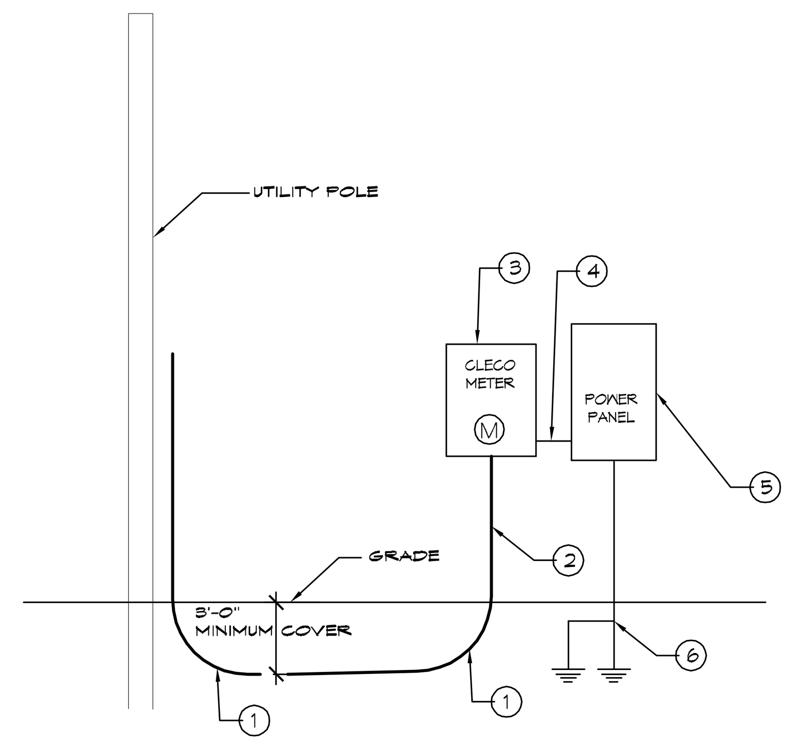
PANEL SCHEDULE

PANEL: PANEL P1
LOCATION: STAFF ROOM
FEEDER SOURCE: CLECO

VOLTAGE: 120/240V, 200A, 1Φ, 3W
ENCLOSURE: FLUSH MOUNTED, NEMA 1 PNLBD W/EQUIP GND BAR, 200A M/B, 65KAIC

CKT NO	THHN WIRE SIZE	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (kva) AΦ/BΦ	LOAD (kva)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	THHN WIRE SIZE	CKT NO
1 3	#10	3 TON CU-1	30	2	2.2 2.2	6.5 6.5	2	60	AHU-1 : 9.6 kw HEAT NOTE #1	#6	2 4
5 7	#10	3 TON CU-2	30	2	2.2 2.2	6.5 6.5	2	60	AHU-2 : 9.6 kw HEAT NOTE #1	#6	6 8
9 11	#10	HOT WATER HEATER	30	3	2.3 2.3	- 1.3	- 1	- 20	SPACE WAITING ROOMS OUTLETS	- #12	10 12
13	#12	OUTSIDE LIGHTS	20	1	0.5	0.5	1	20	RECEPTION WINDOW OUTLETS	#12	14
15	#12	RECEPTION BACK WALL OUTLETS	20	1	0.7	1.3	1	20	REAR CORRIDOR & RESTROOMS OUTLETS	#12	16
17	#12	SICK EXAM 1 & 2 OUTLETS	20	1	1.4	1.4	1	20	SICK EXAM 3 & WELL EXAM 5 OUTLETS	#12	18
19	#12	WELL EXAM 1 & 2 OUTLETS	20	1	1.4	1.3	1	20	FRONT CORRIDOR OUTLETS	#12	20
21	#12	WELL EXAM 3 & 4 OUTLETS	20	1	1.4	1.3	1	20	REFRIGERATOR OUTLETS	#12	22
23	#12	STAFF ROOM COUNTERTOP OUTLETS	20	1	1.2	4.0	1	20	STAFF ROOM OUTLETS	#12	24
25	#12	PROVIDERS OFFICE OUTLETS	20	1	0.9	1.4	1	20	RECEPTION, WAITING RMS & SICK EXAM 3 LIGHTS	#12	26
27	#12	SICK EXAM RM 1 & 2 AND REAR CORRIDOR LIGHTS	20	1	1.2	1.1	1	20	WELL EXAM RMS 1 - 4 AND FRONT CORRIDOR LIGHTS	#12	28
29	#12	WELL EXAM RM 5, STAFF AND PROVIDER OFFICE LIGHTS	20	1	0.5	1.1	1	20	RESTROOM LIGHTS	#12	30
31	#12	ATTIC POWER VENTILATOR	20	1	1.0	0.5 0.5	2	15	3 TON AHU-1 NOTE #1	#20	32 34
33	-	SPARE	20	1	-						
35	-	SPARE	20	1	-	0.5 0.5	2	15	3 TON AHU-2 NOTE #1	#20	36 38
37	-	SPACE	-	-	-						
39	-	SPACE	-	-	-	-	-	-	SPACE	-	40
41	-	SPACE	-	-	-	-	-	-	SPACE	-	42
SOLID NEUTRAL NEUTRAL WIRE (W)					TOTAL CONNECTED LOAD = 62.7 kva				GROUND BUS GROUND WIRE (G)		
					AΦ = 31.1 kva	BΦ = 31.6 kva					

NOTE:
#1. VERIFY WITH MECHANICAL CONTRACTOR THE NUMBER OF CONNECTIONS AND THAT UNITS HAVE INTERNAL CIRCUIT BREAKER.



ONE LINE NOTES:

1. 36" LONG SWEEP ELBOW
2. PROVIDE TWO (2) 4" SCHEDULE 40 PVC CONDUIT BELOW GRADE AND SCH 80 PVC CONDUIT ABOVE GRADE WITH SUITABLE FISH WIRE.
3. 120/240V 1Φ 200amp METER PAN.
4. 3-4/0 THHN, 1-#2 GND, 2 1/2" C
5. 120/240V 1Φ 200amp PANELBOARD WITH MAIN BREAKER.
6. 2-3/4" x 10' CU CLAD GND ROD, #2 CU GND WIRE. PROTECT IN PVC PIPE. CONNECT TO METAL BLDG, COLD WATER SUPPLY & GAS LINE. CAD WELD ALL CONNECTIONS.

36 ONE LINE DIAGRAM
SCALE: 3/16"=1'-0"

POWER LEGEND

SYMB

- STANDARD 120V DUPLEX RECEPTACLE, 18" AFF (UNLESS OTHERWISE NOTED)
- SINGLE-POLE DEDICATED RECEPTACLE
- GFCI DUPLEX RECEPTACLE
- DEDICATED GFCI DUPLEX RECEPTACLE
- 240V RECEPTACLE - MOUNTED AT 30" AFF
- JUNCTION BOX
- WEATHER-PROOF GFCI DUPLEX RECEPTACLE MOUNTED AT 30" AFF (UNLESS OTHERWISE NOTED)
- STANDARD 120V DUPLEX RECEPTACLE - CEILING MOUNTED
- SINGLE POLE RECEPTACLE
- WALL MOUNTED DATA OUTLET
- QUAD OUTLET
- FUSED DISCONNECT, FUSE PER MANUFACTURERS RECOMMENDATIONS.

LIGHTING LEGEND

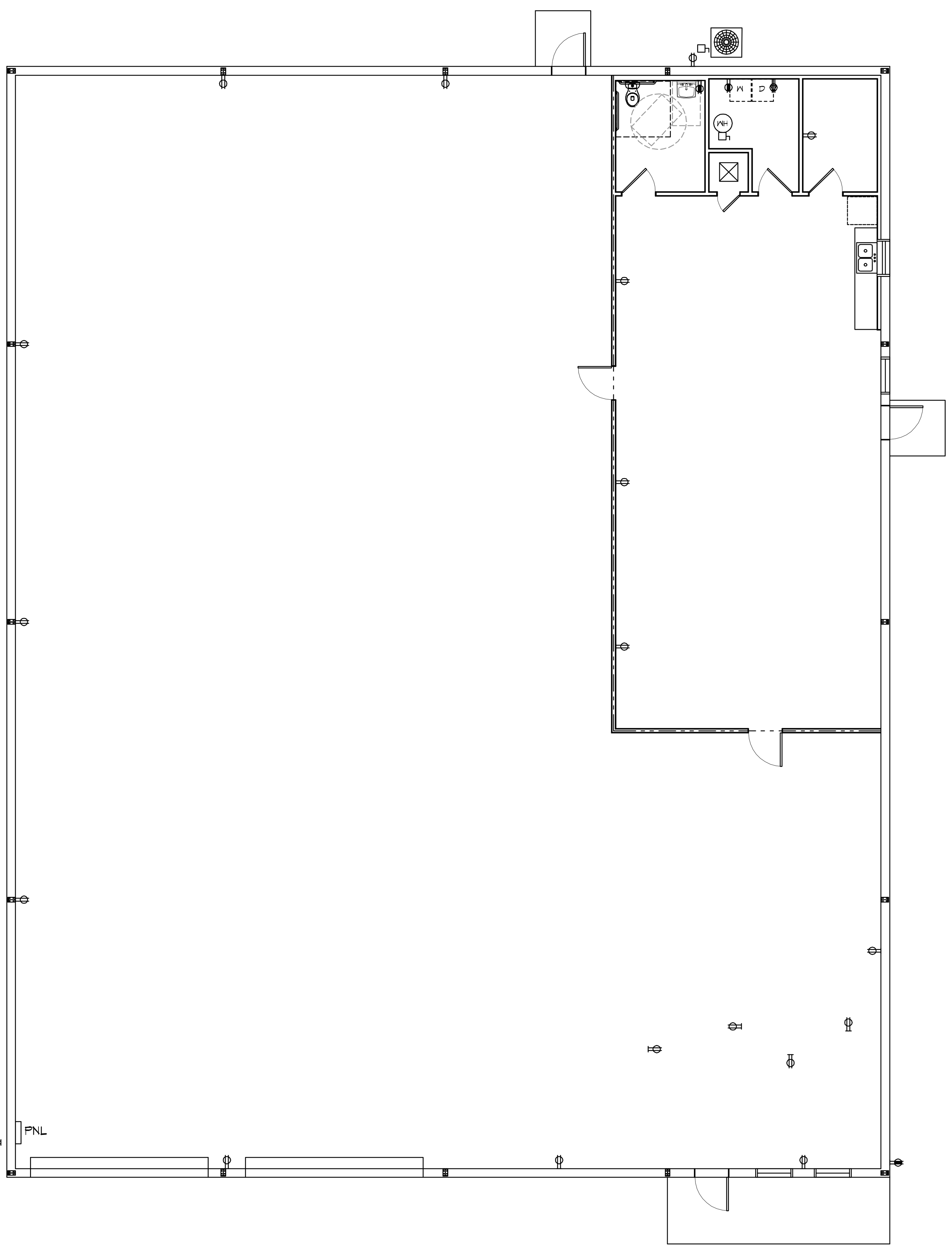
- EMERGENCY LIGHT FIXTURE
- EXIT LIGHT FIXTURE - CEILING MOUNTED
- WALL MOUNTED EXTERIOR LIGHT, W/90 MIN BACKUP POWER.
- 2X4 - 4 - FLUORESCENT OR LED; 11,200 LUMENS.
- 1X4 - 2 - FLUORESCENT OR LED; 5800 LUMENS.
- 1X2 - FLUORESCENT OR LED (RESTROOMS)
- ELECTRIC PANEL BOARD
- CIRCUIT HOME RUN
- LIGHT SWITCH 120V COMMERCIAL GRADE
- LIGHT SWITCH - DIMMER
- JUNCTION BOX
- EXHAUST FAN - SEE MECH
- 3 BLUB LED RESTROOM LIGHT FIXTURE.

SITE LIGHTING

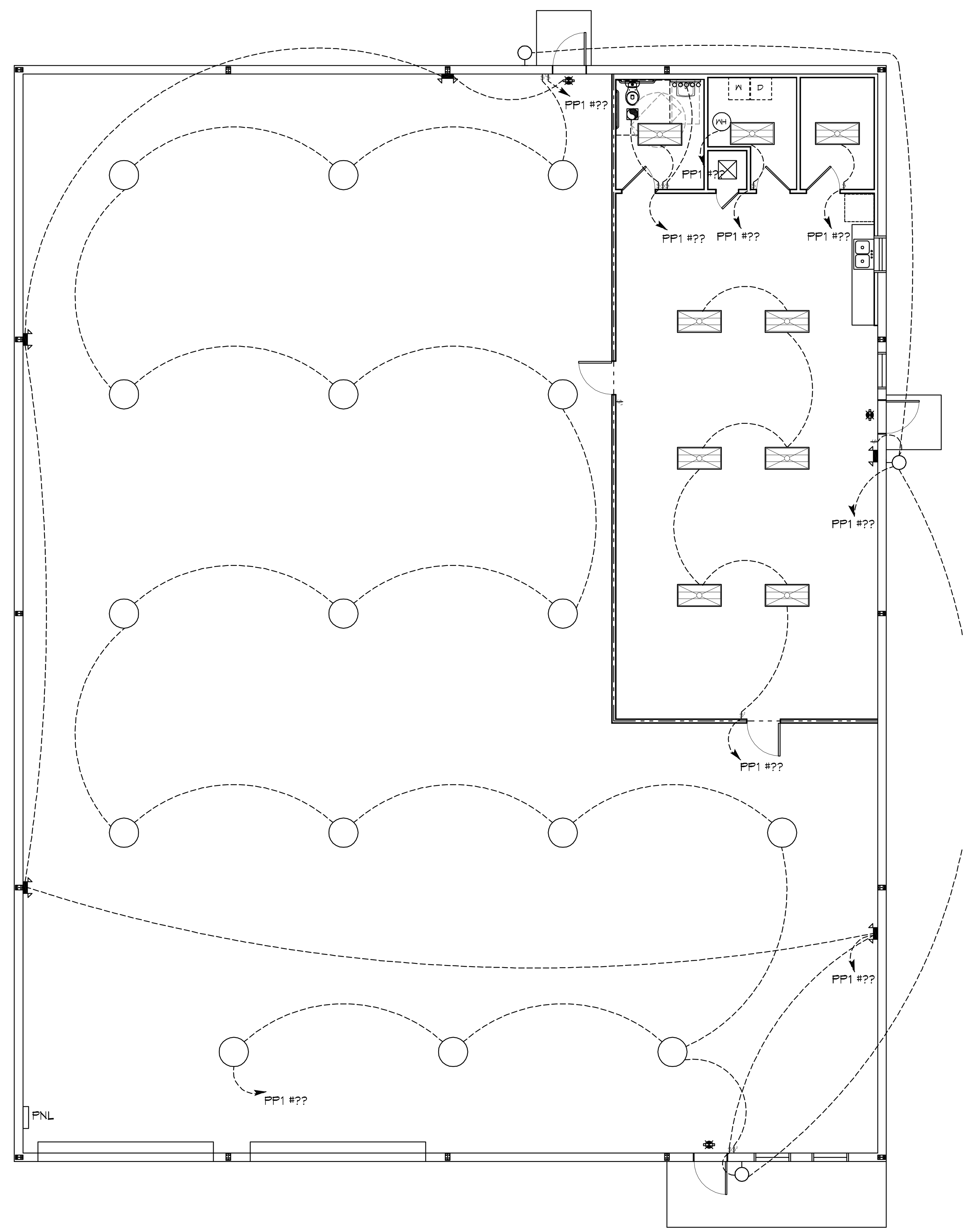
EXTERIOR LIGHTING SHALL BE SHADED OR INWARDLY DIRECTED IN SUCH A MANNER SO THAT NO DIRECT LIGHTING OR GLARE BE CAST BEYOND THE PROPERTY LINE. THE INTENSITY OF SUCH LIGHTING SHALL NOT EXCEED ONE FOOT CANDLE AS MEASURED AT THE ABUTTING PROPERTY LINE.

GENERAL POWER 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. ELECTRICAL CONTRACTOR SHALL VERIFY ALL WIRE AND CONDUIT SIZES FOR MECHANICAL EQUIPMENT TO BE INSTALLED.
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 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. ELECTRICAL CONTRACTOR SHALL COORDINATE THE TELEPHONE INSTALLATION WITH THE TELEPHONE COMPANY AND THE GENERAL CONTRACTOR.
8. 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.
9. PERFORM TEST REQUIRED BY THE OWNER OR THE ENGINEER IN CONNECTION WITH THE OPERATION OF THE ELECTRICAL SYSTEM IN THE BUILDING. ALL TESTS SHALL BE MADE IN ACCORDANCE WITH THE LATEST STANDARD OF THE IEEE AND THE NATIONAL ELECTRICAL CODE.
10. MINIMUM CONDUCTOR SIZE SHALL BE #12, 600V INSULATION. MINIMUM SIZE CONDUIT SHALL BE ¾" ELECTRICAL METALLIC TUBING (EMT) FOR INTERIOR USE, ¾" SCHEDULE 80 PVC FOR EXTERIOR USE ABOVE GRADE AND 1" SCHEDULE 40 PVC FOR EXTERIOR USE BELOW GRADE, BURIED A MINIMUM OF 18" FOR NON-VEHICLUAR TRAFFIC AREAS AND 36" IN VEHICULAR TRAFFIC AREAS. EMT SHALL BE USED WITH METAL STUD CONSTRUCTION AND ALL ASSEMBLY OCCUPANCIES. USE NMC IN WOOD CONSTRUCTION. 6 FT LENGTH MC CABLE IS ALLOWED ABOVE DROPPED CEILING. INTERIOR FITTINGS SHALL BE CAST WHERE EXPOSED ON WALLS, AND EXTERIOR FITTINGS SHALL BE CAST BOXES WITH NEMA 3R COVER(S).
11. CONTRACTOR SHALL INSTALL WIRING, CIRCUIT BREAKERS AND OTHER CIRCUIT COMPONENTS TO MATCH EQUIPMENT ACTUALLY INSTALLED.
12. ALL 120V RUNS LONGER THAN 60 FEET SHALL BE #10 AWG AND 277V RUNS LONGER THAN 150 FEET SHALL BE #10 AWG UNLESS NOTED OTHERWISE.
13. INSTALL GROUND FAULT RECEPTACLES AT RECEPTACLE LOCATIONS WITHIN 5' OF SINKS OR LAVATORIES, AND AT EXTERIOR LOCATIONS. EXTERIOR RECEPTACLES SHALL ALSO BE WATERPROOF. ALL RECEPTACLES IN THE KITCHEN AREA SHALL HAVE GROUND FAULT PROTECTION.
14. BONDING AND GROUNDING SHALL BE IN ACCORDANCE WITH NFPA 70:230-63, NFPR 250-23, 250-71 & 250-72.
15. GROUND NEUTRAL IN ACCORDANCE WITH NFPA 70:250-23b.
16. FUSES SHALL BE ITT CLASS K5, 250 VOLT, 200,000 AMP INTERRUPTING CAP.
17. PROVIDE SERVICES OF A FIRE/SMOKE DETECTION AND ALARM COMPANY TO DESIGN AND INSTALL ALARM SYSTEM TO MEET REQUIREMENTS OF THE STATE FIRE MARSHALL AND THE FIRE DISTRICT.
18. 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.
19. 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.)
20. VERIFY ELECTRICAL CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS.
21. ALL BRANCH CIRCUITS SERVING PATIENT CARE AREAS SHALL PROVIDE AN EFFECTIVE GROUND-FAULT CURRENT PATH BY INSTALLATION IN A METAL RACEWAY SYSTEM OR A MEDICAL GRADE MC CABLE (NEC ART. 517.13(A & B)).



34 FLOOR PLAN-POWER
SCALE: 1/8"=1'-0"



34 FLOOR PLAN-LIGHTING
SCALE: 1/8"=1'-0"

GENERAL LIGHTING NOTES

1. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE, AND LOCAL CODES, RULES, REGULATIONS, AND REQUIREMENTS OF THE SERVICE UTILITY COMPANY.
2. GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY IF ANY CONFLICTS OCCUR BETWEEN LIGHTING AND ANY OTHER TRADE. DO NOT PROCEED WITH INSTALLATION IN THAT AREA UNTIL CONFLICT HAS BEEN RESOLVED TO THE SATISFACTION OF THE ARCHITECT AND ENGINEER.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING INSTRUCTIONS FOR ALL LIGHT FIXTURES. NOTIFY THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES BETWEEN THESE PLANS AND THE ARCHITECTURAL PLANS RELATING TO QUANTITY, TYPE AND LOCATION OF DEVICES AND/OR FIXTURES.
4. WHEN SPECIFIC LIGHT FIXTURE HAS BEEN SPECIFIED IN THE FIXTURE SCHEDULE, ELECTRICAL CONTRACTOR SHALL PROVIDE COMPLETE ASSEMBLY INCLUSIVE ALL PARTS AND HARDWARE TO INSURE PROPER FUNCTIONING FIXTURE.
5. ALL CONDUCTORS SHALL BE A MINIMUM OF #12 AWG UNLESS NOTED OTHERWISE.
6. ALL 120V RUNS LONGER THAN 60 FEET SHALL BE #10 AWG AND 277V RUNS LONGER THAN 150 FEET SHALL BE #10 AWG UNLESS NOTED OTHERWISE.
7. ALL CONDUCTORS SHALL BE COPPER.
8. WHERE CONDUCTOR SIZES ARE NOTED ON DRAWINGS, THAT WIRE SIZE SHALL BE THROUGH THE ENTIRE RUN UNLESS OTHERWISE NOTED.
9. MOUNTED LIGHT SWITCHES 48" AFF UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS.
10. WHERE MORE THAN ONE SWITCH OCCURS IN THE SAME LOCATION, THEY SHALL BE INSTALLED IN A GANG TYPE BOX UNDER ONE COVER PLATE. ALL GANGED SWITCHES SHALL HAVE A COMMON SEAMLESS FACEPLATE. EACH MULTI-GANGED BOX SHALL BE NO MORE THAN SIX (6) SWITCHES WIDE. WHERE MORE THAN SIX (6) SWITCHES ARE SHOWN AT ONE (1) LOCATION, ADDITIONAL MULTI-GANGED BOXES SHALL BE STACKED VERTICALLY AND THE WIDTH OF THE MULTI-GANGS SHALL BE AS EVEN AS POSSIBLE.
11. EACH DIMMER SWITCH SHALL HAVE A WATTAGE RATING 25% HIGHER THAN THE TOTAL WATTAGE OF AL LIGHTS TO BE CONTROLLED BY THE DIMMER. DIMMER SIZES 600, 1000, 1500, AND 2000 WATTS, LUTRON NOVA T-STAR. WHERE SWITCHES ARE GANGED WITH DIMMERS, THE SWITCHES SHALL ALSO BE LUTRON NOVA T-STAR. FLUORESCENT AND LOW VOLTAGE DIMMERS SHALL BE LUTRON NOVA T-STAR.
12. ALL EMERGENCY EXIT LIGHT FIXTURES SHALL HAVE 90 MINUTE BATTERY BACKUP WITH INTEGRAL TEST BUTTON AND SHALL BURN CONTINUOUSLY.
13. ALL FLUORESCENT FIXTURES THAT UTILIZE DOUBLE-ENDED LAMPS AND CONTAIN BALLASTS SHALL BE PROVIDED WITH A DISCONNECTING MEANS IN ACCORDANCE WITH NEC 410.73G.

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REVISIONS

#	DESCRIPTION	DATE

SEAL:

NEW OFFICE WAREHOUSE
MIKE SCHWARTZ
217 GENERAL PATTON
MANDEVILLE, LA

JOB No: 2409 DATE: 02-12-2020
DRAWN BY: CKD CHECKED BY: BAM

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SHEET TITLE:
POWER PLAN

DRAWING NUMBER:
E101

SHEET No: 12 of 12

FILE NAME: J:\- Office Warehouse\2409 - Mike Schwartz Mandeville\Current Drawings\E101 - Electrical Power Plan.dwg PLOT DATE & TIME: Thursday, February 27, 2020 4:31:43 PM