

SANITATION COMMENTS $1 \ 05/07/19$ CITY COMMENTS

 $2 \ 05/08/19$

CITY COMMENTS $\sqrt{3}$ 06/18/19

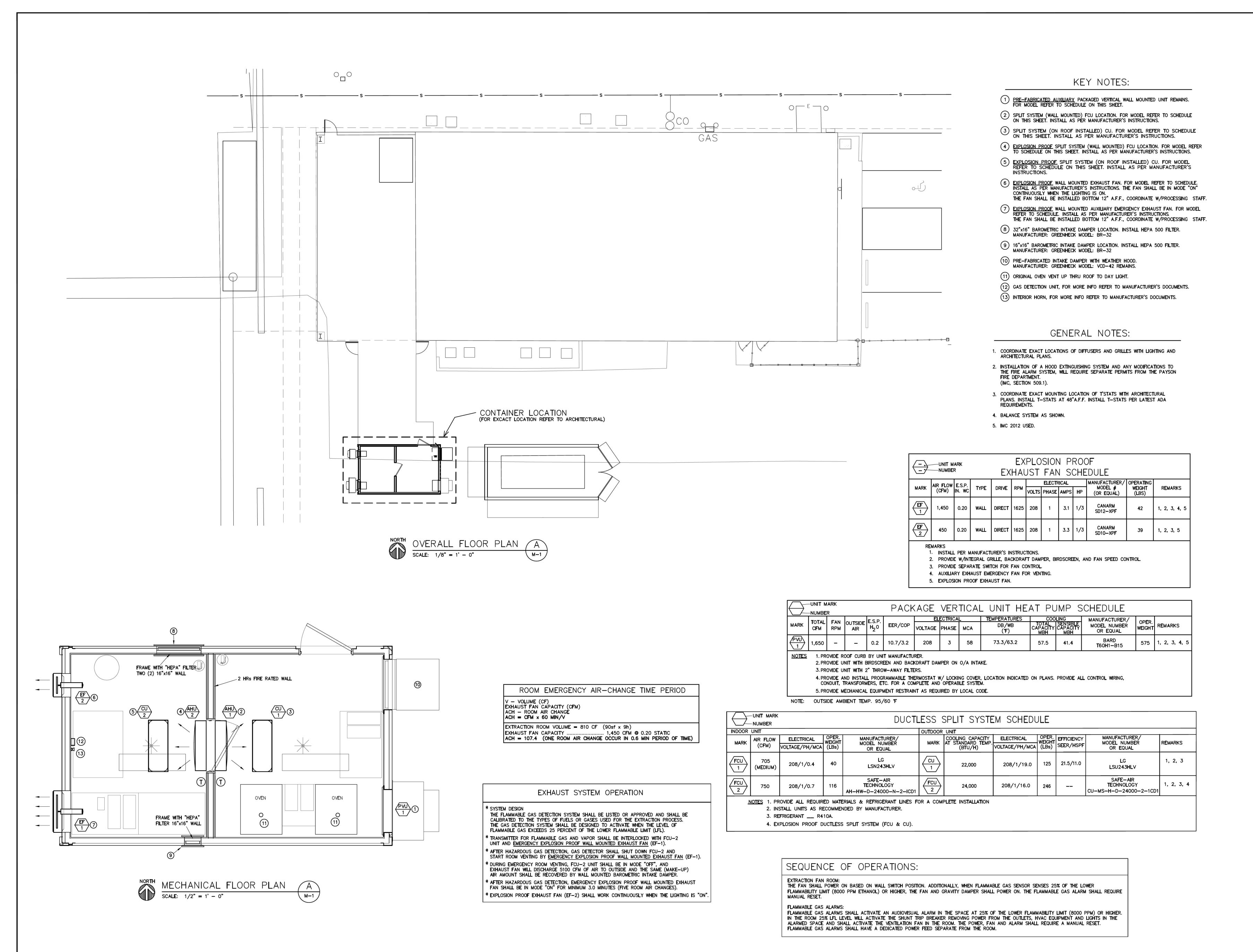
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SITE PLAN PHASE 1

A020

PROJECT NUMBER: 2019-12 4/19/2019



727 E BETHANY HOME RD - SUITE D22 PHOENIX ARIZONA 85014 (P) 602-368-9375 (F) 602-368-9380



Voice: (602) 758 6088
Fax: (602) 266 2534
Email: engrs@mgmech.com

ENGINEERING, LLC Electronic copy of final design document originally sealed by registered mechanical engineer. There shall be no deviation from these drawings or any accompanying specifications without written

consent of the engineer. PROJECT HANGE: MG18-79

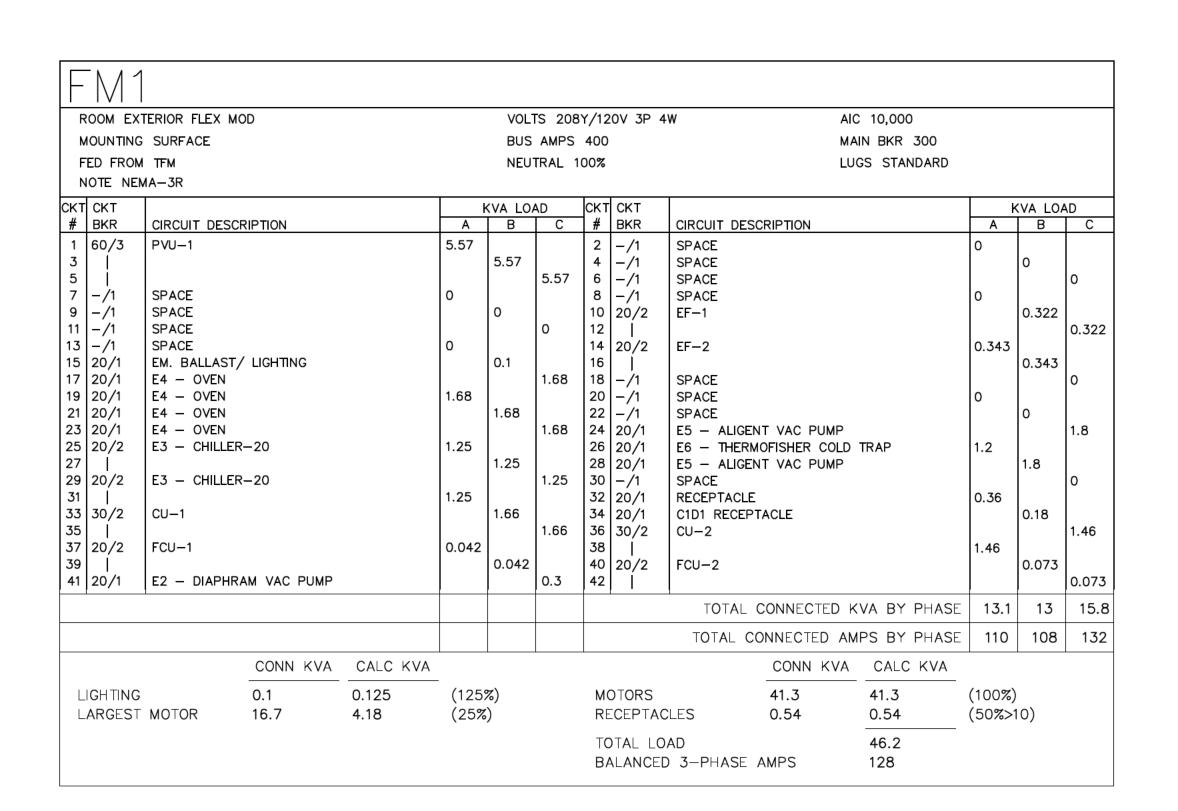
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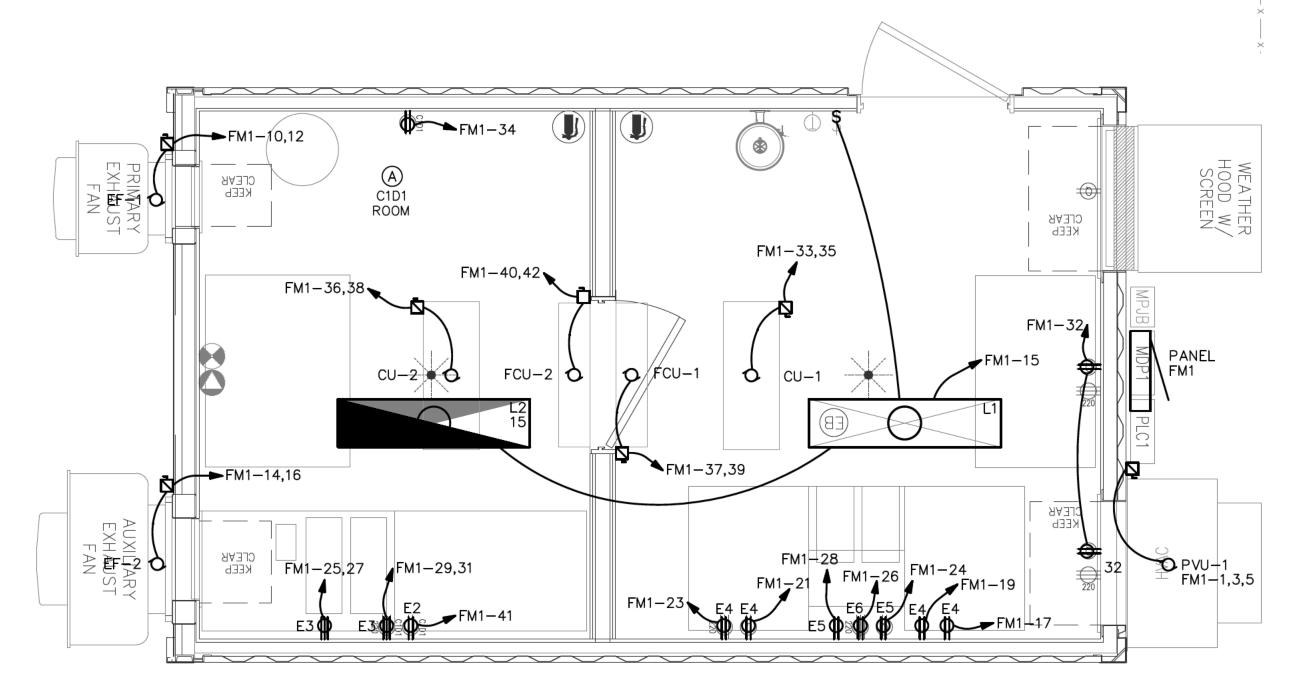
SHEET TITLE: MECHANICAL FLOOR PLAN

SHEET NUMBER:

REVIEWED BY:

PROJECT NUMBER: 4/19/2019 2019-12







POWER GENERAL NOTES

- A. ALL EXTERIOR DISCONNECTS SHALL BE W.P. TYPE.
- B. ALL RECEPTACLES WITHIN 6'-0" OF A SINK TO BE GFCI RATED.
- C. REFER TO MECHANICAL AND PLUMBING PLANS FOR EXACT SIZE, LOCATION, AND ELECTRICAL REQUIREMENTS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT.
- D. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL CONNECTION REQUIREMENTS (HP, AMPS, VOLTAGE, PHASE, MOUNTING HEIGHT, AND DISCONNECTING MEANS) FOR ALL EQUIPMENT SUPPLIED BY OTHERS BEFORE ROUGH—IN. DISCONNECT SWITCHES SHALL BE LOCATED WITH NEC CODE CLEARANCE OR PROVIDE LOCKOUT TYPE C/B.
- E. ELECTRICAL CONTRACTOR RESPONSIBLE FOR COORDINATING EXACT LOCATION, QUANTITIES, AND INSTALLATION REQUIREMENTS OF ELECTRICAL EQUIPMENT IN MILL WORK.
- F. ALL EXTERIOR RECEPTACLES SHALL BE W.P./GFCI TYPE.
- G. ALL ELECTRICAL PANEL BOARDS SHALL MAINTAIN 3'-0" INFRONT WORKING CLEARANCE REFER TO ONE-LINE FOR DETAILS.
- H. ELECTRICAL CONTRACTOR SHALL PROVIDE #6 COPPER GROUND TO ANY NEW METAL GAS PIPE SYSTEMS PER NEC 250.
- CONDUIT AND WIRING SHOWN FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROVIDE THE NUMBER OF CONDUCTORS REQUIRED FOR HOT-LEGS, NEUTRAL, AND GROUNDING AT EACH DEVICE FOR PROPER BRANCH CIRCUITING SHOWN FOR EACH AREA OR ROOM.

MECHANICAL GENERAL NOTES

- A. VERIFY ALL MECHANICAL UNIT LOCATIONS WITH MECHANICAL PLANS.
- B. THE ELECTRICAL CONTRACTOR SHALL NOT MOUNT DISCONNECT EQUIPMENT DIRECTLY TO MECHANICAL UNITS FOR DISCONNECTS 200A AND LARGER. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A SELF—SUPPORTING SYSTEM FOR DISCONNECT EQUIPMENT.
- C. PROVIDE WEATHERPROOF, HEAVY DUTY, NEMA 3R FUSIBLE DISCONNECT SWITCHES FOR ALL MECHANICAL UNITS LOCATED OUTSIDE.
- D. ALL EXTERIOR RECEPTACLES SHALL BE WEATHER RESISTANT GFCI (PASS & SEYMOUR 2095DSWRBK OR EQUAL), INSTALLED IN A WEATHERPROOF ENCLOSURE WITH A WHILE IN USE COVERPLATE (PASS & SEYMOUR #WIUC10DCL OR EQUAL).
- E. EXHAUST FANS MOUNTED OUTSIDE SHALL HAVE A WEATHERPROOF DISCONNECT MOUNTED EXTERIOR TO THE UNIT. INTERNAL DISCONNECT SWITCHES SHALL NOT BE ALLOWED.

HAZARDOUS AREA NOTE

A. ALL ELECTRICAL DEVICES/WIRING WITHIN WORK ROOM ADJACENT TO EXTRACTION ROOM SHALL COMPLY WITH CEC ARTICLE 501 CLASS 1 DIVISION 2 HAZARDOUS AREA WHERE FIRE OR EXPLOSION HAZARDS MAY EXIST DUE TO FLAMMABLE GASSES OR VAPORS OR FLAMMABLE LIQUIDS

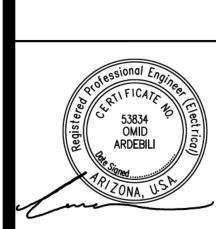
MECHANICAL EQUIPMENT SCHEDULE												
CALLOUT	DESCRIPTION	SYMBOL	VOLTS	FLA	MCA	MOCP	CIRCUIT	WIRE CALLOUT	NOTE 1			
CU-1	OUTDOOR UNIT	∞ 2i	208V 2P 2W	16	19	30	FM1-33,35	3/4"C,2#10,#10G	PROVIDE 30A/2P NEMA-3R DISC. SWITCH FUSED PER UNIT NAMEPLATE.			
CU-2	OUTDOOR UNIT	∞ 2i	208V 2P 2W	14	16	30	FM1-36,38	3/4"C,2#10,#10G	PROVIDE 30A/2P NEMA-3R DISC. SWITCH FUSED PER UNIT NAMEPLATE.			
EF-1	EXHAUST FAN	∞ 2	208V 2P 2W	3.1		20	FM1-10,12	3/4"C,2#12,#12G	PROVIDE 30A/2P NEMA-3R DISC. SWITCH FUSED PER UNIT NAMEPLATE.			
EF-2	EXHAUST FAN	∞ 2i	208V 2P 2W	3.3		20	FM1-14,16	3/4"C,2#12,#12G	PROVIDE 30A/2P NEMA-3R DISC. SWITCH FUSED PER UNIT NAMEPLATE.			
FCU-1	INDOOR UNIT	∞ 2i	208V 2P 2W		0.4	20	FM1-37,39	3/4"C,2#12,#12G	PROVIDE 30A/2P NEMA-1 DISC. SWITCH FUSED PER UNIT NAMEPLATE.			
FCU-2	INDOOR UNIT	∞ □	208V 2P 2W		0.7	20	FM1-40,42	3/4"C,2#12,#12G	PROVIDE 30A/2P NEMA-1 DISC. SWITCH FUSED PER UNIT NAMEPLATE.			
PVU-1	PACKAGE VERTICAL UNIT HEAT PUMP	∞ 2i	208V 3P 3W	46.4	58	60	FM1-1,3,5	1"C,3#4,#10G	PROVIDE 60A/3P NEMA-3R DISC. SWITCH FUSED PER UNIT NAMEPLATE.			

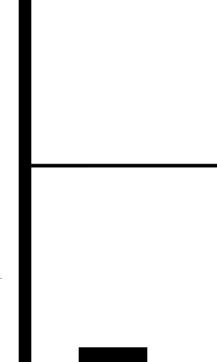
GENERAL EQUIPMENT SCHEDULE										
CALLOUT	DESCRIPTION	SYMBOL	VOLTS	CALCULATED AMPS	МОСР	WIRE CALLOUT				
E 2	DIAPHRAM VAC PUMP	Ф	120V 1P 2W	2.5	20	3/4"C,2#12,#12G				
E3	CHILLER-20	₩	208/120V 2P 3W	12	20	3/4"C,3#12,#12G				
E 3	CHILLER-20	₩	208/120V 2P 3W	12	20	3/4"C,3#12,#12G				
E 4	OVEN	Ф	120V 1P 2W	14	20	3/4"C,2#12,#12G				
E5	ALIGENT IDP SCROLL VAC PUMP	Ф	120V 1P 2W	15	20	3/4"C,2#12,#12G				
E5	ALIGENT IDP SCROLL VAC PUMP	Ф	120V 1P 2W	15	20	3/4"C,2#12,#12G				
E6	THERMOFISHER RVT400 COLD TRAP	Ф	120V 1P 2W	10	20	3/4"C,2#12,#12G				

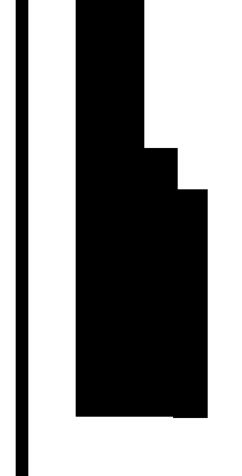
CONTAINER LOCATION (SEE ENLARGED PLAN PER THIS SHEET)



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