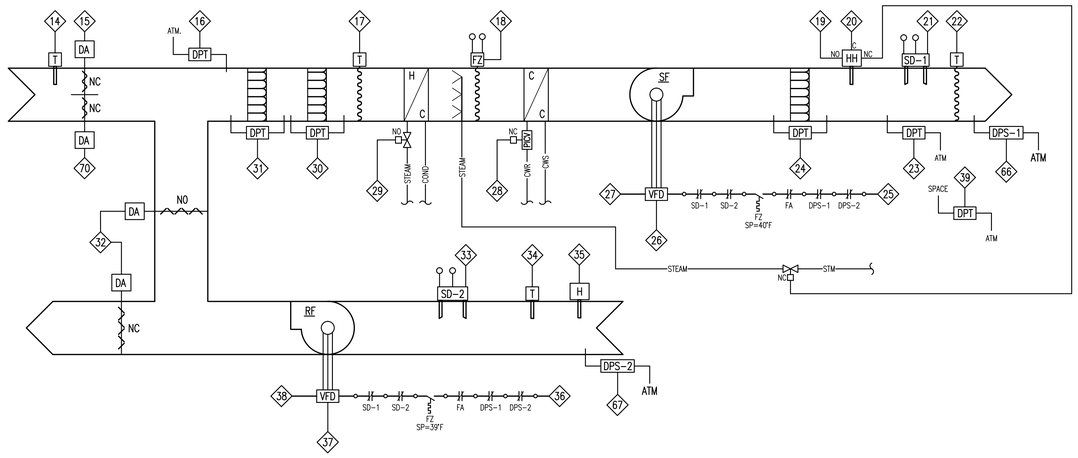
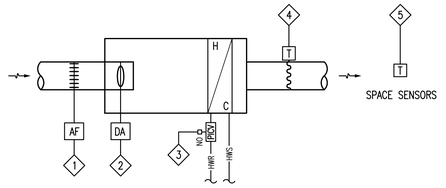
CONTROL LEGEND

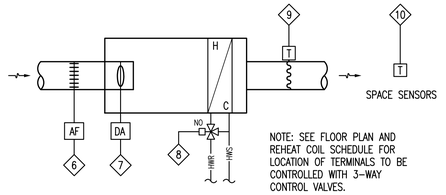
	FAN		TWO WAY ELECTRONIC CONTROL VALVE	R	REFRIGERANT GAS SENSOR	NC	NORMALLY CLOSED	K	ISOLATION ROOM PRESSURE CONTROLLER KEY SWITCH
DA	FAN WITH INLET GUIDE VANES		THREE WAY ELECTRONIC CONTROL VALVE	O	OCCUPANCY SENSOR	NO	NORMALLY OPEN		OPPOSED BLADE DAMPER
	PUMP		PARALLEL BLADE DAMPER	CT	CURRENT TRANSDUCER	SCR	ELECTRIC HEAT SCR CONTROLLER		ROUND CONTROL DAMPER
	DX COIL	BDD	BACKDRAFT DAMPER	ASC	APPLICATION SPECIFIC CONTROLLER	FFM	FLUID FLOW METER	DA	DAMPER ACTUATOR (ELECTRONIC)
	COOLING COIL	C	COMMON	FS	COOLING COIL DRAIN PAN FLOAT SWITCH	PFS	PADDLE TYPE FLOW SWITCH	TSTAT	THERMOSTAT
	HEATING COIL	DATA	BINARY DATA LINK	FT	FIRE THERMOSTAT	DPS	DIFFERENTIAL AIR PRESSURE SWITCH	FA	FIRE ALARM CONTACTS
	HEAT EXCHANGER	DI	DIGITAL INPUT	FZ	FREEZE PROTECTION THERMOSTAT	DPT	DIFFERENTIAL PRESSURE SENSOR	AI	ANALOG INPUT
	SENSIBLE WHEEL	STEP	ELECTRIC HEAT STEP CONTROLLER	OL	THERMAL OVERLOADS–NUMBER AS REQUIRED	AF	AFMS AIR FLOW MEASURING STATION	AO	ANALOG OUTPUT
	AIR FILTER	T	DUCT MOUNTED TEMP. SENSOR	SD	SMOKE DETECTOR CONTACTS	T	PIPE MOUNTED TEMPERATURE SENSOR	EO	EMERGENCY AIR SYSTEM TURN OFF BUTTON
	MOTOR STARTER	T	SHIELDED BULB AIR TEMPERATURE SENSOR	SD	SMOKE DETECTOR	T	DUCT MOUNTED, AVERAGING TEMP. SENSOR	PICV	PRESSURE INDEPENDENT CONTROL VALVE
HOA	HAND–OFF–AUTO SWITCH	H	DUCT MOUNTED HUMIDITY SENSOR	AFMS	AIR FLOW MEASUREMENT STATION	SH	STROBE/HORN	O2	OXYGEN MONITORING SENSOR
M	MOTOR START SOLENOID	H	SPACE HUMIDITY SENSOR	DO	DIGITAL OUTPUT	HH	DUCT MOUNTED HIGH LIMIT HUMIDISTAT	TEC	TERMINAL EQUIPMENT CONTROLLER
VFD	VARIABLE FREQUENCY DRIVE	T	SPACE TEMPERATURE SENSOR	I / O	INPUT / OUTPUT	UVC	UVC RADIATION SENSOR		



AIR HANDLING UNIT AH-1-4SRF-2
SCALE: NONE

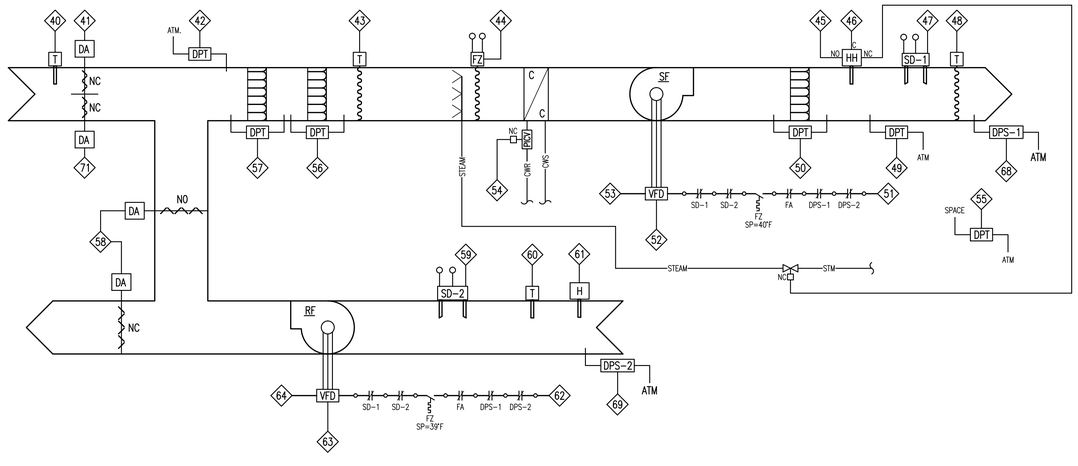


VAV TERMINALS (PICV)
SCALE: NONE

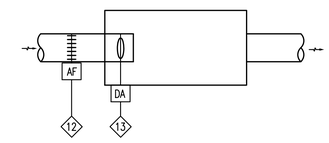


NOTE: SEE FLOOR PLAN AND REHEAT COIL SCHEDULE FOR LOCATION OF TERMINALS TO BE CONTROLLED WITH 3-WAY CONTROL VALVES.

VAV TERMINALS – 3-WAY CONTROL VALVE
SCALE: NONE



AIR HANDLING UNIT AH-1-4SRF-3
SCALE: NONE



VAV TERMINALS – EXHAUST (SPS ADMIN SPACES)
SCALE: NONE

CONTROL POINTS SCHEDULE (THIS SHEET ONLY)

MARK ◇	TYPE	DESCRIPTION	NOTES
1	AI	VAV TERMINAL AIR FLOW SENSOR	2:
2	AO	VAV TERMINAL DAMPER MODULATION	2:
3	AO	REHEAT COIL VALVE MODULATION	2:
4	AI	VAV SUPPLY AIR TEMPERATURE	2:
5	AI	VAV TERMINAL SPACE TEMPERATURE SENSOR	1:2:
6	AI	VAV TERMINAL AIR FLOW SENSOR – SUPPLY	2:
7	AO	VAV TERMINAL DAMPER MODULATION – SUPPLY	2:
8	AO	VAV TERMINAL REHEAT COIL VALVE MODULATION – SUPPLY	2:
9	AI	VAV TERMINAL TEMPERATURE SENSOR – SUPPLY	2:
10	AI	VAV TERMINAL SPACE TEMP. SENSOR – SUPPLY	1:2:
11	SPARE		
12	AI	VAV TERMINAL AIR FLOW SENSOR – EXHAUST	2:
13	AO	VAV TERMINAL DAMPER MODULATION – EXHAUST	2:
14	AI	AH–1–4SRF–2 OUTDOOR AIR TEMPERATURE	
15	AO	AH–1–4SRF–2 OUTDOOR AIR DAMPER MODULATION	
16	AI	AH–1–4SRF–2 MIXED AIR STATIC PRESSURE	
17	AI	AH–1–4SRF–2 MIXED AIR TEMPERATURE	
18	DI	AH–1–4SRF–2 FREEZE STAT STATUS	
19	DI	AH–1–4SRF–2 HUMIDISTAT STATUS	
20	AO	AH–1–4SRF–2 HUMIDIFIER STEAM VALVE MODULATION	
21	DI	AH–1–4SRF–2 SUPPLY AIR SMOKE DETECTOR STATUS	
22	AI	AH–1–4SRF–2 SUPPLY AIR TEMPERATURE	
23	AI	AH–1–4SRF–2 SUPPLY AIR – AIR STATIC PRESSURE	
24	AI	AH–1–4SRF–2 FINAL FILTER PRESSURE STATUS	
25	DO	AH–1–4SRF–2 SUPPLY FANS ON/OFF	4:
26	AO	AH–1–4SRF–2 SUPPLY FAN SPEED CONTROL	4:
27	DATA	AH–1–4SRF–2 SUPPLY FAN VFD DATA/STATUS	3:4:
28	AO	AH–1–4SRF–2 CHILLED WATER COIL VALVE MODULATION	
29	AO	AH–1–4SRF–2 PRE HEAT COIL VALVE MODULATION	
30	AI	AH–1–4SRF–2 INTERMEDIATE FILTER STATUS	
31	AI	AH–1–4SRF–2 PRE–FILTER STATUS	
32	AO	AH–1–4SRF–2 RETURN DAMPER MODULATION	
33	DI	AH–1–4SRF–2 RETURN SMOKE DETECTOR STATUS	
34	AI	AH–1–4SRF–2 RETURN AIR TEMPERATURE	
35	AI	AH–1–4SRF–2 RETURN AIR HUMIDITY	
36	DO	AH–1–4SRF–2 RETURN FANS ON/OFF	5:
37	AO	AH–1–4SRF–2 RETURN FAN SPEED CONTROL	5:
38	DATA	AH–1–4SRF–2 RETURN FAN VFD DATA/STATUS	3:5:
39	AI	AH–1–4SRF–2 SPACE PRESSURE	1:
40	AI	AH–1–4SRF–3 OUTDOOR AIR TEMPERATURE	
41	AO	AH–1–4SRF–3 OUTDOOR AIR DAMPER MODULATION	
42	AI	AH–1–4SRF–3 MIXED AIR STATIC PRESSURE	
43	AI	AH–1–4SRF–3 MIXED AIR TEMPERATURE	
44	DI	AH–1–4SRF–3 FREEZE STAT STATUS	
45	DI	AH–1–4SRF–3HUMIDISTAT STATUS	
46	AO	AH–1–4SRF–3 HUMIDIFIER STEAM VALVE MODULATION	
47	DI	AH–1–4SRF–3 SUPPLY AIR SMOKE DETECTOR STATUS	
48	AI	AH–1–4SRF–3 SUPPLY AIR TEMPERATURE	
49	AI	AH–1–4SRF–3 SUPPLY AIR – AIR STATIC PRESSURE	
50	AI	AH–1–4SRF–3 FINAL FILTER PRESSURE STATUS	
51	DO	AH–1–4SRF–3 SUPPLY FANS ON/OFF	4:
52	AO	AH–1–4SRF–3 SUPPLY FAN SPEED CONTROL	4:
53	DATA	AH–1–4SRF–3 SUPPLY FAN VFD DATA/STATUS	3:4:
54	AO	AH–1–4SRF–3 CHILLED WATER COIL VALVE MODULATION	
55	AI	AH–1–4SRF–3 SPACE PRESSURE	1:
56	AI	AH–1–4SRF–3 INTERMEDIATE FILTER STATUS	
57	AI	AH–1–4SRF–3 PRE–FILTER STATUS	
58	AO	AH–1–4SRF–3 RETURN DAMPER MODULATION	
59	DI	AH–1–4SRF–3 RETURN SMOKE DETECTOR STATUS	
60	AI	AH–1–4SRF–3 RETURN AIR TEMPERATURE	
61	AI	AH–1–4SRF–3 RETURN AIR HUMIDITY	
62	DO	AH–1–4SRF–3 RETURN FANS ON/OFF	5:
63	AO	AH–1–4SRF–3 RETURN FAN SPEED CONTROL	5:
64	DATA	AH–1–4SRF–3 RETURN FAN VFD DATA/STATUS	3:5:
65	SPARE		
66	DI	AH–1–4SRF–2 HIGH LIMIT PRESSURE SWITCH	
67	DI	AH–1–4SRF–2 LOW LIMIT PRESSURE SWITCH	
68	DI	AH–1–4SRF–3 HIGH LIMIT PRESSURE SWITCH	
69	DI	AH–1–4SRF–3 LOW LIMIT PRESSURE SWITCH	
70	AO	AH–1–4SRF–2 MINIMUM OUTSIDE AIR DAMPER	
71	AO	AH–1–4SRF–3 MINIMUM OUTSIDE AIR DAMPER	

NOTES:
1. SEE FLOOR PLANS FOR LOCATIONS.
2. TYPICAL OF ONE ON EACH VAV TERMINAL OF TYPE SHOWN.
3. AH–1–4SRF–2/–3 MECHANICAL CONTRACTOR AND CONTROLS CONTRACTOR COORDINATE VFD COMMUNICATIONS PROTOCOL WITH CONTROL SYSTEM REQUIREMENTS TO ENSURE FULL COMPATIBILITY (ALL DATA POINTS DISPLAYED/ALARMED ON CONTROLS USER INTERFACE).
4. TYPICAL FOR TWO VFD. EACH VFD CONTROLS TWO SUPPLY FANS. ALL FANS OPERATE AT SAME SPEED.
5. TYPICAL OF ONE VFD CONTROLLING TWO RETURN FANS.

FINAL SUBMITTAL

Revisions:	Date

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Approved: Project Director

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Location: SHREVEPORT, LA
Date: 04-17-2015 | Checked: PJC | Drawn: JSW

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Building Number: 1
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