POWER PLAN LEGEND

SYM.	DESCRIPTION	COMMENTS
	STANDARD , 20V DUPLEX RECEPTACLE @ , 6" AFF (UNLESS NOTED)	
	DEDICATED RECEPTACLE SEE PANEL SCHEDULE FOR CIRCUIT SIZE	
	GFI RECEPTACLE	ALL OUTLETS WITHIN 48" OF A WATER SOURCE SHALL BE GFI
	WEATHER PROOF , 20V DUPLEX RECEPT. @ 30" AFF (UNLESS NOTED)	
	RECEPTACLE @ 6" ABOVE COUNTER	
	QUAD CAT.5 JACK WITH FACEPLATE NETWORKING CONNECTION	
	POWER DISCONNECT	
	ELECTRIC WATER HEATER SIZE AS NOTED	
	AIR CONDITIONING COND. UNIT SEE MECH SHEETS FOR UNIT DETAILS	

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

EQUIPMENT NOTES:

1. EQUIPMENT LAYOUT, ELECTRICAL AND MECHANICAL DETAILS ARE BASED ON THE INFORMATION PROVIDED BY THE OWNER. CONTRACTOR TO COORDINATE ANY CORRESPONDING CHANGES TO EQUIPMENT SELECTION, LAYOUT, MECHANICAL AND ELECTRICAL REQUIREMENTS WITH THE OWNER.
2. CONTRACTOR TO COORDINATE EQUIPMENT REQUIREMENTS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DISCIPLINES.
3. SMOKE DETECTORS SHALL NOT BE INSTALLED CLOSER THAN 1'-0" TO A LIGHT FIXTURE OR WITHIN 3'-0" FROM A HVAC AIRJET/ AIR SUPPLY DIFFUSER.
4. MECHANICAL EXHAUST FAN SUPPLIED BY MECHANICAL CONTRACTOR.
5. PROVIDE 3/4" UNIT AT ALL DATA JACKS TO ROOF OR CEILING ABOVE.

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 PERFORM 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 1-4' 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 70:250-43, NFPA 250-23, 250-71 & 250-72.
16. GROUND NEUTRAL IN ACCORDANCE WITH NFPA 70-250-23b.
17. FUSES SHALL BE ITT CLASS RK, 250 VOLT, 200,000 AMP INTERRUPTING CAP.
18. PROVIDE SERVICES OF A FIREMORE DETECTION AND ALARM COMPANY TO DESIGN AND INSTALL ALARM SYSTEM TO MEET REQUIREMENTS OF THE STATE FIRE MARSHALL.
19. EXTERIOR LIGHTING SHALL BE SHIELDED 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: ELECTRICAL ROOM
FEEDER SOURCE: CLECO

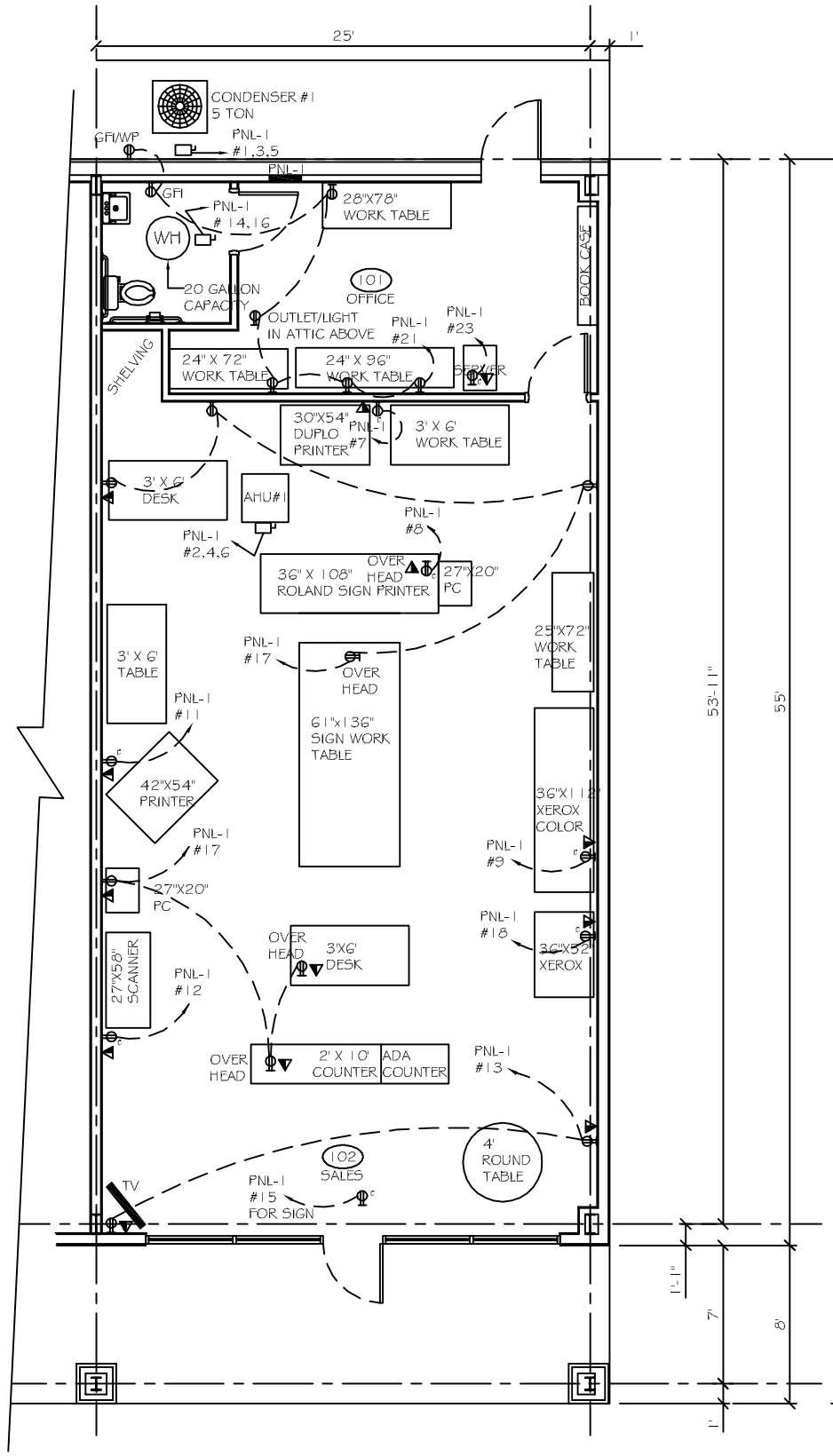
VOLTAGE: 120/208V, 150A 3ø, 4W
ENCLOSURE: WALL MOUNTED W/EQUIPMENT GND BAR
SQUARE D TYPE QO LOAD CENTER, 22000 AIC, W/ MAIN BRKR

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (VA)	A ø	B ø	C ø	LOAD (VA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	THHN WIRE SIZE	CKT. NO.
1					2120				3260					2
3	#6	A/C #1 5 TON CONDENSOR UNIT	40	3	2120				3260	3	60	A/C #1 AHU 15KW ELECTRIC HEAT	#6	4
5					2120				3260					6
7	#12	DUPLO PRINTER	20	1	1617				1080	1	20	ROLAND SIGN PRINTER	#12	8
9	#12	XEROX COLOR	20	1	3340				300	1	20	EXIT LIGHT & EMERGENCY LIGHT	#12	10
11	#12	OCE PRINTER	20	1	1305				105	1	20	OCE SCANNER	#12	12
13	#12	TV/ FRONT OUTLET	20	1	320				4000	2	30	WATER HEATER 20 GAL	#10	14
15	#12	SIGN OUTLET	20	1	200				4000					16
17	#12	COUNTER/DESK/COMPUTER OUTLET	20	1	480				3100	1	20	XEROX BW	#12	18
19	#12	TABLE/WALL OUTLETS	20	1	640				1000	1	20	OFFICE/BATH LIGHTS	#12	20
21	#12	OFFICE OUTLETS	20	1	960				1600	1	20	SALES LIGHTS	#12	22
23	#12	SERVER OUTLET	20	1	160				1400	1	20	SALES LIGHTS	#12	24
25	–	SPARE	20	1	–				–	1	20	SPARE	–	26
27	–	SPARE	20	1	–				–	1	20	SPARE	–	28
29	–	BLANK	–	–	–				–	–	–	BLANK	–	30

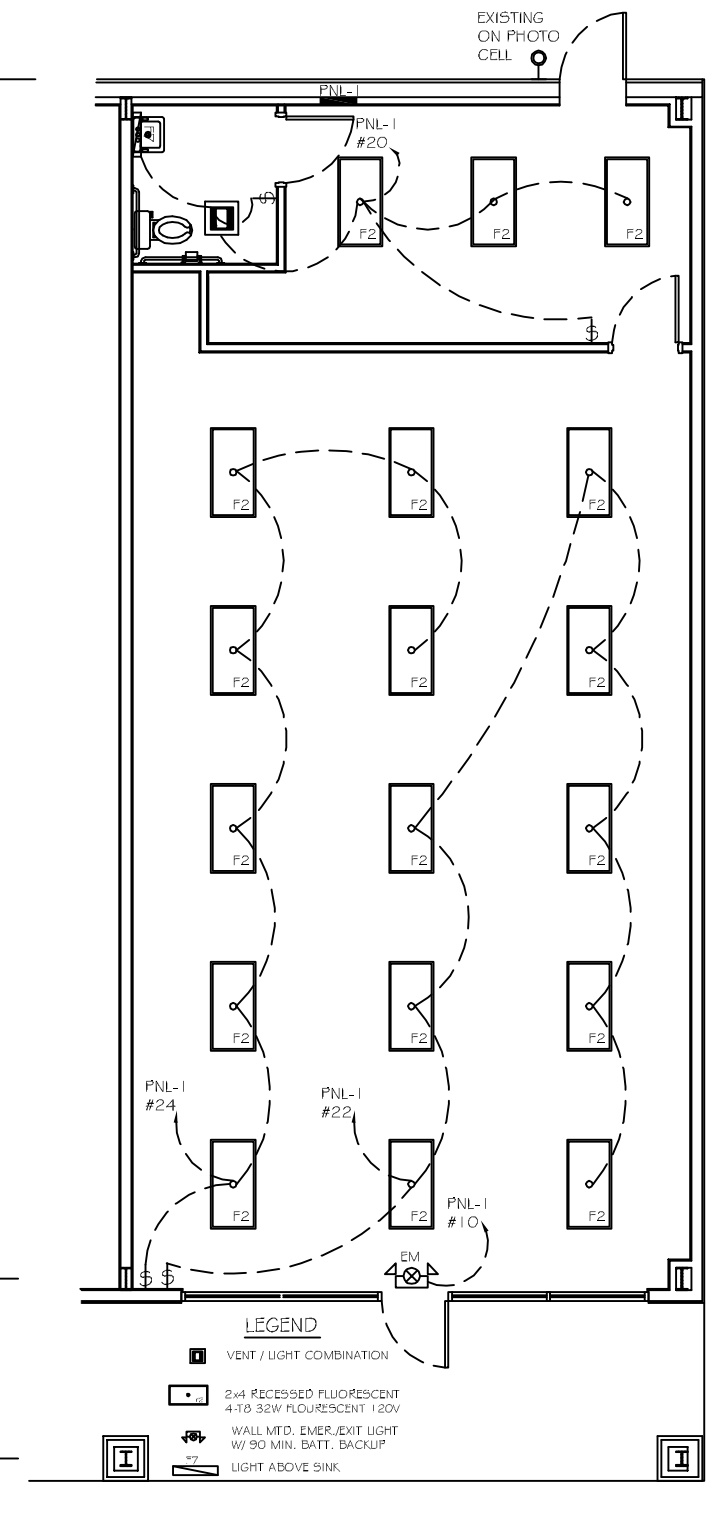
SOLID NEUTRAL
NEUTRAL WIRE (W)

TOTAL CONNECTED LOAD (VA)
A=14037 | B=15780 | C=11930

GROUND BUS
GROUND WIRE (G)



POWER PLAN
SCALE: 1/4" = 1'-0"



LIGHTING PLAN
SCALE: 1/4" = 1'-0"

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JOB No:	2152	DATE:	10-3-12
DRAWN BY:	BSN	CHECKED BY:	BSN

REVISIONS

#	DESCRIPTION	DATE

POWER & LIGHTING PLAN

SHEET No: 4 OF 4

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