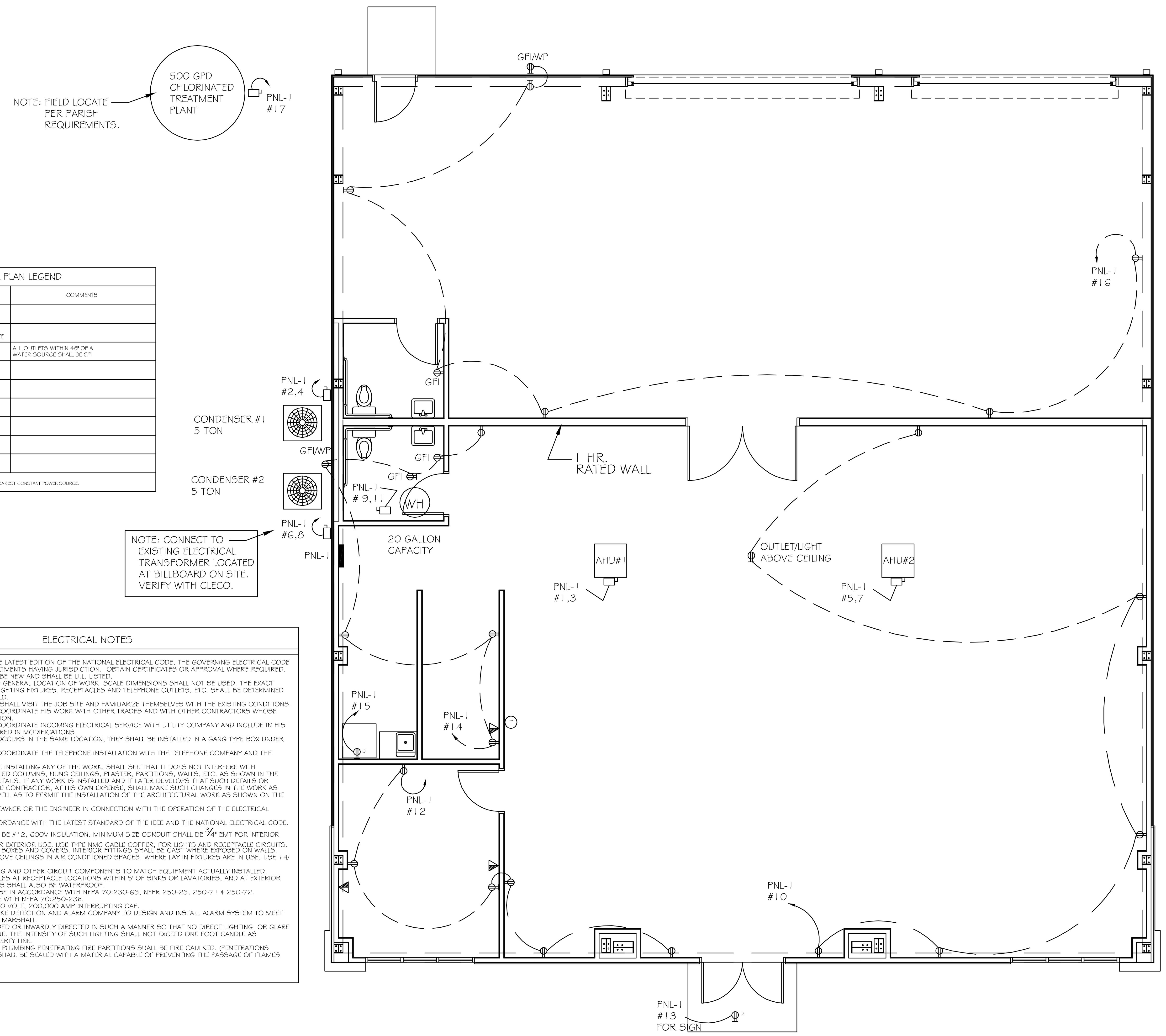
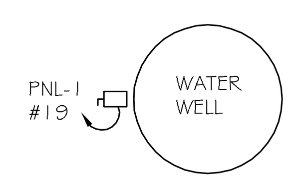


NOTE: CONNECT TO EXISTING ELECTRICAL TRANSFORMER LOCATED AT BILLBOARD ON SITE. VERIFY WITH CLECO.

POWER PLAN

SCALE: 3/16"= 1'



POWER PLAN LEGEND		
SYM.	DESCRIPTION	COMMENTS
	STANDARD 120V DUPLEX RECEPTACLE @ 18" AFF (UNLESS NOTED)	
D	DEDICATED RECEPTACLE SEE PANEL SCHEDULE FOR CIRCUIT SIZE	
GFI	GFI RECEPTACLE	ALL OUTLETS WITHIN 48" OF A WATER SOURCE SHALL BE GFI
WP	WEATHER PROOF 120V DUPLEX RECEPT. @ 30" AFF (UNLESS NOTED)	
C	RECEPTACLE @ 6" ABOVE COUNTER	
	QUAD CAT.5 JACK WITH FACEPLATE NETWORKING CONNECTION	
	POWER DISCONNECT	
WH	ELECTRIC WATER HEATER SIZE AS NOTED	
	AIR CONDITIONING COND. UNIT SEE MECH SHEETS FOR UNIT DETAILS	

NOTES:
1. CONNECT ALL EMERGENCY / EXIT LIGHT FIXTURES TO NEAREST CONSTANT POWER SOURCE.

ELECTRICAL NOTES

1. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, THE GOVERNING ELECTRICAL CODE AND ALL OTHER INSPECTION DEPARTMENTS HAVING JURISDICTION. OBTAIN CERTIFICATES OR APPROVAL WHERE REQUIRED.
2. ALL MATERIALS FURNISHED SHALL BE NEW AND SHALL BE U.L. LISTED.
3. THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALE DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION AND LOCATION OF ALL LIGHTING FIXTURES, RECEPTACLES AND TELEPHONE OUTLETS, ETC. SHALL BE DETERMINED BY ACTUAL CONDITIONS IN THE FIELD.
4. PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS.
5. ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AND WITH OTHER CONTRACTORS WHOSE WORK MAY AFFECT THIS INSTALLATION.
6. ELECTRICAL CONTRACTOR SHALL COORDINATE INCOMING ELECTRICAL SERVICE WITH UTILITY COMPANY AND INCLUDE IN HIS BID ALL CHARGES AND FEES INCURRED IN MODIFICATIONS.
7. WHERE MORE THAN ONE SWITCH OCCURS IN THE SAME LOCATION, THEY SHALL BE INSTALLED IN A GANG TYPE BOX UNDER ONE COVER PLATE.
8. ELECTRICAL CONTRACTOR SHALL COORDINATE THE TELEPHONE INSTALLATION WITH THE TELEPHONE COMPANY AND THE GENERAL CONTRACTOR.
9. ELECTRICAL CONTRACTOR, BEFORE INSTALLING ANY OF THE WORK, SHALL SEE THAT IT DOES NOT INTERFERE WITH CLEARANCES REQUIRED FOR FINISHED COLUMNS, HUNG CEILINGS, PLASTER, PARTITIONS, WALLS, ETC. AS SHOWN IN THE ARCHITECTURAL DRAWINGS AND DETAILS. IF ANY WORK IS INSTALLED AND IT LATER DEVELOPS THAT SUCH DETAILS OR DESIGN CANNOT BE FOLLOWED, THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL MAKE SUCH CHANGES IN THE WORK AS DIRECTED BY THE ARCHITECT, AS WELL AS TO PERMIT THE INSTALLATION OF THE ARCHITECTURAL WORK AS SHOWN ON THE PLANS AND DETAILS.
10. PERFORM TEST REQUIRED BY THE OWNER OR THE ENGINEER IN CONNECTION WITH THE OPERATION OF THE ELECTRICAL SYSTEM IN THE BUILDING.
11. ALL TESTS SHALL BE MADE IN ACCORDANCE WITH THE LATEST STANDARD OF THE IEEE AND THE NATIONAL ELECTRICAL CODE.
12. MINIMUM CONDUCTOR SIZE SHALL BE #12, 600V INSULATION. MINIMUM SIZE CONDUIT SHALL BE 3/4" EMT FOR INTERIOR USE, AND 3/4" RIGID ALUMINUM FOR EXTERIOR USE. USE TYPE NMC CABLE COPPER, FOR LIGHTS AND RECEPTACLE CIRCUITS. EXTERIOR FITTINGS SHALL BE CAST BOXES AND COVERS. INTERIOR FITTINGS SHALL BE CAST WHERE EXPOSED ON WALLS. STAMPED BOXES MAY BE USED ABOVE CEILINGS IN AIR CONDITIONED SPACES. WHERE LAY IN FIXTURES ARE IN USE, USE 14/2 ALLOWED FOR 6' WIDTH.
13. CONTRACTOR SHALL INSTALL WIRING AND OTHER CIRCUIT COMPONENTS TO MATCH EQUIPMENT ACTUALLY INSTALLED.
14. INSTALL GROUND FAULT RECEPTACLES AT RECEPTACLE LOCATIONS WITHIN 5' OF SINKS OR LAVATORIES, AND AT EXTERIOR LOCATIONS. EXTERIOR RECEPTACLES SHALL ALSO BE WATERPROOF.
15. BONDING AND GROUNDING SHALL BE IN ACCORDANCE WITH NFPA 70:230-63, NFPR 250-23, 250-71 & 250-72.
16. GROUND NEUTRAL IN ACCORDANCE WITH NFPA 70:250-23b.
17. FUSES SHALL BE ITT CLASS K5, 250 VOLT, 200,000 AMP INTERRUPTING CAP.
18. PROVIDE SERVICES OF A FIRE/SMOKE DETECTION AND ALARM COMPANY TO DESIGN AND INSTALL ALARM SYSTEM TO MEET REQUIREMENTS OF THE STATE FIRE MARSHALL.
19. EXTERIOR LIGHTING SHALL BE SHADED OR INWARDLY DIRECTED IN SUCH A MANNER SO THAT NO DIRECT LIGHTING OR GLARE IS CAST BEYOND THE PROPERTY LINE. THE INTENSITY OF SUCH LIGHTING SHALL NOT EXCEED ONE FOOT CANDLE AS MEASURED AT THE ABUTTING PROPERTY LINE.
20. ALL ELECTRICAL, MECHANICAL AND PLUMBING PENETRATING FIRE PARTITIONS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E814.)

PANEL: PNL-1
LOCATION: WEST WALL OF SHOW ROOM AREA
FEEDER SOURCE: CLECO (AT BILLBOARD ON SITE - VERIFY)

VOLTAGE: 120/240V, 200A 1Ø, 3W, MLO
ENCLOSURE: FLUSH MOUNTED W/EQUIPMENT GND BAR
150A, MLO
SQUARE D TYPE QO LOAD CENTER

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (VA)	AØ / BØ	LOAD (VA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	THHN WIRE SIZE	CKT. NO.
1, 3	#6	AHU #1 15 KW	60	2	5000 / 5000		4800 / 4800	2	40	A/C COMPRESSOR #1 5 TON	#8	2, 4
5, 7	#6	AHU #2 15 KW	60	2	5000 / 5000		4800 / 4800	2	40	A/C COMPRESSOR #2 5 TON	#8	6, 8
9, 11	#8	WATER HEATER 20 GALLON	30	2	3600 / 3600		960	1	20	SHOW ROOM 101 RECEPTACLES	#12	10
							960	1	20	OFFICE 102/SHOW ROOM 101 RECEPTACLES	#12	12
13	#12	SIGN RECEPTACLE	20	1	160		1120	1	20	RECEPTION/KITCHEN/SHOW ROOM RECEPTACLES	#12	14
15	#12	FRIG RECEPTACLE	20	1	160		1120	1	20	WAREHOUSE RECEPTACLES	#12	16
17	#12	TREATMENT PLANT AIR PUMP	20	1	1800		1600	1	20	SHOW ROOM 101 LIGHTING WEST SIDE	#12	18
19	#12	WATER WELL SUCTION PUMP	20	1	1800		1600	1	20	SHOW ROOM 101 LIGHTING EAST SIDE	#12	20
21	#12	OFFICE/RECEPTION/KITCHEN LIGHTING	20	1	800		600	1	20	EMERGENCY & EXIT LIGHTS	#12	22
23	#12	WAREHOUSE LIGHTING	20	1	1200		800	1	20	BATHROOM LIGHTING	#12	24
25	#12	EXTERIOR WALL PACK FLOOD LIGHTS	20	1	600		-	1	20	SPARE	#12	26
27	#12	SPARE	20	1	-		-	1	20	SPARE	#12	28
29	#12	SPARE	20	1	-		-	1	20	SPARE	#12	30
31	#12	SPARE	20	1	-		-	-	-	SPACE	#12	32
33												34
35												36
37	-	SPACE	-	-	-		-	-	-	SPACE	#12	38
39	-	SPACE	-	-	-		-	-	-	SPACE	#12	40
41	-	SPACE	-	-	-		-	-	-	SPACE	#12	42

SOLID NEUTRAL
NEUTRAL WIRE (W)

TOTAL CONNECTED LOAD (VA)=61,680
AØ=30,840 BØ=30,840

GROUND BUS
GROUND WIRE (G)

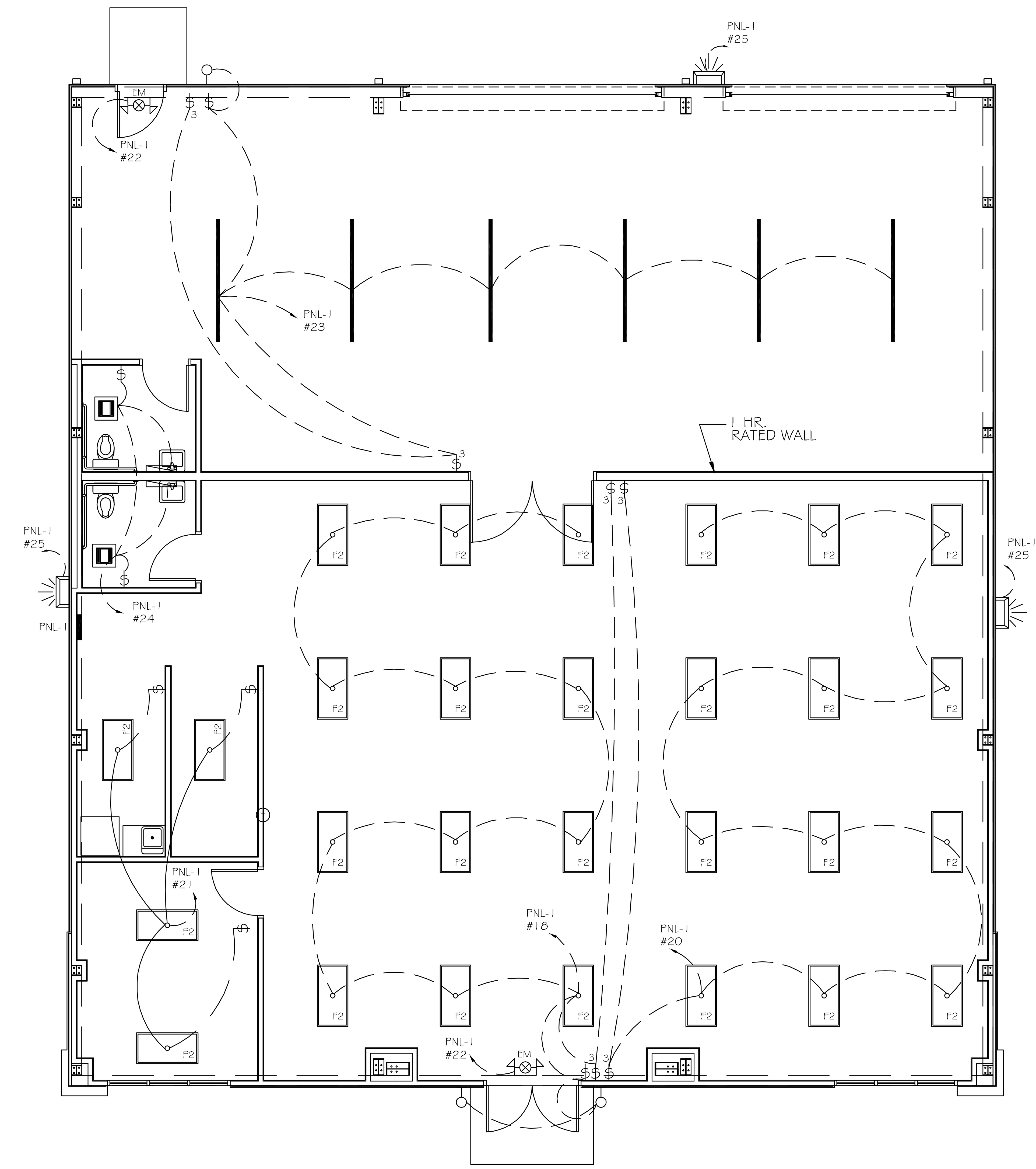
CLECO Power LLC - Electrical Load Summary

Project Name: MOREAU'S THERMAL SERVICES INC.
Project Address: 200 JOSEPH STREET
City / Town: SLIDELL, Louisiana

Intended Use: Office/Warehouse Building
Requested Service: 240 Volts 1 Ø Phase 3 Wires
Service Entrance Size: 200 Amps
HVAC Tonnage: 10.00 Tons
Largest Motor: N/A HP (Note: Motors above 20 hp may require reduced Voltage starting and are never recommended for use with 120/240V, 3 Ø, 4W services.)

Total Building Square Footage: 3,900 Square Feet
Individual Unit Square Footage: N/A Square Feet (Multiple Occupancy)
Individual Unit Designation: N/A (Multiple Occupancy)

LOAD SOURCE	1Ø - kVA	3Ø - kVA	or	1Ø - kW	3Ø - kW
Building Lighting	9160	-	or	-	-
Electric Water Heating	7200	-	or	-	-
Heat Pumps	-	-	or	-	-
Supplemental Heat System	-	-	or	-	-
Air Conditioning Condensing Units	19200	-	or	-	-
Electrical Heating (Primary) - AHUs	20000	-	or	-	-
Cooking	-	-	or	-	-
Refrigeration	160	-	or	-	-
Receptacles (Standard)	4320	-	or	-	-
Receptacles (Computer)	-	-	or	-	-
Total Motors (Exclude HVAC)	-	-	or	-	-
Exterior Lighting	600	-	or	-	-
Miscellaneous - Ceiling Fans	-	-	or	-	-
Other (Specify)	-	-	or	-	-

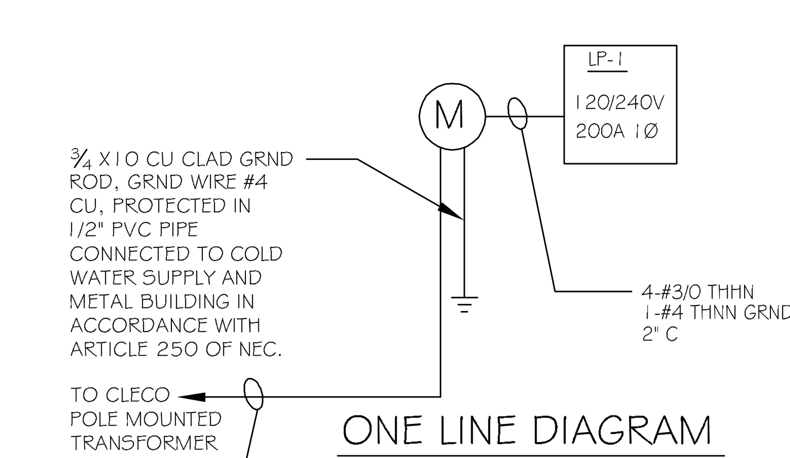


LIGHTING PLAN

SCALE: 3/16"= 1'

LIGHTING LEGEND

- VENT / LIGHT COMBINATION
- F2 — 2x4 RECESSED FLUORESCENT 4-T8 32W FLUORESCENT 120V
- WALL MTD. EMER./EXIT LIGHT W/ 90 MIN. BATT. BACKUP
- F7 — LIGHT ABOVE SINK
- 2 - 4' FLUORESCENT STRIPS
- WALL PACK 150W METAL HALIDE ON PHOTOCELL



ONE LINE DIAGRAM

NTS

REVISIONS		
#	DESCRIPTION	DATE

RAY HORVATH
FLOORWORKS AND BLINDS
RETAIL
1860 SHORTCUT ROAD
SLIDELL, LA 70458

JOB No: 2152 DATE: 11-14-12
DRAWN BY: BSN/JTL CHECKED BY:

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POWER & LIGHTING PLAN

SHEET No: 9 OF 10

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