DATE: January 19, 2026

Project Engineer: RTM Engineering Consultants
20 N.W. 3rd Street Suite 510
Evansville, Indiana 47708-1356
Telephone: 812-401-2260

TO: PROSPECTIVE BIDDERS

SUBJECT: ADDENDUM NO. 5 TO THE BIDDING DOCUMENTS FOR

SE888 Knobview Hall – Replace Air Handling Units
Indiana University Southeast
IU 20250614

This addendum forms a part of the bidding and contract documents and modifies the original bidding documents, date December 15, 2025. Acknowledge receipt of this addendum in space provided on Bid Form. FAILURE TO DO SO MAY SUBJECT BIDDER TO DISQUALIFICATION.
****

DRAWINGS:

1. Siemens Control Drawings are attached.

ATTACHMENTS:

1. Siemens Temperature Control Drawings.

SIEMENS

SIEMENS INDUSTRY, INC.
SMART INFRASTRUCTURE

11001 BLUGRASS PKWY,
LOUISVILLE, KY
US

PHONE: (502) 267-1571
FAX: (502) 267-0316

Draft Print

IU Project 20250614

Note the following:
VFD's provided by contractor (not Siemens).
Air Flow Measuring Stations by contractor.
Dampers provided by contractor.

Control Installation Contractor (CIC) work will be provided by Siemens in their direct bid to IU.

DATE: 01/19/26

FOR INFORMATION CONTACT
MICHAEL BURTON

ENGINEERING DATA FOR
IUSE KNOBVIEW AHU REPLACEMENT

4201 GRANT LINE RD
NEW ALBANY, 47150-2158
US

PROJECT NO: 44OP-410840

DWG	DESCRIPTION
	GENERAL
	COVERSHEET
CLR	CLARIFICATION SHEET
TOC	TABLE OF CONTENTS
	SCHEDULES
	FLN SCHEDULE
	VALVE SCHEDULE
	CONTROL DRAWINGS
LEG	LEGEND & ABBREVIATIONS
001	COMMUNICATION RISER
002	FLN/MSTP COMMUNICATION
100	KV AHU 2 CONTROL SYSTEM
100A	KV AHU 2 CONTROL SYSTEM
100B	KV AHU 2 CONTROL SYSTEM
100C	KV AHU 2 SYSTEM BOM/SEQ
101	KV AHU 3 CONTROL SYSTEM
101A	KV AHU 3 CONTROL SYSTEM
101B	KV AHU 3 CONTROL SYSTEM
101C	KV AHU 3 SYSTEM BOM/SEQ
102	KV AHU 4 CONTROL SYSTEM
102A	KV AHU 4 CONTROL SYSTEM
102B	KV AHU 4 CONTROL SYSTEM
102C	KV AHU 4 SYSTEM BOM/SEQ
	STANDARD DRAWINGS
ABAC	ANIXTER BUILDING AUTO. CABLES
	PRODUCT DOCUMENTATION

REVISION HISTORY

SIEMENS

2400 NELSON MILLER PKWY SUITE 130
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IUSE KNOBVIEW AHU REPLACEMENT
NEW ALBANY,

ENGINEER	DRAFTER	CHECKED BY	INITIAL RELEASE	LAST EDIT DATE
DC	DC	MM	01/19/26	01/19/26

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440P-410840
0
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SIEMENS
Smart Infrastructure
Global Operations Center

Field-Level Network Device Schedule

44OP-410840 IUSE KNOBVIEW AHU REPLACEMENT

Installation Status Key
N: new installation
E: existing, to remain
M: existing, to be modified
R: existing, to be removed

Network Type Key
BAC-IP: BACnet IP FLN device
BAC-M1: BACnet MSTP FLN device - FLN 1
BAC-M2: BACnet MSTP FLN device - FLN 2
KNX: KNX device
P1-1: P1 FLN device - FLN 1
P1-2: P1 FLN device - FLN 2
P1-3: P1 FLN device - FLN 3
MB-RTU: Modbus RTU device
MB-TCP: Modbus TCP device

Installation Checklist
- Device mounted?
- Power connected?
- Network connected?
- Actuator(s) wired?
- Sensor(s) wired?
- Flow tubes connected?

Pressurization Mode Key
+ : Positive pressure
- : Negative pressure
@ : Neutral pressure

GENERAL NOTES
(No general notes)

REVISION HISTORY

REV	DATE	DWN	CHK	DESCRIPTION
0	01/23/2026	DC	MM	ISSUED FOR APPROVAL

System										Network					Device / Equipment									Grouping	Room Airflow						Supply VAV Terminal													Extract / Exhaust VAV Terminal						Room Operator Unit					Comments
																									Minimum Airflow (CFM)				Pressurization		Airflow (CFM)								Duct Size (in)				Airflow (CFM)			Duct Size (in)								
Item	Device Name	Floor	Room No	Room / Device Description	Equipment ID	Siemens Dwg. No.	Mech Dwg No.	Served By (Airside)	Installation Status	FLN Network Id	Network Type	IP Link / Loop Tag	MAC / Device Address	Instance No.	IP Address	Type	Equipment Controlled	Coil Type	Radiation Type	Rad Valve / Relay Qty	Field Power Source	Device Load (VA)	XFMR Load (VA)	Install Check (Initial)	Group Master	Comfort / Occ	Pre-comfort / Occ Stby	Economy / Unocc	Protection / Vacant	Pressurization Mode	Transitional / Offset Airflow	SAV Clg Min	SAV Clg Max	SAV Htg Min	SAV Htg Max	SAV Vent Min	SAV Vent Max	SAV Smoke Flow	SAV Shape	SAV H/D	SAV W	EAV Vent Min	EAV Vent Max	Smoke Control EAV) Purge (Fume Hood)	EAV Shape	EAV H/D	EAV W	Temperature	Humidity	CO2	User Interface	Lighting Pushbuttons	
1	KY_AHU02.SF1.VFD	GF	48	MECHANICAL ROOM	SF-01	100	M701		N		BAC-M1		TBD	TBD		Third-Party						-	- / -																															
3	KY_AHU02.RF1.VFD	GF	48	MECHANICAL ROOM	RF-01	100	M701		N		BAC-M1		TBD	TBD		Third-Party						-	- / -																															
4	KY_AHU03.SF1.VFD	GF	48	MECHANICAL ROOM	SF-01	101	M701		N		BAC-M1		TBD	TBD		Third-Party						-	- / -																															
5	KY_AHU03.RF1.VFD	GF	48	MECHANICAL ROOM	RF-01	101	M701		N		BAC-M1		TBD	TBD		Third-Party						-	- / -																															
6	KY_AHU04.SF1.VFD	GF	48	MECHANICAL ROOM	SF-01	102	M701		N		BAC-M1		TBD	TBD		Third-Party						-	- / -																															
7	KY_AHU04.RF1.VFD	GF	48	MECHANICAL ROOM	RF-01	102	M701		N		BAC-M1		TBD	TBD		Third-Party						-	- / -																															

SIEMENS INDUSTRY, INC. **Valve Submittal - Water**

SMART INFRASTRUCTURE

LOCATION:
JOB NO: 44OP410840
ENGR: DC

PROJECT NAME: IUSE KNOBVIEW AHU REPLACEMENT
DATE: 01/19/26
PAGE: 1
REV:

GENERAL NOTES:
1. All valves 2-1/2" and larger have flanged ends, 2" and smaller have screwed ends.
2. All control valves and wells shall be installed by the mechanical contractor.
3. Standard abbreviations used on control valves are:

BODY TYPES: 3W - Three way; 2W - Two way; A - Angle; N.C. - Normally Closed; N.O. - Normally Open; NOC - Ball Valve can be N.O. or N.C.; BF - Butterfly Valve; DS - Double Seated;

UNITS:
Steam inlet pressure, actual pressure drop, and shut off pressure indicated in PSIG.

ACTUATOR TYPES: SR - Spring Return; NSR - No Spring Return CR - Capacitor Driven Return; DA - Double Acting

Valve ID/ Location	Qty	Product Number	Valve Size	Body Type	Body Style	Actual Cv	Actuator Type	Design P. Drop (psi)	Required Flow (gpm)	Min (gpm)	Max (gpm)	Preset (gpm)	Steam Inlet	Press Drop (psi)	Valve Spec Sheet	Shut Off	ANSI Class	Comment
Mechanical System:		**100**							**KV AHU 2 CONTROL SYSTEM**									
V-1	1	274-03170	2.00	2W	Globe	40.00	NO-SR	5	56.60	N/A	N/A	N/A	--	2.0022	154 006	49	250	KV-AHU02-HCV
Mechanical System:		**101**							**KV AHU 3 CONTROL SYSTEM**									
V-1	1	274-03169	1.50	2W	Globe	25.00	NO-SR	5	30.60	N/A	N/A	N/A	--	1.4982	154 006	80	250	KV-AHU03-HCV
Mechanical System:		**102**							**KV AHU 4 CONTROL SYSTEM**									
V-1	1	274-03170	2.00	2W	Globe	40.00	NO-SR	5	56.40	N/A	N/A	N/A	--	1.9881	154 006	49	250	KV-AHU04-HCV

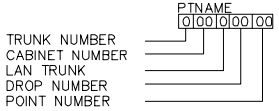
NOTES: All control valves and wells shall be installed by the heating contractor.

CONTROL SYMBOL	CONTROL SYMBOL DESCRIPTION
AC	AIR COMPRESSOR
AD	AIR DRYER
ADXR	ACTUATOR DXR
AE	ACTUATOR ELECTRIC
AEM	APOGEE ETHERNET MICROSERVER
AF	AIR FILTER
AFS	AIR FLOW STATION
AOP	ANALOG OUTPUT, PNEUMATIC
AP	ACTUATOR PNEUMATIC
APS	AUX. POWER SUPPLY
AT	AUTOMATIC TRAP
ATD	AUTO TANK DRAIN
ATEC	ACTUATOR TEC
AZM	AUTOZERO MODULE
BCU	BUS COUPLING UNIT
BELL	BELL
BIM	BUS INTERFACE MODULE
BOIL	BOILER
BRT	BRIGHTNESS
BRTT	BRIGHTNESS AND TEMPERATURE
BTN	BUTTON
CBL	CABLES
CKV	CHECK VALVE
CM	CONSTRUCTION MATERIALS
CP	COMPONENT PANEL
CPU	CENTRAL PROCESSING UNIT
CRT	CATHODE RAY TUBE
CS	CURRENT SWITCH
CT	CURRENT TRANSDUCER
CTTE	CO2 TEMP TRANSMITTER ELEC
CVC	CONSTANT VOLUME CONTROLLER
D	DAMPER
DDC	DUAL DUCT CONTROLLER
DEM	DEMAND ENERGY MONITOR
DP	DEW POINT TRANSMITTER
DPR	DIFFERENTIAL PRESS. REGULATOR
DPS	DIFFERENTIAL PRESSURE SWITCH
DPTE	DIFF. PRESS. TRANSMITTER ELEC.
DPTP	DIFFERENTIAL PRESSURE PNEUMATIC
DPU	DIGITAL POINT UNIT
DXR	TERMINAL EQUIPMENT CONTROLLER
EC	ENTHALPY COMPARITOR
EP	ELECTRO-PNEUMATIC VALVE
ES	END SWITCH
ET	ENTHALPY TRANSMITTER
EXP	EXPANSION PANEL
FAN	FAN
FHC	FUME HOOD CONTROLLER
FM	FLOW MTR. (FLOW METER STATION)
FMS	FIRE MGMT. SYSTEM
FS	FLOW SWITCH
FTP	FLOW TRANSMITTER PNEU.
G	GAUGE
GD	GAS DETECTOR
H	HYGROSTATS
HE	HUMIDIFIER ELECTRIC

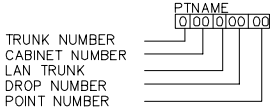
CONTROL SYMBOL	CONTROL SYMBOL DESCRIPTION
HHC	HAND-HELD OPERATOR'S TERMINAL
HL	HIGH LIMIT
HMI	GAMMA TOUCH PANEL
HOA	HAND-OFF-AUTO SWITCH
HORN	HORN
HPC	HEAT PUMP CONTROLLER
HTD	HIGH TEMPERATURE DETECTOR
HTE	HUMIDITY TRANSMITTER ELECTRIC
HTP	HUMIDITY TRANSMITTER PNEUMATIC
INT	INTERCOM
KWM	ELECTRIC KILOWATT METER
LA	LIGHT ACTUATOR
LC	LIMIT CONTROLLER (LIMITEM)
LLS	LIQUID LEVEL SWITCH
LLT	LIQUID LEVEL TRANS.
LPR	POWER SUPPLY 24VAC/24VDC
LTDE	LOW TEMP. DETECTOR ELECTRIC
LTDP	LOW TEMP. DETECTOR PNEUMATIC
LUI	LOCAL USER INTERFACE
MBC	MODULAR BUILDING CONTROLLER
MDM	MODEM
ME	ELECTRONIC ACTUATOR
MEC	MODULAR EQUIPMENT CONTROLLER
MG	MAGNEHELIC GAUGE
MPU	MULTI-POINT UNIT
MS	MOTOR STARTER
OCC	OCCUPANCY
OCCB	OCCUPANCY AND BRIGHTNESS
OBS	OBSOLETE
ODP	OPERATOR DATA PANEL
P	PUMP
PA	PULSE ACCUMULATOR
PCT	PROGRAMMABLE CLOCK TIMER
PE	PRESSURE ELECTRIC SWITCH
PL	PILOT LIGHT
PM	POWER MONITOR
PNL	PANEL
PPM	POINT PICKUP MODULE
PRC	PRESSURE REG. CONTROLLER
PRV	PRESSURE REDUCING VALVE
PS	POSITIONING SWITCH
PSE	POSITION SENSOR ELECTRIC
PST	PULL STATION
PT	PITOT TUBE
PTE	PRESSURE TRANSMITTER ELECTRIC
PTP	PRESSURE TRANSMITTER PNEUMATIC
PTR	PRINTER
PV	PILOT VALVE
PXCC	PX COMPACT CONTROLLER
PXCM	PXC-MODULAR CONTROLLER
PXG3	BACNET ROUTER ETHERNETIP-MS/TP
RBC	REMOTE BUILDING CONTROLLER
RC	RECEIVER CONTROLLER

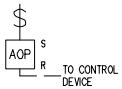
CONTROL SYMBOL	CONTROL SYMBOL DESCRIPTION
RCU	REMOTE CONTROL UNIT
RE	RELAY ELECTRIC
RP	RELAY PNEUMATIC
RS	RESTRICTOR
RV	RELIEF VALVE
S/W	SOFTWARE
SA	SHADE ACTUATOR
SC	STEP CONTROLLER
SCU	STAND ALONE CONTROL UNIT
SD	SMOKE DETECTOR
SE	SWITCH ELECTRIC
SIO	SLX IO MODULES
SLX	APOGEE SLX CONTROLLER
SPKR	SPEAKER
SPP	STATIC PRESSURE PROBE
SPR	STATIC PRESSURE REGULATOR
SV	SOLENOID VALVE
SW	SWITCH PNEUMATIC
T	ROOM THERMOSTAT, PNEUMATIC
TBC	TERMINAL BOX CONTROLLER
TC	TEMPERATURE CONTROLLER(S200)
TCU	TERMINAL CONTROL UNIT
TDR	TIME DELAY RELAY
TE	THERMOSTAT, ELECTRIC
TEC	TERMINAL EQUIPMENT CONTROLLER
TH	THERMOMETER
TI	TRUNK INTERFACE
TIE	TRUNK ISOLATOR EXTENDER
TIU	TELCOM INTERFACE UNIT
TMR	TIMER, TIME CLOCK
TTE	TEMPERATURE TRANSMITTER ELECTRIC
TTP	TEMPERATURE TRANSMITTER PNEUMATIC
TXIO	TX-I/O FAMILY CONTROLLER MODULES
UC	UNITARY CONTROLLER
UCC	UNIT CONDITIONER CONTROLLER
UVC	UNIT VENT CONTROLLER
V	VALVE
V*	VALVE SERVICE PARTS
VA	TEC VALVE ACTUATOR
VAC	VARIABLE AIR VOLUME CONTROLLER
VB	VIBRATION ISOLATOR
VTE	VELOCITY TRANSMITTER ELECTRICAL
W	WELL
WST	WEATHER STATION
XDR	TRANSDUCER
XFMR	TRANSFORMER

DDC ELECTRICAL POINT



DDC PNEUMATIC POINT

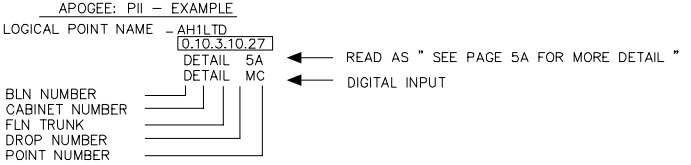




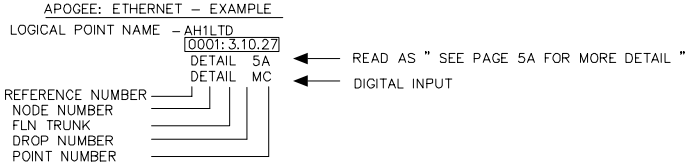
DETAILS

▭		ELECTRICAL TERMINATION
⬭		PNEUMATIC TERMINATION
DETAIL	XX	STANDARD DDC TERMINATION
△		NOTE OR REVISION
DETAIL	XX	PAGE REFERENCE

APOGEE: PII - EXAMPLE



APOGEE: ETHERNET - EXAMPLE



REVISION HISTORY

SIEMENS

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IUSE KNOBVIEW AHU REPLACEMENT
NEW ALBANY,

ENGINEER	DRAFTER	CHECKED BY	INITIAL RELEASE	LAST EDIT DATE
DC	DC	MM	01/19/26	01/19/26

Legend & Abbreviations

440P-410840
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LEG

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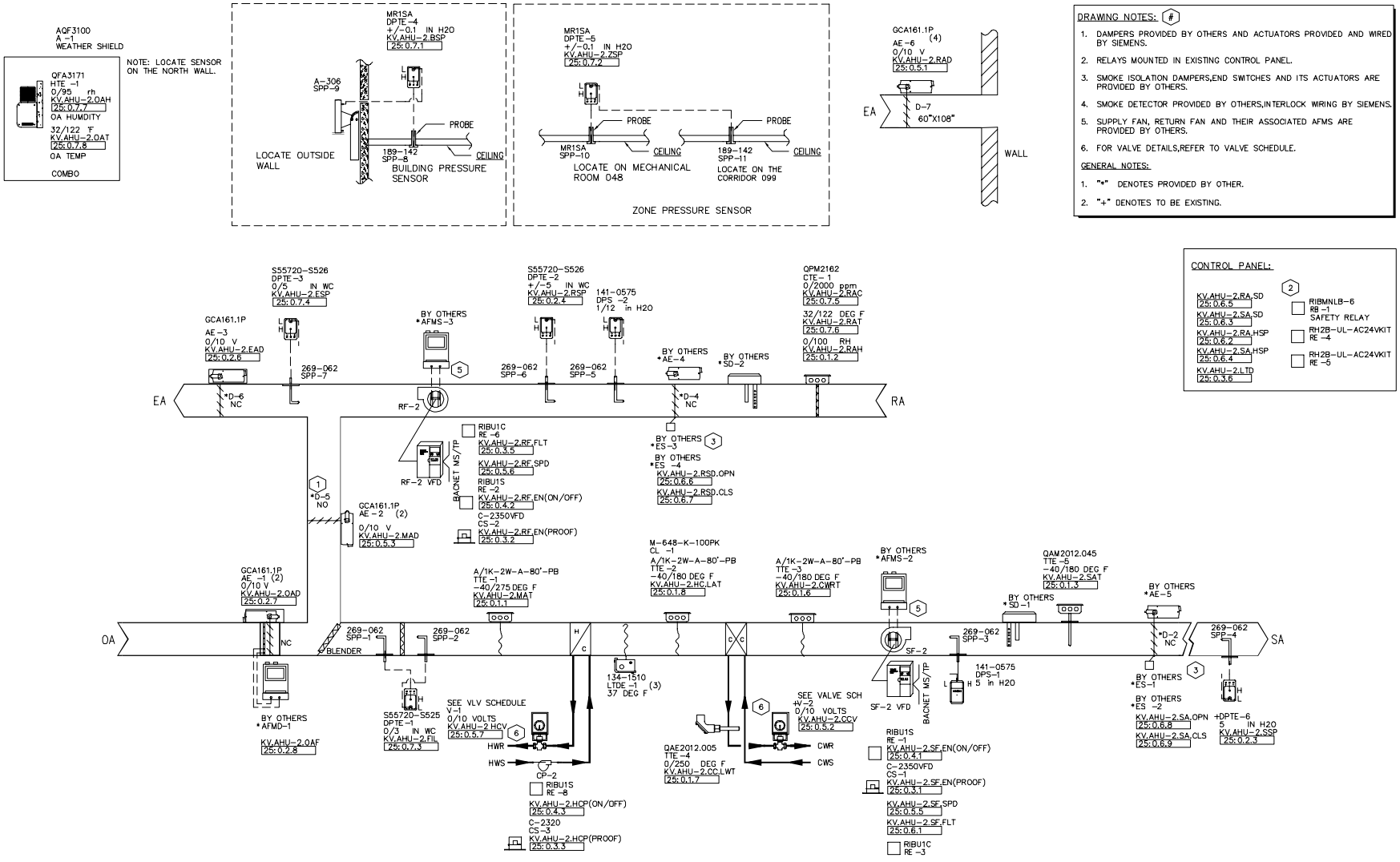

1/100 KV AHU 2 CONTROL SYSTEM

REF#	FIELD PANEL NAME	FIELD PANEL NODE NAME
25	SE-KV-048-PNL-25	SE-KV-048-PNL-25

REVISION HISTORY

SIEMENS
SIEMENS INDUSTRY, INC.
SMART INFRASTRUCTURE
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IUSE KNOBVIEW AHU REPLACEMENT
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KV AHU 2 CONTROL SYSTEM

440P-410840
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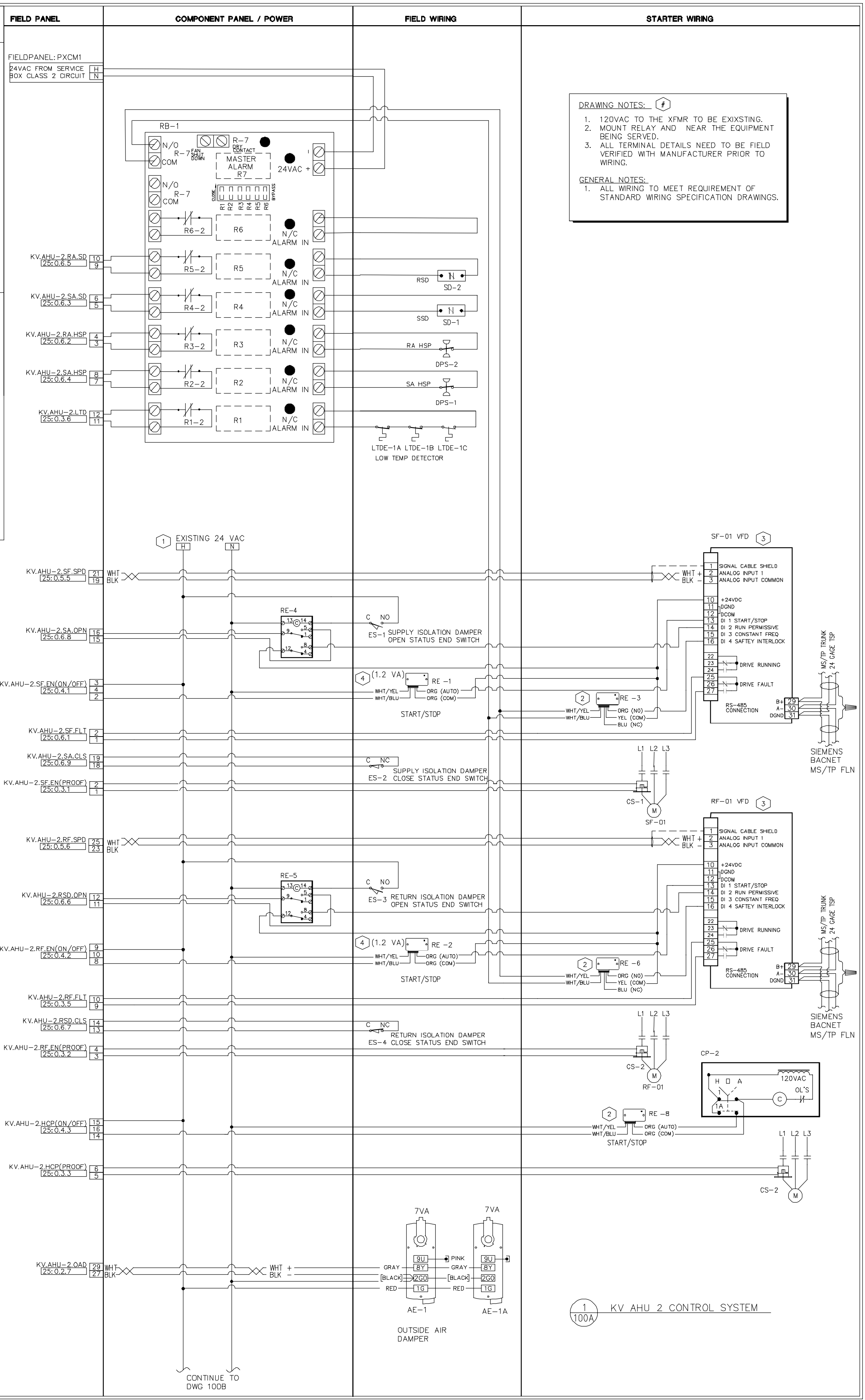
REVISION HISTORY

REF #	FIELD PANEL NAME	FIELD PANEL NODE NAME
25	SE-KV-048-PNL-25	SE-KV-048-PNL-25



FIELD PANEL
COMPONENT PANEL / POWER
FIELD WIRING
STARTER WIRING
FIELDPANEL: PXCM1
24VAC FROM SERVICE BOX CLASS 2 CIRCUIT
RB-1
R-7 DRY CONTACT
R-7 FAN SHUT DOWN
MASTER ALARM R7
24VAC
N/O
COM
R6-2 R6 N/C ALARM IN
KV.AHU-2.RA.SD 25:0.6.5
R5-2 R5 N/C ALARM IN
RSD SD-2
KV.AHU-2.SA.SD 25:0.6.3
R4-2 R4 N/C ALARM IN
SSD SD-1
KV.AHU-2.RA.HSP 25:0.6.2
R3-2 R3 N/C ALARM IN
RA HSP DPS-2
KV.AHU-2.SA.HSP 25:0.6.4
R2-2 R2 N/C ALARM IN
SA HSP DPS-1
KV.AHU-2.LTD 25:0.3.6
R1-2 R1 N/C ALARM IN
LTDE-1A LTDE-1B LTDE-1C
LOW TEMP DETECTOR
DRAWING NOTES:
1. 120VAC TO THE XFMR TO BE EXIXSTING.
2. MOUNT RELAY AND NEAR THE EQUIPMENT BEING SERVED.
3. ALL TERMINAL DETAILS NEED TO BE FIELD VERIFIED WITH MANUFACTURER PRIOR TO WIRING.
GENERAL NOTES:
1. ALL WIRING TO MEET REQUIREMENT OF STANDARD WIRING SPECIFICATION DRAWINGS.
EXISTING 24 VAC
KV.AHU-2.SF.SPD 25:0.5.5
SF-01 VFD
SIGNAL CABLE SHIELD
ANALOG INPUT 1
ANALOG INPUT COMMON
+24VDC
DGND
DCOM
DI 1 START/STOP
DI 2 RUN PERMISSIVE
DI 3 CONSTANT FREQ
DI 4 SAFTEY INTERLOCK
DRIVE RUNNING
DRIVE FAULT
RS-485 CONNECTION
MS/TP TRUNK 24 GAGE TSP
SIEMENS BACNET MS/TP FLN
RE-4
KV.AHU-2.SA.OPN 25:0.6.8
ES-1 SUPPLY ISOLATION DAMPER OPEN STATUS END SWITCH
KV.AHU-2.SF.EN(ON/OFF) 25:0.4.1
(1.2 VA) RE -1
START/STOP
RE -3
KV.AHU-2.SF.FLT 25:0.6.1
KV.AHU-2.SA.CLS 25:0.6.9
ES-2 SUPPLY ISOLATION DAMPER CLOSE STATUS END SWITCH
KV.AHU-2.SF.EN(PROOF) 25:0.3.1
CS-1
SF-01
KV.AHU-2.RF.SPD 25:0.5.6
RF-01 VFD
RE-5
KV.AHU-2.RSD.OPN 25:0.6.6
ES-3 RETURN ISOLATION DAMPER OPEN STATUS END SWITCH
KV.AHU-2.RF.EN(ON/OFF) 25:0.4.2
(1.2 VA) RE -2
RE -6
KV.AHU-2.RF.FLT 25:0.3.5
KV.AHU-2.RSD.CLS 25:0.6.7
ES-4 RETURN ISOLATION DAMPER CLOSE STATUS END SWITCH
KV.AHU-2.RF.EN(PROOF) 25:0.3.2
CS-2
RF-01
CP-2
H O A
120VAC
OL'S
KV.AHU-2.HCP(ON/OFF) 25:0.4.3
RE -8
KV.AHU-2.HCP(PROOF) 25:0.3.3
CS-2
7VA
7VA
KV.AHU-2.OAD 25:0.2.7
AE-1
AE-1A
OUTSIDE AIR DAMPER
CONTINUE TO DWG 100B
1/100A KV AHU 2 CONTROL SYSTEM

SIEMENS

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SMART INFRASTRUCTURE

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IUSE KNOBVIEW AHU REPLACEMENT
NEW ALBANY,

KV AHU 2 CONTROL SYSTEM

ENGINEER	DRAFTER	CHECKED BY	INITIAL RELEASE	LAST EDIT DATE
DC	DC	MM	01/19/26	01/19/26

440P-410840
100

100A

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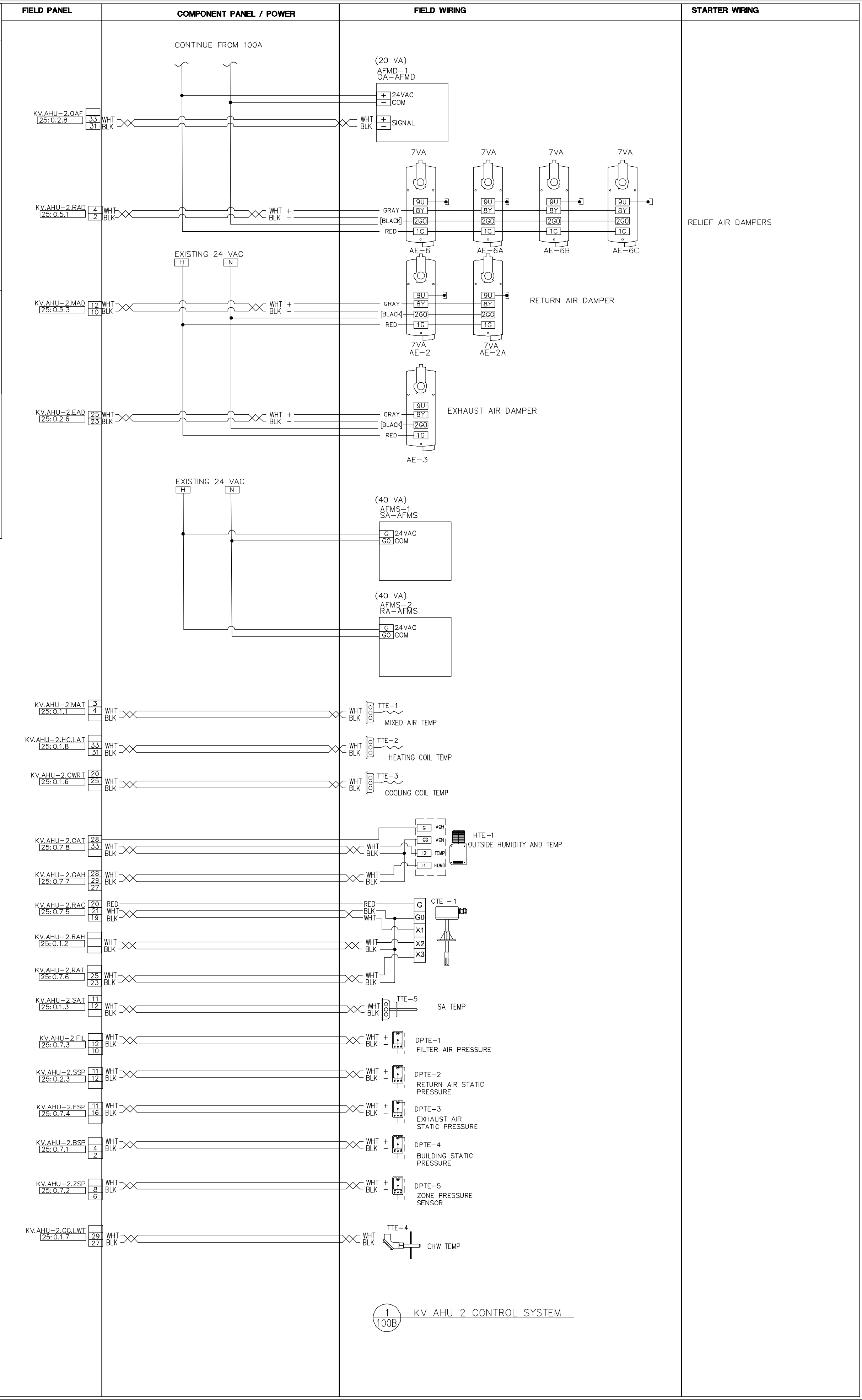

FIELD PANEL
COMPONENT PANEL / POWER
FIELD WIRING
STARTER WIRING
CONTINUE FROM 100A
(20 VA)
AFMD-1
OA-AFMD
24VAC
COM
SIGNAL
KV.AHU-2.OAF
25:0.2.8
33
31
WHT
BLK
7VA
9U
8Y
2G0
1G
GRAY
[BLACK]
RED
AE-6
AE-6A
AE-6B
AE-6C
RELIEF AIR DAMPERS
KV.AHU-2.RAD
25:0.5.1
4
2
WHT +
BLK -
EXISTING 24 VAC
H
N
KV.AHU-2.MAD
25:0.5.3
12
10
RETURN AIR DAMPER
AE-2
AE-2A
KV.AHU-2.EAD
25:0.2.6
25
23
EXHAUST AIR DAMPER
AE-3
(40 VA)
AFMS-1
SA-AFMS
G
G0
24VAC
COM
AFMS-2
RA-AFMS
KV.AHU-2.MAT
25:0.1.1
3
4
TTE-1
MIXED AIR TEMP
KV.AHU-2.HC.LAT
25:0.1.8
33
31
TTE-2
HEATING COIL TEMP
KV.AHU-2.CWRT
25:0.1.6
20
25
TTE-3
COOLING COIL TEMP
KV.AHU-2.OAT
25:0.7.8
28
33
ACH
ACN
TEMP
HUMD
I2
I1
HTE-1
OUTSIDE HUMIDITY AND TEMP
KV.AHU-2.OAH
25:0.7.7
28
29
27
KV.AHU-2.RAC
25:0.7.5
20
21
19
RED
CTE - 1
X1
X2
X3
KV.AHU-2.RAH
25:0.1.2
KV.AHU-2.RAT
25:0.7.6
25
23
KV.AHU-2.SAT
25:0.1.3
11
12
TTE-5
SA TEMP
KV.AHU-2.FIL
25:0.7.3
12
10
DPTE-1
FILTER AIR PRESSURE
KV.AHU-2.SSP
25:0.2.3
11
12
DPTE-2
RETURN AIR STATIC
PRESSURE
KV.AHU-2.ESP
25:0.7.4
11
16
DPTE-3
EXHAUST AIR
STATIC PRESSURE
KV.AHU-2.BSP
25:0.7.1
4
2
DPTE-4
BUILDING STATIC
PRESSURE
KV.AHU-2.ZSP
25:0.7.2
8
6
DPTE-5
ZONE PRESSURE
SENSOR
KV.AHU-2.CC.LWT
25:0.1.7
29
27
TTE-4
CHW TEMP
1
100B
KV AHU 2 CONTROL SYSTEM

REVISION HISTORY

REF #	FIELD PANEL NAME	FIELD PANEL NODE NAME
25	SE-KV-048-PNL-25	SE-KV-048-PNL-25

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IUSE KNOBVIEW AHU REPLACEMENT
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KV AHU 2 CONTROL SYSTEM

440P-410840
100

100B

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Control Device	Qty	Product Number	Manufacturer	Document Number	Description
Field Mounted Devices					
A 1	1	AQF3100	SIEMENS	N/A	WEATHER SHIELD FOR QFA31XX
AE 1-3	5	GCA161.1P	SIEMENS	154001	MOD(V) SR,24V, MED. PLNM
AE 6	4	GCA161.1P	SIEMENS	154001	MOD(V) SR,24V, MED. PLNM
CL 1	1	M-648-K-100PK	KELE INC	N/A	CAPILLARY MOUNTING CLIP-100 PAK-COPPER
CS 1-2	2	C-2350VFD	SENVA INC	C(VFD)	Current Sw,Split,AutoSet VFD,3.5-135A
CS 3	1	C-2320	SENVA	N/A	CURRENT SW,SPLIT,PRESET,ADJ,0.45-100A
CTE 1	1	QPM2162	SIEMENS	149909	DUCT CO2 + TEMP + RH SENSOR, 0-10V
D					SEE DAMPER SUBMITTAL
DPS 1-2	2	141-0575	SIEMENS	155 052	AIR FLOW SWITCH.05/12 MAN REST
DPTE 1	1	S55720-S525	SIEMENS	N/A	QBM3230U3D Pressure Sensor
DPTE 2-3	2	S55720-S526	SIEMENS	N/A	QBM3230U5D Pressure Sensor
DPTE 4-5	2	MR1SA	SETRA SYST	N/A	MR1SA Multi range,DP Trans, 0.1-1", 1%
HTE 1	1	QFA3171	SIEMENS	149992	ROOM RH & TEMP SENSOR, 4-20mA, 2%
LTDE 1	3	134-1510	SIEMENS	155 115	LOW TEMP DET STATAUTO RESET
RB 1	1	RIBMNLB-6	FUNCTIONAL	RIBMNLB-6	AHU FAN SAFETY ALARM CIRCUIT 6-INPUT
RE 3	1	RIBU1C	FUNCTIONAL DEVICES	1208cut013	OBS/BY RIBU1C FD 120VAC 24VAC/DC SPDT
RE 6	1	RIBU1C	FUNCTIONAL DEVICES	1208cut013	OBS/BY RIBU1C FD 120VAC 24VAC/DC SPDT
SPP 1-7	7	269-062	SIEMENS	N/A	PR269 ACCESSORY, SENSING TUBE
SPP 8	1	189-142	SIEMENS	155 061	STAT PRES ACC, SENSOR KIT
SPP 9	1	A-306	DWYER	1011cut060	STATIC PRESSURE SENSOR OUTDOOR
SPP 11	1	189-142	SIEMENS	155 061	STAT PRES ACC, SENSOR KIT
TTE 1-3	3	A/1K-2W-A-80'-PB	ACI	N/A	RTD,COPPER AVERAGING,80'
TTE 4	1	QAE2012.005	SIEMENS	149919	IMMERSION TMP SNSR, PT 1K OHM(385) 2.5"
TTE 5	1	QAM2012.045	SIEMENS	149915	DUCT PNT TEMP, PT 1K OHM(385), 18" RIGID
V					SEE VALVE SUBMITTAL
Panel Mounted Devices					
RE 1-2	2	RIBU1S	FUNCTIONAL DEVICES	1208cut015	RIB 120VAC 24VAC/DC HOA SPST
RE 4-5	2	RH2B-UL-AC24VKIT	IDEC	1202cut016	RELAY&SOC,GP DPDT AC24V W/LED
RE 8	1	RIBU1S	FUNCTIONAL DEVICES	1208cut015	RIB 120VAC 24VAC/DC HOA SPST

VAV AIR HANDLING UNIT AHU-2 SEQUENCE OF OPERATION

THIS UNIT INCLUDES A SINGLE PATH AIR HANDLING UNIT WITH VAV SUPPLY FAN, VAV RETURN FAN, OUTSIDE AIR DAMPER, RELIEF AIR DAMPER, RETURN AIR DAMPER, HOT WATER PREHEAT COIL AND CHILLED WATER COOLING COIL. THIS UNIT SHALL BE CONTROLLED BY A DEDICATED DIGITAL CONTROLLER. THE CONTROLLER SHALL BE CONNECTED TO THE FACILITY MANAGEMENT SYSTEM (FMS) CONTROL NETWORK TO ALLOW COMMUNICATION BETWEEN CONTROLLERS. THE CONTROLLER SHALL BE EXPANDABLE FOR THE ADDITION OF FUTURE INPUTS AND OUTPUTS.

THIS UNIT SHALL OPERATE IN OCCUPIED OR UNOCCUPIED MODE BASED ON THE OCCUPANCY SCHEDULE. THE OCCUPANCY SCHEDULE SHALL BE ADJUSTABLE AT THE OPERATOR INTERFACE.

DURING UNOCCUPIED MODE, THE SUPPLY FAN AND RETURN FAN SHALL BE OFF, THE OUTSIDE AIR AND RELIEF AIR DAMPERS SHALL BE CLOSED, THE RETURN DAMPER SHALL BE OPEN, THE HOT WATER VALVE SHALL REMAIN UNDER CONTROL, THE CHILLED WATER VALVE SHALL BE CLOSED. ON A CALL FOR HEATING OR COOLING FROM AN AIR TERMINAL UNIT CONTROLLER, UNIT OPERATION SHALL BE AS DESCRIBED IN OCCUPIED MODE. MINIMUM OUTDOOR AIR POSITION SHALL BE ZERO.

DURING OCCUPIED MODE, THE SUPPLY FAN SPEED SHALL MODULATE TO MAINTAIN DUCT STATIC PRESSURE. THE RETURN FAN SPEED SHALL MODULATE TO MAINTAIN AN AIRFLOW DIFFERENTIAL BETWEEN THE SUPPLY AIRFLOW AND RETURN AIRFLOW. THE CONTROLLER SHALL MODULATE THE OUTSIDE AIR DAMPER, RELIEF AIR DAMPER, AND THE RETURN AIR DAMPER TO MAINTAIN MINIMUM OUTDOOR AIRFLOW BASED ON OUTDOOR AIRFLOW MEASURING STATION. THE CONTROLLER SHALL MODULATE THE COOLING COIL CONTROL VALVE TO MAINTAIN A 55 DEG. F (ADJ) UNIT DISCHARGE AIR TEMPERATURE. IF THE OUTDOOR AIR TEMPERATURE IS BELOW 55 DEGREES, THE OUTSIDE AIR AND RETURN AIR DAMPERS SHALL MODULATE BETWEEN MINIMUM POSITIONS AND MAXIMUM POSITION (100% O.A., 0% R.A.) IN UNISON TO MAINTAIN ECONOMIZER COOLING SEQUENCE. RETURN AIR DAMPER SHALL BE REVERSE ACTING TO OUTSIDE AIR DAMPER AND RELIEF AIR DAMPER. IF ECONOMIZER COOLING IS UNABLE TO MAINTAIN DISCHARGE AIR TEMPERATURE SETPOINT, THE CONTROLLER SHALL MODULATE THE COOLING COIL CONTROL VALVE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT. IF SUPPLY AIR TEMPERATURE FALLS BELOW 55°F, THE CONTROLLER SHALL MODULATE THE PREHEAT COIL CONTROL VALVE TO MAINTAIN DISCHARGE AIR TEMPERATURE SETPOINT.

THE CONTROLLER SHALL MONITOR OUTDOOR AIR FLOW. IF OUTDOOR AIR FLOW FALLS BELOW OUTDOOR AIR DESIGN SETPOINT, THE CONTROLLER SHALL ALARM AT THE OPERATOR INTERFACE. PRE-HEAT COIL PUMP SHALL OPERATE AT ANY TIME OAT IS BELOW 40°F (ADJ).

THE CONTROLLER SHALL RESET THE SUPPLY DUCT STATIC PRESSURE SETPOINT BASED ON AIR TERMINAL DAMPER POSITION. CRITICAL ZONE RESET SEQUENCE.

THE MECHANICAL ROOM 048 RELIEF AIR DAMPER SHALL BE ENABLED DURING OCCUPIED OPERATION OF AHU-2, AHU-3, AND AHU-4 LOCATED IN MECHANICAL ROOM 048. THE CONTROLLER SHALL MODULATE THE MECHANICAL ROOM 048 RELIEF AIR DAMPER TO MAINTAIN 0.03" W.C.. CONTROLLER SHALL ALARM IF ZONE PRESSURE IS ABOVE OR BELOW SETPOINT BY USER DEFINED AMOUNT.

THIS UNIT SHALL BE STOPPED AND AN ALARM GENERATED AT THE OPERATOR INTERFACE WHENEVER A SAFETY DEVICE IS

REVISION HISTORY

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KV AHU 2 SYSTEM BOM/SEQ

440P410840
100

100C

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TRIPPED. SAFETY DEVICES SHALL CONSIST OF LOW TEMPERATURE DETECTION THERMOSTATS, HIGH DUCT STATIC PRESSURE SWITCH AND SMOKE DETECTORS.

ALL SAFETY DEVICES SHALL BE HARDWIRED. ALARMS:

1. SUPPLY AIR TEMPERATURE – SUPPLY AIR TEMPERATURE ABOVE MAXIMUM BY A USER DEFINED AMOUNT (ADJ).
2. SUPPLY FAN FAILURE
3. RETURN FAN FAILURE
4. SUPPLY FAN VFD FAULT
5. RETURN FAN VFD FAULT
6. RETURN AIR HUMIDITY – RETURN AIR HUMIDITY ABOVE MAXIMUM BY A USER DEFINED AMOUNT (ADJ).
7. COIL PUMP – ALARM IF PUMP STATUS DOES NOT MATCH COMMANDED PUMP STATE
8. RETURN STATIC PRESSURE BELOW USER DEFINED AMOUNT
9. SUPPLY STATIC PRESSURE ABOVE USER DEFINED AMOUNT (PRESSURE UPSTREAM OF SMOKE ISOLATION DAMPER)

REVISION HISTORY

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KV AHU 2 CONTROL SYSTEM

440P410840
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DRAWING NOTES: (#)

1. DAMPERS PROVIDED BY OTHERS AND ACTUATORS PROVIDED AND WIRED BY SIEMENS.
2. RELAYS MOUNTED IN EXISTING CONTROL PANEL.
3. SMOKE ISOLATION DAMPERS,END SWITCHES AND ITS ACTUATORS ARE PROVIDED BY OTHERS.
4. SMOKE DETECTOR PROVIDED BY OTHERS,INTERLOCK WIRING BY SIEMENS.
5. SUPPLY FAN, RETURN FAN AND THEIR ASSOCIATED AFMS ARE PROVIDED BY OTHERS.
6. FOR VALVE DETAILS,REFER TO VALVE SCHEDULE.

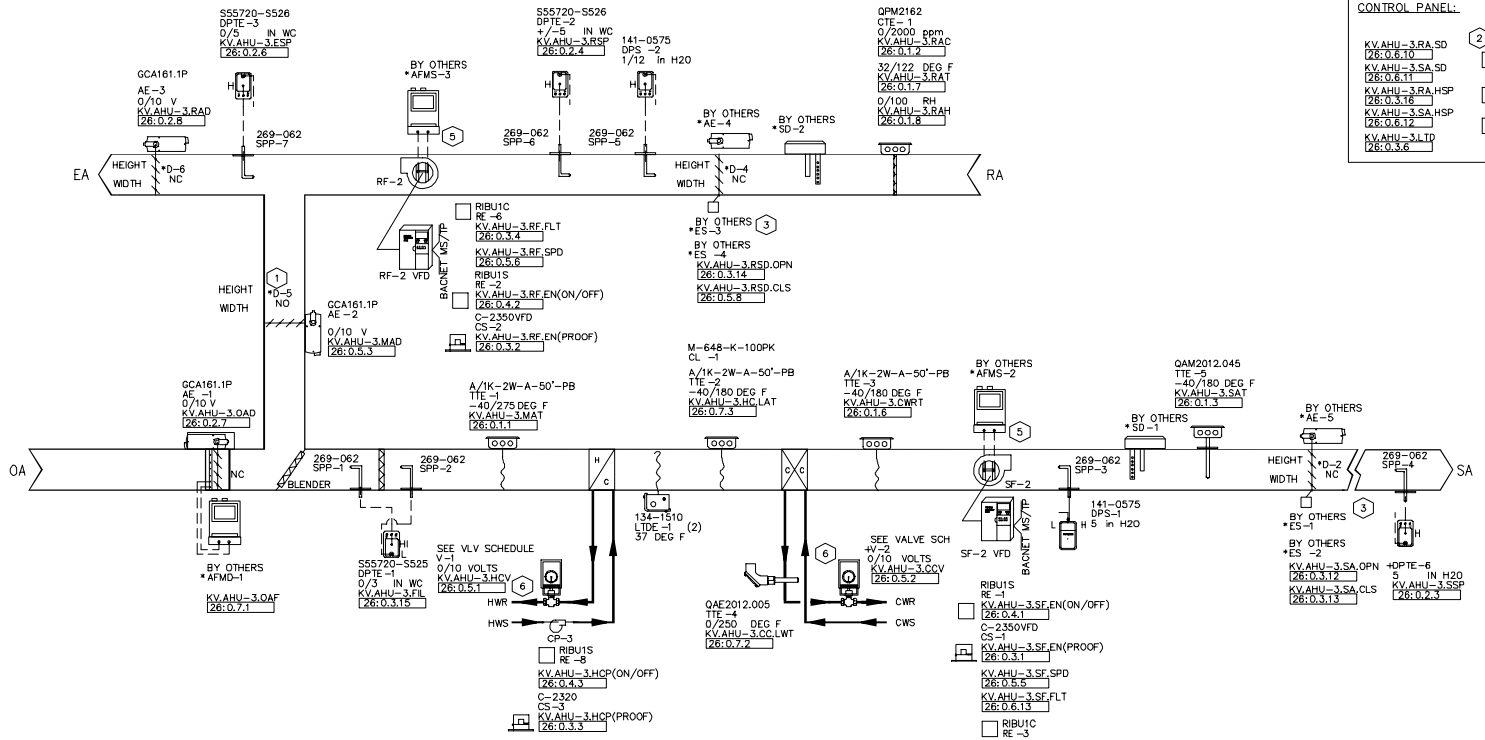
GENERAL NOTES:

1. "*" DENOTES PROVIDED BY OTHER.
2. "+" DENOTES TO BE EXISTING.

CONTROL PANEL:

KV.AHU-3.RA.SD 26:0.6.10
KV.AHU-3.SA.SD 26:0.6.11
KV.AHU-3.RA.HSP 26:0.3.16
KV.AHU-3.SA.HSP 26:0.6.12
KV.AHU-3.LTD 26:0.3.6

(2) RIBMNLB-6 RB -1 SAFETY RELAY
RH2B-UL-AC24VKIT RE -4
RH2B-UL-AC24VKIT RE -5



(1/101) KV AHU 3 CONTROL SYSTEM

REF#	FIELD PANEL NAME	FIELD PANEL NODE NAME
26	SE-KV-048-PNL-26	SE-KV-048-PNL-26

REVISION HISTORY

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KV AHU 3 CONTROL SYSTEM

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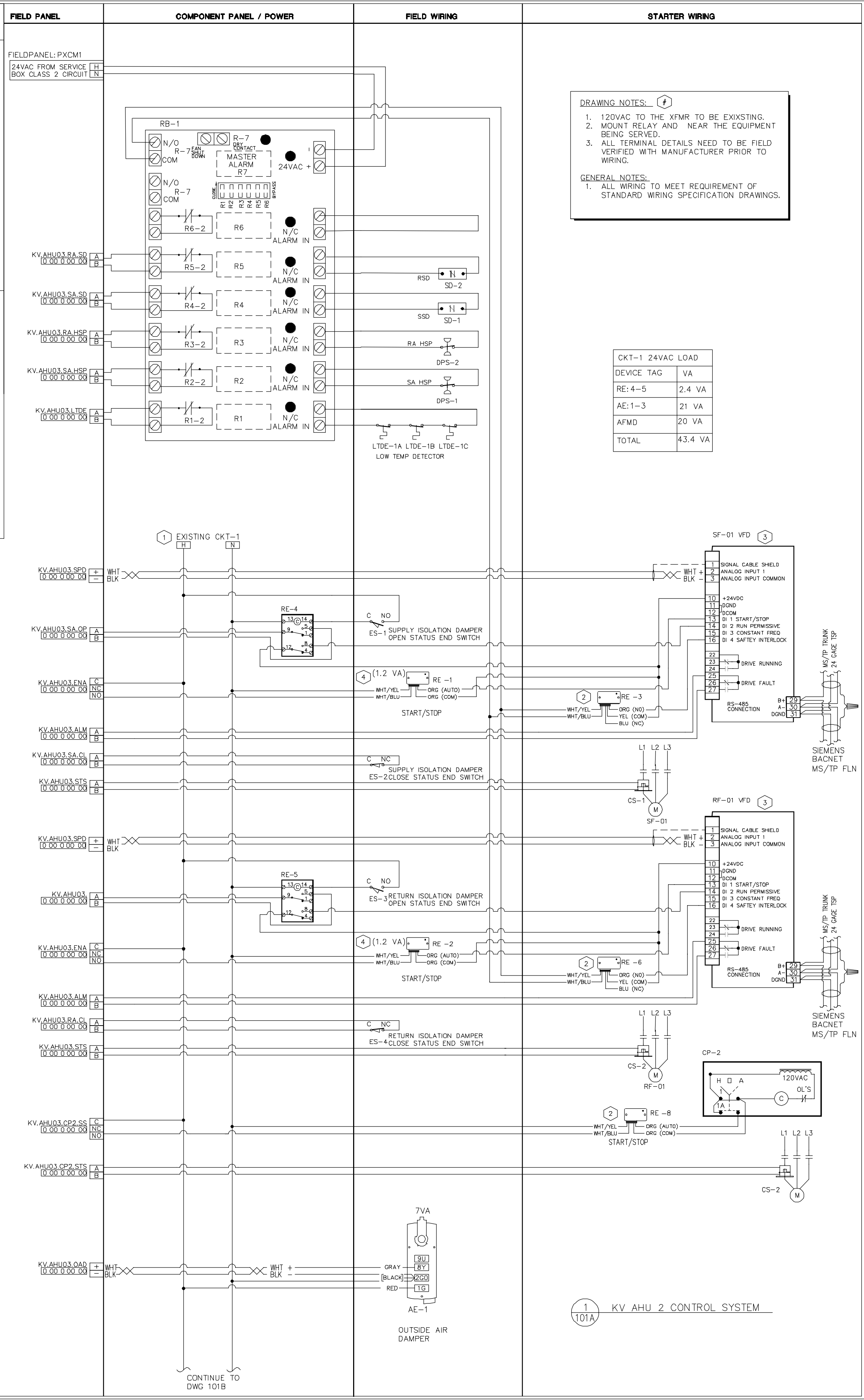

FIELD PANEL
COMPONENT PANEL / POWER
FIELD WIRING
STARTER WIRING
FIELDPANEL: PXCM1
24VAC FROM SERVICE BOX CLASS 2 CIRCUIT
RB-1
N/O
COM
R-7 FAN SHUT DOWN
R-7 DRY CONTACT
MASTER ALARM R7
24VAC
R6-2 R6 N/C ALARM IN
KV.AHU03.RA.SD
R5-2 R5 N/C ALARM IN
RSD SD-2
KV.AHU03.SA.SD
R4-2 R4 N/C ALARM IN
SSD SD-1
KV.AHU03.RA.HSP
R3-2 R3 N/C ALARM IN
RA HSP DPS-2
KV.AHU03.SA.HSP
R2-2 R2 N/C ALARM IN
SA HSP DPS-1
KV.AHU03.LTDE
R1-2 R1 N/C ALARM IN
LTDE-1A LTDE-1B LTDE-1C
LOW TEMP DETECTOR
EXISTING CKT-1
KV.AHU03.SPD
WHT BLK
RE-4
KV.AHU03.SA.OP
ES-1 SUPPLY ISOLATION DAMPER OPEN STATUS END SWITCH
KV.AHU03.ENA
(1.2 VA) RE -1
WHT/YEL WHT/BLU ORG (AUTO) ORG (COM)
START/STOP
RE -3
WHT/YEL WHT/BLU ORG (NO) YEL (COM) BLU (NC)
KV.AHU03.ALM
KV.AHU03.SA.CL
ES-2 SUPPLY ISOLATION DAMPER CLOSE STATUS END SWITCH
KV.AHU03.STS
SF-01 VFD
SIGNAL CABLE SHIELD
ANALOG INPUT 1
ANALOG INPUT COMMON
+24VDC
DGND
DCOM
DI 1 START/STOP
DI 2 RUN PERMISSIVE
DI 3 CONSTANT FREQ
DI 4 SAFTEY INTERLOCK
DRIVE RUNNING
DRIVE FAULT
RS-485 CONNECTION
MS/TP TRUNK 24 GAGE TSP
SIEMENS BACNET MS/TP FLN
L1 L2 L3
CS-1
SF-01
RF-01 VFD
RE-5
KV.AHU03.
ES-3 RETURN ISOLATION DAMPER OPEN STATUS END SWITCH
RE -2
RE -6
KV.AHU03.RA.CL
ES-4 RETURN ISOLATION DAMPER CLOSE STATUS END SWITCH
CS-2
RF-01
CP-2
H O A
120VAC
OL'S
KV.AHU03.CP2.SS
RE -8
KV.AHU03.CP2.STS
7VA
KV.AHU03.OAD
GRAY [BLACK] RED
9U 8Y 2G0 1G
AE-1
OUTSIDE AIR DAMPER
CONTINUE TO DWG 101B
1 / 101A KV AHU 2 CONTROL SYSTEM

DRAWING NOTES:

1. 120VAC TO THE XFMR TO BE EXIXSTING.
2. MOUNT RELAY AND NEAR THE EQUIPMENT BEING SERVED.
3. ALL TERMINAL DETAILS NEED TO BE FIELD VERIFIED WITH MANUFACTURER PRIOR TO WIRING.

GENERAL NOTES:

1. ALL WIRING TO MEET REQUIREMENT OF STANDARD WIRING SPECIFICATION DRAWINGS.

CKT-1 24VAC LOAD	
DEVICE TAG	VA
RE: 4-5	2.4 VA
AE: 1-3	21 VA
AFMD	20 VA
TOTAL	43.4 VA

REVISION HISTORY

REF #	FIELD PANEL NAME	FIELD PANEL NODE NAME
N01	MWCH.PXCM1	PXCM1

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KV AHU 3 CONTROL SYSTEM

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440P-410840
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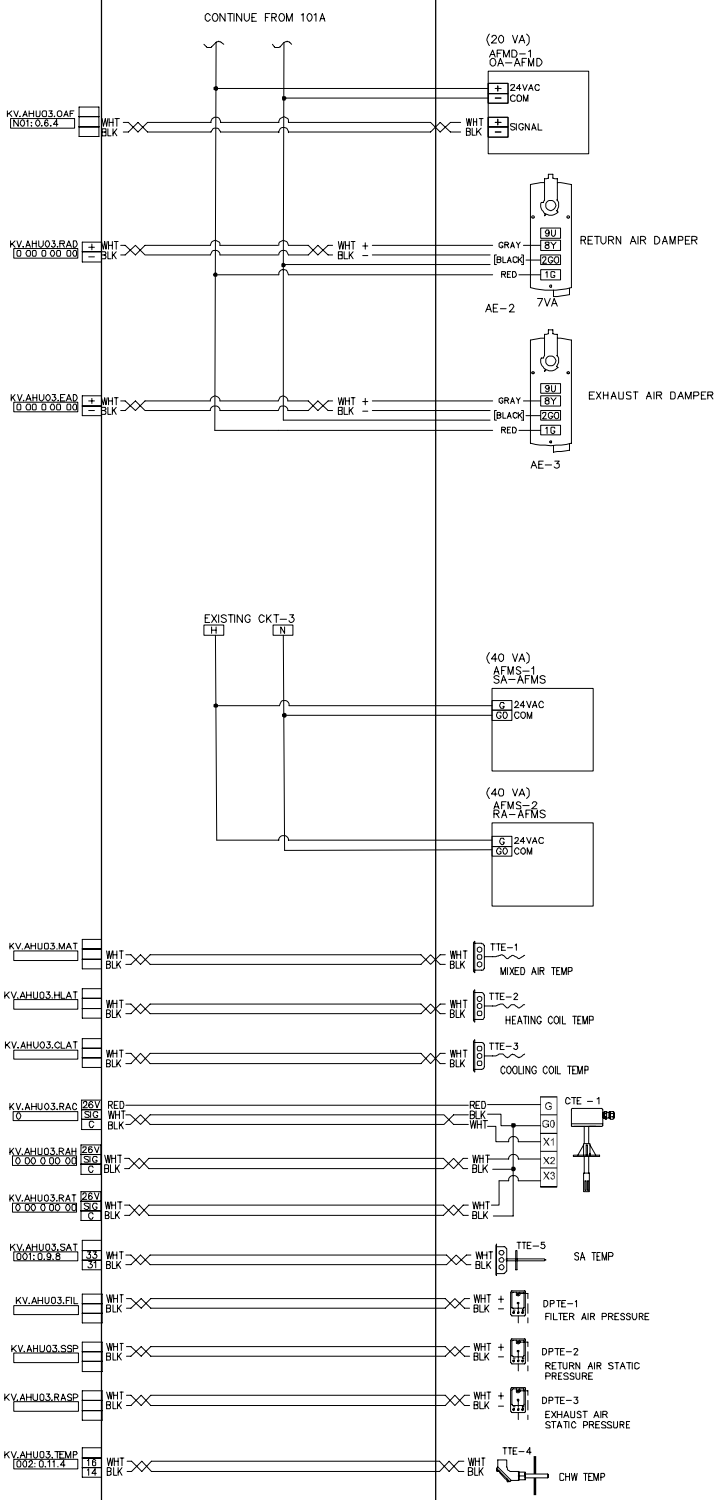
REVISION HISTORY

REF #	FIELD PANEL NAME	FIELD PANEL NODE NAME
18	PUH.NODE18	PUHNODE18

FIELD PANEL | **COMPONENT PANEL / POWER** | **FIELD WIRING** | **STARTER WIRING**



CKT-4 24VAC LOAD	
DEVICE TAG	VA
AFMS:1-4	60 VA
TOTAL	60 VA

CKT-3 24VAC LOAD	
DEVICE TAG	VA
AFMS:1-2	80 VA
TOTAL	80 VA

1 / 101B KV AHU 3 CONTROL SYSTEM

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NEW ALBANY,

KV AHU 3 CONTROL SYSTEM

ENGINEER	DRAFTER	CHECKED BY	INITIAL RELEASE	LAST EDIT DATE
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440P-410840
101
101B

Control Device	Qty	Product Number	Manufacturer	Document Number	Description
Field Mounted Devices					
AE 1-3	3	GCA161.1P	SIEMENS	154001	MOD(V) SR,24V, MED. PLNM
CS 1-2	2	C-2350VFD	SENVA INC	C(VFD)	Current Sw,Split,AutoSet VFD,3.5-135A
CS 3	1	C-2320	SENVA	N/A	CURRENT SW,SPLIT,PRESET,ADJ,0.45-100A
CTE 1	1	QPM2162	SIEMENS	149909	DUCT CO2 + TEMP + RH SENSOR, 0-10V
DPS 1-2	2	141-0575	SIEMENS	155 052	AIR FLOW SWITCH.05/12 MAN REST
DPTE 1	1	S55720-S525	SIEMENS	N/A	QBM3230U3D Pressure Sensor
DPTE 2-3	2	S55720-S526	SIEMENS	N/A	QBM3230U5D Pressure Sensor
HTTE 1	1	QFM2100	SIEMENS	149991	DUCT RH SENSOR, 0-10V, 5%
LTDE 1	2	134-1510	SIEMENS	155 115	LOW TEMP DET STATAUTO RESET
RB 1	1	RIBMNLB-6	FUNCTIONAL	RIBMNLB-6	AHU FAN SAFETY ALARM CIRCUIT 6-INPUT
RE 1-2	2	RIBU1S	FUNCTIONAL DEVICES	1208cut015	RIB 120VAC 24VAC/DC HOA SPST
RE 3	1	RIBU1C	FUNCTIONAL DEVICES	1208cut013	OBS/BY RIBU1C FD 120VAC 24VAC/DC SPDT
RE 4-5	2	RH2B-UL-AC24VKIT	IDEC	1202cut016	RELAY&SOC,GP DPDT AC24V W/LED
RE 6	1	RIBU1C	FUNCTIONAL DEVICES	1208cut013	OBS/BY RIBU1C FD 120VAC 24VAC/DC SPDT
RE 8	1	RIBU1C	FUNCTIONAL DEVICES	1208cut013	OBS/BY RIBU1C FD 120VAC 24VAC/DC SPDT
SPP 1-7	7	269-062	SIEMENS	N/A	PR269 ACCESSORY, SENSING TUBE
TTE 1-3	3	A/1K-2W-A-50'-PB	ACI	N/A	RTD,COPPER AVERAGING,50'
TTE 4	1	QAE2012.005	SIEMENS	149919	IMMERSION TMP SNSR, PT 1K OHM(385) 2.5"
TTE 5	1	QAM2012.045	SIEMENS	149915	DUCT PNT TEMP, PT 1K OHM(385), 18" RIGID
V					SEE VALVE SUBMITTAL

VAV AIR HANDLING UNIT AHU-3 SEQUENCE OF OPERATION

THIS UNIT INCLUDES A SINGLE PATH AIR HANDLING UNIT WITH VAV SUPPLY FAN, VAV RETURN FAN, OUTSIDE AIR DAMPER, RELIEF AIR DAMPER, RETURN AIR DAMPER, HOT WATER PREHEAT COIL AND CHILLED WATER COOLING COIL. THIS UNIT SHALL BE CONTROLLED BY A DEDICATED DIGITAL CONTROLLER. THE CONTROLLER SHALL BE CONNECTED TO THE FACILITY MANAGEMENT SYSTEM (FMS) CONTROL NETWORK TO ALLOW COMMUNICATION BETWEEN CONTROLLERS. THE CONTROLLER SHALL BE EXPANDABLE FOR THE ADDITION OF FUTURE INPUTS AND OUTPUTS.

THIS UNIT SHALL OPERATE IN OCCUPIED OR UNOCCUPIED MODE BASED ON THE OCCUPANCY SCHEDULE. THE OCCUPANCY SCHEDULE SHALL BE ADJUSTABLE AT THE OPERATOR INTERFACE.

DURING UNOCCUPIED MODE, THE SUPPLY FAN AND RETURN FAN SHALL BE OFF, THE OUTSIDE AIR AND RELIEF AIR DAMPERS SHALL BE CLOSED, THE RETURN DAMPER SHALL BE OPEN, THE HOT WATER VALVE SHALL REMAIN UNDER CONTROL, THE CHILLED WATER VALVE SHALL BE CLOSED. ON A CALL FOR HEATING OR COOLING FROM AN AIR TERMINAL UNIT CONTROLLER, UNIT OPERATION SHALL BE AS DESCRIBED IN OCCUPIED MODE. MINIMUM OUTDOOR AIR POSITION SHALL BE ZERO.

DURING OCCUPIED MODE, THE SUPPLY FAN SPEED SHALL MODULATE TO MAINTAIN DUCT STATIC PRESSURE. THE RETURN FAN SPEED SHALL MODULATE TO MAINTAIN AN AIRFLOW DIFFERENTIAL BETWEEN THE SUPPLY AIRFLOW AND RETURN AIRFLOW. THE CONTROLLER SHALL MODULATE THE OUTSIDE AIR DAMPER, RELIEF AIR DAMPER, AND THE RETURN AIR DAMPER TO MAINTAIN MINIMUM OUTDOOR AIRFLOW BASED ON OUTDOOR AIRFLOW MEASURING STATION. THE CONTROLLER SHALL MODULATE THE COOLING COIL CONTROL VALVE TO MAINTAIN A 55 DEG. F (ADJ) UNIT DISCHARGE AIR TEMPERATURE. IF THE OUTDOOR AIR TEMPERATURE IS BELOW 55 DEGREES, THE OUTSIDE AIR AND RETURN AIR DAMPERS SHALL MODULATE BETWEEN MINIMUM POSITIONS AND MAXIMUM POSITION (100% O.A., 0% R.A.) IN UNISON TO MAINTAIN ECONOMIZER COOLING SEQUENCE. RETURN AIR DAMPER SHALL BE REVERSE ACTING TO OUTSIDE AIR DAMPER AND RELIEF AIR DAMPER. IF ECONOMIZER COOLING IS UNABLE TO MAINTAIN DISCHARGE AIR TEMPERATURE SETPOINT, THE CONTROLLER SHALL MODULATE THE COOLING COIL CONTROL VALVE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT. IF SUPPLY AIR TEMPERATURE FALLS BELOW 55°F, THE CONTROLLER SHALL MODULATE THE PREHEAT COIL CONTROL VALVE TO MAINTAIN DISCHARGE AIR TEMPERATURE SETPOINT.

THE CONTROLLER SHALL MONITOR OUTDOOR AIR FLOW. IF OUTDOOR AIR FLOW FALLS BELOW OUTDOOR AIR DESIGN SETPOINT, THE CONTROLLER SHALL ALARM AT THE OPERATOR INTERFACE. PRE-HEAT COIL PUMP SHALL OPERATE AT ANY TIME OAT IS BELOW 40°F (ADJ).

THE CONTROLLER SHALL RESET THE SUPPLY DUCT STATIC PRESSURE SETPOINT BASED ON AIR TERMINAL DAMPER POSITION. CRITICAL ZONE RESET SEQUENCE.

THE MECHANICAL ROOM 048 RELIEF AIR DAMPER SHALL BE ENABLED DURING OCCUPIED OPERATION OF AHU-2, AHU-3, AND AHU-4 LOCATED IN MECHANICAL ROOM 048. THE CONTROLLER SHALL MODULATE THE MECHANICAL ROOM 048 RELIEF AIR DAMPER TO MAINTAIN 0.03" W.C.. CONTROLLER SHALL ALARM IF ZONE PRESSURE IS ABOVE OR BELOW SETPOINT BY USER DEFINED AMOUNT.

THIS UNIT SHALL BE STOPPED AND AN ALARM GENERATED AT THE OPERATOR INTERFACE WHENEVER A SAFETY DEVICE IS TRIPPED. SAFETY DEVICES SHALL CONSIST OF LOW TEMPERATURE DETECTION THERMOSTATS, HIGH DUCT STATIC PRESSURE SWITCH AND SMOKE DETECTORS.
ALL SAFETY DEVICES SHALL BE HARDWIRED. ALARMS:

1. SUPPLY AIR TEMPERATURE – SUPPLY AIR TEMPERATURE ABOVE MAXIMUM BY A USER DEFINED AMOUNT (ADJ).
2. SUPPLY FAN FAILURE
3. RETURN FAN FAILURE
4. SUPPLY FAN VFD FAULT
5. RETURN FAN VFD FAULT
6. RETURN AIR HUMIDITY – RETURN AIR HUMIDITY ABOVE MAXIMUM BY A USER DEFINED AMOUNT (ADJ).
7. COIL PUMP – ALARM IF PUMP STATUS DOES NOT MATCH COMMANDED PUMP STATE
8. RETURN STATIC PRESSURE BELOW USER DEFINED AMOUNT
9. SUPPLY STATIC PRESSURE ABOVE USER DEFINED AMOUNT (PRESSURE UPSTREAM OF SMOKE ISOLATION DAMPER)

REVISION HISTORY

SIEMENS

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SMART INFRASTRUCTURE

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IUSE KNOBVIEW AHU REPLACEMENT
NEW ALBANY,

ENGINEER	DRAFTER	CHECKED BY	INITIAL RELEASE	LAST EDIT DATE
DC	DC	MM	01/19/26	01/19/26

KV AHU 3 SYSTEM BOM/SEQ

440P-410840
101

101C

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DRAWING NOTES: (#)

1. DAMPERS PROVIDED BY OTHERS AND ACTUATORS PROVIDED AND WIRED BY SIEMENS.
2. RELAYS MOUNTED IN EXISTING CONTROL PANEL.
3. SMOKE ISOLATION DAMPERS,END SWITCHES AND ITS ACTUATORS ARE PROVIDED BY OTHERS.
4. SMOKE DETECTOR PROVIDED BY OTHERS,INTERLOCK WIRING BY SIEMENS.
5. SUPPLY FAN, RETURN FAN AND THEIR ASSOCIATED AFMS ARE PROVIDED BY OTHERS.
6. FOR VALVE DETAILS,REFER TO VALVE SCHEDULE.

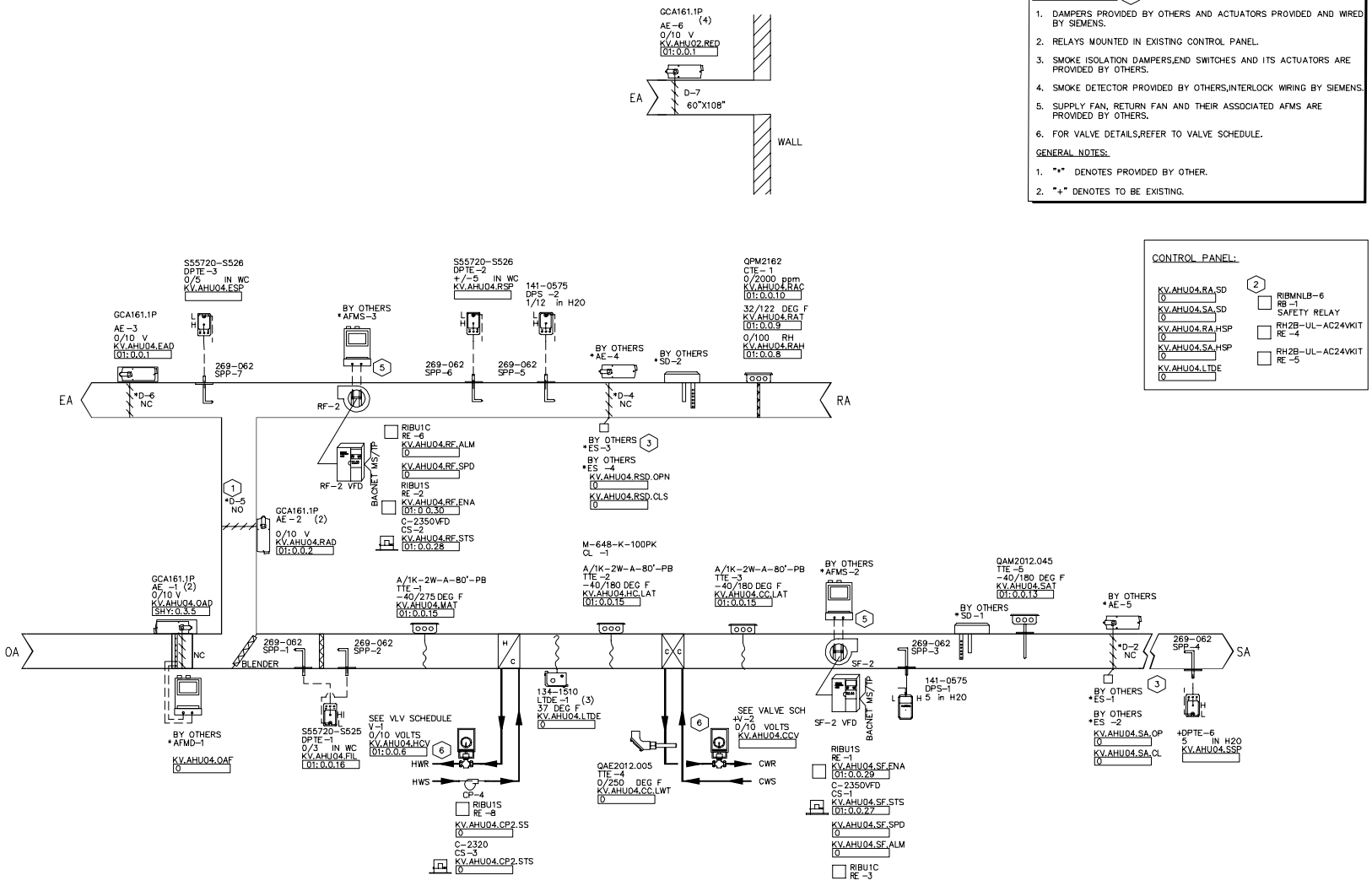
GENERAL NOTES:

1. "*" DENOTES PROVIDED BY OTHER.
2. "+" DENOTES TO BE EXISTING.

CONTROL PANEL:

KV.AHU04.RA.SD
KV.AHU04.SA.SD
KV.AHU04.RA.HSP
KV.AHU04.SA.HSP
KV.AHU04.LTDE

(2) RIBMNLB-6 RB -1 SAFETY RELAY
RH2B-UL-AC24VKIT RE -4
RH2B-UL-AC24VKIT RE -5



1/102 KV AHU 4 CONTROL SYSTEM

REF#	FIELD PANEL NAME	FIELD PANEL NODE NAME
01	CSA.SAC1.PXC36	CSASAC1PXC36

REVISION HISTORY

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KV AHU 4 CONTROL SYSTEM

440P-410840
102

102

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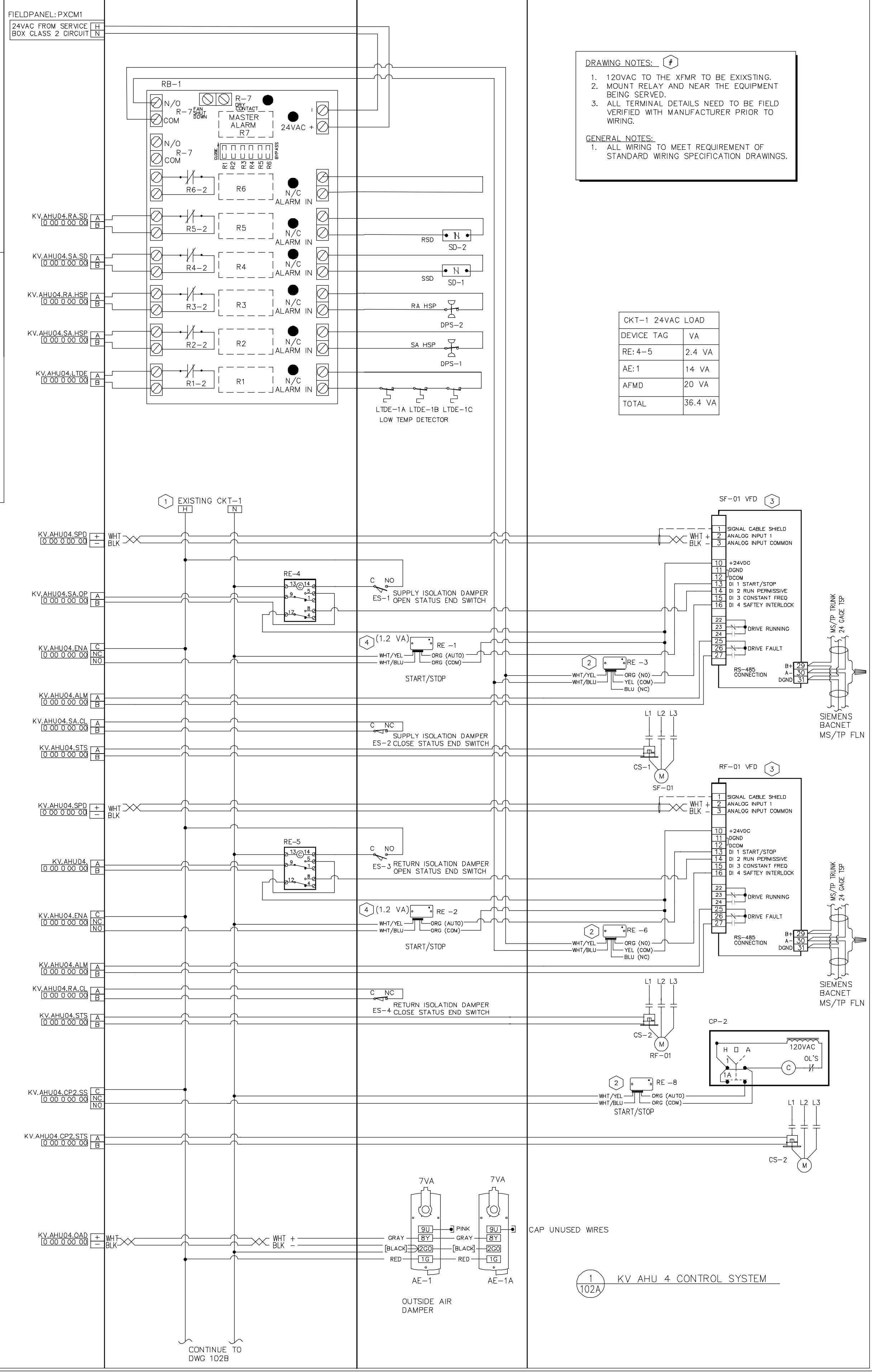
KV AHU 4 CONTROL SYSTEM

FIELD PANEL | COMPONENT PANEL / POWER | FIELD WIRING | STARTER WIRING



FIELDPANEL: PXCM1
24VAC FROM SERVICE BOX CLASS 2 CIRCUIT
RB-1
MASTER ALARM R7
24VAC
N/C ALARM IN
KV.AHU04.RA.SD
KV.AHU04.SA.SD
KV.AHU04.RA.HSP
KV.AHU04.SA.HSP
KV.AHU04.LTDE
RSD SD-2
SSD SD-1
RA HSP DPS-2
SA HSP DPS-1
LTDE-1A LTDE-1B LTDE-1C
LOW TEMP DETECTOR
EXISTING CKT-1
KV.AHU04.SPD
KV.AHU04.SA.OP
KV.AHU04.ENA
KV.AHU04.ALM
KV.AHU04.SA.CL
KV.AHU04.STS
KV.AHU04.RA.CL
KV.AHU04.CP2.SS
KV.AHU04.CP2.STS
KV.AHU04.OAD
RE-4
RE-5
ES-1 SUPPLY ISOLATION DAMPER OPEN STATUS END SWITCH
ES-2 SUPPLY ISOLATION DAMPER CLOSE STATUS END SWITCH
ES-3 RETURN ISOLATION DAMPER OPEN STATUS END SWITCH
ES-4 RETURN ISOLATION DAMPER CLOSE STATUS END SWITCH
RE-1 START/STOP
RE-2 START/STOP
RE-3
RE-6
RE-8 START/STOP
SF-01 VFD
RF-01 VFD
SIGNAL CABLE SHIELD
ANALOG INPUT 1
ANALOG INPUT COMMON
+24VDC
DGND
DCOM
DI 1 START/STOP
DI 2 RUN PERMISSIVE
DI 3 CONSTANT FREQ
DI 4 SAFTEY INTERLOCK
DRIVE RUNNING
DRIVE FAULT
RS-485 CONNECTION
MS/TP TRUNK 24 GAGE TSP
SIEMENS BACNET MS/TP FLN
CS-1 SF-01
CS-2 RF-01
CP-2 120VAC
CS-2
7VA
AE-1 AE-1A
OUTSIDE AIR DAMPER
CAP UNUSED WIRES
CONTINUE TO DWG 102B

DRAWING NOTES:

1. 120VAC TO THE XFMR TO BE EXIXSTING.
2. MOUNT RELAY AND NEAR THE EQUIPMENT BEING SERVED.
3. ALL TERMINAL DETAILS NEED TO BE FIELD VERIFIED WITH MANUFACTURER PRIOR TO WIRING.

GENERAL NOTES:

1. ALL WIRING TO MEET REQUIREMENT OF STANDARD WIRING SPECIFICATION DRAWINGS.

CKT-1 24VAC LOAD	
DEVICE TAG	VA
RE: 4-5	2.4 VA
AE: 1	14 VA
AFMD	20 VA
TOTAL	36.4 VA

1/102A KV AHU 4 CONTROL SYSTEM

REVISION HISTORY

REF #	FIELD PANEL NAME	FIELD PANEL NODE NAME
NO1	MWCH.PXCM1	PXCM1

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IUSE KNOBVIEW AHU REPLACEMENT
NEW ALBANY,

KV AHU 4 CONTROL SYSTEM

ENGINEER	DRAFTER	CHECKED BY	INITIAL RELEASE	LAST EDIT DATE
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440P-410840
102
102A

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REVISION HISTORY

REF#	FIELD PANEL NAME	FIELD PANEL NODE NAME
18	PUH.NODE18	PUHNODE18

FIELD PANEL | COMPONENT PANEL / POWER | FIELD WIRING | STARTER WIRING

CONTINUE FROM 102A

(20 VA)
AFMD-1
OA-AFMD
+ 24VAC
− COM
+ SIGNAL −

KV.AHU04.OAF
N01: 0.6.4
WHT
BLK

EXISTING CKT-2
H
N

KV.AHU04.RAD
0 00 0 00 00
+ WHT
− BLK
WHT +
BLK −
GRAY 9U 8Y
BLACK 2G0
RED 1G
RETURN AIR DAMPER
7VA
AE-2
7VA
AE-2A

KV.AHU04.EAD
0 00 0 00 00
EXHAUST AIR DAMPER
AE-3

EXISTING CKT-3
H
N

(40 VA)
AFMS-1
SA-AFMS
G 24VAC
G0 COM

(40 VA)
AFMS-2
RA-AFMS
G 24VAC
G0 COM

KV.AHU04.MAT
WHT
BLK
TTE-1
MIXED AIR TEMP

KV.AHU04.HLAT
TTE-2
HEATING COIL TEMP

KV.AHU04.CLAT
TTE-3
COOLING COIL TEMP

KV.AHU04.RAC
0
26V
SIG
C
RED
WHT
BLK
CTE-1
G
G0
X1
X2
X3

KV.AHU04.RAH
0 00 0 00 00

KV.AHU04.RAT
0 00 0 00 00

KV.AHU04.SAT
001: 0.9.8
33
31
TTE-5
SA TEMP

KV.AHU04.FIL
DPTE-1
FILTER AIR PRESSURE

KV.AHU04.SSP
DPTE-2
RETURN AIR STATIC PRESSURE

KV.AHU04.RASP
DPTE-3
EXHAUST AIR STATIC PRESSURE

KV.AHU04.TEMP
002: 0.11.4
16
14
TTE-4
CHW TEMP

CKT-2 24VAC LOAD	
DEVICE TAG	VA
AFMD:1	20 VA
AE:1-2	21 VA
TOTAL	41 VA

CKT-3 24VAC LOAD	
DEVICE TAG	VA
AFMS:1-2	80 VA
TOTAL	80 VA

1 / 102B KV AHU 4 CONTROL SYSTEM

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440P-410840
102
102B

Control Device	Qty	Product Number	Manufacturer	Document Number	Description
Field Mounted Devices					
AE 1-3	5	GCA161.1P	SIEMENS	154001	MOD(V) SR,24V, MED. PLNM
CS 1-2	2	C-2350VFD	SENVA INC	C(VFD)	Current Sw,Split,AutoSet VFD,3.5-135A
CS 3	1	C-2320	SENVA	N/A	CURRENT SW,SPLIT,PRESET,ADJ,0.45-100A
CTE 1	1	QPM2162	SIEMENS	149909	DUCT CO2 + TEMP + RH SENSOR, 0-10V
DPS 1-2	2	141-0575	SIEMENS	155 052	AIR FLOW SWITCH.05/12 MAN REST
DPTE 1	1	S55720-S525	SIEMENS	N/A	QBM3230U3D Pressure Sensor
DPTE 2-3	2	S55720-S526	SIEMENS	N/A	QBM3230U5D Pressure Sensor
HTTE 1	1	QFM2100	SIEMENS	149991	DUCT RH SENSOR, 0-10V, 5%
LTDE 1	3	134-1510	SIEMENS	155 115	LOW TEMP DET STATAUTO RESET
RB 1	1	RIBMNLB-6	FUNCTIONAL	RIBMNLB-6	AHU FAN SAFETY ALARM CIRCUIT 6-INPUT
RE 1-2	2	RIBU1S	FUNCTIONAL DEVICES	1208cut015	RIB 120VAC 24VAC/DC HOA SPST
RE 3	1	RIBU1C	FUNCTIONAL DEVICES	1208cut013	OBS/BY RIBU1C FD 120VAC 24VAC/DC SPDT
RE 4-5	2	RH2B-UL-AC24VKIT	IDEC	1202cut016	RELAY&SOC,GP DPDT AC24V W/LED
RE 6	1	RIBU1C	FUNCTIONAL DEVICES	1208cut013	OBS/BY RIBU1C FD 120VAC 24VAC/DC SPDT
RE 8	1	RIBU1C	FUNCTIONAL DEVICES	1208cut013	OBS/BY RIBU1C FD 120VAC 24VAC/DC SPDT
SPP 1-7	7	269-062	SIEMENS	N/A	PR269 ACCESSORY, SENSING TUBE
TTE 1-3	3	A/1K-2W-A-80'-PB	ACI	N/A	RTD,COPPER AVERAGING,80'
TTE 4	1	QAE2012.005	SIEMENS	149919	IMMERSION TMP SNSR, PT 1K OHM(385) 2.5"
TTE 5	1	QAM2012.045	SIEMENS	149915	DUCT PNT TEMP, PT 1K OHM(385), 18" RIGID
V					SEE VALVE SUBMITTAL

VAV AIR HANDLING UNIT AHU-2, AHU-3, AND AHU-4 SEQUENCE OF OPERATION

THIS UNIT INCLUDES A SINGLE PATH AIR HANDLING UNIT WITH VAV SUPPLY FAN, VAV RETURN FAN, OUTSIDE AIR DAMPER, RELIEF AIR DAMPER, RETURN AIR DAMPER, HOT WATER PREHEAT COIL AND CHILLED WATER COOLING COIL. THIS UNIT SHALL BE CONTROLLED BY A DEDICATED DIGITAL CONTROLLER. THE CONTROLLER SHALL BE CONNECTED TO THE FACILITY MANAGEMENT SYSTEM (FMS) CONTROL NETWORK TO ALLOW COMMUNICATION BETWEEN CONTROLLERS. THE CONTROLLER SHALL BE EXPANDABLE FOR THE ADDITION OF FUTURE INPUTS AND OUTPUTS.

THIS UNIT SHALL OPERATE IN OCCUPIED OR UNOCCUPIED MODE BASED ON THE OCCUPANCY SCHEDULE. THE OCCUPANCY SCHEDULE SHALL BE ADJUSTABLE AT THE OPERATOR INTERFACE.

DURING UNOCCUPIED MODE, THE SUPPLY FAN AND RETURN FAN SHALL BE OFF, THE OUTSIDE AIR AND RELIEF AIR DAMPERS SHALL BE CLOSED, THE RETURN DAMPER SHALL BE OPEN, THE HOT WATER VALVE SHALL REMAIN UNDER CONTROL, THE CHILLED WATER VALVE SHALL BE CLOSED. ON A CALL FOR HEATING OR COOLING FROM AN AIR TERMINAL UNIT CONTROLLER, UNIT OPERATION SHALL BE AS DESCRIBED IN OCCUPIED MODE. MINIMUM OUTDOOR AIR POSITION SHALL BE ZERO.

DURING OCCUPIED MODE, THE SUPPLY FAN SPEED SHALL MODULATE TO MAINTAIN DUCT STATIC PRESSURE. THE RETURN FAN SPEED SHALL MODULATE TO MAINTAIN AN AIRFLOW DIFFERENTIAL BETWEEN THE SUPPLY AIRFLOW AND RETURN AIRFLOW. THE CONTROLLER SHALL MODULATE THE OUTSIDE AIR DAMPER, RELIEF AIR DAMPER, AND THE RETURN AIR DAMPER TO MAINTAIN MINIMUM OUTDOOR AIRFLOW BASED ON OUTDOOR AIRFLOW MEASURING STATION. THE CONTROLLER SHALL MODULATE THE COOLING COIL CONTROL VALVE TO MAINTAIN A 55 DEG. F (ADJ) UNIT DISCHARGE AIR TEMPERATURE. IF THE OUTDOOR AIR TEMPERATURE IS BELOW 55 DEGREES, THE OUTSIDE AIR AND RETURN AIR DAMPERS SHALL MODULATE BETWEEN MINIMUM POSITIONS AND MAXIMUM POSITION (100% O.A., 0% R.A.) IN UNISON TO MAINTAIN ECONOMIZER COOLING SEQUENCE. RETURN AIR DAMPER SHALL BE REVERSE ACTING TO OUTSIDE AIR DAMPER AND RELIEF AIR DAMPER. IF ECONOMIZER COOLING IS UNABLE TO MAINTAIN DISCHARGE AIR TEMPERATURE SETPOINT, THE CONTROLLER SHALL MODULATE THE COOLING COIL CONTROL VALVE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT. IF SUPPLY AIR TEMPERATURE FALLS BELOW 55°F, THE CONTROLLER SHALL MODULATE THE PREHEAT COIL CONTROL VALVE TO MAINTAIN DISCHARGE AIR TEMPERATURE SETPOINT.

THE CONTROLLER SHALL MONITOR OUTDOOR AIR FLOW. IF OUTDOOR AIR FLOW FALLS BELOW OUTDOOR AIR DESIGN SETPOINT, THE CONTROLLER SHALL ALARM AT THE OPERATOR INTERFACE. PRE-HEAT COIL PUMP SHALL OPERATE AT ANY TIME OAT IS BELOW 40°F (ADJ).

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THIS UNIT SHALL BE STOPPED AND AN ALARM GENERATED AT THE OPERATOR INTERFACE WHENEVER A SAFETY DEVICE IS TRIPPED. SAFETY DEVICES SHALL CONSIST OF LOW TEMPERATURE DETECTION THERMOSTATS, HIGH DUCT STATIC PRESSURE SWITCH AND SMOKE DETECTORS.
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3. RETURN FAN FAILURE
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5. RETURN FAN VFD FAULT
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7. COIL PUMP – ALARM IF PUMP STATUS DOES NOT MATCH COMMANDED PUMP STATE
8. RETURN STATIC PRESSURE BELOW USER DEFINED AMOUNT
9. SUPPLY STATIC PRESSURE ABOVE USER DEFINED AMOUNT (PRESSURE UPSTREAM OF SMOKE ISOLATION DAMPER)

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