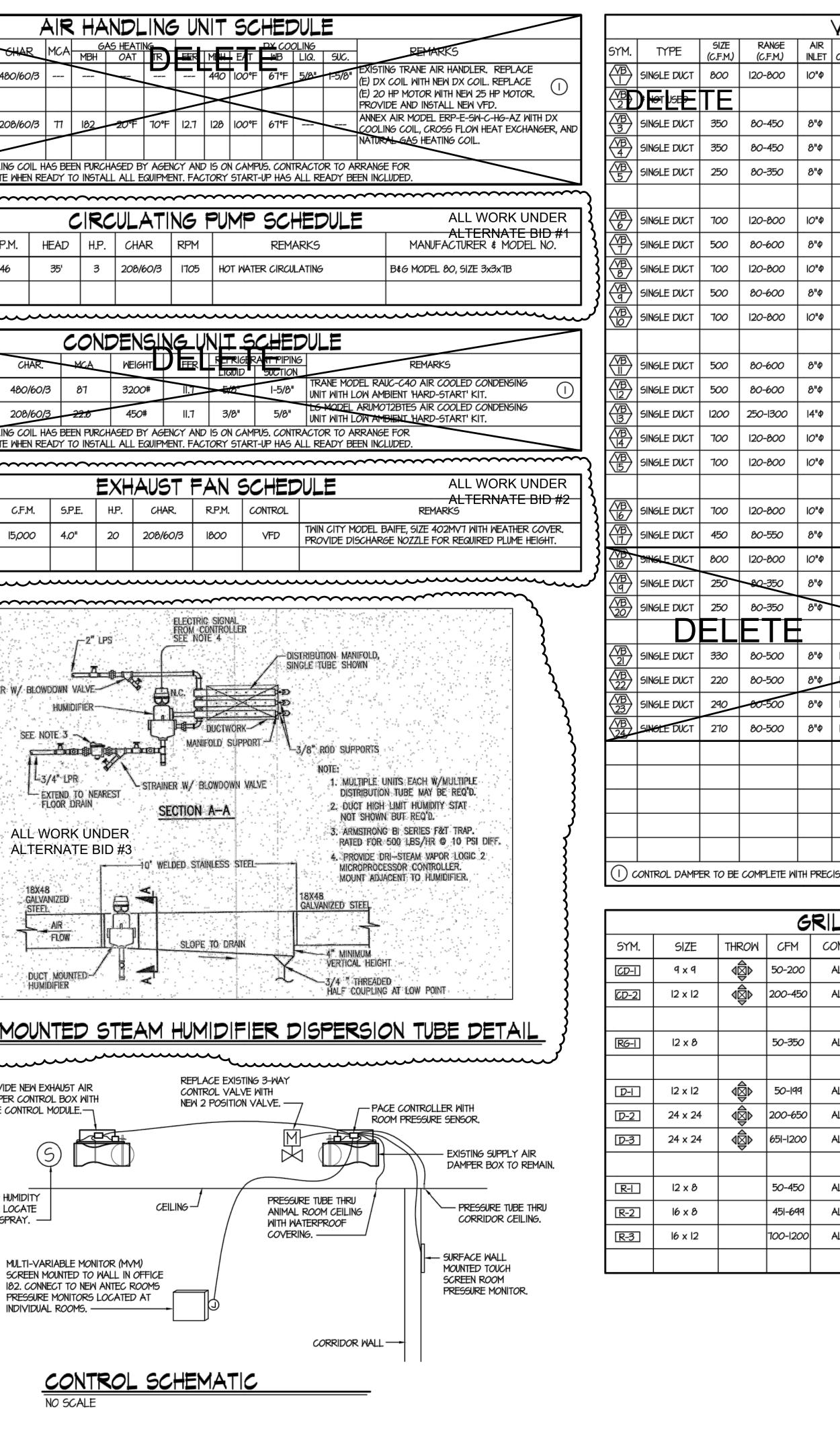
MECHA	NICAL LEGEND
SYMBOL	DESCRIPTION
SA	SUPPLY AIR
RA	RETURN AIR
OA	OUTSIDE AIR
REFR	REFRIGERANT
AFF	ABOVE FINISHED FLOOR
VFD	VARIABLE FREQUENCY DRIVE
T	ELECTRONIC THERMOSTAT
6	REMOTE SENSOR
	PLAN NOTE
FC	EQUIPMENT SYMBOL
——————————————————————————————————————	GAS PIPING
—— HWS ——	HOT WATER SUPPLY PIPING
—— HWR ——	HOT WATER RETURN PIPING
	GATE VALVE
\$	BALL VALVE
e	PIPE DROP
o	PIPE RISE
M	MOTORIZED DAMPER
	MOTORIZED 3 WAY MIXING OR DIVERTING VALVE
R	2 POSITION MOTORIZED VALVE
□□→→	SIDEWALL REGISTER (SUPPLY AIR)
┟╡╾╌	SIDEWALL GRILLE (RETURN AIR)
ĦZ	RETURN AIR GRILLE
Ξ×	CEILING DIFFUSER
ĦZ	EXHAUST AIR GRILLE
₩₽ ₽ ₽	HAND DAMPER
	ROUND BRANCH DUCT WITH HAND DAMPER
₽	RECTANGULAR SUPPLY AND RETURN AIR DUCT TAKE-OFF
	TURNING VANES
	DUCT TRANSITION
-	INSULATED FLEXIBLE DUCT
	ROUND SPIRAL DUCTWORK
	VARIABLE AIR BOX WITH WITH RE-HEAT COIL
	ROOF TOP EXHAUST FAN

HUMIDIFER SCH	EDULE
Application System Quantity	1
System Location	United States
Elevation at project site (ft)	4500.0
Ventilation system type	Makeup-air System, Dispersion Installed I Duct Or AHU
Outside air dry bulb temperature (°F)	-8.0
Outside air moisture content (%RH)	20.0
Outside air intake rate	Constant
Outside air intake (%)	100.0
Total air volume (cfm)	12000.0
Desired air dry bulb temperature (°F) in humidified space	70.0
Desired air moisture content (% RH) in humidified space	40.0
Actual moisture content (% RH) in humidified space Non-wetting distance (inches)	40.0
Calculated load	Calculated
Load (lbs/hr)	326.24
Load plus loss (lbs/hr)	339.74
Dispersion installation location	Duct
Airflow direction	Horizontal
Airflow pressure drop (inches w.c.)	0.0
Duct dry bulb temp before dispersion (°F)	51.8
Duct RH before dispersion (%)	1
Duct dry bulb temp after dispersion (°F)	55.0
Duct RH after dispersion (%)	67
Heat gain from steam (°F)	2.19
Heat gain from assembly (°F)	1.01
Steam dispersion	Marchill Washing
Dispersion product	Multi Tube
Dispersion model Tube Size	60 60
Unit quantity	1
Energy source	Direct Steam
Steam pressure (psi)	10
Header location	Outside Duct
Trap location	Outside Duct
Air movement	Through Dispersion
	Assmbly
Available inside duct/AHU width (inches)	48.0
Available inside duct/AHU height (inches)	18.0
Duct/AHU wall thickness (inches)	0.0
Face width (inches)	48.0
Face height (inches)	18.0
Header diameter(inches)	2.0
Header and Separator Dimensions (inches) Air velocity (ft/min)	23.0 X 11.0 X NA 2000.0
Tube diameter (inches)	1.0
Tube spacing on-center (inches)	9.0
Tube quantity	2
Duct plate material	Galvanized Steel
Second set of duct plates	No
High-Efficiency Insulated Tubes	No
Separator/header/tube material	304 Stainless Steel
Separator orientation	Vertical
Piping material	Black Iron
Separator size	7.0
Hand Direction	Left
Steam valve provided by	Dri Steem
Steam valve material	Bronze
Steam valve control type	Electric 24 V
Steam valve voltage (Vac) Steam valve size (inches)	24 V 1.0
Steam valve size (inches) Steam valve (Cv)	1.0
Capacity driven dual valve	No
Controllability (1/3 - 2/3)	No
Valve Max Capacity(lbs/hr)	357.77
Strainer	Cast Iron
Steam trap	Cast Iron F & T
Maxi-bank option	Yes
Seismic-certified	No
Operating weight (lbs)	93
Shipping weight (Ibs)	120
Connections	
Steam generator outlet diameter (inches)	
Dispersion steam inlet connection type	NPT
Dispersion steam inlet diameter (inches)	1
Control	
Input signal by	Others
Accessories	
High-limit humidistat	Electric
Airflow proving switch	Electric Pressure
Dispersion Condensate pump	None
Temperature switch	Yes

			\geq					
	SYM.	CFM	SP.T	H.F	2.	CHAR		
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		12,000	0		5	480/60/		
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MOUNT TEMPERATURE AND HUMIDITY SENSOR IN EXHAUST DUCT. LOCATE AWAY FROM WASH-DOWN SPRAY.

Mechanical Plan Review: APPROVED Final approval shall be based upon HVAC inspection for adherence to the 2012 IMC, 2012 IFGC, Idaho Statute Title 54 Chapter 50, stamped approved plans and manufacturers installation instructions.



air Utlet	MBH	HE GPM	ATING SE	ECTION EWT	LWT	PIPE SIZE	CONTROL	REMARKS	
<u>LE</u> Ι "Φ		<u> </u>	1.K	= <u></u>			DUCT MOUNTED PRESSURE SENSOR WITH HUMIDISTAT	VENTURI VFX SIZE IIO	
							DELE	ETE	
"Φ							DUCT MOUNTED PRESSURE SENSOR WITH HUMIDISTAT	VENTURI VFX SIZE 108	
B"Ø							DUCT MOUNTED PRESSURE SENSOR WITH HUMIDISTAT	VENTURI VFX SIZE 108	
Β"Φ							DUCT MOUNTED PRESSURE SENSOR WITH HUMIDISTAT	VENTURI VFX SIZE 108	
0 ##							DUCT MOUNTED PRESSURE		
0"Ф 3"Ф							SENSOR WITH HUMIDISTAT DUCT MOUNTED PRESSURE		
οφ 0"φ							SENSOR WITH HUMIDISTAT DUCT MOUNTED PRESSURE	VENTURI VFX SIZE 108 VENTURI VFX SIZE 110	
0Φ 8"Φ							SENSOR WITH HUMIDISTAT DUCT MOUNTED PRESSURE	VENTURI VFX SIZE 108	
0 φ 0"φ							SENSOR WITH HUMIDISTAT	VENTURI VFX SIZE IIO	
							SENSOR WITH HUMIDISTAT		0
8"Ø							DUCT MOUNTED PRESSURE SENSOR WITH HUMIDISTAT	VENTURI VFX SIZE 108	
8"Ø							DUCT MOUNTED PRESSURE SENSOR WITH HUMIDISTAT	VENTURI VFX SIZE 108	
4 " Ø							DUCT MOUNTED PRESSURE SENSOR WITH HUMIDISTAT	VENTURI VFX SIZE II4	
0"Ф							DUCT MOUNTED PRESSURE SENSOR WITH HUMIDISTAT	VENTURI VFX SIZE IIO	
0"Ф							DUCT MOUNTED PRESSURE SENSOR WITH HUMIDISTAT	VENTURI VFX SIZE IIO	
0"Ф							DUCT MOUNTED PRESSURE SENSOR WITH HUMIDISTAT DUCT MOUNTED PRESSURE	VENTURI VFX SIZE IIO	
8" Φ							SENSOR WITH HUMIDISTAT	VENTURI VFX SIZE 108	
<i>Ю</i> "Ф	35.2	2	67⁰F	160°F	140°F	3/4"	SENSOR WITH HUMIDISTAT	VENTURI VFX SIZE IIO	
8"¢	9.3		65⁰F	160°F	140°F	3/4"	SENSOR WITH HUMIDISTAT	VENTORI VFX SIZE 108	\bigcirc
<u>8"0</u>	9.3		65⁰F	160°F	140°F	3/4"	SENSOR WITH HUMIDISTAT	VENTURI VFX SIZE 108	(\mathbf{I})
							WALL MOUNTED	PRICE SDV-5008 WITH I ROW	
2xIO	11.8		55 F	160°F	1404	3/4"		HOT WATER COIL. PRICE SDV-5008 WITH I ROW	
2x10	9.3	I	65⁰F	160°F	140°F	3/4"	THERMOSTAT	HOT WATER COIL.	
2xIO	10.5	I	56°F	160°F	140°F	3/4"	WALL MOUNTED THERMOSTAT	PRICE SDV-5008 WITH I ROW HOT WATER COIL.	
2xIO	10.2	I	58⁰F	160°F	140°F	3/4"	WALL MOUNTED THERMOSTAT	PRICE SDV-5000 WITH I ROW HOT WATER COIL.	
			I	L	L			 OR WITH HUMIDISTAT IN DUCT.	

	AND	REGIS	TER	SCH	EDULE
ONSTR.	FINISH	BRANCH DUCT	F.D.	0.B.	REMARKS
ALUM.	WHITE	8"Þ	NO	YES	PRICE MODEL AMD WITH BEVELED FRAME
ALUM.	WHITE	IO"Φ	NO	YES	PRICE MODEL AMD WITH BEVELED FRAME
ALUM.	WHITE	12 x 8	NO	NO	PRICE MODEL 635 WITH SURFACE MOUNTING FRAME
ALUM.	WHITE	IO"Φ	NO	NO	PRICE MODEL AMD WITH BEVELED FRAME AND ROUND DUCT ADAPTOR
ALUM.	WHITE	l2"Ø	NO	NO	PRICE MODEL AMD WITH BEVELED FRAME AND ROUND DUCT ADAPTOR
ALUM.	WHITE	l6"Φ	NO	NO	PRICE MODEL AMD WITH BEVELED FRAME AND ROUND DUCT ADAPTOR
ALUM.	WHITE	IO"Φ	NO	NO	PRICE MODEL 635 WITH SURFACE MOUNTING FRAME AND ROUND DUCT ADAPTOR
ALUM.	WHITE	IO"Φ	NO	NO	PRICE MODEL 635 WITH SURFACE MOUNTING FRAME AND ROUND DUCT ADAPTOR
ALUM.	WHITE	IO"¢	NO	NO	PRICE MODEL 635 WITH SURFACE MOUNTING FRAME AND ROUND DUCT ADAPTOR

