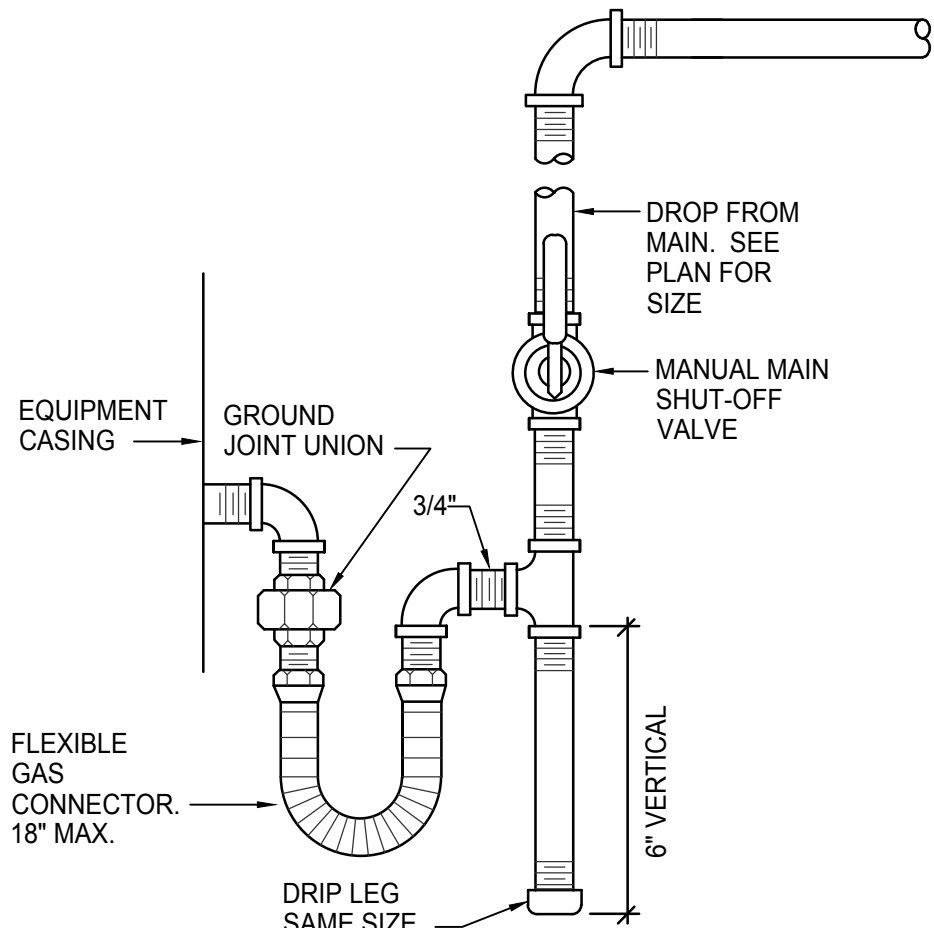
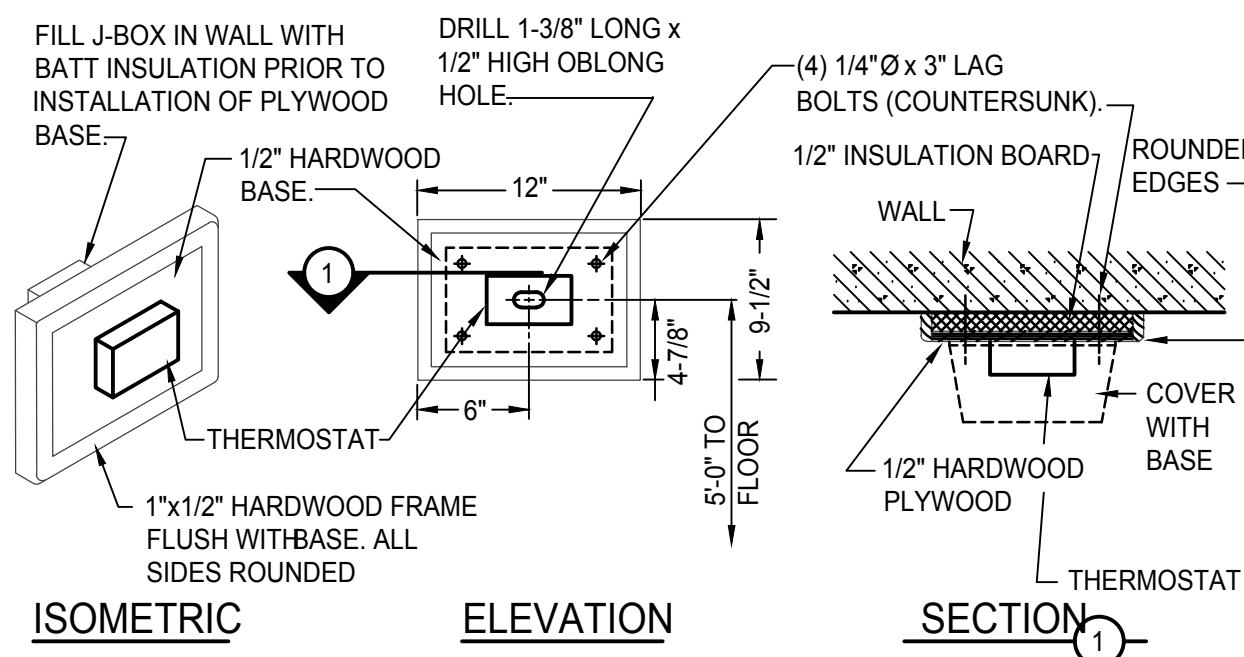


\\esa.local\l-Drive\2121041 LDS Soda Springs\21041 LDS Soda Springs.dwg Feb 28, 2023 - 8:04am

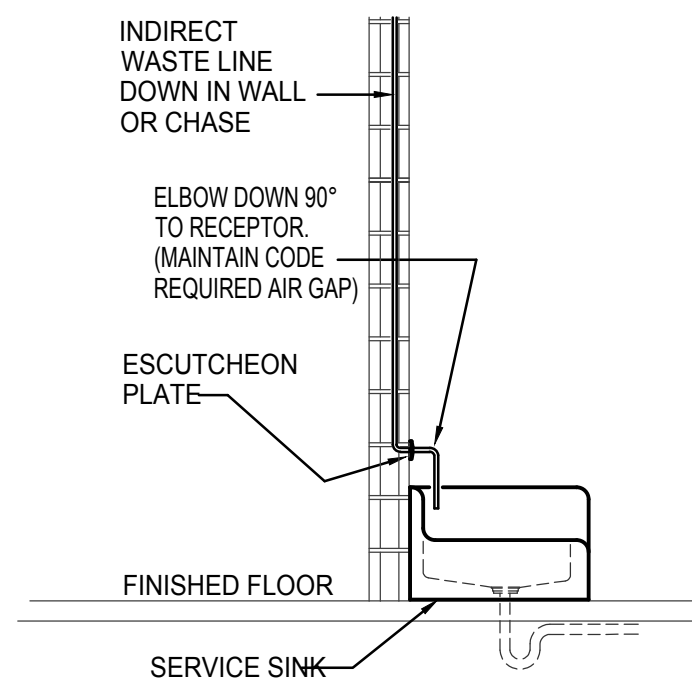


L GAS LINE CONNECTION DETAIL
NO SCALE

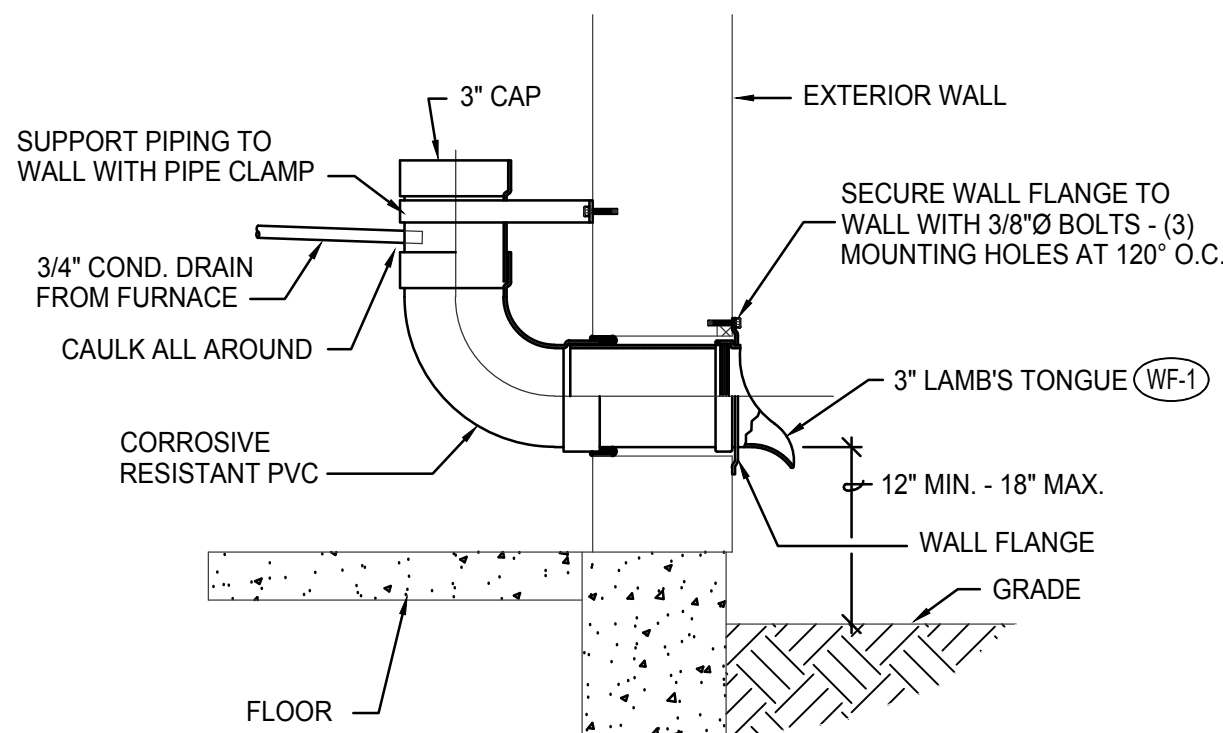
- NOTES:
- 1- FINISH OF HARDWOOD FRAME AND HARDWOOD PLYWOOD PANEL TO MATCH OTHER WOOD TRIM OF FRAMES.
 - 2- SEE MECHANICAL SHEETS FOR LOCATIONS OF THERMOSTATS.



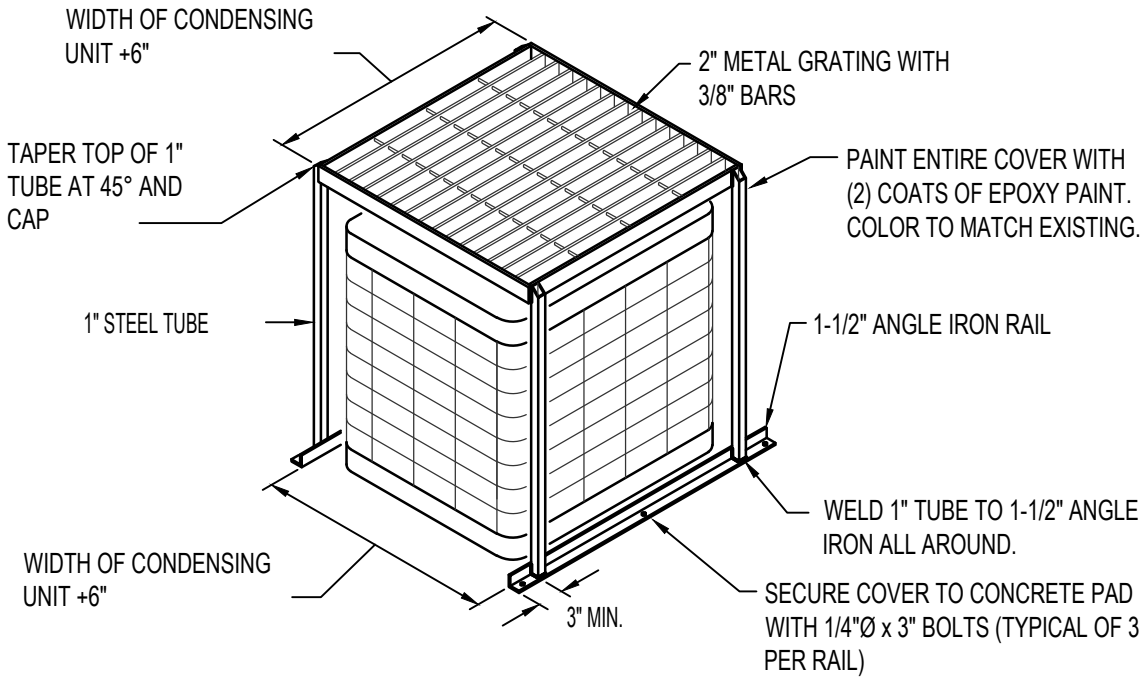
M INSULATED BASE FOR THERMOSTAT
NO SCALE



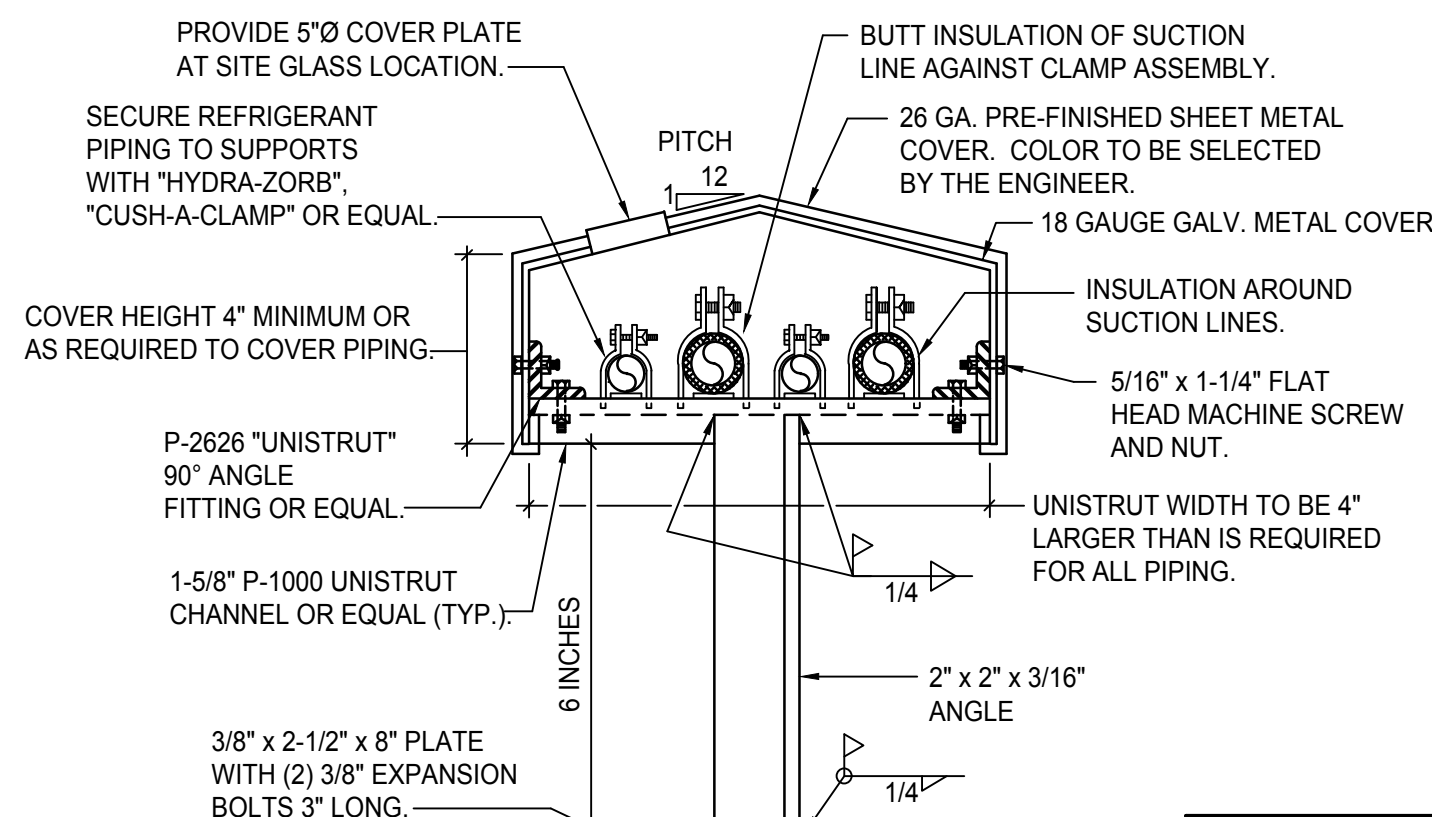
N INDIRECT DRAIN DETAIL
NO SCALE



O CONDENSATE DRAIN DETAIL
NO SCALE



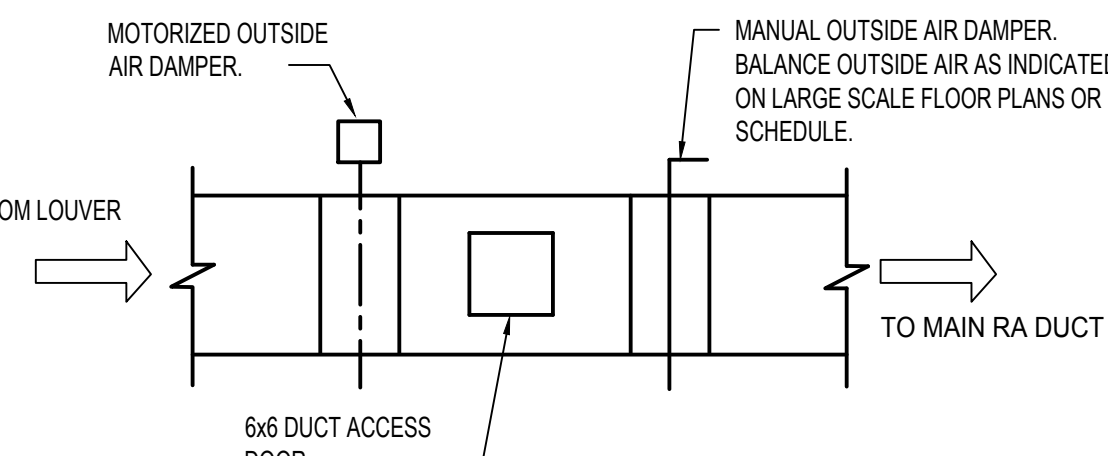
CONDENSING UNIT COVER DETAIL
NO SCALE



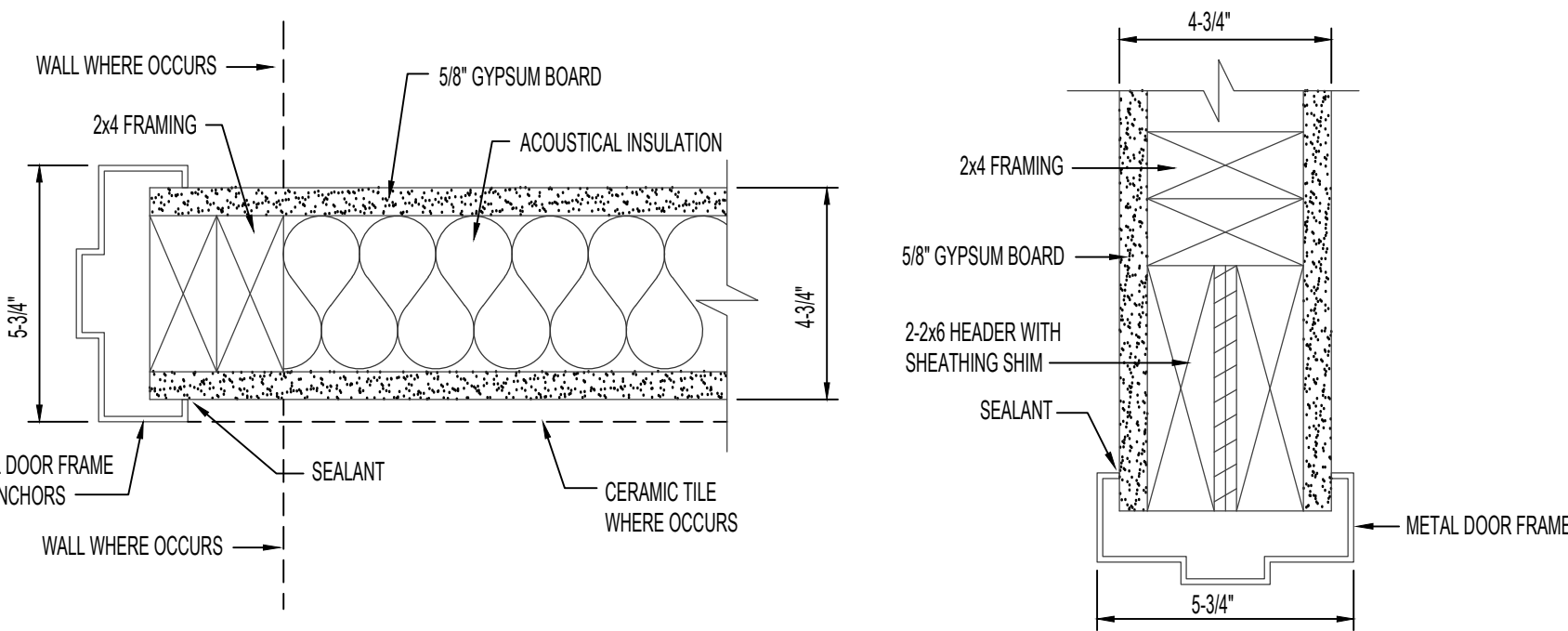
NOTE:
PAINT ANGLE SUPPORTS
TO MATCH BUILDING FACE
BRICK COLOR (TYPICAL).

NOTE:
RUN STEEL COVER CONTINUOUS
FROM CONDENSING UNITS TO
RISERS OR PENETRATIONS
AT BUILDING WALL.

P REFRIGERANT PIPE SUPPORT DETAIL
NO SCALE



Q TYPICAL OUTSIDE AIR DUCT DETAIL
NO SCALE



JAMB A
SCALE: 3" = 1'-0"

HEAD B
SCALE: 3" = 1'-0"

R MECH ROOM DOOR, WALL, AND FUR-OUT DETAILS
NO SCALE

FURNACE AND DX COOLING COIL SCHEDULE

SYM.	TYPE	C.F.M.	SP _E	SPEED ②	H.P.	CHAR.	A.G.A.			E.A.T.	L.A.T.	GAS TYPE	DX COOLING COIL				PIPING SIZES						REMARKS ①
							INPUT	OUTPUT	@ ELEV.				B.T.U.	E.A.T.	L.A.T.	MAX P.D.	LIQUID	SUCTION	C.D.	GAS	INTAKE	EXHAUST	
F 2	UP-FLOW	1600	.5	MED	.75	120/60/1	110,000	105,000	77,250	65°F	107°F	NAT.	49,000	75°F	55°F	.25"	3/8"	7/8"	3/4"	3/4"	2" PVC	2" PVC	LENNOX EL296UH110XV60C WITH FULLY CASER R-410A DX COIL TO MATCH UP-FLOW FURNACE AND HORIZONTAL VENT TERMINAL ASSEMBLY.
F 3	UP-FLOW	1995	.5	MED	1	120/60/1	110,000	106,000	77,250	65°F	107°F	NAT.	61,500	75°F	55°F	.25"	3/8"	1-1/8"	3/4"	3/4"	2" PVC	2" PVC	LENNOX EL296UH110XV60C WITH FULLY CASER R-410A DX COIL TO MATCH UP-FLOW FURNACE AND HORIZONTAL VENT TERMINAL ASSEMBLY.
F 4	UP-FLOW	1995	.5	MED	1	120/60/1	110,000	106,000	77,250	65°F	107°F	NAT.	61,500	75°F	55°F	.25"	3/8"	1-1/8"	3/4"	3/4"	2" PVC	2" PVC	LENNOX EL296UH110XV60C WITH FULLY CASER R-410A DX COIL TO MATCH UP-FLOW FURNACE AND HORIZONTAL VENT TERMINAL ASSEMBLY.
F 5	UP-FLOW	1995	.5	MED	1	120/60/1	110,000	106,000	77,250	65°F	107°F	NAT.	61,500	75°F	55°F	.25"	3/8"	1-1/8"	3/4"	3/4"	2" PVC	2" PVC	LENNOX EL296UH110XV60C WITH FULLY CASER R-410A DX COIL TO MATCH UP-FLOW FURNACE AND HORIZONTAL VENT TERMINAL ASSEMBLY.
F 6	UP-FLOW	1200	.5	MED	.75	120/60/1	88,000	85,000	77,250	65°F	107°F	NAT.	35,200	75°F	55°F	.25"	3/8"	7/8"	3/4"	3/4"	2" PVC	2" PVC	LENNOX EL296UH090XV48C WITH FULLY CASER R-410A DX COIL TO MATCH UP-FLOW FURNACE AND HORIZONTAL VENT TERMINAL ASSEMBLY.

- ① SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS.
② SPEED AS LOW AS POSSIBLE TO ACHIEVE PROPER AIRFLOW.

DUCTED FURNACE SCHEDULE (GAS)

SYM.	TYPE	DESIGN CFM	F.A. CFM	SP _e	FLA	CHAR.	WEIGHT	A.G.A.		EAT	LAT	VENT IN	VENT OUT	GAS SIZE	REMARKS
								INPUT	OUTPUT @ ELEV						
DF 1	SEALED COMBUSTION	8000	N/A	N/A	2	120/60/1	321#	300 KBTU	204 KBTU	65°	88°	6"	6"	3/4"	REZNOR MODEL SC 300 SERIES 6 INDOOR, SEPARATED COMBUSTION, GAS-FIRED DUCTED FURNACE WITHOUT FINGER-BAFFLES.
DF 2	SEALED COMBUSTION	8000	N/A	N/A	2	120/60/1	321#	300 KBTU	204 KBTU	65°	88°	6"	6"	3/4"	REZNOR MODEL SC 300 SERIES 6 INDOOR, SEPARATED COMBUSTION, GAS-FIRED DUCTED FURNACE WITHOUT FINGER-BAFFLES.

AIR COOLED CONDENSING UNIT SCHEDULE

MARK	MIN. NOMINAL SIZE (TONS)	②	COMPRESSOR RATED LOAD AMPS	POWER	MOCP	MIN. CIRCUIT AMPS	SEER	ESTIMATED DIMENSIONS L x W x H	REMARKS	④
CU 2	4.0		21.2	208/60/1	50	29.2	16.0	30" x 21" x 63"	LENNOX CONDENSING UNIT MODEL XC16-048 WITH PURON REFRIGERANT	
CU 3	5.0		27.1	208/60/1	60	35.6	15.5	30" x 25" x 60"	LENNOX CONDENSING UNIT MODEL XC16-060 WITH PURON REFRIGERANT	
CU 4	5.0		27.1	208/60/1	60	35.6	15.5	30" x 25" x 60"	LENNOX CONDENSING UNIT MODEL XC16-060 WITH PURON REFRIGERANT	
CU 5	5.0		27.1	208/60/1	60	35.6	15.5	30" x 25" x 60"	LENNOX CONDENSING UNIT MODEL XC16-060 WITH PURON REFRIGERANT	
CU 6	3.0		15.3	208/60/1	35	20.8	15.0	30" x 21" x 59"	LENNOX CONDENSING UNIT MODEL XC16-036 WITH PURON REFRIGERANT	

- ① REFRIGERANT R-410A
② AT DESIGN CONDITIONS AND 95°F AMBIENT AIR TEMPERATURE TO CONDENSER.
③ CONDENSING UNIT MARKS CORRESPOND WITH COOLING COIL AND FURNACE UNIT MARKS.
④ SEE SPECIFICATION FOR APPROVED MANUFACTURERS

ELECTRIC HEATER SCHEDULE

SYM.	TYPE	BTU	KW	CHAR.	CONTROL	REMARKS
EH 1	WALL MOUNTED	2259	2	208/60/1	INTEGRAL T-STAT	QMARK TYPE AWH4408F HEAVY DUTY WITH SURFACE WALL MOUNTING FRAME

GRILLE AND REGISTER SCHEDULE

SYM.	SIZE	RANGE	THROW	CONSTR.	FINISH	REMARKS	① ②
B-1 CFM	9x9	50-225	➡	STEEL	OFF WHITE	CEILING DIFFUSER - PRICE MODEL SMD IN BEVELED FRAME	
B-2 CFM	12x12	200-400	➡	STEEL	OFF WHITE	CEILING DIFFUSER - PRICE MODEL SMD IN BEVELED FRAME	
B-3 CFM	15x15	400-600	➡	STEEL	OFF WHITE	CEILING DIFFUSER - PRICE MODEL SMD IN BEVELED FRAME	
RG-1	14x6	50-200	➡	ALUMINUM	ALUMINUM	FLOOR REGISTER - PRICE MODEL LSPH IN HEAVY DUTY FLOOR MOUNTING FRAME	
RG-2	30x6	200-375	➡	ALUMINUM	ALUMINUM	FLOOR REGISTER - PRICE MODEL LSPH IN HEAVY DUTY FLOOR MOUNTING FRAME	
RG-3	14x10"	400-700	➡	ALUMINUM	ALUMINUM	CEILING RETURN - PRICE MODEL 535	
RG-4	12x12"	300-450	➡	ALUMINUM	ALUMINUM	CEILING RETURN - PRICE MODEL 535	
RG-5	14x18"	700-1000	➡	ALUMINUM	ALUMINUM	CEILING RETURN - PRICE MODEL 535	
RG-6	16x24"	700-1200	➡	ALUMINUM	ALUMINUM	CEILING RETURN - PRICE MODEL 535	
QL-1	12x12	50-250	➡	ALUMINUM	MATCH BRICK	OA LOUVER - AMERICAN WARMING LE-31 WITH BIRDSCREEN AND DRAINABLE BLADES	
RC-1	10" 0	105-235	➡	STEEL	BLACK EPOXY	SLOPED ROOF CAP - TWIN CITY MODEL 437 WITH BIRDSCREEN	

- ① SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS.

ROOM FINISH SCHEDULE

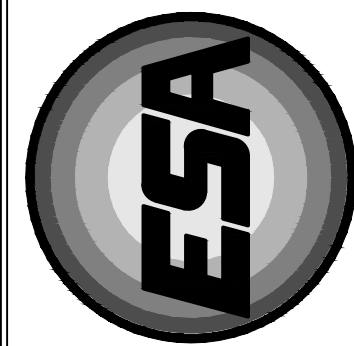
ROOM TYPE	FLOOR	BASE	WALLS	CEILING	CEILING HEIGHT	DESCRIPTION
MECH	F3	B1	W1	EXIST.	10'-0"	FLOOR F1 CARPET F2 SHEET VINYL SLAB WALLS W1 GYPSUM BOARD - TEXTURE AND PAINTED BASE B1 6" WOOD

PLUMBING FIXTURE SCHEDULE

SYM.	DESCRIPTION	PIPE SIZE			REMARKS
		TRAP	WASTE	VENT	
WF-1	WALL FLANGE	--	3"	--	SIMILAR TO DURA G-O-N MODEL 82703 SIZE 3" WITH CORROSION RESISTANT ASA POLYMER PLASTIC CONSTRUCTION AND 3" DRAIN LINE CONNECTION.

OUTSIDE VENTILATION AIR REQUIREMENTS

FAN COIL OUTDOOR REQUIREMENT AS PER ASHRAE 62.1					
COVERED SQ. FT. OR PEOPLE			CFM PER SQ. FT. OR PERSON		
O. A. CFM CALC.			OCCUPANCY CLASSIFICATION		
F 2	1050	.12	130	RELIGIOUS CLASSROOM ASHRAE 62.1 BUILDING COMPONENT CATEGORY 2	
F 3	1575	.12	190	RELIGIOUS CLASSROOM ASHRAE 62.1 BUILDING COMPONENT CATEGORY 2	
F 4	1840	.12	220	RELIGIOUS CLASSROOM ASHRAE 62.1 BUILDING COMPONENT CATEGORY 2	
F 5	1960	.12	235	RELIGIOUS CLASSROOM ASHRAE 62.1 BUILDING COMPONENT CATEGORY 2	
F 6	880	.12	105	RELIGIOUS CLASSROOM ASHRAE 62.1 BUILDING COMPONENT CATEGORY 2	



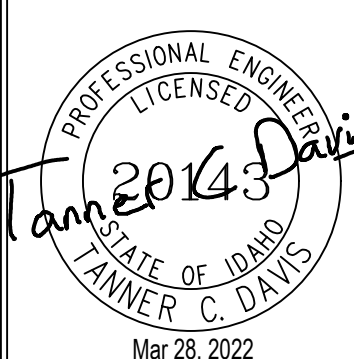
Engineered Systems Associates
Mechanical Engineers
Dwayne Sudweeks P.E., Dave Hansen P.E., Tanner Davis P.E.
1355 East Center - Pocatello, Idaho 83201
Phone: (208) 233-0501 email: esa@esysystems.com

PROPERTY # 501-3917

HVAC RENOVATIONS FOR:

LDS SODA SPRINGS 2, 6 & STAKE
290 S. 3RD W., SODA SPRINGS, IDAHO 83276

PROJECT:



DRWN. BY:	CKD. BY:
TD	DCS
JOB NO.	DATE:
21041	3/28/2022

SHEET:
M2.2
OF: 7