

1 2 3 4 5 6 7 8 9 10

DUCTLESS AIR CONDITIONER OUTDOOR UNIT SCHEDULE

SYMBOL	LOCATION	REFRIGERANT TYPE	COOLING		OUTDOOR UNIT		FEATURES
			TOTAL CAPACITY (BTU)	SENSIBLE CAPACITY (BTU)	MCA (AMPS) SEE NOTE 2	V/PH	
CU-1	SEE PLAN	R410A	168,000		12/15	460/3	MITSUBISHI PUHY-P168YSKMU-A INVERTER POWERED COMPRESSOR PROVIDE LOW AMBIENT KIT FOR COOLING TO -10°F
CU-2	SEE PLAN	R410A	168,000		12/15	460/3	MITSUBISHI PUHY-P168YSKMU-A INVERTER POWERED COMPRESSOR PROVIDE LOW AMBIENT KIT FOR COOLING TO -10°F
CU-2	SEE PLAN	R410A	168,000		12/15	460/3	MITSUBISHI PUHY-P168YSKMU-A INVERTER POWERED COMPRESSOR PROVIDE LOW AMBIENT KIT FOR COOLING TO -10°F

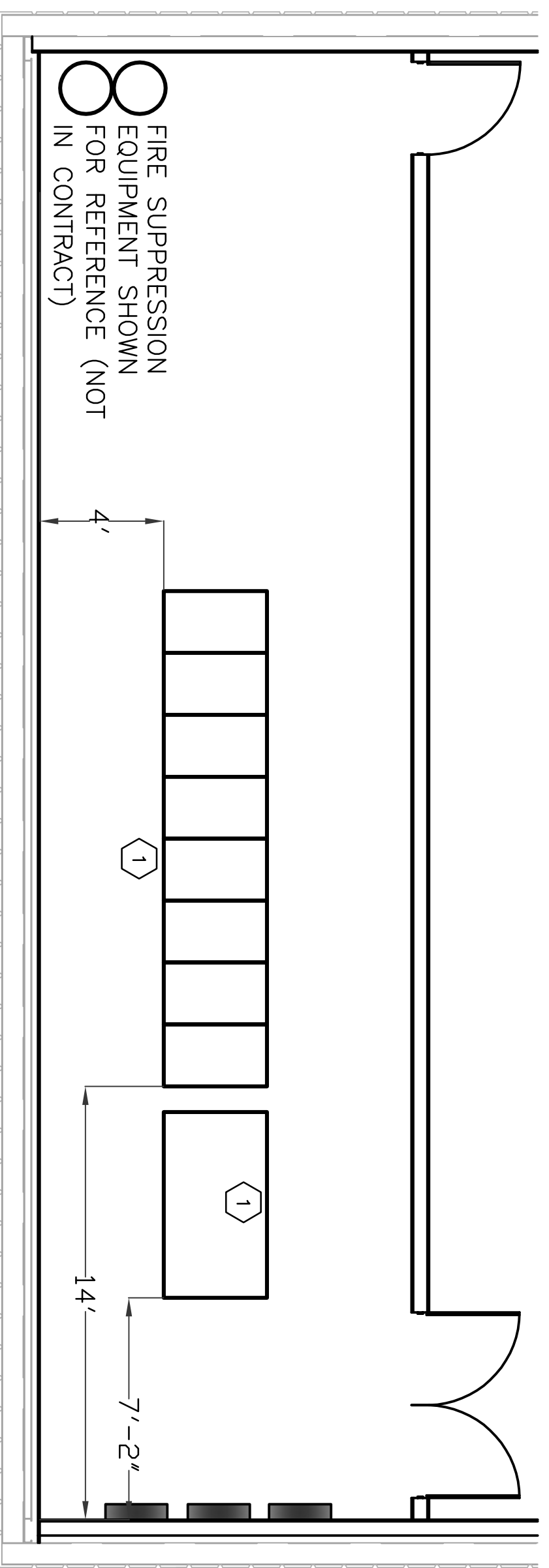
NOTES:

- ELECTRICAL POWER BY OWNER. OUTDOOR UNITS REQUIRE 480V, 3PH, INSIDE UNITS REQUIRE 208V, 1 PH.
- EACH OUTSIDE UNIT IS A COMBINATION OF TWO UNITS, EACH REQUIRING A SEPARATE ELECTRICAL CONNECTION.
- SUPPORT EACH INDOOR UNIT WITH SPRING HANGERS AND RODS, MASON INDUSTRIES SERIES 30N, SIZE X33, THERE ARE FOUR SPRING HANGERS REQUIRED PER UNIT.
- MOUNT OUTDOOR UNITS WITH VIBRATION ISOLATION PADS AT BASE.

DUCTLESS AIR CONDITIONER (AC) INDOOR UNIT SCHEDULE

SYMBOL	ROOM LOCATION	TYPE	COOLING		INDOOR UNIT		MFR/MODEL	FEATURES
			TOTAL CAPACITY (BTU)	SENSIBLE CAPACITY (BTU)	MCA (AMPS)	V/PH		
AC-1	SUPPORT	CLG MOUNT	77,576	71,381	4.89	208/1	MITSUBISHI PEY-P96NMHSU-E	PROVIDE WITH FBH4-4B FILTER BOX AND FILTERS.
AC-2	SUPPORT	CLG MOUNT	77,576	71,381	4.89	208/1	MITSUBISHI PEY-P96NMHSU-E	PROVIDE WITH FBH4-4B FILTER BOX AND FILTERS.
AC-3	SUPPORT	CLG MOUNT	77,576	71,381	4.89	208/1	MITSUBISHI PEY-P96NMHSU-E	PROVIDE WITH FBH4-4B FILTER BOX AND FILTERS.
AC-4	SUPPORT	CLG MOUNT	77,576	71,381	4.89	208/1	MITSUBISHI PEY-P96NMHSU-E	PROVIDE WITH FBH4-4B FILTER BOX AND FILTERS.
AC-5	ELECTRONICS	CLG MOUNT	77,576	71,381	4.89	208/1	MITSUBISHI PEY-P96NMHSU-E	PROVIDE WITH FBH4-4B FILTER BOX AND FILTERS.
AC-6	ELECTRONICS	CLG MOUNT	77,576	71,381	4.89	208/1	MITSUBISHI PEY-P96NMHSU-E	PROVIDE WITH FBH4-4B FILTER BOX AND FILTERS.

- (g) PROVIDE CONDENSATE DRAIN PIPING WITH P-TRAP AND DRAIN TO GROUND.
 (h) PROVIDE THERMOSTATIC CONTROL TO OPERATE ALL RUNNING UNITS ON SINGLE ROOM SENSOR. USERS SHALL BE ABLE TO SELECT THE OPERATING UNITS.
 (i) ALL UNITS EER=12.6, COP=3.78.
 (d) ALL UNITS SUCTION=7/8", LIQUID=1/8".

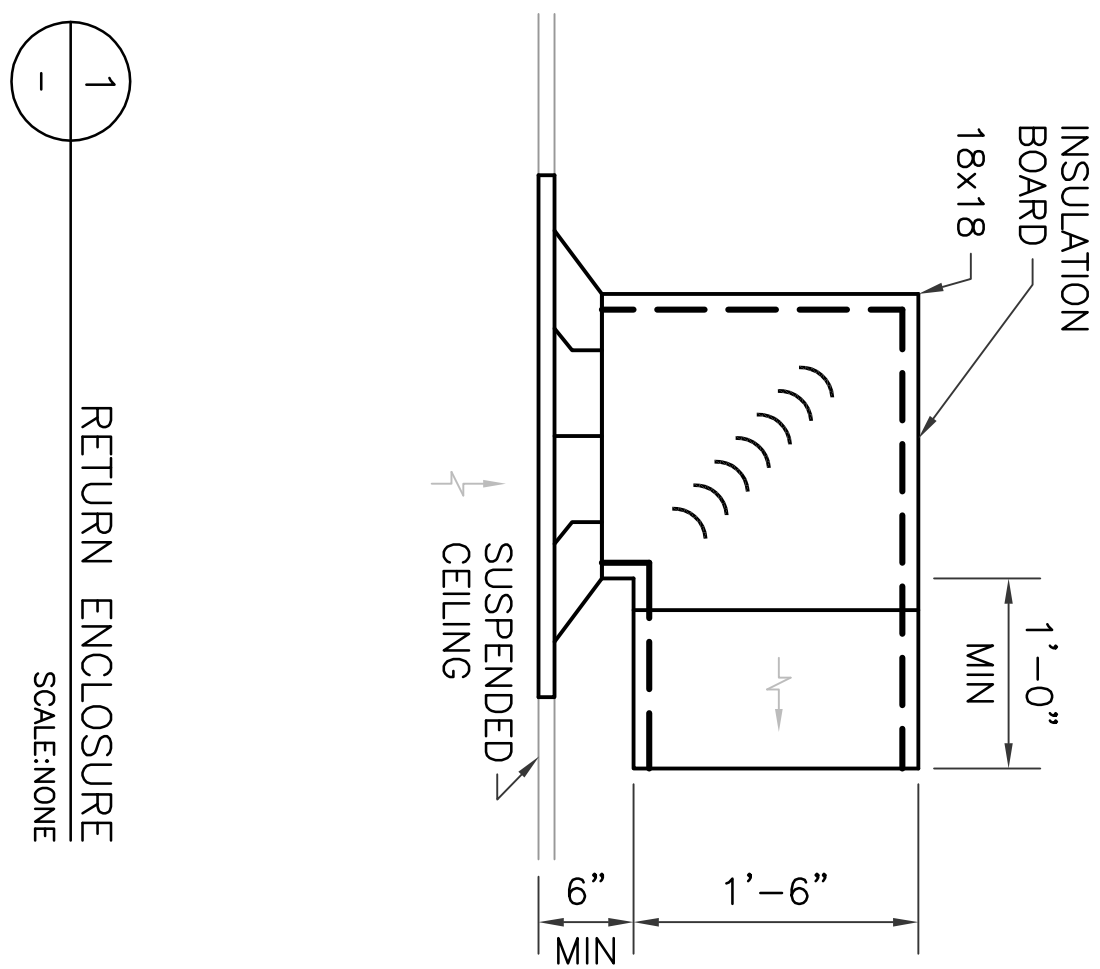


GRILLE, REGISTER AND DIFFUSER SCHEDULE

SYMBOL	TYPE	FLOW (CFM)	MOUNTING	SIZE	MATERIAL	FINISH	DAMPER	MFR/MODEL	FEATURES
1	SPLY DIFFUSER	SEE PLAN	PLENUM	SEE PLAN	ALUMINIUM	WHITE BAKED ENAMEL	YES	TTUS 112RS	PROVIDE WITH OPPOSED BLADE DAMPER
2	SPLY DIFFUSER	SEE PLAN	DUCT	SEE PLAN	ALUMINIUM	WHITE BAKED ENAMEL	NO	TTUS 112RS	
3	RETURN GRILLE	SEE PLAN	SUSPENDED CEILING	SEE PLAN	ALUMINIUM	WHITE BAKED ENAMEL	NO	TTUS 90F	

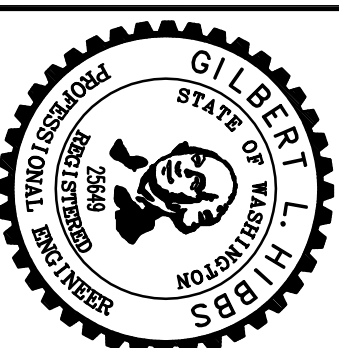
GENERAL NOTES

- ELECTRICAL:
- PROVIDE ELECTRICAL WORK IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC, AND IN ACCORDANCE WITH STATE AND LOCAL JURISDICTIONS.
 - IDENTIFY AND LOCATE AVAILABLE CIRCUITS AS DIRECTED BY OWNERS ELECTRICAL REPRESENTATIVE.
- MECHANICAL:
- PROVIDE MECHANICAL WORK IN ACCORDANCE WITH THE LATEST EDITION OF THE IBC, UPC, IMC, AND SMACNA STANDARDS.
 - MECHANICAL WORK SHOWN IS DIAGRAMMATIC. PROVIDE OFFSETS, TRANSITIONS, AND OTHER DUCTWORK AND ASSOCIATED CONSTRUCTION WHERE REQUIRED TO AVOID BUILDING STRUCTURAL ELEMENTS OR THE WORK OF OTHER TRADES.
 - INSTALL DUCTWORK TO MAINTAIN SERVICE CLEARANCES AND ACCESS DOOR CLEARANCES AT ALL EQUIPMENT.
 - ALL PENETRATIONS AND SLEEVES THRU FLOORS/WALLS SHALL BE SEALED WEATHERTIGHT.



CONSTRUCTION NOTES

- LOCATE EQUIPMENT RACKS AS SHOWN. THE ROOM DESIGN ASSUMES 40"x24" RACKS AND A 40"x72" TAPE DRIVE/LIBRARY.



DRAWN BY: GLH	DESIGN A/E	DESIGN GM
CHECKED BY:	HEI APPROVAL	

PROJECT NUMBER: 1071.010		CAD FILE: 107101A01.DWG
--------------------------	--	-------------------------

LIGO HANFORD OBSERVATORY
 DRAWING: LIGO-D10400307-V1

HIBBS ENGINEERING, INC.
 KENNEWICK, WASHINGTON

307	VI
-----	----