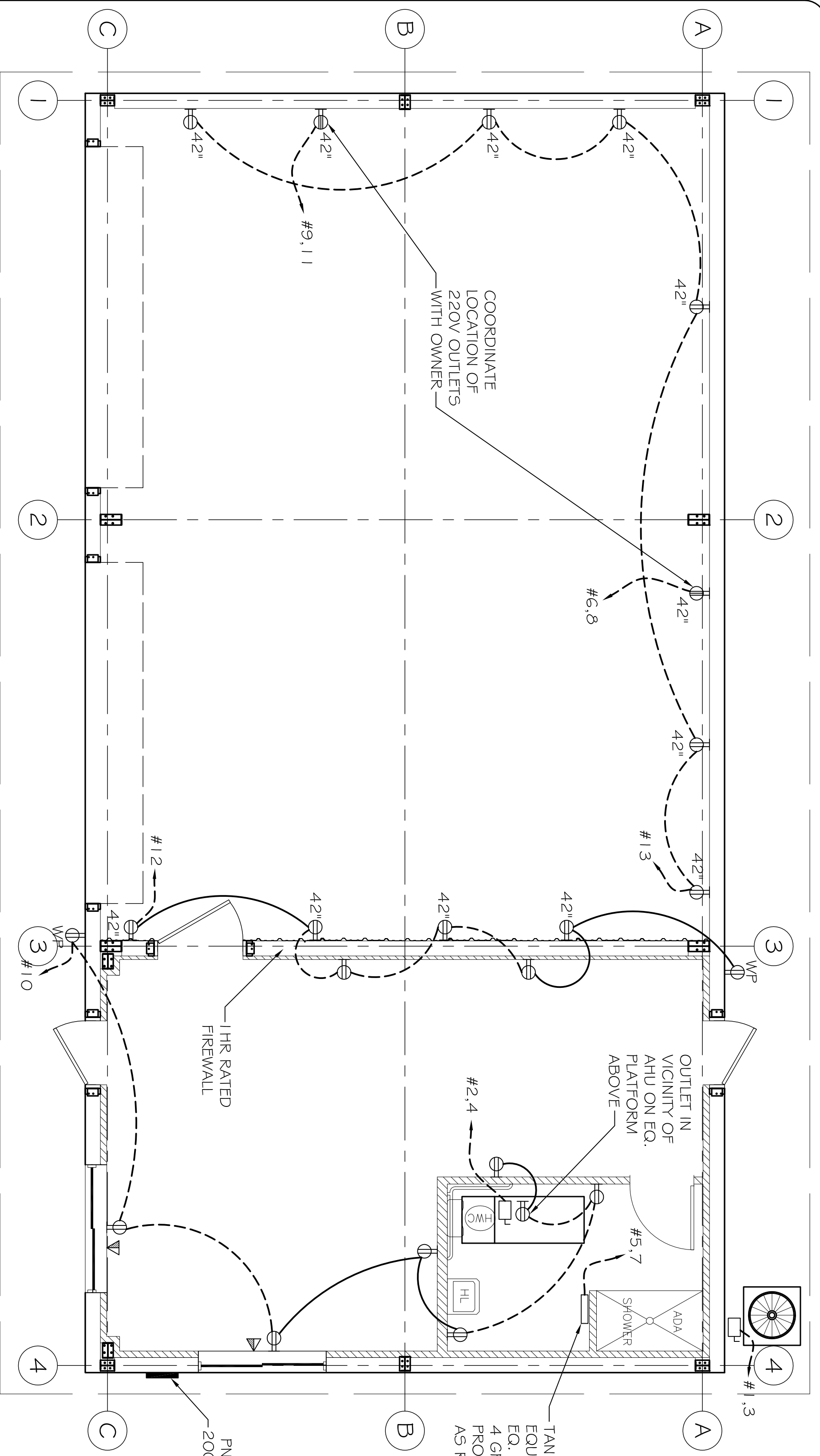
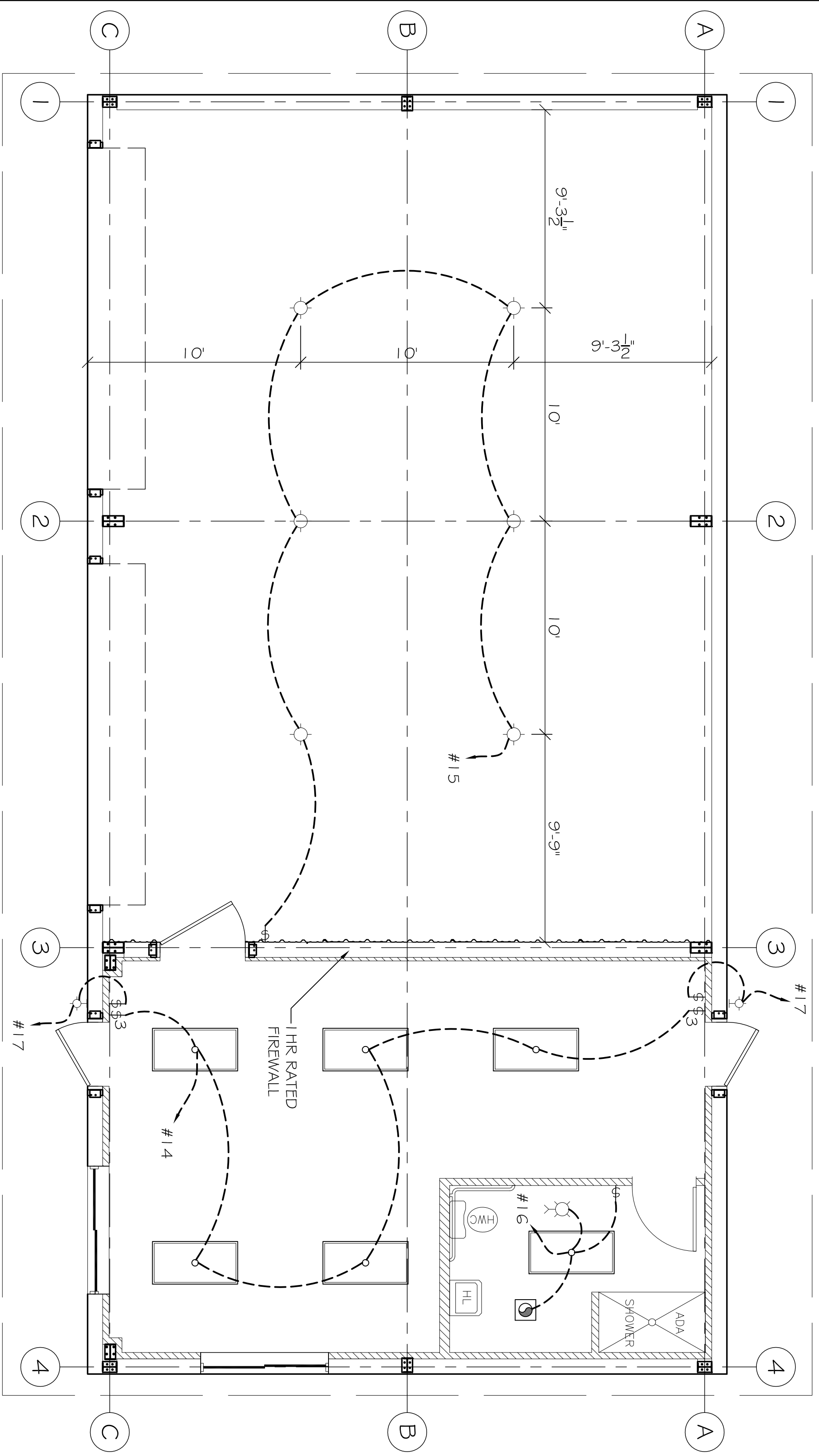


SYMBOL	DESCRIPTION	COMMENTS
	STANDARD 1.0V DUPLEX RECEPTACLE @ 18" AFF (UNLESS NOTED)	ALL RECEPTACLES SHALL BE GFCI WITH NEMA 3R BASE. COORDINATE FACEPLATE COLOR WITH OWNER.
	STANDARD 220V DUPLEX RECEPTACLE @ 18" AFF (UNLESS NOTED)	COORDINATE LOCATION WITH OWNER.
	EXTERIOR 20V DUPLEX RECEPTACLE @ 24" AFF (UNLESS NOTED)	COORDINATE LOCATION WITH OWNER.
	20V GASKETED WATERPROOF HOUSING	
	POWER DISCONNECT	
	AIR CONDITIONING COND. UNIT SEE MECH SHEETS FOR UNIT DETAILS	
	DUPLEX CAT 5 JACK WITH FACEPLATE NETWORKING CONNECTION AND T.V. COAXIAL CONNECTION WHERE REQUIRED	COORDINATE LOCATION WITH OWNER.

POWER PLAN LEGEND



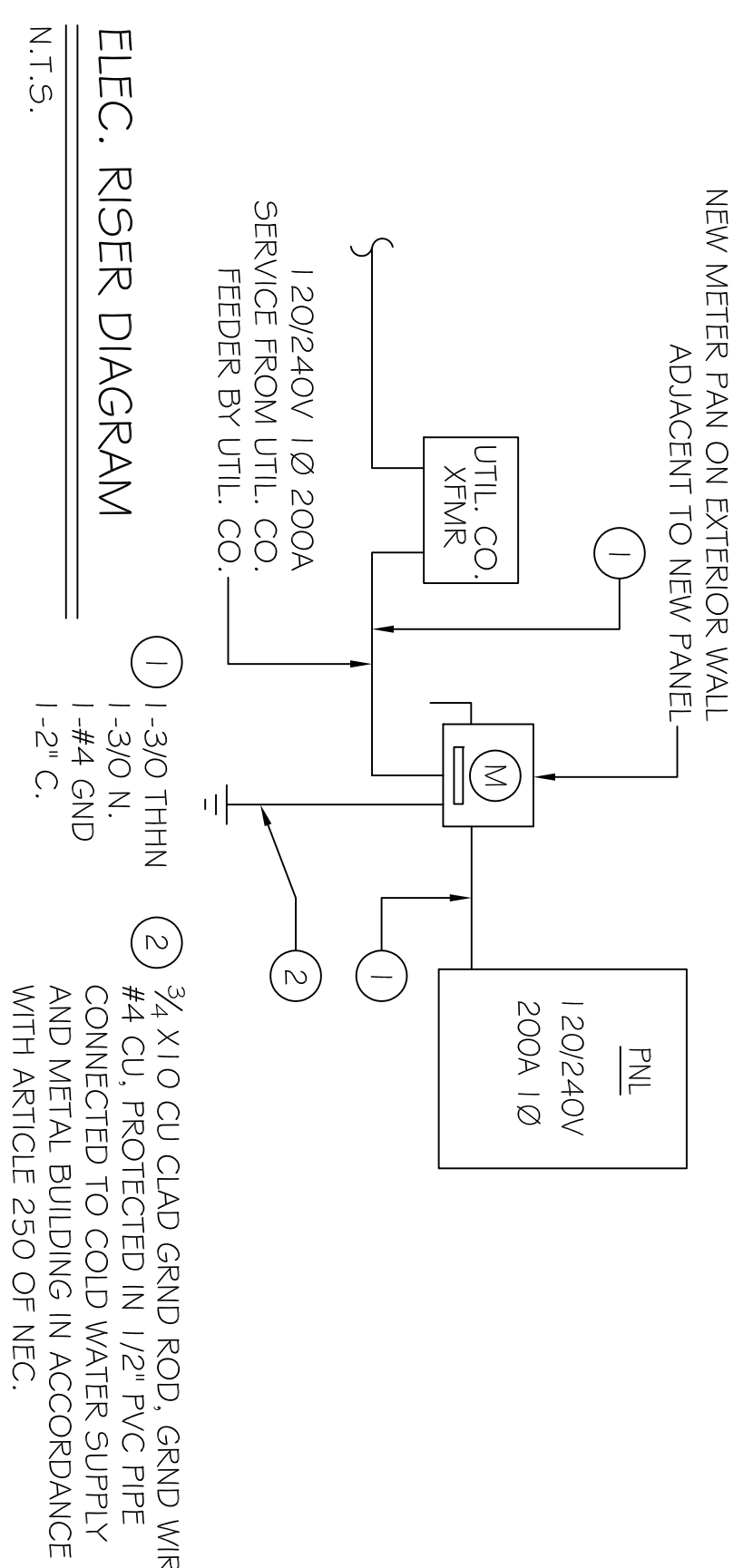
POWER PLAN
SCALE: 1/4" = 1'-0"



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

- LIGHTING PLAN SYMBOL LEGEND**
- 2x4 FLOURESCENT, LAY-IN, PRISMATIC LENSE, 4x 32W T8 LAMPS
 - EXTERIOR WALL MTD. FIXTURE, 1x 100W INCANDESCENT LAMP
 - 16" ALUMINUM LOW BAY LIGHT, PULSE START, 1x 250W METAL HALIDE LAMP
 - PULL CHAIN LIGHT FIXTURE IN ATTIC, 1x 75W INCANDESCENT LAMP
- NOTE: ALL LIGHTING FIXTURES TO BE SELECTED BY OWNER.

- ### ELECTRICAL NOTES
- ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC 2008 EDITION), THE GOVERNING ELECTRICAL CODE AND ALL OTHER INSPECTION DEPARTMENTS HAVING JURISDICTION. OBTAIN CERTIFICATES OR APPROVAL WHERE REQUIRED.
 - ALL MATERIALS FURNISHED SHALL BE NEW AND SHALL BE U.L. LISTED.
 - 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.
 - PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS.
 - ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AND WITH OTHER CONTRACTORS WHOSE WORK MAY AFFECT THIS INSTALLATION.
 - ELECTRICAL CONTRACTOR SHALL COORDINATE INCOMING ELECTRICAL SERVICE WITH UTILITY COMPANY AND INCLUDE IN HIS BID ALL CHARGES AND FEES INCURRED IN MODIFICATIONS.
 - WHERE WORK THAN ONE SWITCH OCCURS IN THE SAME LOCATION, THEY SHALL BE INSTALLED IN A GANG TYPE BOX UNDER ONE COVER PLATE.
 - ELECTRICAL CONTRACTOR SHALL COORDINATE THE TELEPHONE INSTALLATION WITH THE TELEPHONE COMPANY AND THE GENERAL CONTRACTOR.
 - 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.
 - 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.
 - MINIMUM CONDUCTOR SIZE SHALL BE #2, 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.
 - CONTRACTOR SHALL INSTALL WIRING AND OTHER CIRCUIT COMPONENTS TO MATCH EQUIPMENT ACTUALLY INSTALLED.
 - INSTALL GROUND FAULT RECEPTACLES AT RECEPTACLE LOCATIONS WITHIN 5' OF SINKS OR LAVATORIES, AND AT EXTERIOR LOCATIONS. EXTERIOR RECEPTACLES SHALL ALSO BE WATERPROOF.
 - BONDING AND GROUNDING SHALL BE IN ACCORDANCE WITH NFPA 70:230-63, NFPA 250-23, 250-71 & 250-72.
 - GROUND NEUTRAL IN ACCORDANCE WITH NFPA 70:250-23b.
 - FUSES SHALL BE ITC CLASS K5, 250 VOLT, 200,000 AMP INTERRUPTING CAP.
 - PROVIDE SERVICES OF A FIRE/SMOKE DETECTION AND ALARM COMPANY TO DESIGN AND INSTALL ALARM SYSTEM TO MEET REQUIREMENTS OF THE STATE FIRE MARSHAL.
 - 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 ADJUTING PROPERTY LINE.
 - ALL ELECTRICAL, MECHANICAL AND PLUMBING PENETRATING FIRE PARTITIONS SHALL BE FIRE RATED. 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.)



ELEC. RISER DIAGRAM
N.T.S.

CIRCUIT NO.	THIN WIRE SIZE	LOCATION	BREAKER	LOAD (VA)	LOAD (W)	POLE	AMP	LOCATION	THIN WIRE SIZE	CIRCUIT NO.
1		A/C COMPRESSOR UNIT	30	2300	4200	2	40	PHL 2 TON	#6	2
3		2 TON	2300	4200	2	40	PHL 2 TON	#6	4	
5		A/C COMPRESSOR UNIT	30	2300	4200	2	40	PHL 2 TON	#6	2
7		4 0HP TANKLESS ELECTRIC WATER HEATER	60	6400	1500	2	20	220V OUTLET IN BEHIND BAY	#12	6
9		220V OUTLET IN BEHIND BAY	20	1500	1600	1	20	COORDINATE LOCATION WITH OWNER	#12	10
11		RECEPTACLES	20	1500	1600	1	20	RECEPTACLES	#12	12
13		RECEPTACLES	20	1500	1600	1	20	OFFICE LIGHTING	#12	14
15		SHOP LOW BAY LIGHTING	20	1500	500	1	20	RESTROOM LIGHTING	#12	16
17		EXTERIOR LIGHTING	20	1500	1000	1	20	SPRINKLER SYSTEM	#12	18
19		BLANK	20	1500	1600	1	20	SPRINKLER SYSTEM	#12	20
21		BLANK	-	-	-	-	-	BLANK	-	22
23		BLANK	-	-	-	-	-	BLANK	-	24
TOTAL CONNECTED LOAD (VA) = 62620										
TOTAL CONNECTED LOAD (W) = 20400										

ELECTRICAL PLAN

SHEET No: 04 OF 05

E-1

#	DESCRIPTION	DATE

U.S. FISH & WILDLIFE SERVICE
NEW EQUIPMENT STORAGE BLDG.
UPPER OUCHITA NATIONAL WILDLIFE REFUGE
BASTROP, LA

JOB No: 2151 DATE: 10/02/12

DRAWN BY: BSN CHECKED BY: BSN

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