

ROOF-TOP UNIT SCHEDULE														
TAG	FLOW RATE		STATIC PRESSURE		ELECTRICAL DATA			EFFICIENCY	L.D.B	GAS HEATING		BASIS OF DESIGN		NOTES
	SUPPLY	OA	EXTERNAL	IN WG	MCA	MOC	VOLTAGE			INPUT	OUTPUT	MANUFACTURER	MODEL OR SERIES	
	CFM	CFM			AMPS	AMPS			MBH	MBH				
RTU-1	3,000	600	.60"		19.6	20	460/3	12.2	104.4	180	144	YORK	ZF090N180D4	1,2,3
RTU-2	3,000	600	.60"		19.6	20	460/3	12.2	104.4	180	144	YORK	ZF090N180D4	1,2,3
RTU-3	5,000	1000	.60"		40.5	50	460/3	12.0	95.6	240	192	YORK	ZF150N24D4	1,2,3

NOTES: 1.) DUCT MOUNTED SMOKE DETECTORS BY ELECTRICAL CONTRACTOR
2.) UNIT EQUIPPED WITH ECONOMIZERS
3.) OA SET A MIN VENTILATION RATE PER ASHRAE 62

MULTI-SPLIT HEAT PUMP OUTDOOR UNIT SCHEDULE			
OUTDOOR CONDENSING UNIT	ACCU-1	ACCU-2	ACCU-3
NOMINAL SIZE	3.5 TON	2 TON	1 TON
MODEL NO.	MXZ-5C42NAHZ2-U1	MXZ-2C20NAHZ2-U1	PUY-A12NKA7
COOL MAX / HEAT MAX (17°F)	42,000 / 48,000	20,000 / 22,000	12,000 / --
ELECTRICAL	208-230/1/60	208-230/1/60	208-230/1/61
MCA	42	29.5	13
MOC	52	40	15
SOUND dB	50	54	46
DIMENSIONS	52-11/16"x41-11/32"x13"	37-13/32"x41-9/32"x13"	31-1/2"x23-5/8"x13"
WEIGHT	276 lbs.	187 lbs.	90 lbs.
LIQUID LINE SIZE	3/8"	1/4"	1/4"
SUCTION LINE SIZE	5/8"	3/8"	1/2"
SEER	17.0	17.0	20.8

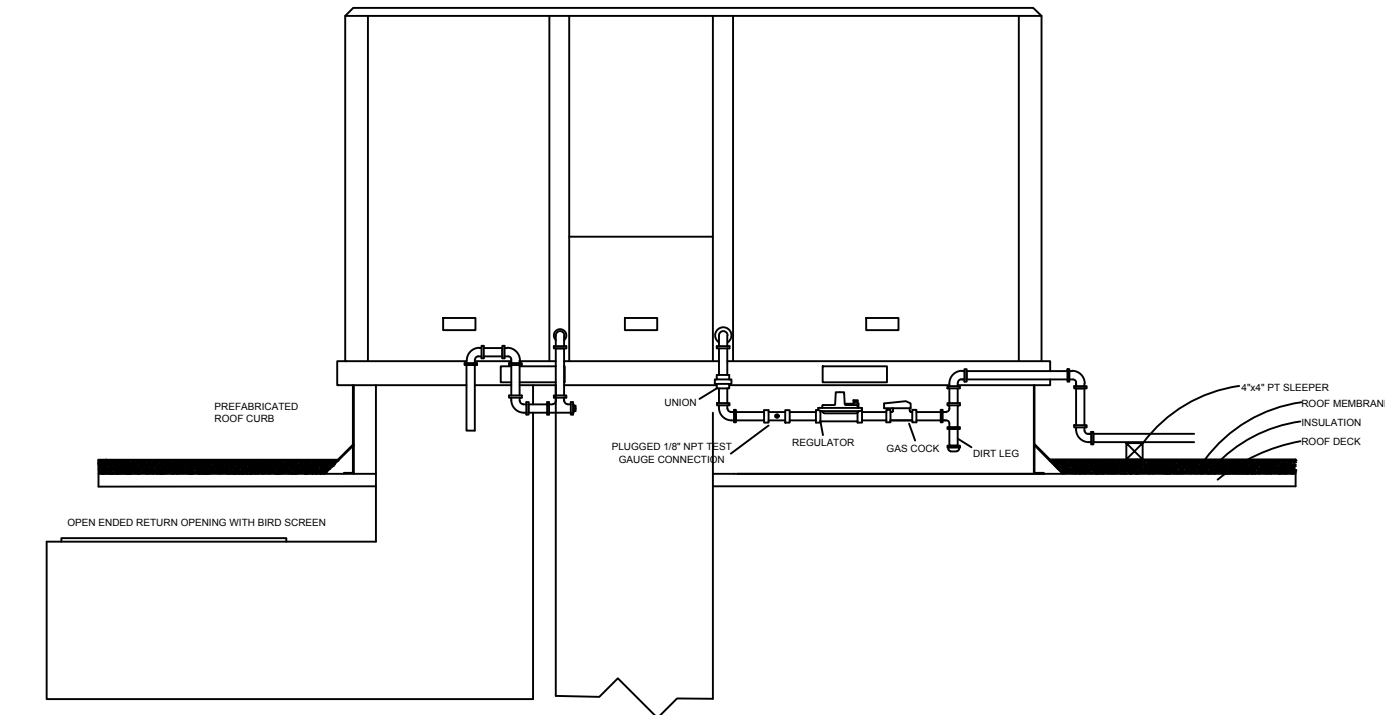
NOTES: OR EQUAL BY CARRIER OR FUJITSU

MULTI-SPLIT HEAT PUMP INDOOR UNIT SCHEDULE					
INDOOR UNIT	DS-1-1	DS-1-2	DS-2-1	DS-2-2	DS-3-1
COOLING BTU	24,000	18,000	9,000	9,000	12,000
HEATING BTU @ 47F	26,000	19,000	10,900	10,900	---
REFRIGERANT	R410A	R410A	R410A	R410A	R410A
MODEL NO.	PEAD-A24AA7	PEAD-A18AA7	MSZ-GL09NA-U1	MSZ-GL09NA-U1	PKA-A12HA7
ARRANGEMENT	DUCTED	DUCTED	WALL MOUNT	WALL MOUNT	WALL MOUNT
DIMENSIONS(WxDxH)	43-5/16"x28-7/8"x13-7/8"	35-7/16"x28-7/8"x9-7/8"	31-7/16"x11-5/8"x9-1/8"	31-7/16"x11-5/8"x9-1/8"	35-3/8"x11-5/8"x9-13/16"
WEIGHT	82 lbs.	62 lbs.	29 lbs.	29 lbs.	29 lbs.
CFM HIGH	701	560	364	364	380
CFM MED	595	472	201	201	335
CFM LOW	472	384	145	145	290
SOUND Db - HIGH CFM	37	37	43	43	43
ELECTRICAL	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
MCA	2.6	1.7	1.0	1.0	1.0
COND. DRAIN SIZE	1 1/4"	1 1/4"	---	---	5/8"
LIQUID LINE SIZE	3/8"	1/4"	1/4"	1/4"	1/4"
SUCTION LINE SIZE	5/8"	1/2"	3/8"	3/8"	1/2"

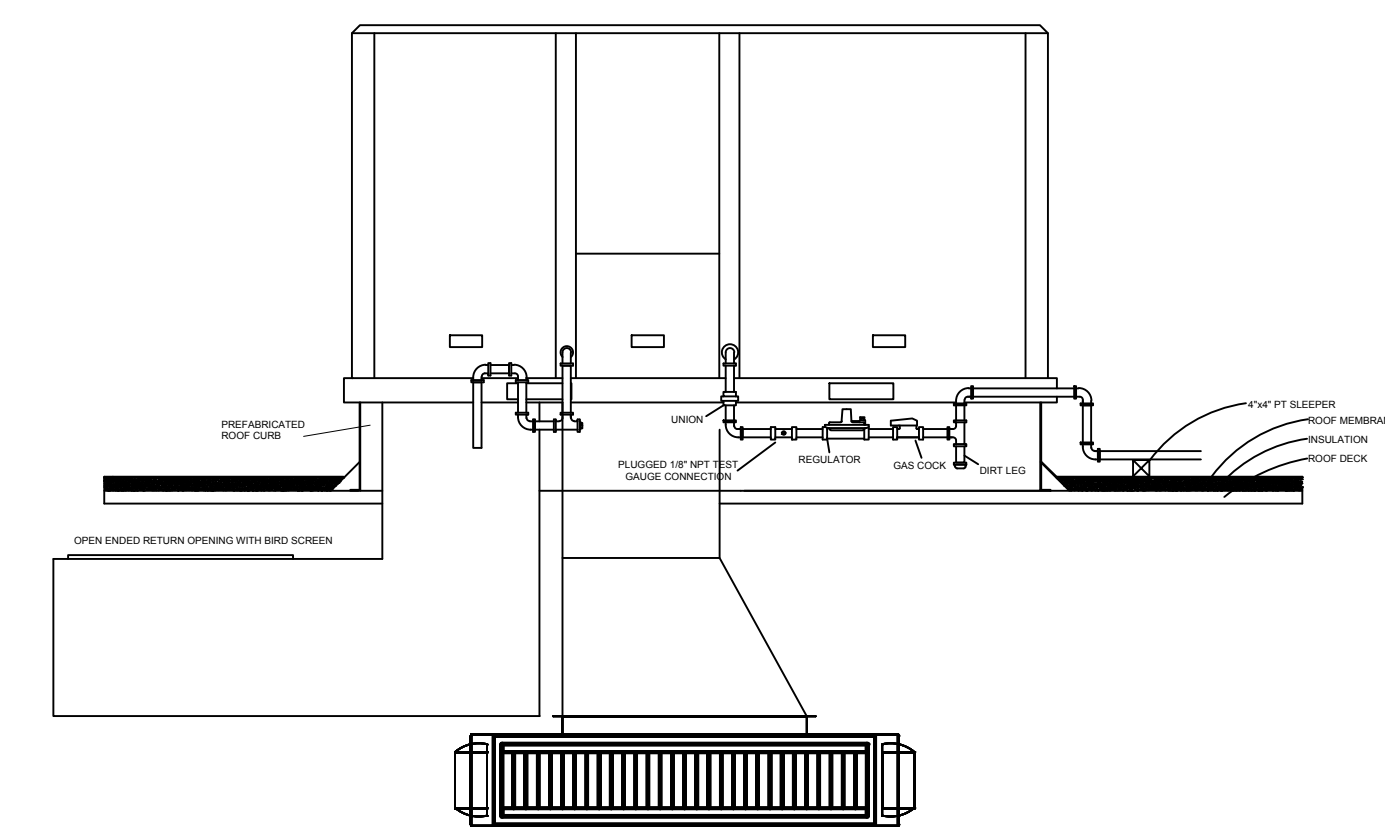
NOTES: OR EQUAL BY CARRIER OR FUJITSU

MECHANICAL AIR TERMINAL DEVICES SCHEDULE						
TAG	SIZE	DESCRIPTION	CONSTRUCTION	BASIS OF DESIGN		NOTES
			FINISH	MANUFACTURER	MODEL OR SERIES	
CD-1	6"	LAY-IN	STEEL	PRICE	SCD	
CD-2	8"	LAY-IN	STEEL	PRICE	SCD	
SR-1	20"X10"	SUPPLY REGISTER	STEEL	PRICE	520SD	
SR-2	20"X6"	SUPPLY REGISTER	STEEL	PRICE	520SD	
RG-1	24"X24"	LOUVERED RETURN	STEEL	PRICE	530	
RG-2	16"X16"	SURFACE MOUNT	STEEL	PRICE	530	

NOTES:



1 ROOFTOP UNIT #3 DETAIL
DATE: 08-17-17



2 ROOFTOP UNIT #1 & #2 DROPBOX DETAIL
DATE: 08-17-17

EXHAUST FAN SCHEDULE														
TAG	FLOW RATE	STATIC PRESSURE		MOTOR DATA			ELECTRICAL DATA			MINIMUM LOUDNESS	BASIS OF DESIGN		WEIGHT	NOTES
		EXTERNAL	NO FLOW	LOAD	SPEED	FLA	MOC	VOLTAGE	SONES		MANUFACTURER	MODEL OR SERIES		
		IN WG	IN WG	HP	RPM	AMPS	AMPS							
EF-1	75	0.25	-	---	700	0.65	15	120/1	1.5	GREENHECK	SPB90	10 LBS	1	
EF-2	1,000	0.25	-	0.25	1537	---	15	120/1	10	GREENHECK	GB101-4	---	1	
EF-3	350	0.25	-	0.5	1247	---	15	120/1	7.6	GREENHECK	GB081-4	---	1	

NOTES: 1.) WITH BACKDRAFT DAMPER

LOUVER SCHEDULE						
TAG	SIZE	FREE AREA	CONSTRUCTION	BASIS OF DESIGN		NOTES
			FINISH	MANUFACTURER	MODEL OR SERIES	
L-1	18"X18"	1.3	ALUMINUM	-	LE-31	

NOTES: MOTOR OPERATED DAMPER

BRANCH SELECTOR BOX SCHEDULE								
TAG	SERVES	QTY OF INDOOR UNIT PORTS	TOTAL MAX CAPACITY MBH	MODEL	ELECTRICAL		WEIGHT LBS	NOTES
					VOLT	PHASE		
BB-1	DS-1-1, DS-1-2	3	36	PAC-MKA31BC	208/230	1	---	

ELECTRIC RESISTANCE HEATERS						
TAG	MANUFACTURER	MODEL	VOLTS	AMPS	WATT	NOTES
EBB-1	QMARK	48" BASEBOARD	208	4.8	1000	FIELD INSTALLED LINE VOLT STAT
EBB-2	QMARK	60" BASEBOARD	208	10.4	1250	FIELD INSTALLED LINE VOLT STAT
EW-1	QMARK	CWH	208	8.4	2000	FIELD INSTALLED LINE VOLT STAT

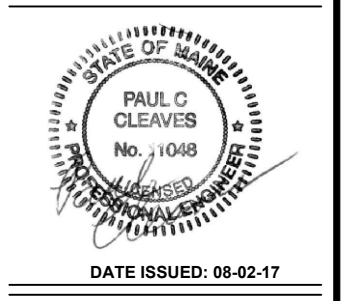
NOTES:

UNIT HEATER SCHEDULE								
TAG	MANUFACTURER	MODEL	VOLTS	AMPS	CFM	BTU/HR INPUT	FUEL	NOTES AND ACCESSORIES
UH-1	REZNOR	UDAP100	208	3.9	1345	105,000	NAT GAS	

NOTES:

- HVAC SEQUENCE OF OPERATION:**
- EF-1:** Bathroom Exhaust. Exhaust fans to operate with room lights.
 - EF-2:** General warehouse ventilation. Exhaust fan to operate on time clock for occupied hours, equipped with gravity backdraft damper.
 - EF-3:** Loading Dock Exhaust. To operate continuously during the occupied hours.
 - Loading Dock Ventilation controls:** CO and NO to be actively monitored within the loading dock area:
 - First stage of ventilation is the general exhaust of EF-3
 - Second stage upon an elevated CO/NO level is MOD-1, associated with L-1, to be opened.
 - A high level CO/NO alarm to sound if elevated CO/NO levels are detected, this be both a visual and audible alarm.
 - A permanently affixed sign to be located immediately adjacent to the gas monitor, identifying the alarm and the hazard.
 - UH-1:** A gas fired unit heater to operate with a local, non-programmable thermostat for a setpoint of 55 Deg F, heating. This to be adjustable.
 - Electric Baseboard and Cabinet Heaters, to operate on unit mounted, line voltage thermostats, with adjustable setpoints of 65 deg F.
 - HEAT PUMPS DS-1—DS-3-1:** To operate to maintain space setpoint at 73 deg F +/- 2 deg F, utilizing associated Mitsubishi controls.
 - The two ducted evaporator systems to include motor operated dampers for outdoor air, for ventilation. The outdoor air to be ducted to the return of the systems and to be open during the occupied hours.
 - RTU-1 & RTU-2**
 - A duct mounted smoke detector provided and installed by the electrical contractor to disable the SA fan, and optionally be connected to building alarm system.
 - A programmable thermostat to be utilized to control the two roof top units to:
 - Operate the sa fans continuously during the occupied hrs and to provide a minimum ventilation rate by means of an economizer minimum position.
 - Operate in heating and cooling to maintain space temperature at 73 deg F +/- 2.
 - Have an unoccupied setting with a 78 deg cooling and 60 deg heating setpoint. (adjustable).
 - Two stages of heating and two stages of cooling.
 - Each RTU to be equipped with economizer with adjustable enthalpy controls.
 - RTU-3**
 - A duct mounted smoke detector provided and installed by the electrical contractor to disable the SA fan, and optionally be connected to building alarm system.
 - A programmable thermostat to be utilized to control the two roof top units to:
 - Operate the sa fans continuously during the occupied hrs and to provide a minimum ventilation rate by means of an economizer minimum position.
 - Operate in heating and cooling to maintain space temperature at 73 deg F +/- 2.
 - Have an unoccupied setting with a 78 deg cooling and 60 deg heating setpoint. (adjustable).
 - Two stages of heating and two stages of cooling.
 - The RTU to be equipped with an economizer with adjustable enthalpy controls.

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COMFORT USA
SYSTEMS, Inc.
AirTemp, Inc.

ALTA VISTA LLC
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CLIENT
DATE
DRWN BY BRL
CHK'D BY PCC
DATE AUG. 02, 2017
SHEET TITLE
HVAC SCHEDULES & DETAILS

SCALE
N.T.S.

DRAWING
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