

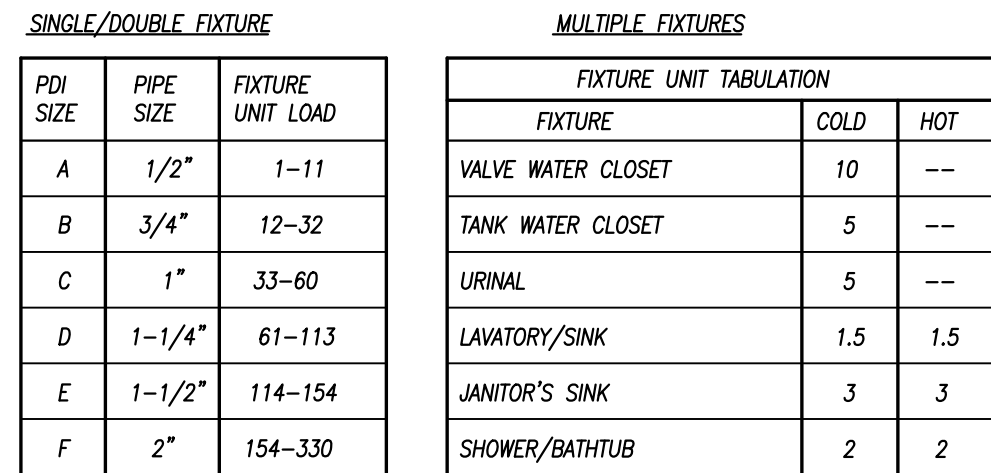
REMARKS:

1. EQUIPMENT ON SCHEDULE FURNISHED BY OTHERS.
2. EQUIPMENT SUBJECT TO CHANGE, FIELD VERIFY EQUIPMENT W/ OWNER AND ARCHITECT.
3. FIELD VERIFY PLUMBING REQUIREMENTS FOR ALL EQUIPMENT.
4. ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
5. COORDINATE EXACT LOCATION OF EQUIPMENT WITH OWNER.



REMARKS:

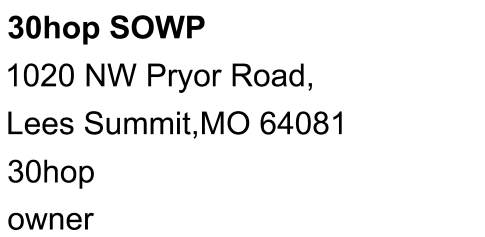
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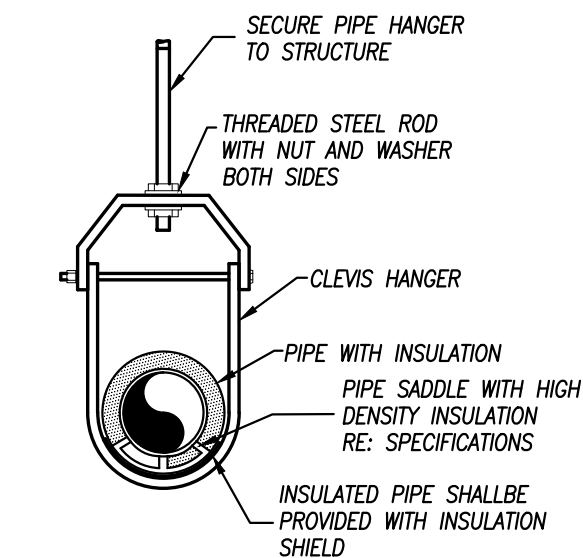
FOR BATTERIES & FIXTURES, PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WAITS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE # 1010 AND ANSI # A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE. PROVIDE ACCESSIBILITY TO "WHA" WHERE REQUIRED BY LOCAL CODE.

NOT TO SCALE





orientation	
project number	232882
scale	As Noted
date	7/23/2024
sheet title	Plumbing Details
sheet number	

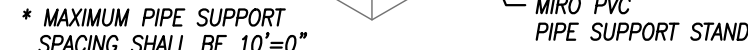


NOT TO SCALE

- ## TANKLESS GAS WATER HEATER DETAIL



NOT TO SCALE



NOT TO SCALE



WATER HEATER SCHEDULE						
PLAN MARK	MANUFACTURER	MODEL NUMBER	GALLONS	CAPACITY	ELECTRICAL	NOTES
WATER HEATER-1	NAVEN	NPE-240A2	TANKLESS	13,300 BTU/H MIN ~ 199,000 BTU/H MAX	120V, 200W	1,2,3
WATER HEATER-2	NAVEN	NPE-240A2	TANKLESS	13,300 BTU/H MIN ~ 199,000 BTU/H MAX	120V, 200W	1,2,3
WATER HEATER-3	NAVEN	NPE-240A2	TANKLESS	13,300 BTU/H MIN ~ 199,000 BTU/H MAX	120V, 200W	1,2,3
WATER HEATER-4	NAVEN	NPE-240A2	TANKLESS	13,300 BTU/H MIN ~ 199,000 BTU/H MAX	120V, 200W	1,2,3
WATER HEATER-5	NAVEN	NPE-240A2	TANKLESS	13,300 BTU/H MIN ~ 199,000 BTU/H MAX	120V, 200W	1,2,3

- ## EXPANSION TANK SCHEDULE

FLOOR DRAIN SCHEDULE						
PLAN MARK	MANUFACTURER	MODEL NUMBER	SERVICE	TOP/GRAZE SIZE	WASTE SIZE	REMARKS
FD-1	SIOUX CHIEF	842-PB	FLOOR DRAIN	5-1/2"Ø	2"	1,3
FS-1	SIOUX CHIEF	861	FLOOR SINK	12"x12"	2"	2
FT-1	JOHN BOOS	FTFG-1236	TRENCH DRAIN	12"x36"	4"	---

- ## PIPING MATERIAL & INSULATION SCHEDULE

PIPING						FIELD TEST PRESSURE/TIME		ALLOWABLE IN PLENUMS		INSULATION	
SYSTEM	SIZE	TYPE/SCHED	MATERIAL	ACCEPTABLE FITTINGS					TYPE	THICKNESS	
DOMESTIC COLD WATER	1/2"-2-1/2"	L	COPPER	SOLDER, PRO-PRESS		130 PSI - 1/2HR	YES		FIBERGLASS W/ ASJ	1/2"	
DOMESTIC HOT WATER & HW RETURN	1/2"-2-1/2"	L	COPPER	SOLDER, PRO-PRESS		130 PSI - 1/2HR	YES		FIBERGLASS W/ ASJ	1"	
DOM. HOT & COLD BELOW GRADE	1/2"-1-1/4"	K	COPPER	CONTINUOUS TUBING, BRAZED		130 PSI - 1/2HR	YES		ELASTOMERIC	3/4" (HOT ONLY)	
DOMESTIC COLD WATER	3"-6"	L	COPPER	BRAZED, PRO-PRESS		130 PSI - 1/2HR	YES		FIBERGLASS W/ ASJ	1/2"	
DOMESTIC HOT WATER	3"-6"	L	COPPER	BRAZED, PRO-PRESS		130 PSI - 1/2HR	YES		FIBERGLASS W/ ASJ	1-1/2"	
NATURAL GAS - ABOVE GRADE	2-1/2" & Up	SCH. 40	STEEL - SEEMED	WELDED		75 PSI - 1HR	YES	----	----	----	
NATURAL GAS - ABOVE GRADE	1/2"-2"	SCH. 40	STEEL - SEEMLESS	THREADED IRON		75 PSI - 1HR	YES	----	----	----	
NATURAL GAS BELOW GRADE	ALL	SOR-11	POLYETHYLENE	FUSION JOINTS		100 PSI - 1HR	NO	----	----	----	
SOIL & WASTE ABOVE GRADE	1-1/2"-6"	NO HUB / SERVICE WT.	CAST IRON	NO HUB		10 FT - 1/2HR	YES	----	----	----	
SOIL & WASTE ABOVE GRADE	2"-8"	SCH. 40	PVC	SOLVENT JOINED		10 FT - 1/2HR	NO	----	----	----	
SOIL & WASTE BELOW GRADE	2"-8"	SCH. 40	PVC	SOLVENT JOINED		10 FT - 1/2HR	NO	----	----	----	
DRINKING FOUNT. DRAIN	ALL	----	----	----		----	YES	----	ELASTOMERIC	1/2"	
CONDENSATE DRAIN ON ROOF	3/4"-2"	SCH. 40	PVC	SOLVENT JOINED		10 FT - 1/2HR	NO	----	----	----	
CONDENSATE DRAIN INTERIOR	1/2"-2"	L	COPPER	SOLDER, PRO-PRESS		10 FT - 1/2HR	YES		FIBERGLASS W/ ASJ	1/2" (PLENUM ONLY)	
FIRE SERVICE BELOW GRADE	4"-8"	AWWA C151	DUCTILE IRON	AWWA C111, MECH JOINTS		130 PSI - 1/2HR	YES	----	----	----	
DOM. WATER SERVICE BELOW GRADE	4"-8"	AWWA C151	DUCTILE IRON	AWWA C111, MECH JOINTS		130 PSI - 1/2HR	YES	----	----	----	
DOM. WATER SERVICE BELOW GRADE	1"-3"	K	COPPER	CONTINUOUS TUBING, BRAZED		130 PSI - 1/2HR	YES	----	----	----	
DOM. WATER SERVICE BELOW GRADE	1"-3"	DR 9	HDPE	CONTINUOUS TUBING, FUSED		130 PSI - 1/2HR	NO	----	----	----	

- NOTES
1. ALL PIPING AND MATERIALS IN PLENUMS MUST MEET ASTM E84 FLAME/SMOKE RATING OF 25/50
 2. ALL INSULATION THICKNESSES SHALL MEET ASHRAE 90.1 - 2007 REQUIREMENTS AT A MINIMUM.
 3. REFER TO SPECIFICATIONS FOR MORE DETAILED INFORMATION.

30hop SOWP
1020 NW Pryor Road,
Lees Summit,MO 64081
30hop
owner

[illegible]

orientation

project number 232882

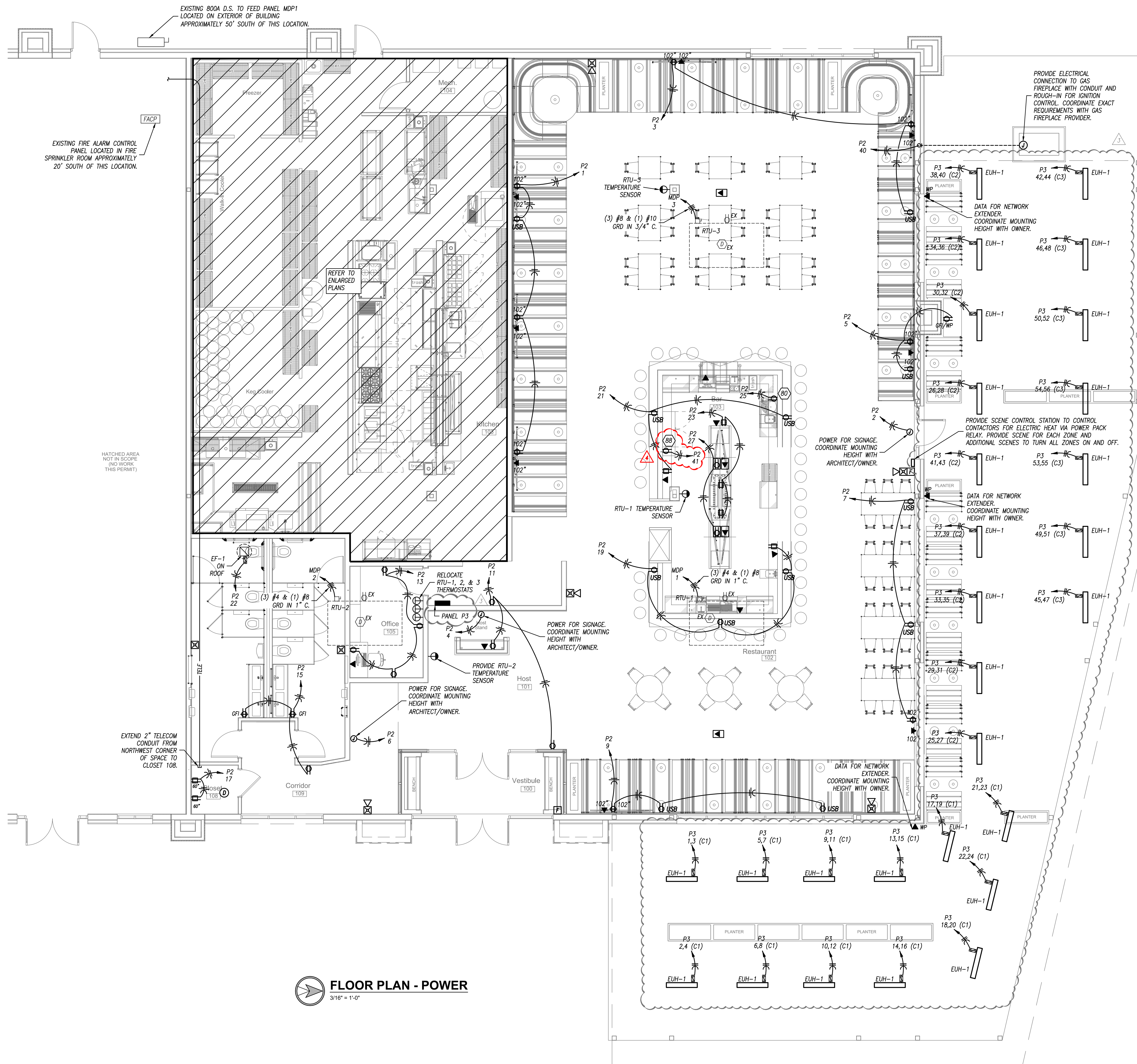
scale As Noted

date 7/23/2024

sheet title	Power Plan
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sheet number

sheet number 542



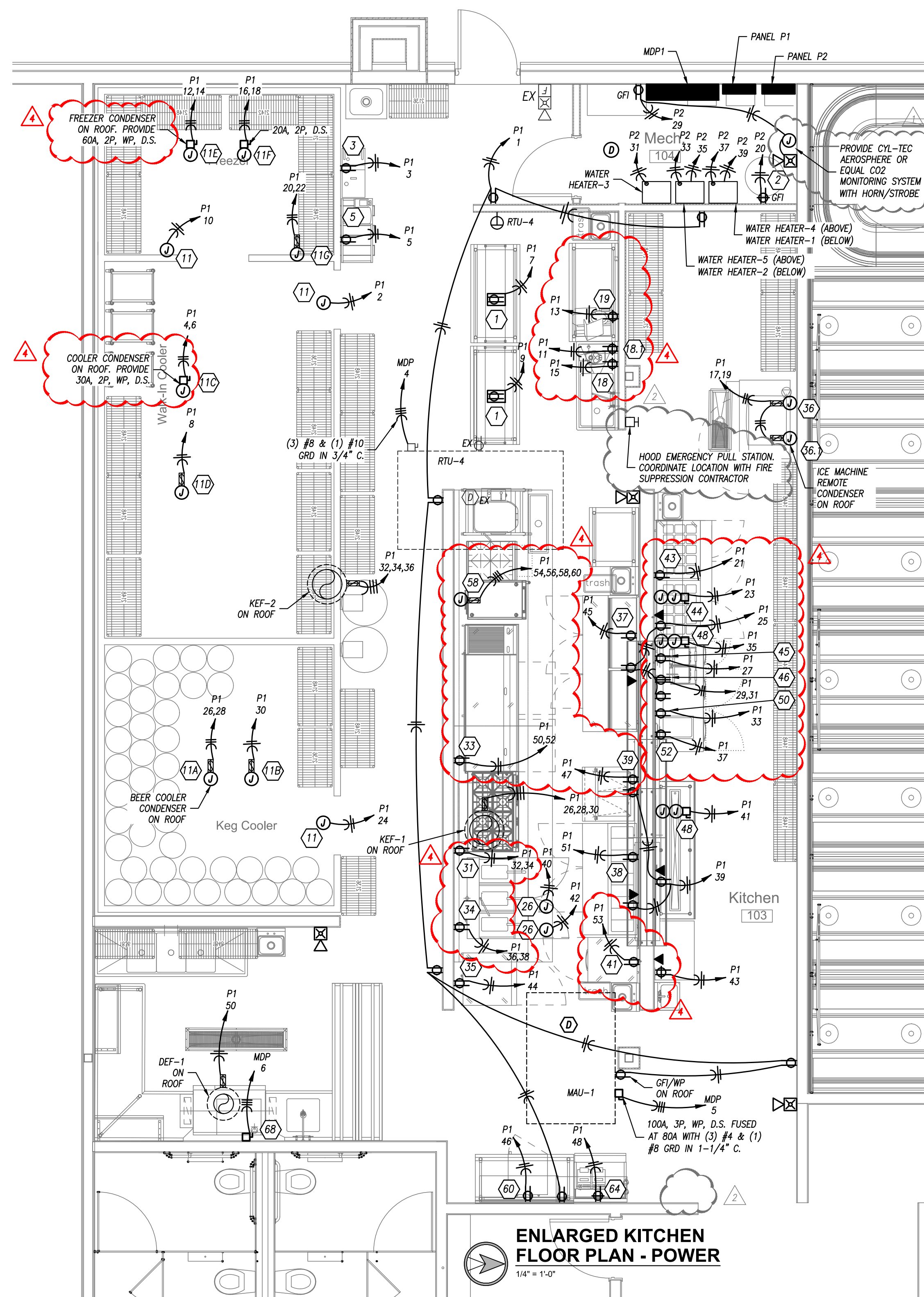
 **FLOOR PLAN - POWER**
3/16" = 1'-0"

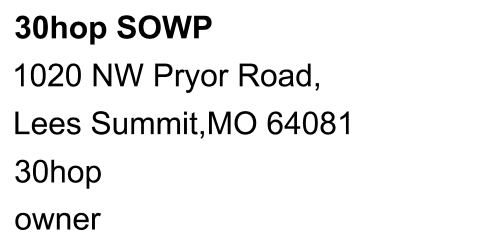
orientation	
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sheet number	

ITEM NO	QTY	EQUIPMENT DISCRPTION	AMPS	VOLTAGE/ PHASE	WIRE SIZE	HEIGHT (AFF)	NOTES
2	2	S/S WORK TABLE	15.0	120V/1#	(3) #12, 1/2"C.		
2	1	BULK CO2 TANK	15.0	120V/1#	(3) #12, 1/2"C.	48"	
3	1	PORTABLE OIL FILTER	15.0	120V/1#	(3) #12, 1/2"C.	20"	
5	1	BAG-IN-BOX SYSTEM	15.0	120V/1#	(3) #12, 1/2"C.	60"	
11	3	COOLER/FREEZER LIGHTS AND ACCESSORIES	10.0	120V/1#	(3) #12, 1/2"C.		2
1A	1	BEER COOLER CONDENSER	16.1	208V/1#	(3) #10, 3/4"C.		
11B	1	BEER COOLER COIL	15.0	120V/1#	(3) #12, 1/2"C.		
11C	1	COOLER CONDENSER	22.2	208V/1#	(3) #10, 3/4"C.		
11D	1	COOLER COIL	15.0	120V/1#	(3) #12, 1/2"C.		
11E	1	FREEZER CONDENSER	25.3	208V/1#	(2) #8 & (1) #10 GRD, 3/4"C.		
11F	1	FREEZER COIL	15.0	208V/1#	(3) #12, 3/4"C.		
11G	1	DRAIN LINE HEATER	15.0	240V/1#	(3) #12, 1/2"C.		
18	1	FOOD PROCESSOR	12.0	120V/1#	(3) #12, 1/2"C.	48"	
18	1	IMMERSION HAND MIXER	10.0	120V/1#	(3) #12, 1/2"C.	48"	
19	1	FOOD SLICER	1.4	120V/1#	(3) #12, 1/2"C.	48"	
22	1	NOT USED					
26	2	EXHAUST HOOD SYSTEM	15.0	120V/1#	(3) #12, 1/2"C.		
31	1	REFRIGERATED EQUIPMENT STAND	6.0	120V/1#	(3) #12, 1/2"C.	20"	
33	1	REFRIGERATED EQUIPMENT STAND	6.0	120V/1#	(3) #12, 1/2"C.	20"	
34	1	BATTERY FRYER	12.0	120V/1#	(3) #12, 1/2"C.	20"	
35	1	UNDERCOUNTER FREEZER	1.8	120V/1#	(3) #12, 1/2"C.	20"	
36	1	ICE MAKER	11.0	208V/1#	(3) #12, 1/2"C.	60"	
36	1	REMOTE CONDENSER	1.0	208V/1#	(3) #12, 1/2"C.		
37	1	PREP REFRIGERATOR	5.8	120V/1#	(3) #12, 1/2"C.	20"	
38	1	PREP REFRIGERATOR	6.0	120V/1#	(3) #12, 1/2"C.	20"	
39	1	HOT FOOD SERVING COUNTER	12.5	120V/1#	(3) #12, 1/2"C.	20"	
41	1	REACH IN UNDERCOUNTER FREEZER	1.8	120V/1#	(3) #12, 1/2"C.	20"	
41	1	NOT USED					
43	1	MEGA TOP PREP REFRIGERATOR	2.8	120V/1#	(3) #12, 1/2"C.	20"	
44	1	HEAT LAMP	13.3	120V/1#	(3) #12, 1/2"C.	56"	1
45	1	REFRIGERATED WORKTOP	4.8	120V/1#	(3) #12, 1/2"C.	20"	
46	1	PANNINI GRILL	13.3	240V/1#	(3) #12, 1/2"C.	42"	
46	2	HEAT LAMP	23.3	120V/1#	(3) #12, 1/2"C.	56"	1
50	1	REFRIGERATED WORKTOP	2.0	120V/1#	(3) #12, 1/2"C.	20"	
52	1	FOOD PAN WARMER	8.3	120V/1#	(3) #12, 1/2"C.	48"	
58	1	MULTICOOK OVEN	28.0	208V/3#	(3) #8 & (1) #10 GRD, 1"C.	48"	
60	1	UNDERCOUNTER REFRIGERATOR	2.3	120V/1#	(3) #12, 1/2"C.	20"	
64	1	SOAD DISPENSER	2.4	120V/1#	(3) #12, 1/2"C.	60"	
68	1	DISHWASHER	111.3	208V/3#	(3) #1/0 & (1) #6 GRD, 2"C.	20"	
80	1	UNDERCOUNTER DISHWASHER	3.5	120V/1#	(3) #12, 1/2"C.	20"	
88	1	REFRIGERATED BACK BAR CABINET	7.0	120V/1#	(3) #12, 1/2"C.	20"	

REMARKS:

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orientation

project number 232882

scale	As Noted
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date 7/23/2024

sheet title Panelboard Schedules

sheet number

L502

PANELBOARD SIZING LOAD				CONNECTED PHASE LOADS		
LOAD DESCRIPTION	CONNECTED	DEMAND	CODE MIN. (VA)	PHASE	VA	AMPS
LIGHTS	4,520	1.25	5,650	A	11,640	96.9
RECEPTACLES	11,460	10KVA + 50% REST	10,730	B	8,600	71.6
MOTORS	7,910	<i>*LARGEST % SUM OF REC</i>	8,833	C	10,070	83.9
AIR CONDITIONING	0	1.00	0	TOTALS	30,310	84.1
SPACE HEATING	0	0.00	0			
HEAT PUMP	0	1.00	0			
CONTINUOUS	0	1.25	0			
NON-CONTINUOUS	6,420	1.00	6,420			
MISC. LOADS 1	0	1.00	0			
SIZING LOAD:			31,633			
SIZING LOAD (AMPS):			88			

PANELBOARD SIZING LOAD				CONNECTED PHASE LOADS		
LOAD DESCRIPTION	CONNECTED	DEMAND	CODE MIN. (VA)	PHASE	VA	AMPS
LIGHTS	0	1.25	0	A	22,880	190.5
RECEPTACLES	2,520	10KVA + 50% REST	2,520	B	23,080	192.2
MOTORS	0	<i>* (LARGEST + SUM OF RES)</i>		C	32,440	270.1
AIR CONDITIONING	0	1.00	0	TOTALS	78,400	217.6
SPACE HEATING	0	0.00	0			
HEAT PUMP	0	1.00	0			
CONTINUOUS	0	1.25	0			
NON-CONTINUOUS	36,660	1.00	36,660			
MISC. LOADS 1	0	1.00	0			
SIZING LOAD:			64,673			
SIZING LOAD (AMPS):			180			

PANEL DESIGNATION: P3				CIRCUIT #	MAIN LUG AMPS: 400				SCCR RATING (AIC): 22,000			
MOUNTING: SURFACE					MAIN BREAKER: M.L.O.				VOLTAGE: 208/120			
LOCATION: CORRIDOR					PHASE/WIRE: 3Ø, 4W							
DESCRIPTION		PHASE			C/B		C/B		PHASE		DESCRIPTION	
	A	B	C	TRIP	POLE			A	B	C		
ELECTRIC HEATER	1730			20	2	1	2	2	20	1730	ELECTRIC HEATER	
-		1730		-	-	3	4	-	-	1730	-	
ELECTRIC HEATER			1730	20	2	5	6	2	20		1730	
-	1730			-	-	7	8	-	-	1730	-	
ELECTRIC HEATER		1730		20	2	9	10	2	20		1730	
-			1730	-	-	11	12	-	-		1730	
ELECTRIC HEATER	1730			20	2	13	14	2	20	1730	ELECTRIC HEATER	
-		1730		-	-	15	16	-	-	1730	-	
ELECTRIC HEATER			1730	20	2	17	18	2	20		1730	
-	1730			-	-	19	20	-	-	1730	-	
ELECTRIC HEATER		1730		20	2	21	22	2	20		1730	
-			1730	-	-	23	24	-	-		1730	
ELECTRIC HEATER	1730			20	2	25	26	2	20	1730	ELECTRIC HEATER	
-		1730		-	-	27	28	-	-	1730	-	
ELECTRIC HEATER			1730	20	2	29	30	2	20		1730	
-	1730			-	-	31	32	-	-	1730	-	
ELECTRIC HEATER		1730		20	2	33	34	2	20		1730	
-			1730	-	-	35	36	-	-		1730	
ELECTRIC HEATER	1730			20	2	37	38	2	20	1730	ELECTRIC HEATER	
-		1730		-	-	39	40	-	-	1730	-	
ELECTRIC HEATER			1730	20	2	41	42	2	20		1730	
-	1730			-	-	43	44	-	-	1730	-	
ELECTRIC HEATER		1730		20	2	45	46	2	20		1730	
-			1730	-	-	47	48	-	-		1730	
ELECTRIC HEATER	1730			20	2	49	50	2	20	1730	ELECTRIC HEATER	
-		1730		-	-	51	52	-	-		-	
ELECTRIC HEATER			1730	20	2	53	54	2	20		1730	
-	1730			-	-	55	56	-	-	1730	-	
SPACE		-	-	-	1	57	58	1	-		SPACE	
SPACE			-	-	1	59	60	1	-		SPACE	
TOTALS	17300	15570	15570							17300	15570	TOTALS

PANELBOARD SIZING LOAD			
LOAD DESCRIPTION	CONNECTED	DEMAND	CODE MIN. (VA)
LIGHTS	0	1.25	0
RECEPTACLES	0	10KVA + 50% REST	0
MOTORS	0	<i>* LARGEST * SUM OF REMAINING</i>	0
AIR CONDITIONING	0	0.00	0
SPACE HEATING	96,880	1.00	96,880
HEAT PUMP	0	1.00	0
CONTINUOUS	0	1.25	0
NON-CONTINUOUS	0	1.00	0
MISC. LOADS 1	0	1.00	0
SIZING LOAD:			96,880
SIZING LOAD (AMPS):			269

CONNECTED PHASE LOADS		
PHASE	VA	AMPS
A	34,600	288.1
B	31,140	259.3
C	31,140	259.3
TOTALS	96,880	268.9

REMARKS:
1. EATON POW-R-LINE 2X OR EQUAL