

KBSO Project #: 25142
Project Name: IU #20250569 – Replace AHU-5 and Update Controls
Issue Date: 2/12/2026

This Addendum number 1 to the drawings and specifications shall supplement, amend, and become a part of the bidding documents, plans, and specifications. All bids and construction contracts shall be based on these modifications to the original contract documents.

Part 1. General Clarification Items

- 1.01 Demolition of the existing AHU can start June 1st, 2026.
- 1.02 Owner will assist contractor for a Pre-Demolition max CFM reading of AHU in full cooling mode.
- 1.03 Contractor to provide filter media over all existing air diffusers and outlets for initial unit start up.
 - i. See owner provided drawings attached for quantity of air outlets and zones served by AHU-5.
- 1.04 Approved Haakon submittal is in the appendix at the end of the project manual.
- 1.05 The pre-purchase AHU will be shipped to the CS4 Building (1830 W. 16th St. Indianapolis, IN 46202) and the contractor will be responsible to move AHU parts from CS4 to the jobsite.

Part 2. SPECIFICATIONS

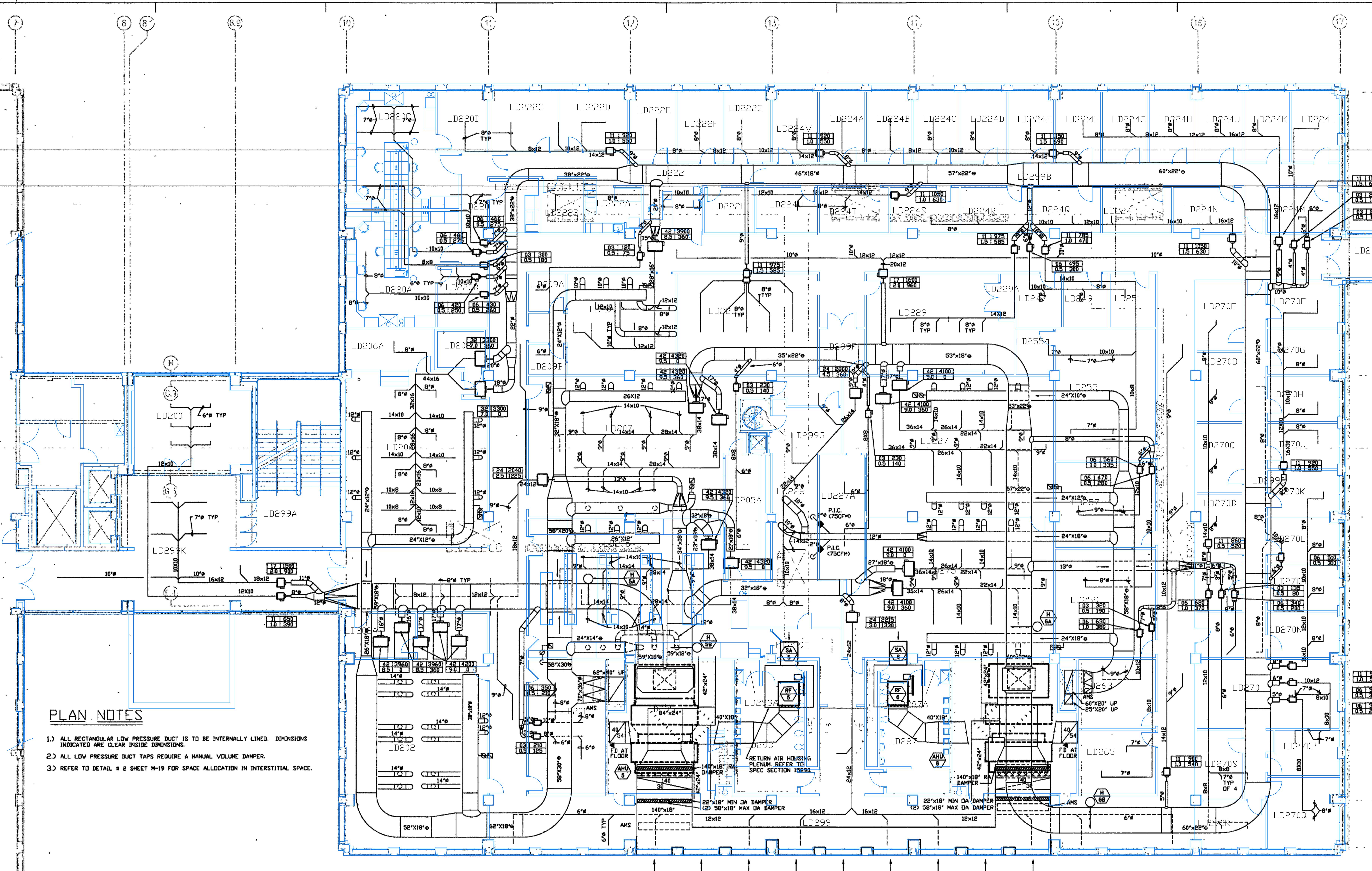
- 2.01 N/A

Part 3. DRAWINGS

- 3.01 M301 – MECHANICAL SECTIONS
 - a. Drawing reissued in its entirety.
 - b. Heat Recovery Coil condensate added to both sides of unit.
 - c. Condensate Drain piping size increased for Chilled Water Coils.
- 3.02 M901 – CONTROLS – MECHANICAL
 - a. Drawing reissued in its entirety.
 - b. Economizer mode sequence added to sequence of operation.
 - c. Low limit temp sensor relocated to be after the chilled water coil.
 - d. End Switches removed from all dampers.
 - e. Automatic Reset with Latching Relay removed for High Static and Low Static pressure sensors.
- 3.03 JCI Shop Drawing
 - a. Drawings added to set of Documents.

ATTACHMENTS:

Owner Provided Existing Ductwork Drawing
Owner Provided Existing Mechanical Zoning Drawing
M301 – MECHANICAL SECTIONS
M901 – CONTROLS – MECHANICAL
JCI Shop Drawing
Pre-Bid Walk Thru Sign-In Sheet
END OF ADDENDUM



SECOND INTERSTITIAL PLAN - HVAC

SCALE 1/8" = 1'-0"

A black and white graphic of a compass rose. It features a square frame with a diagonal line from the top-left corner to the bottom-right corner. Inside this line is a circle. A horizontal line extends from the center of the circle to the left, and a vertical line extends from the center to the bottom, both labeled 'NORTH' at their ends.

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EDWARD LARRABEE BARNES / JOHN M.Y. LEE & PARTNERS
INK • ROBERTS & PETRIE INC.
CIVIL / STRUCTURAL ENGINEERS
ARCHITECTURAL CONSULTANTS

JOB
7
800

NO. 10502

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1

NO. 1952

JOB
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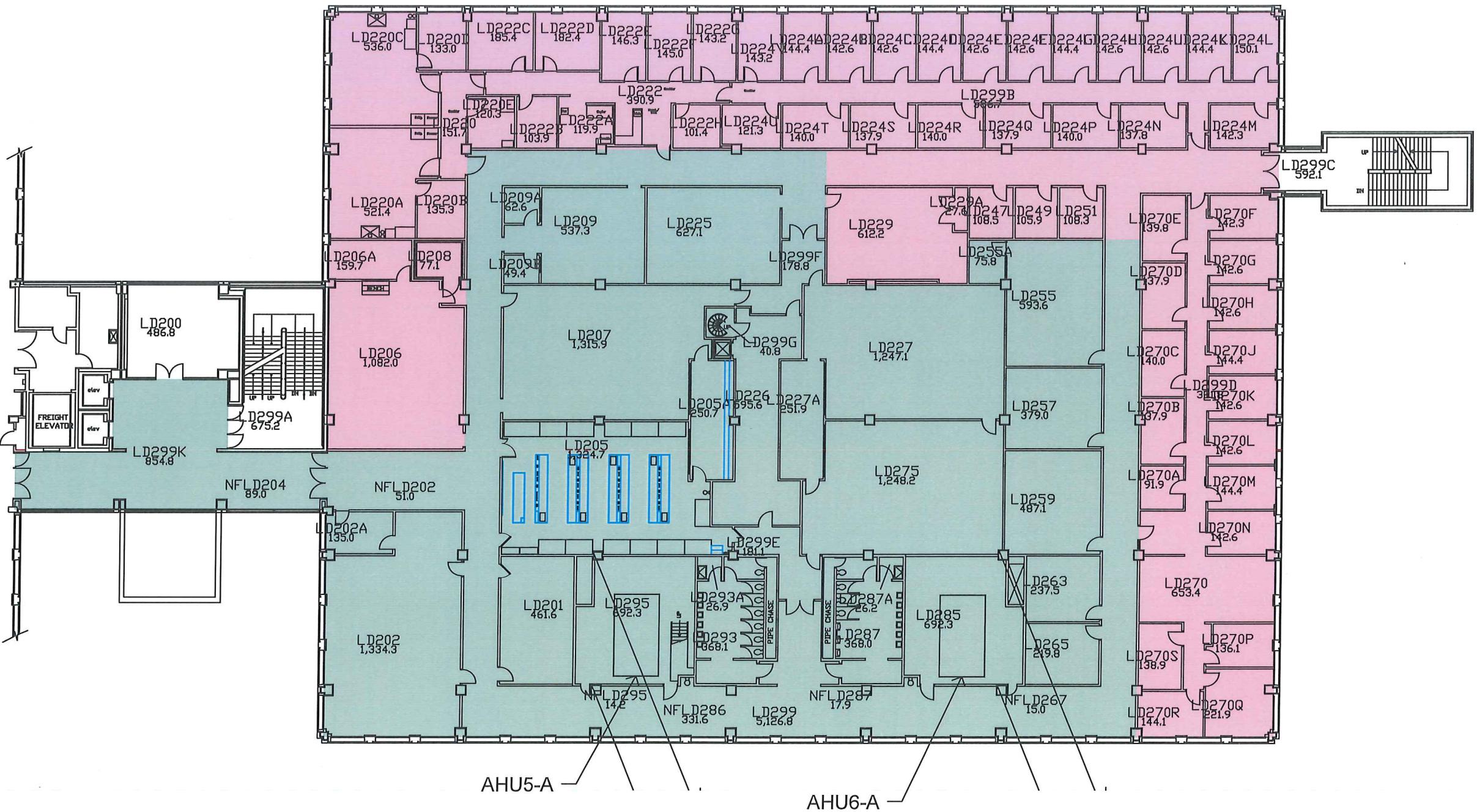
EDWARD LARRABEE BARNES / JOHN M.Y. LEE & PARTNERS
INK, ROBERTS & PETRIE, INC.

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DRAWN BY:	W.S. HIE
CHECKED BY:	W.S.HIET
DATE:	5/9/2016
CAD FILE NAME:	073-LD
BLDG. #:	073
CAMPUS:	IN



GENERAL NOTES

- A REFER TO SHEET M-000 FOR GENERAL MECHANICAL NOTES, SYMBOLS AND ABBREVIATIONS.
- B REFER TO DRAWING M-500 SERIES FOR MECHANICAL DETAILS.
- C REFER TO DRAWING M-600 SERIES FOR MECHANICAL SCHEDULES.

SHEET KEYNOTES

- 1 OFFSET OUTSIDE AIR DUCTWORK AS REQUIRED TO TAP INTO VERTICAL MIXED AIR DUCT.
- 2 COOLING COIL CONDENSATE DOWN THRU PENETRATION IN 2ND FLOOR MECHANICAL ROOM FLOOR. TERMINATE CONDENSATE AT FLOOR DRAIN LOCATED IN MECHANICAL ROOM ON FLOOR BELOW.
- 3 COOLING COIL CONDENSATE DOWN THRU EXISTING PENETRATION IN 2ND FLOOR MECHANICAL ROOM FLOOR. TERMINATE CONDENSATE AT FLOOR DRAIN LOCATED IN MECHANICAL ROOM ON FLOOR BELOW.
- 5 CHILLED WATER COIL CONNECTIONS.
- 6 IFS STEAM COIL CONNECTIONS.
- 7 HEAT RECOVERY COIL CONNECTIONS.
- 8 HEAT RECOVERY COIL CONDENSATE DOWN THRU EXISTING PENETRATION IN 2ND FLOOR MECHANICAL ROOM FLOOR. TERMINATE CONDENSATE AT FLOOR DRAIN LOCATED IN MECHANICAL ROOM ON FLOOR BELOW.
- 9 HEAT RECOVERY COIL CONDENSATE DOWN THRU PENETRATION IN 2ND FLOOR MECHANICAL ROOM FLOOR. TERMINATE CONDENSATE AT FLOOR DRAIN LOCATED IN MECHANICAL ROOM ON FLOOR BELOW.

IU 20250569

IU 20250569



SCALE:	SEE SHEET
DRAWN BY:	ACB
DESIGNED BY:	ACB
CHECKED BY:	SO
DATE:	1/22/2026
PROJECT #:	25142

REVISIONS:	# DESCRIPTION	DATE
1	ADDENDUM #1	2/12/2026

MECHANICAL
SECTIONS

M301

IU Indy LD AHU-5

IU#20250569 JCI#6N200480



Creating a better climate for business.

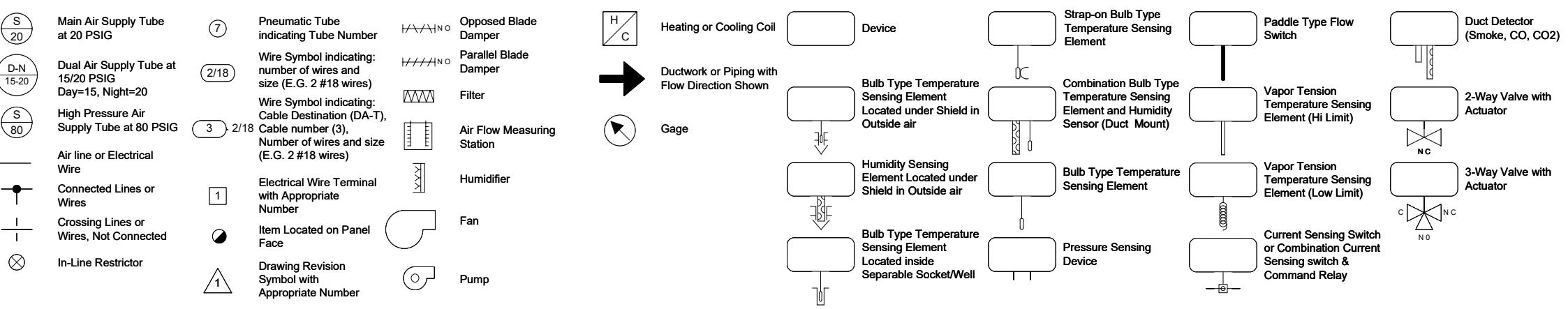
- Environmental Control System
- Facility Management System
- Air and Water System Balancing
- Fire Management System
- Security System
- Lighting Services
- Instrumentation System Installation
- Building Operations Management
- Energy Conservation Control
- Training Programs
- Performance Contracting
- Planned Service Agreements

Air Conditioning
 Heating
 Diagnostic Services
 Coil Cleaning
 Refrigeration
 Automatic Temperature Controls
 Facility Management Systems
 Fire Management
 Security Management
 Building Operations and Management
 Water Treatment
 Electrical Equipment
 Emergency Generator / Lighting Equipment
 Industrial Controls / Recording / Indication Equipment

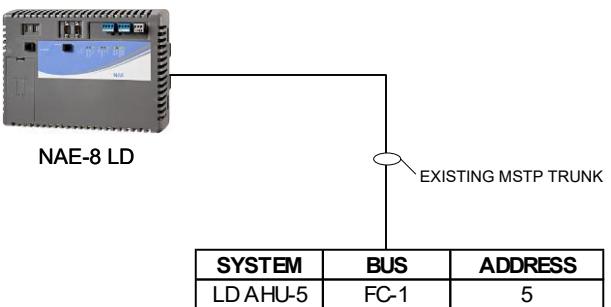
PROJECT TITLE
IU Indy LD AHU-5
IU# 20250569

ARCHITECT	ENGINEER			
, Phone:	, Phone:			
MECHANICAL CONTRACTOR				
, Phone:				
ELECTRICAL CONTRACTOR				
, Phone:				
REFERENCE DRAWING NO. REVISION-LOCATION ECN DATE BY				
Johnson Controls				
Branch Information Johnson Controls 5920 Castleway Drive Suite #130, Indianapolis, Indiana 46250 Phone: 3176387611				
SALES ENGINEER JG	PROJECT MANAGER JB	APPLICATION ENGINEER DG	DATE 2/2/2026	CONTRACT NUMBER 6N20-0480

LEGEND



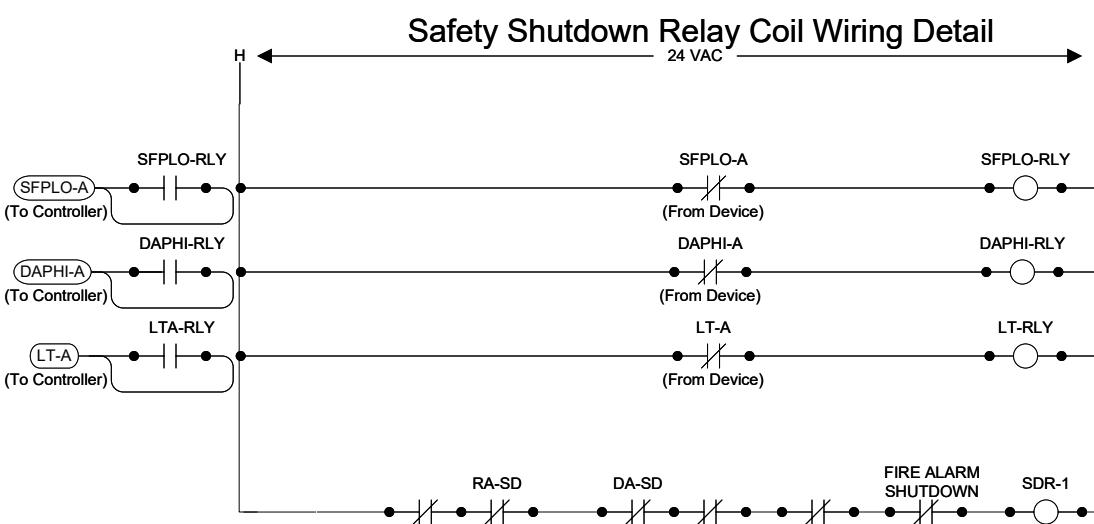
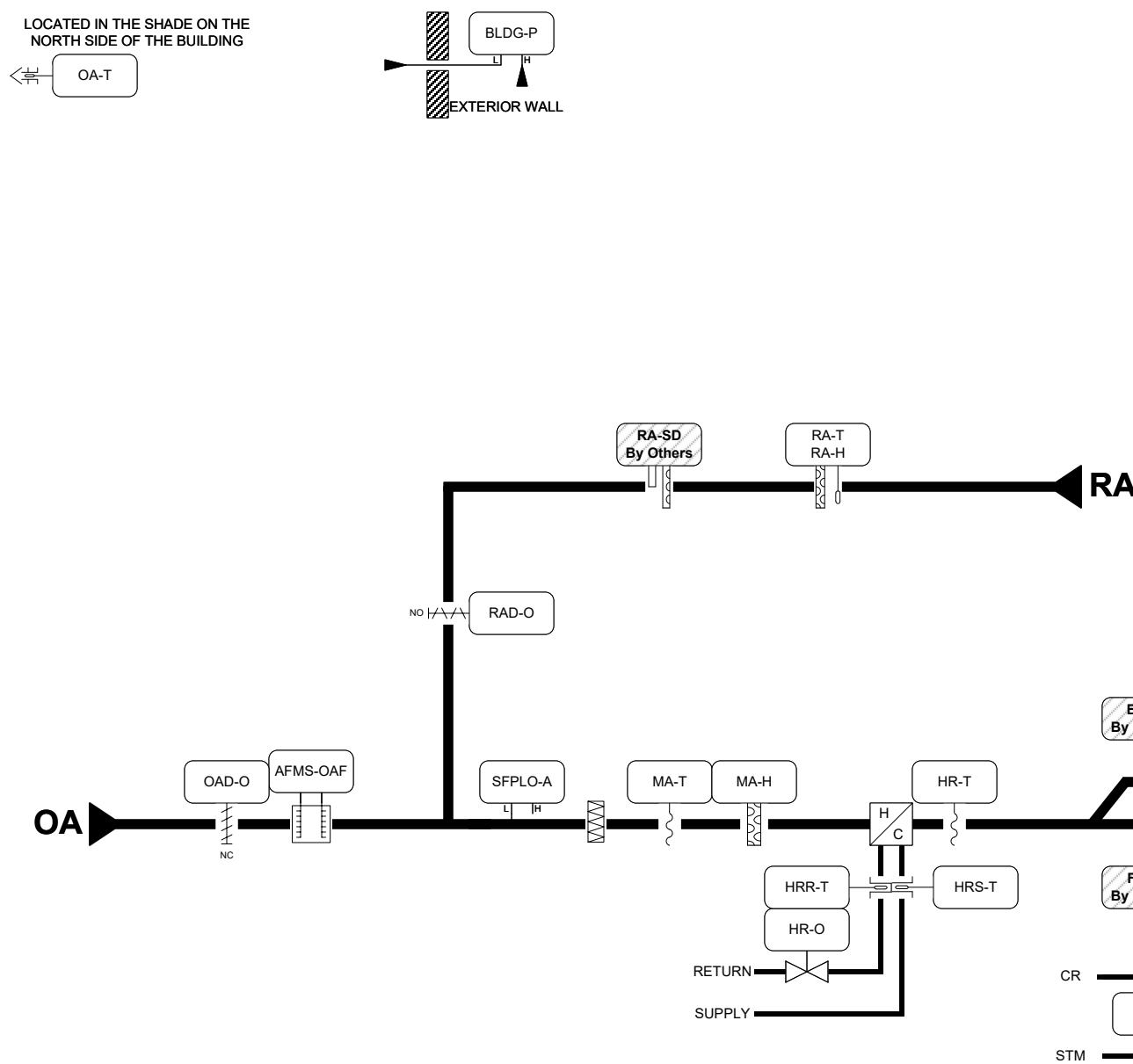
COMMUNICATIONS RISER



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		Sales Engineer	Project Manager	Application Engineer		DRAWN		APPROVED		
		JG	JB	DG	BY DRG	2/3/2026	BY	DATE		
		Project Title			Branch Information					
		IU Indy LD AHU-5			Johnson Controls 5920 Castleway Drive Suite #130, Indianapolis, Indiana 46250 Phone: 3176387611					
		IU#20250569			CONTRACT NUMBER					
		Johnson Controls			6N200480					
					DRAWING NUMBER					
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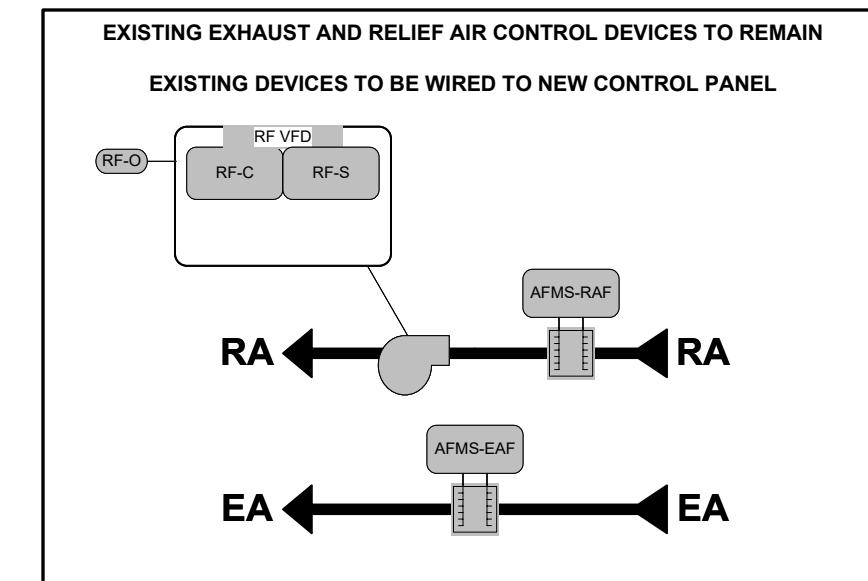
AHU-5 – FLOW LAYOUT

LOCATED IN THE SHADE ON THE
NORTH SIDE OF THE BUILDING

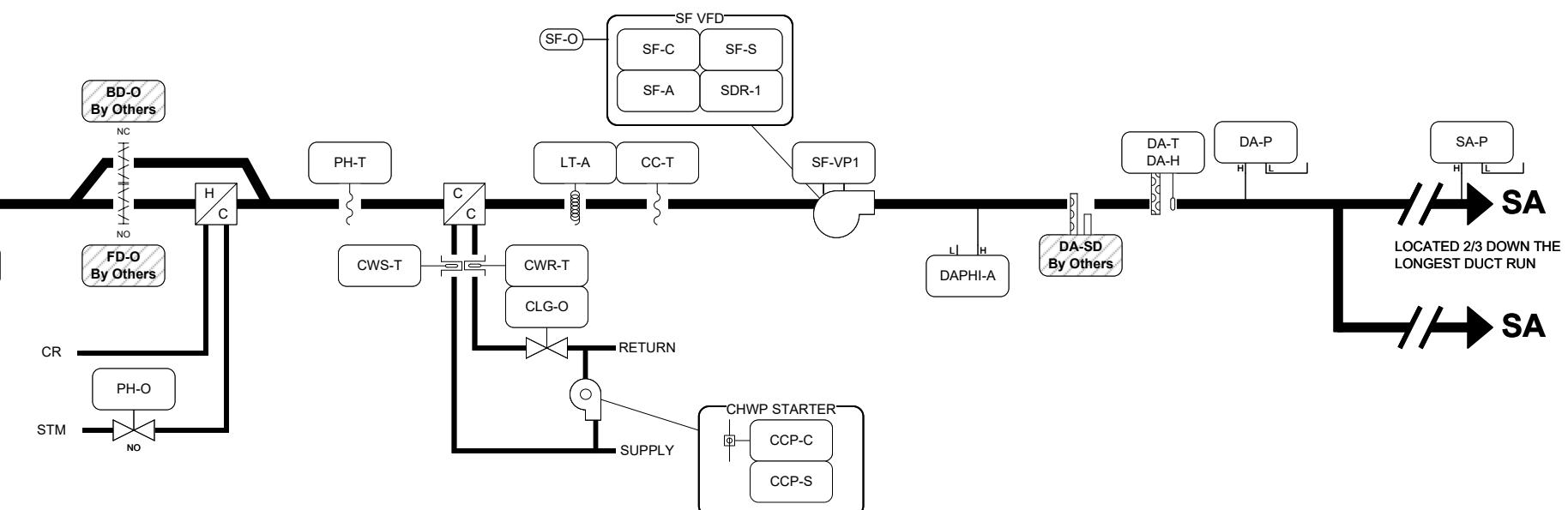


**FIRE ALARM CONTROL
PANEL
(BY OTHERS)**

FIRE CONTROL ALARM MONITORING



EXHAUST AND RELIEF AIR INTEGRATION



NEW JCI DEVICE

EXISTING DEV

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Drawing Title
AHU-5 - Flow Layout

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ed herein

Project Title
IU Indy LD AHU-
IU#20250569

Johnson Controls

Johnson Controls
5920 Castleway Drive
Suite #130,
Indianapolis, Indiana
46250
Phone: 3176387611

1.1

BILL OF MATERIAL

BILL OF MATERIAL

DESIGNATION	QTY.	CODE NUMBER.	DESCRIPTION	DESIGNATION	QTY.	CODE NUMBER.	DESCRIPTION
CLG-O	1	VALVE	SEE VALVE SCHEDULE	MA-H	1	HT-69030NP-0	DUCT TRANSMITTER 3%RH
HR-O	1	VALVE	SEE VALVE SCHEDULE	MA-T	1	TE-6328P-1	20', W/TE-6001-8ELEMENTHOLDER
PH-O	1	VALVE	SEE VALVE SCHEDULE		1	TE-6001-8	AVER ELEMENT HLDR QTY =10
BLDG-P	1	DP140X25B21C	BIDIRECTIONAL + OR -0.25IN. W.C. 24 VDC / 4 TO 20 MA	OAD-O	1	AFB24-SR-S	BELIMO
	1	A-306-K	Outdoor Air Static	OA-T	1	TE-6353P-1	OUTDOOR AIR TEMPERATURE SENSOR, 1K OHM PLATINUM, 3 IN. PROBE
	1	RPS	STAINLESS STEEL ROOM PRESSURE SENSOR WITH 1/4 INCH BARB FITTING	OA-VP	1	GTC116e-P+	EBTRON TRANSMITTER W/4 INTERNAL PROBE 4 SENSORS EA. 20" PROBE LENGTH X 140 ADJACENT SIDE 10' CABLES
	1	SD-01	SURGE DAMPENER	PH-T	1	TE-6328P-1	20', W/TE-6001-8ELEMENTHOLDER
CC-T	1	TE-6328P-1	20', W/TE-6001-8ELEMENTHOLDER		1	TE-6001-8	AVER ELEMENT HLDR QTY =10
	1	TE-6001-8	AVER ELEMENT HLDR QTY =10	RAD-O	1	AFB24-SR-S	BELIMO
CHWE-T	1	TE-6300W-102	THERMOWELL. 6 STAINLESS STEEL DIRECT MOUNT	RA-T,-H	1	HE-69530NP-0	DUCT PROBE, 3%RH, PT TEMP
	1	TE-635AM-2	WELL INSERTION TEMPERATURE SENSOR 1K OHM PLATINUM 6 IN. PROBE	SA-P	1	DP140005U21C	UNIDIRECTIONAL 0 TO 5IN. W.C. 24 VDC / 4 TO 20 MA
CHWL-T	1	TE-6300W-102	THERMOWELL. 6 STAINLESS STEEL DIRECT MOUNT		1	FTG18A-600R	SENSING TUBE KIT FOR P32
	1	TE-635AM-2	WELL INSERTION TEMPERATURE SENSOR 1K OHM PLATINUM 6 IN. PROBE	SDR-1	1	RIBU1C	ENCLOSED PILOT RELAY 10 AMP SPDT WITH 10-30 VAC
CP-C,-S	1	RR20YN	POWER RELAY, 20A, SPDT, GO/NO CURRENT SWITCH	SF-C	1	RIBU1C	ENCLOSED PILOT RELAY 10 AMP SPDT WITH 10-30 VAC
DA1-P	1	DP140005U21C	UNIDIRECTIONAL 0 TO 5IN. W.C. 24 VDC / 4 TO 20 MA	SF-S	1	CSDSC-C50100L0	CURR SW SELF CAL CLMP 0.50A-100A
	1	FTG18A-600R	SENSING TUBE KIT FOR P32	SFPLO-A	1	AFS-222	DIFFERENTIAL PRESSURE SWITCH, ADJUSTABLE, 0.05-12 IN WC
DAPHI-A	1	AFS-222	DIFFERENTIAL PRESSURE SWITCH, ADJUSTABLE, 0.05-12 IN WC		1	FTG18A-600R	SENSING TUBE KIT FOR P32
	1	FTG18A-600R	SENSING TUBE KIT FOR P32		1	RIB24P	ENCLOSED RELAY 20 AMP DPDT WITH 24 VAC/DC COIL
	1	RIB24P	ENCLOSED RELAY 20 AMP DPDT WITH 24 VAC/DC COIL				
DA-T,-H	1	HE-69530NP-0	DUCT PROBE, 3%RH, PT TEMP				
HR-T	1	TE-6001-8	AVER ELEMENT HLDR QTY =10				
HR-T	1	TE-6328P-1	20', W/TE-6001-8ELEMENTHOLDER				
HRR-T	1	TE-635AM-2	WELL INSERTION TEMPERATURE SENSOR 1K OHM PLATINUM 6 IN. PROBE				
	1	TE-6300W-102	THERMOWELL. 6 STAINLESS STEEL DIRECT MOUNT				
HRS-T	1	TE-635AM-2	WELL INSERTION TEMPERATURE SENSOR 1K OHM PLATINUM 6 IN. PROBE				
	1	TE-6300W-102	THERMOWELL. 6 STAINLESS STEEL DIRECT MOUNT				
LT-A	2	A70GA-1C	15/55F, DIFF 5 FIXED,1NO/1NC MAIN OPEN LOW,1/8 X 20' BULB,				
	1	TE-6001-8	AVER ELEMENT HLDR QTY =10				
	1	RIB24P	ENCLOSED RELAY 20 AMP DPDT WITH 24 VAC/DC COIL				

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	REFERENCE DRAWING		NO.		REVISION-LOCATION		ECN	DATE	BY
	Sales Engineer	Project Manager	Application Engineer	DRAWN		APPROVED			
	JG	JB	DG	BY DRG	DATE	1/29/2026	BY	DATE	
	Project Title		IU Indy LD AHU-5 IU#20250569		 Johnson Controls 5920 Castleway Drive Suite #130, Indianapolis, Indiana 46250 Phone: 3176387611		Branch Information		
	CONTRACT NUMBER						6N200480		
	DRAWING NUMBER						1.2		

SEQUENCE OF OPERATION

AHU CONTROLS:

All setpoints to be adjustable. Air handling unit to be started by DDC Panel, BAS, or operator workstation. AHU to run based on scheduled occupancy, initially 24/7. Final schedule shall be set by owner.

OCCUPIED MODE:

For cold weather startup anytime outdoor air temperature (OA-T) is less than 40 deg F (adj), run supply fans at 25 Hz (adj) for 7 min (adj) before ramping fan up to maintain static pressure. Activate supply air temperature control loop while disabling economizer for 7 min (adj) before being enabled. The preheat control loop shall operate in face and bypass mode as soon as the AHU is called to run and set to 65 deg F (adj). Once supply fan status (SF-S) is proven on, the preheat setpoint (PHT-SP) will decrease 1 deg F (adj) every 2 minutes (adj) until the control setpoint is reached. For startup anytime outdoor air temperature is 40 deg F (adj) or greater, supply fan start and ramp up over a period of 5 minutes (adj) to control static pressure (DA-P). Outdoor air damper (OAD-O) to open to minimum airflow position (adj) after startup and static pressure control are engaged. Outdoor air damper to modulate to maintain 0.020 in w.c. (adj) building pressure sensor setpoint (BLDG-SP). Building pressure sensor (BLDG-P) located on 2nd floor of IU Science Building. Supply fan speed (SF-O) shall be determined by a static pressure sensor (SA-P) located 90% through the supply ductwork system in conjunction with the unit discharge static pressure (DA-P). Supply fan VFDs control loop to modulate fan speed to achieve a duct static pressure set at initially 1.5 in w.c. (adj) while not exceeding a unit discharge pressure of 3.0 in w.c. (adj). Test and balance contractor to determine final setpoint and approve with engineer. On AHU shutdown, supply fan stop, outdoor air and relief air dampers fully close, and return air damper fully opens. The cooling coil control valve (CLG-O) is fully closed, except on low limit safety. Modulate the preheat coil control valve (PH-O) to maintain the preheat air setpoint.

The supply air temperature control loop shall operate as described below. The supply air setpoint (SAT-SP) shall be 55 deg F (adj). The cooling coil setpoint (CCT-SP) shall be the supply air setpoint minus 2 deg F (adj). The preheat coil setpoint (PHT-SP) shall be the supply air setpoint minus 4 deg F (adj). The final offsets shall be set by TCC to prevent simultaneous heating and cooling.

ECONOMIZER MODE

ECONOMIZER MODE:
Below 70 deg F (dry bulb) ambient (adj) outdoor air damper and return air damper will modulate to maintain 55 deg F (adj) mixed air temperature (MA-T). As the return air enthalpy rises above the outside air enthalpy, the outside air damper shall be modulated to control the mixed air temperature at the mixed air temperature setpoint (MAT-SP). Upon a drop in the return air enthalpy below the outside air enthalpy, the outside air damper shall return to its minimum position. Supply air temperature shall be reset from 55 deg F to 60 deg F (adj) as outdoor air temperature varies from 70 deg F to 30 deg F (adj). If return air humidity (RA-H) exceeds 55% RH (adj), reset the unit supply temperature to 53 deg F (adj) and notify owner on BAS/QWS. Increase supply temperature 1 deg F (adj) every 10 minutes after 15 minutes of this notification.

HEAT RECOVERY CONTROL

The heat recovery coil control valve (HR-O) shall fully open when OA-T is less than 50 deg F (adj) or when OA-T is greater than 70 deg F (adj). The heat recovery coil control valve shall be shut when OA-T is between 50 and 70 deg F.

STEAM EJECT AND BYPASS CONTROL:

STEAM FACE AND BYPASS CONTROL:
If the heat recovery coil discharge air temperature (HR-T) is less than or equal to 40 deg F, the IFB steam coil valve to be open 100% and the face and bypass dampers shall modulate to maintain the preheat coil temperature setpoint. If the heat recovery coil discharge air temperature is between 40 deg F and 50 deg F, IFB steam coil valve to be open 65% and the face and bypass dampers shall modulate to maintain the preheat coil temperature setpoint. If the heat recovery coil discharge air temperature is above 50 deg F, the IFB steam coil valve to be closed and operate in full bypass.

COOLING CONTROL

COOLING CONTROL:
Modulate the cooling valve to maintain the cooling coil temperature setpoint.

UNOCCUPIED OPERATION:

UNOCCUPIED OPERATION: Transitioning to unoccupied mode, the supply fan and dampers shall operate in the sequence described above. Transition to occupied mode is based on a schedule or terminal unit sequence.

SEQUENCE OF OPERATION

SAFETIES AND ALARMS:

Alarms shall be generated at the BAS and send notifications to staff as specified by client.

The cooling coil freeze protection pump (CCP-C) will be started when the cooling coil inlet temperature (CCS-T) drops below 40 deg F (adj). Pump will remain energized until the temperature rises above 45 deg F (adj).

Upon a signal from the fire alarm control panel relay (FIRE-A), the supply fan shall be de-energized through hardwire interlocks. Associated relief fan shall also be de-energized.

Low limit thermostat (LT-A) shall de-energize the supply fan through hardwire interlock should any 1 ft length of the element fall below the thermostat setpoint of 40 deg F (adj).

- a. Annunciate an alarm any time a low limit thermostat is activated
- b. After the temperature rises by 10 deg F (adj) and a manual reset has occurred, a normal start up sequence shall be initiated.
- c. Fully open the chilled water control valve.
- d. The preheat coil control valve shall modulate to maintain the preheat temperature setpoint.

Announce an alarm and shutdown on safety when high static pressure limit (DAPHI-A) on discharge side of supply fan exceeds 3.5 in w.c. (adj).

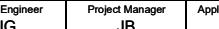
Announce an alarm and shut the unit down on safety when low static pressure limit (SFPLO-A) on suction side of supply fan exceeds -3.0 in w.c. (adj).

Any smoke detected by supply or return smoke detector (DA-SD, RA-SD) shall de-energize supply fan. OA damper to remain open. Initiate alarm at QWS.

All AHUs shall incorporate a fan startup delay for 3 minutes (adj) to reduce risk of ductwork collapse following reset of a closed fire or smoke damper.

Announce an alarm if fan operation is not confirmed by static pressure sensor within 2 minutes (adj) after commanded to run.

Announce an alarm if a damper is called to open and not proven open by end switch

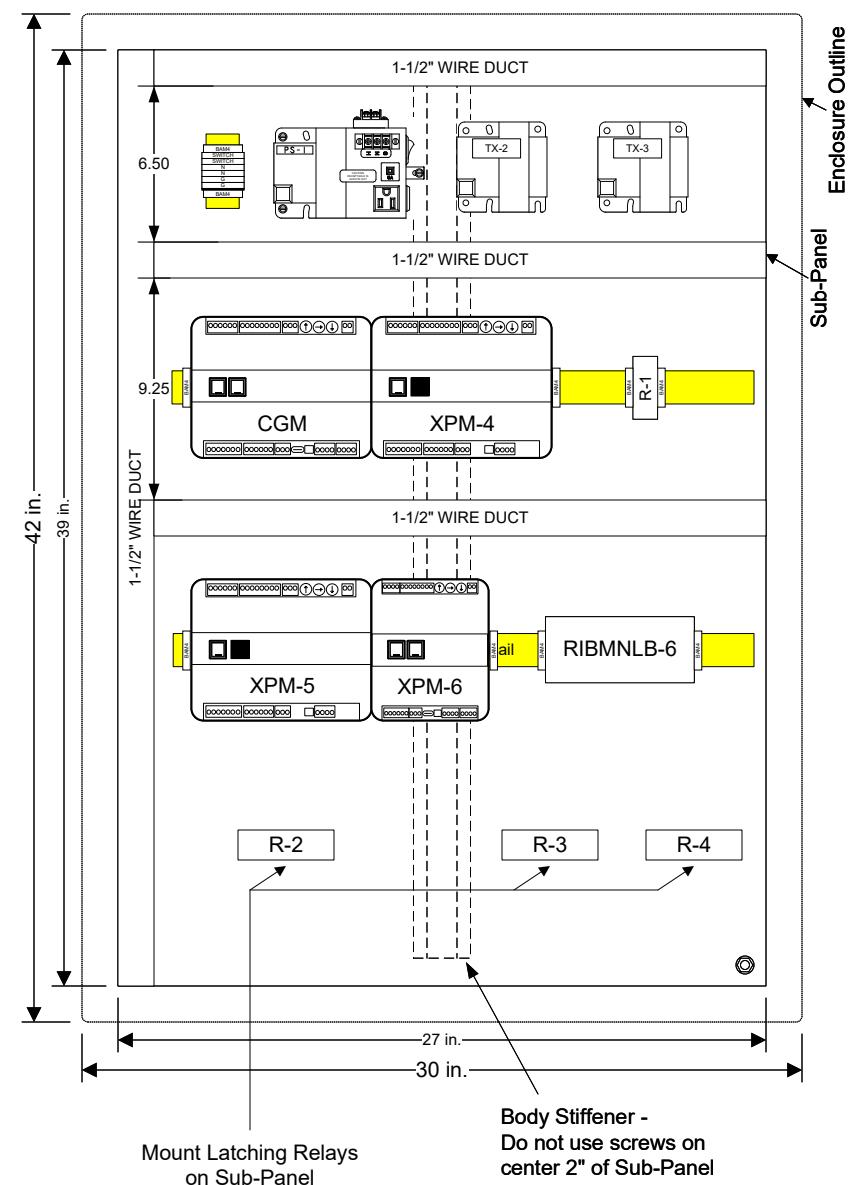
<p>Copyright Johnson Controls, 2026. All rights reserved. Reuse, copying, modification or alteration of the drawings and other information contained herein is strictly prohibited.</p>	<p>Drawing Title AHU-5 - Sequence</p>																													
	<table border="1"> <thead> <tr> <th colspan="2">REFERENCE DRAWING</th> <th>NO.</th> <th colspan="2">REVISION-LOCATION</th> <th>ECN</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>Sales Engineer</td> <td>Project Manager</td> <td>Application Engineer</td> <td colspan="2">DRAWN</td> <td colspan="3">APPROVED</td> </tr> <tr> <td>JG</td> <td>JB</td> <td>DG</td> <td>BY</td> <td>DRG</td> <td>DATE</td> <td>2/3/2026</td> <td>BY</td> </tr> </tbody> </table>			REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY	Sales Engineer	Project Manager	Application Engineer	DRAWN		APPROVED			JG	JB	DG	BY	DRG	DATE	2/3/2026	BY			
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<p>Project Title IU Indy LD AHU-5 IU#20250569</p>			 <p>Johnson Controls</p>			<p>Branch Information</p> <p>Johnson Controls 5920 Castleway Drive Suite #130, Indianapolis, Indiana 46250 Phone: 3176387611</p>		<p>CONTRACT NUMBER</p> <p>6N200480</p>																						
								<p>DRAWING NUMBER</p> <p>1.3</p>																						

BILL OF MATERIALS

Designation	Qty	Part Number	Description
ENCLOSURE	1	PAN-ENC3042WDP	30X42X9.25 ENCLOSURE, SOLID DOOR, PERFORATED SUB-PANEL, STEEL, UL TYPE 1
CGM	1	M4-CGM09090-0	ADV FIELD CONTROLLER, 18 PTS
XPM-4,-5	2	M4-XPM09090-0	GEN4 I/O EXP MODULE, 18 PTS
XPM-6	1	M4-XPM04060-0	GEN4 I/O EXP MODULE, 10 PTS
PS-1	1	PAN-PWRSP	PWR SPLY 96 VA, 120-24 VAC w 5 A circuit breaker, Two 120 VAC outlets
TX-n	2	PAN-96VAXFR-0	PANEL .96VA TRANSFORMER K
R-1	1	RH2B-ULAC24V	RH SERIES DPDT PLUG-IN GENERAL PURPOSE RELAY WITH INDICATOR - AC24V
	1	SH2B-05	RELAY SOCKET DIN MOUNT SCREW TERMINAL USED WITH RH2B
R-2,3,4	3	RIBL24SBM	LATCHING RELAY 20AMP WITH OVERRIDE SWITCH
SAFETY	1	RIBMNLB-6	2.75 TRACK MOUNT AHU FAN SAFETY ALARM AND GENERAL PURPOSE LOGIC CIRCUIT
TERM BLK	10	BAM4	END STOP, TERM BLK
	4	DIN-3F	DIN RAIL
	1	FEM6	END SECTION, TERM BLK
	2	M4/6	DIN RAIL TERM BLK, 6MM GRAY
	2	M4/6.P	GROUNDING LUG GREEN/YELLOW, 6MM
	2	M4/6SNBT	120V BLADE SWITCH
WIRE DUCT	2	T1-1530G	WIRE DUCT, 1.5" W x 3" H x 6.5FT, GRAY

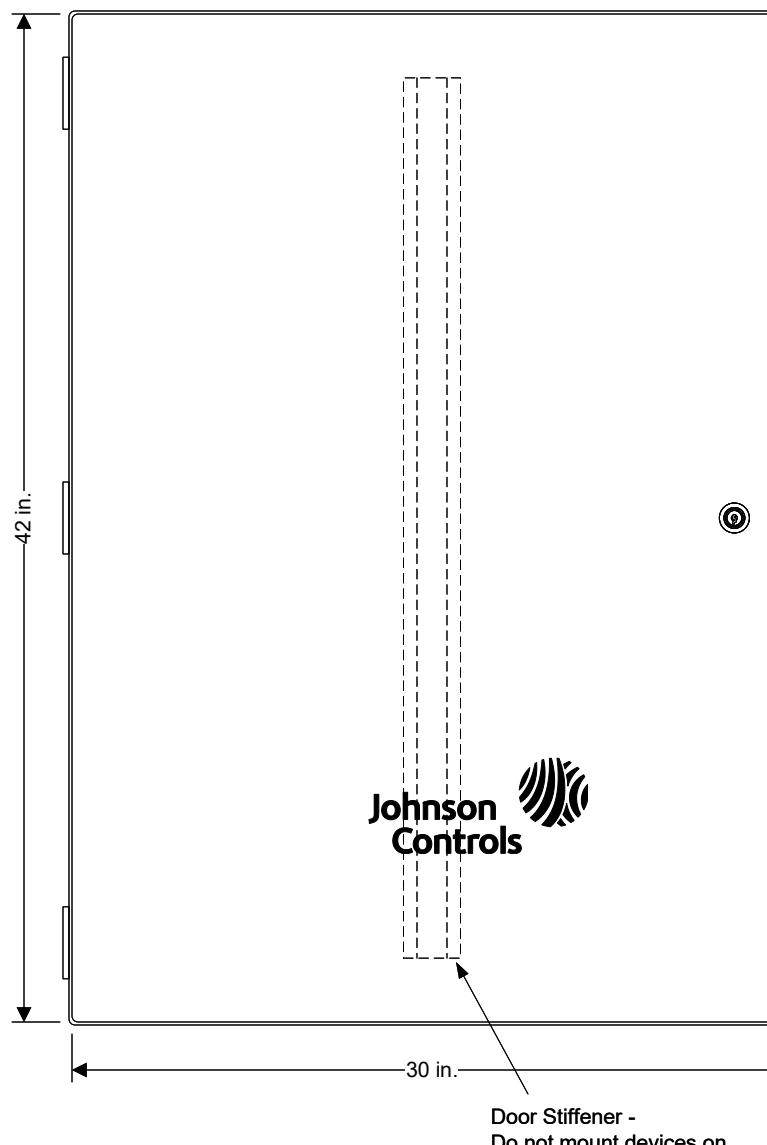
PANEL LAYOUT

SCALE: 1/8" = 1"



FACE LAYOUT

SCALE: 1/8" = 1"



Drawing Title AHU-5 - Panel Detail	REFERENCE DRAWING			NO. DRAWN BY DRG	REVISION-LOCATION	ECN	DATE	BY		
	Sales Engineer	Project Manager	Application Engineer							
	JG	JB	DG							
Project Title IU Indy LD AHU-5 IU#20250569	Branch Information			1/30/2026	CONTRACT NUMBER	6N200480				
	Drawing Number Johnson Controls			Phone: 3176387611	DRAWING NUMBER	1.4				

LD AHU-5 - POINT SCHEDULE

Electrician/Fitter		Point Information		Controller Information							Intermediate Device				Field Device				Ref Detail Shape	
Tag	Point Type	System Name	Object Name	Expanded ID			Controller Details	Trunk Type	Trunk Nbr	Trunk Addr.	Cable Destination Bay/Terminal	Termination Out	Wiring /Tubing	Termination In	Device	Termination Out	Wiring /Tubing	Termination In	Device	
		LD AHU-5					CGM09090													
		LD AHU-5					CGM09090	MS/TP	1	4										
UI IN-1	LD AHU-5	DA-T	Discharge Air Temperature				CGM09090	MS/TP	1	4	UI IN-1	IN1, ICOM1					2/22	TEMP, TEMP	HE-6900(Duct Mnt) - TE	F160
UI IN-2	LD AHU-5	DA-H	Discharge Air Humidity				CGM09090	MS/TP	1	4	UI IN-2	IN2, ICOM2, +15V					3/22	OUT,GND,PWR	HE-6900(Duct Mnt) - HE	F160
UI IN-3	LD AHU-5	MA-T	Mixed Air Temperature				CGM09090	MS/TP	1	4	UI IN-3	IN3, ICOM3					2/22	2-Wire	TE	F131
UI IN-4	LD AHU-5	DA-P	Discharge Air Pressure				CGM09090	MS/TP	1	4	UI IN-4	IN4, +15V					2/22	-, +	DPT2xxx (mA)	F106
UI IN-5	LD AHU-5	HR-T	Heat Recovery Coil Temperature				CGM09090	MS/TP	1	4	UI IN-5	IN5, ICOM5					2/22	2-Wire	TE	F131
UI IN-6	LD AHU-5	PH-T	Preheat Coil Temperature				CGM09090	MS/TP	1	4	UI IN-6	IN6, ICOM6					2/22	2-Wire	TE	F131
UI IN-7	LD AHU-5	CC-T	Cooling Coil Temperature				CGM09090	MS/TP	1	4	UI IN-7	IN7, ICOM7					2/22	2-Wire	TE	F131
BI IN-1	LD AHU-5	SF-S	Supply Fan Status				CGM09090	MS/TP	1	4	BI IN-1	IN1, ICOM1	2/22	OUT, COM	Current Relay	Motor Lead	Motor Lead	See wiring detail	Motor Status (Contact)	F307
BI IN-2	LD AHU-5	CCP-S	Cooling Pump Status				CGM09090	MS/TP	1	4	BI IN-2	IN2, ICOM2	2/22	OUT, COM	Current Relay	Motor Lead	Motor Lead	See wiring detail	Motor Status (Contact)	F307
BO OUT-1	LD AHU-5	SF-C	Supply Fan Command				CGM09090	MS/TP	1	4	BO OUT-1	OUT1, 24V COM	2/22	COIL-, COIL+	Relay	COM, NO	2/14	See wiring detail	VFD (w/ Safety) (Sw Hi, EXT)	F1042
BO OUT-2	LD AHU-5	CCP-C	Cooling Pump Command				CGM09090	MS/TP	1	4	BO OUT-2	OUT2, 24V COM	2/22	COIL-, COIL+	Relay	COM, NO	2/14	See wiring detail	Motor (Single Phase)	F1030
BO OUT-3	LD AHU-5						CGM09090	MS/TP	1	4	BO OUT-3									
CO OUT-1	LD AHU-5	OAD-O	Outdoor Air Damper Output				CGM09090	MS/TP	1	4	CO OUT-1	OUT1, OCOM1,24VAC, COM					2/22 / 2/18	GRY, BLK/BLK, RED	Belimo	F267
CO OUT-2	LD AHU-5	RAD-O	Return Air Damper Output				CGM09090	MS/TP	1	4	CO OUT-2	OUT2, OCOM2,24VAC, COM					2/22 / 2/18	GRY, BLK/BLK, RED	Belimo	F267
CO OUT-3	LD AHU-5	SF-O	Supply Fan Output				CGM09090	MS/TP	1	4	CO OUT-3	OUT3, OCOM3					2/22	See VFD Detail	VFD Speed Control (Vdc)	
CO OUT-4	LD AHU-5						CGM09090	MS/TP	1	4	CO OUT-4	OUT4, OCOM4,24VAC, COM								
AO OUT-1	LD AHU-5	PH-O	Preheat Output				CGM09090	MS/TP	1	4	AO OUT-1	OUT1, OCOM1,24VAC, COM					2/22 / 2/18	Gray, Black, Red	VA9310-HGA-2 (Vdc) (Ext Source)	F268
AO OUT-2	LD AHU-5	CLG-O	Cooling Output				CGM09090	MS/TP	1	4	AO OUT-2	OUT2, OCOM2,24VAC, COM					2/22 / 2/18	GRY, BLK/BLK, RED	M92xx-GGx-x (Vdc) (Ext Source)	F267
		LD AHU-5					XPM09090													
		LD AHU-5					XPM09090	SA Bus	1	4										
UI IN-1	LD AHU-5	OA-T	Outdoor Air Temperature				XPM09090	SA Bus	1	4	UI IN-1	IN1, ICOM1					2/22	2-Wire	TE	F131
UI IN-2	LD AHU-5	BLDG-P	Building Static Pressure				XPM09090	SA Bus	1	4	UI IN-2	IN2, +15V					2/22	-, +	DPT2xxx (mA)	F106
UI IN-3	LD AHU-5	CWS-T	Chilled Water Supply Temperature				XPM09090	SA Bus	1	4	UI IN-3	IN3, ICOM3					2/22	2-Wire	TE	F131
UI IN-4	LD AHU-5	CWR-T	Chilled Water Return Temperature				XPM09090	SA Bus	1	4	UI IN-4	IN4, ICOM4					2/22	2-Wire	TE	F131
UI IN-5	LD AHU-5	HRS-T	Heat Recovery Supply Temperature				XPM09090	SA Bus	1	4	UI IN-5	IN5, ICOM5					2/22	2-Wire	TE	F131
UI IN-6	LD AHU-5	HRR-T	Heat Recovery Return Temperature				XPM09090	SA Bus	1	4	UI IN-6	IN6, ICOM6					2/22	2-Wire	TE	F131
UI IN-7	LD AHU-5	MA-H	Mixed Air Humidity				XPM09090	SA Bus	1	4	UI IN-7	IN7, ICOM7, +15V					3/22	OUT,GND,PWR	HE-6900(Duct Mnt) - HE	F160
BI IN-1	LD AHU-5	RF-S	Relief Fan Status				XPM09090	SA Bus	1	4	BI IN-1	IN1, ICOM1					2/22	See wiring detail	Dry Contact	F301
BI IN-2	LD AHU-5	LT-A	Low Temperature Alarm				XPM09090	SA Bus	1	4	BI IN-2	IN2, ICOM2					2/22 / 2/22	(Ui LINE, M1, (LINE,M2))	A70 (NO)	F302
BO OUT-1	LD AHU-5	RF-C	Relief Fan Command				XPM09090	SA Bus	1	4	BO OUT-1	OUT1, 24V COM	2/22	COIL-, COIL+	Relay	COM, NO	2/14	See wiring detail	VFD (w/ Safety) (Sw Hi, EXT)	F1042
BO OUT-2	LD AHU-5						XPM09090	SA Bus	1	4	BO OUT-2									
BO OUT-3	LD AHU-5						XPM09090	SA Bus	1	4	BO OUT-3									
CO OUT-1	LD AHU-5	BD-O	Bypass Damper Output				XPM09090	SA Bus	1	4	CO OUT-1	OUT1, OCOM1,24VAC, COM					2/22 / 2/18	GRY, BLK/BLK, RED	Belimo	F267
CO OUT-2	LD AHU-5	FD-O	Face Damper Output				XPM09090	SA Bus	1	4	CO OUT-2	OUT2, OCOM2,24VAC, COM					2/22 / 2/18	GRY, BLK/BLK, RED	Belimo	F267
CO OUT-3	LD AHU-5	RF-O	Relief Fan Output				XPM09090	SA Bus	1	4	CO OUT-3	OUT3, OCOM3					2/22	See VFD Detail	VFD Speed Control (Vdc)	
CO OUT-4	LD AHU-5						XPM09090	SA Bus	1	4	CO OUT-4									
AO OUT-1	LD AHU-5	HR-O	Heat Recovery Coil Output				XPM09090	SA Bus	1	4	AO OUT-1	OUT1, OCOM1,24VAC, COM					2/22 / 2/18	GRY, BLK/BLK, RED	M92xx-GGx-x (Vdc) (Ext Source)	F267
AO OUT-2	LD AHU-5						XPM09090	SA Bus	1	4	AO OUT-2									

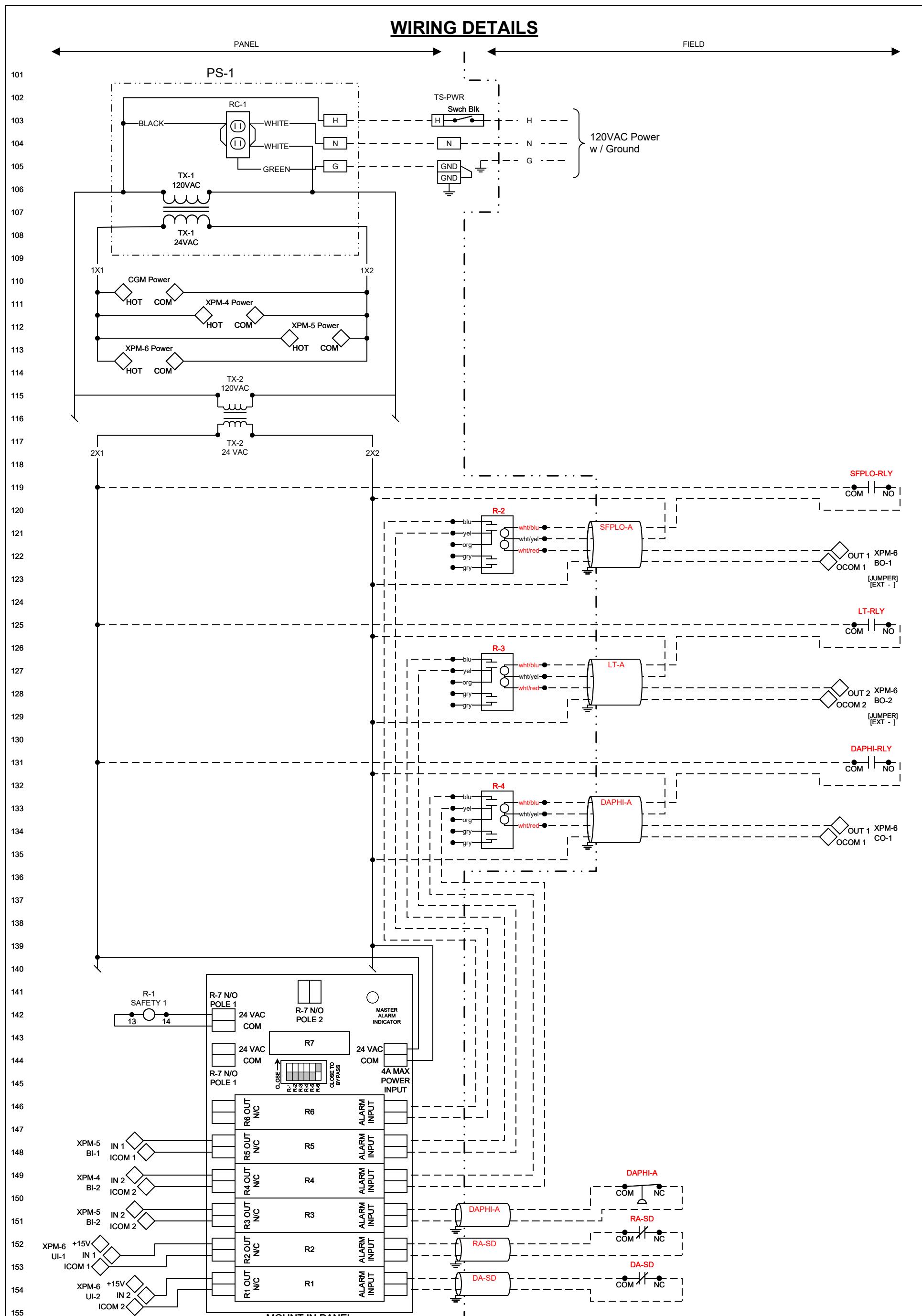
<p>Copyright Johnson Controls, 2026. All rights reserved. Reuse, copying, modification or alteration of the drawings and other information contained herein is strictly prohibited.</p>	<p>AHU-5 - Point Schedule 1</p>		
	Drawing Title		
	Project Title	REFERENCE DRAWING	NO.
	IU Indy LD AHU-5 IU#20250569	DRAWN	REVISION-LOCATION
		JG	DRAWN
		JB	DRAWN
		DG	DRAWN
		Branch Information	ECN
		Johnson Controls 5920 Castleway Drive Suite #130, Indianapolis, Indiana 46250 Phone: 3176387611	DATE

LD AHU-5 - POINT SCHEDULE (CONT'D)

Electrician/Fitter		Point Information		Controller Information							Intermediate Device				Field Device					
Tag	Point Type	System Name	Object Name	Expanded ID			Controller Details	Trunk Type	Trunk Nbr	Trunk Addr.	Cable Destination Bay/Terminal	Termination Out	Wiring /Tubing	Termination In	Device	Termination Out	Wiring /Tubing	Termination In	Device	Ref Detail Shape
		LD AHU-5					XPM09090	SA Bus	1	5										
UI IN-1	LD AHU-5	RA-T		Return Air Temperature			XPM09090	SA Bus	1	5	UI IN-1	IN1, ICOM1					2/22	TEMP, TEMP	HE-6900(Duct Mnt) - TE	F160
UI IN-2	LD AHU-5	RA-H		Return Air Humidity			XPM09090	SA Bus	1	5	UI IN-2	IN2, ICOM2, +15V					3/22	OUT,GND,PWR	HE-6900(Duct Mnt) - HE	F160
UI IN-3	LD AHU-5	SF-VP		Supply Fan Velocity Pressure			XPM09090	SA Bus	1	5	UI IN-3	IN3, +15V					2/22	-, +	DPT2xxx (mA)	F106
UI IN-4	LD AHU-5	AFMS-OAF		Outdoor Air Flow			XPM09090	SA Bus	1	5	UI IN-4	IN4, +15V					2/22	See wiring detail	Current Input (2 Wire)	F106
UI IN-5	LD AHU-5	AFMS-RAF		Relief Air Flow			XPM09090	SA Bus	1	5	UI IN-5	IN5, +15V					2/22	See wiring detail	Current Input (2 Wire)	F106
UI IN-6	LD AHU-5	AFMS-EAF		Exhaust Air Flow			XPM09090	SA Bus	1	5	UI IN-6	IN6, +15V					2/22	See wiring detail	Current Input (2 Wire)	F106
UI IN-7	LD AHU-5	SA-P		Supply Air Duct Pressure			XPM09090	SA Bus	1	5	UI IN-7	IN7, +15V					2/22	-, +	DPT2xxx (mA)	F106
BI IN-1	LD AHU-5	SFPLO-A		Supply Air Low Pressure Alarm			XPM09090	SA Bus	1	5	BI IN-1	IN1, ICOM1	2/22	OUT, COM	Current Relay	Motor Lead	2/22 / '2/22 (Ui See Detail)	AFS-460 (NC)	F303	
BI IN-2	LD AHU-5	DAPHI-A		Discharge Air High Pressure Alarm			XPM09090	SA Bus	1	5	BI IN-2	IN2, ICOM2					2/22 / '2/22 (Ui See Detail)	AFS-460 (NC)	F303	
BO OUT-1	LD AHU-5						XPM09090	SA Bus	1	5	BO OUT-1									
BO OUT-2	LD AHU-5						XPM09090	SA Bus	1	5	BO OUT-2									
BO OUT-3	LD AHU-5						XPM09090	SA Bus	1	5	BO OUT-3									
CO OUT-1	LD AHU-5						XPM09090	SA Bus	1	5	CO OUT-1									
CO OUT-2	LD AHU-5						XPM09090	SA Bus	1	5	CO OUT-2									
CO OUT-3	LD AHU-5						XPM09090	SA Bus	1	5	CO OUT-3									
CO OUT-4	LD AHU-5						XPM09090	SA Bus	1	5	CO OUT-4									
AO OUT-1	LD AHU-5						XPM09090	SA Bus	1	5	AO OUT-1									
AO OUT-2	LD AHU-5						XPM09090	SA Bus	1	5	AO OUT-2									
							XPM04060													
							XPM04060	SA Bus	1	6										
UI IN-1	LD AHU-5	DA-SD		Discharge Air Smoke Detector			XPM04060	SA Bus	1	6	UI IN-1	IN1, ICOM1					2/22	See wiring detail	Dry Contact	F301
UI IN-2	LD AHU-5	RA-SD		Return Air Smoke Detector			XPM04060	SA Bus	1	6	UI IN-2	IN2, ICOM2					2/22	See wiring detail	Dry Contact	F301
UI IN-3	LD AHU-5	FIRE-A		Fire Control Panel Alarm			XPM04060	SA Bus	1	6	UI IN-3	IN3, ICOM3					2/22	See wiring detail	Dry Contact	F301
BI IN-1	LD AHU-5						XPM04060	SA Bus	1	6	BI IN-1									
BO OUT-1	LD AHU-5	LT-RESET		Low Temperature Alarm Reset			XPM04060	SA Bus	1	6	BO OUT-1	OUT1, 24V COM	2/22	COIL (Wh/Yel,Wh/Red)	RIB Relay	COM, NO (Yel, Org)	2/14	See wiring detail	Starter (NO) (Sw Hi, EXT Source)	F502
BO OUT-2	LD AHU-5	SFPLO-RESET		Supply Fan Low Pressure Alarm Reset			XPM04060	SA Bus	1	6	BO OUT-2	OUT2, 24V COM	2/22	COIL (Wh/Yel,Wh/Red)	RIB Relay	COM, NO (Yel, Org)	2/14	See wiring detail	Starter (NO) (Sw Hi, EXT Source)	F502
CO OUT-1	LD AHU-5	DAPHI-RESET		Discharge Air High Pressure Alarm Reset			XPM04060	SA Bus	1	6	CO OUT-1	OUT1, 24V COM	2/22	COIL (Wh/Yel,Wh/Rec)	RIB Relay	COM, NO (Yel, Org)	2/14	See wiring detail	Starter (NO) (Sw Hi, EXT Source)	F902
CO OUT-2	LD AHU-5						XPM04060	SA Bus	1	6	CO OUT-2									
CO OUT-3	LD AHU-5						XPM04060	SA Bus	1	6	CO OUT-3									
CO OUT-4	LD AHU-5						XPM04060	SA Bus	1	6	CO OUT-4									

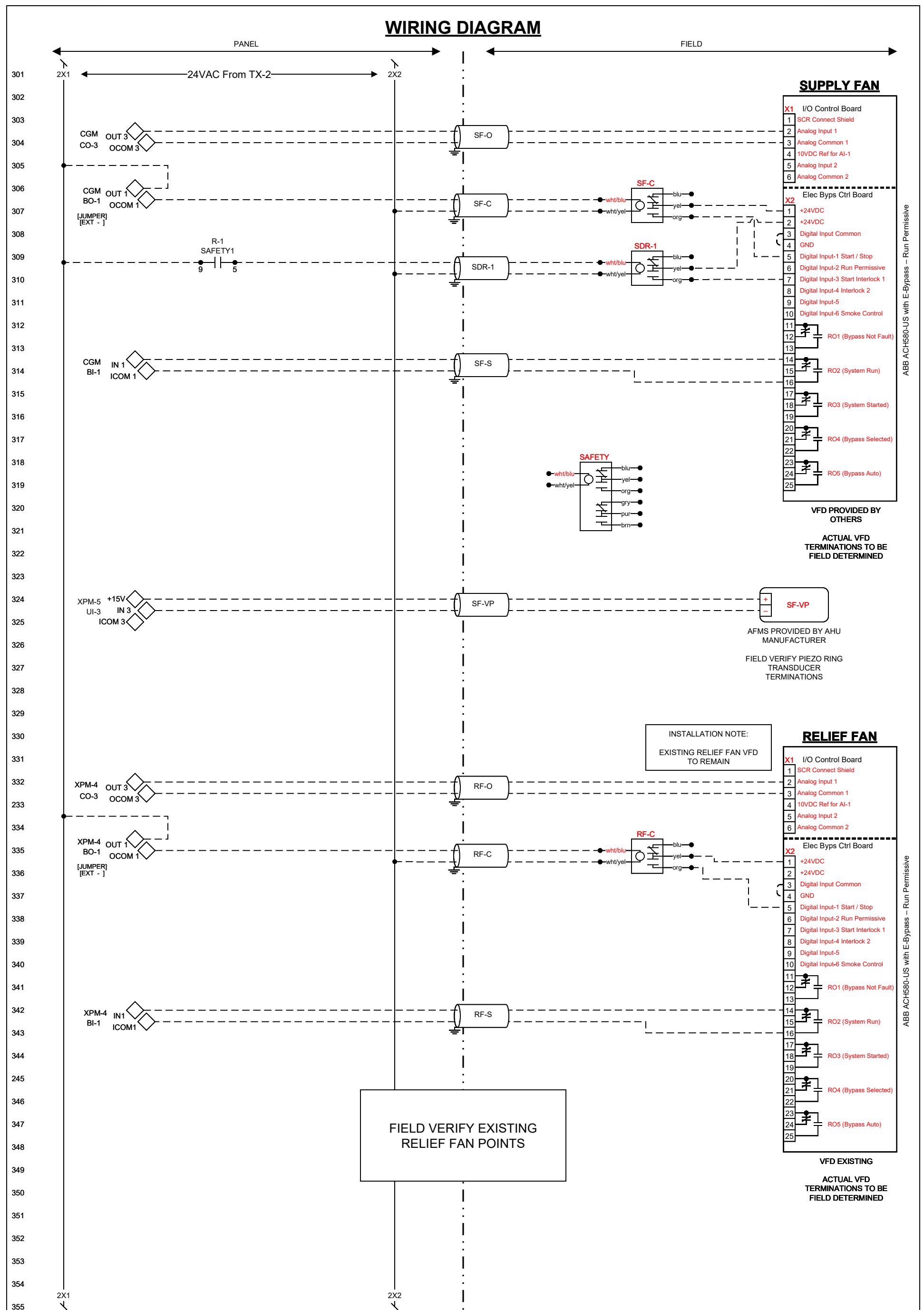
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Sales Engineer	Project Manager	Application Engineer	DRAWN	APPROVED	BY DRG	DATE	1/30/2026	BY	DATE																								
Project Title				Johnson Controls				Branch Information				Johnson Controls				CONTRACT NUMBER																	
IU Indy LD AHU-5				IU#20250569				Johnson Controls				Johnson Controls				6N200480																	
DRAWING NUMBER	Johnson Controls																																
1.6	Johnson Controls																																
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WIRING DETAILS



DRAWING NUMBER REF.	DRAWING TITLE REVISION	AHU-5 - Power Wiring Details 1						DRAWN BY	DATE	REVISION-LOCATION	ECN
		NO.	SLW	SALES ENGINEER	PROJECT MANAGER	APPLICATION ENGINEER	DRG				
6N200480	1.7	FILENAME	1.7 LD AHU-5 - POWER WIRING DETAILS 1.VSDX	REVISION DATE/TIME	02/10/26 1:57 PM	SLW	JG	JB	DG	DRAWN	2/2/2026
PROJECT NAME				BRANCH INFORMATION						Wiring Notes	
IU Indy LD AHU-5 IU#20250569				Johnson Controls 5920 Castleway Drive Suite #130, Indianapolis, Indiana 46250 Phone: 3176387611						Indicates field-installed wiring. nnn indicates terminal number.	

WIRING DIAGRAM



DRAWING NUMBER	DRAWING TITLE	WIRING DETAILS						DRAWN BY	CHECKED BY	APPROVED BY
		1	2	3	4	5	6			
1.9	AHU-5 - Wiring Details 1									
	FILENAME	02/10/26	REVISION DATE/TIME	1:44 PM	SLW	0000040	SALES ENGINEER	JG	PROJECT MANAGER	JB
	1.VSDX						APPLICATION ENGINEER	DG	DRAWN	DRG
	PROJECT NAME		REVISION-LOCATION		ECN		DATE		DATE	2/2/2026
	IU Indy LD AHU-5									
	IU#20250569									
	BRANCH INFORMATION									
	Johnson Controls									
	5920 Castleway Drive Suite									
	#130,									
	Indianapolis, Indiana 46250									
	Phone: 3176387611									

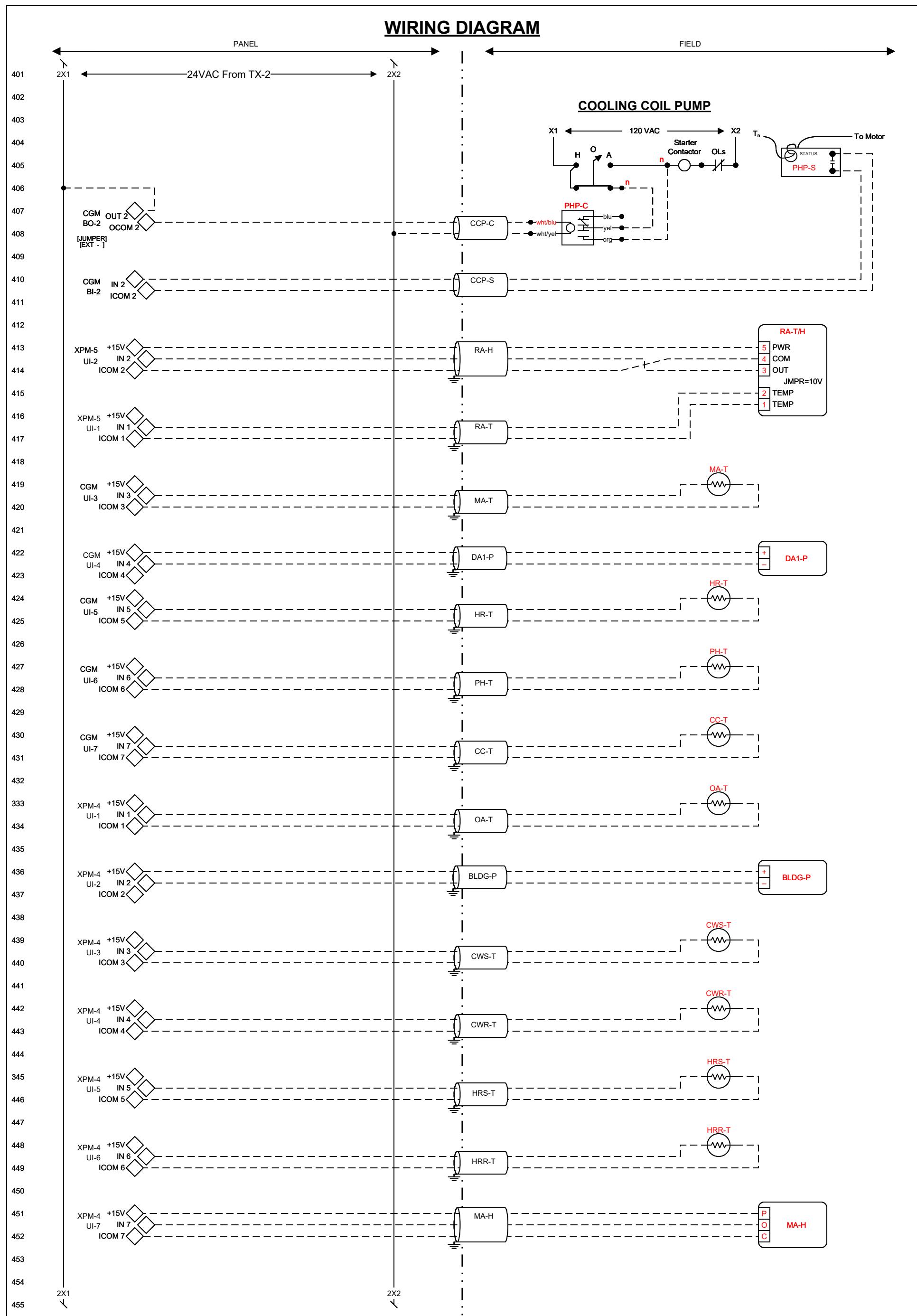


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Wiring Notes

- Terminal in DDC controller.** nn indicates terminal number.
- Shielded cable.** Terminate & ground shield within 2 inches of entry into enclosure. Continue shield to last device and tape back.
- Cable-no shield.** nn indicates cable number (labeled at both ends of cable).
- Terminal in JCI panel.** nn indicates terminal number.
- Indicates field-installed wiring.** nn indicates wire number (labeled at both ends of wire).
- Indicates factory wiring.** nn indicates wire number (labeled at both ends of wire).
- Indicates field-installed wiring.** nn indicates wire number (labeled at both ends of wire).

WIRING DIAGRAM



DRAWING NUMBER	CONTRACT NUMBER	DRAWING TITLE	WIRING DETAILS						DRAWN BY	APPROVED BY					
			NO.	REVISION-LOCATION	ECN	DATE	BY	FILENAME	REVISION DATE/TIME	SLW	SALES ENGINEER	PROJECT MANAGER	APPLICATION ENGINEER		
110	6N200480	AHU-5 - Wiring Details 2						1.10 LD AHU-5 - WIRING DETAILS 2.VSDX	02/10/26 1:42 PM	0000040	JG	JB	DG	DRG	DATE 2/2/2026
PROJECT NAME			BRANCH INFORMATION						Johnson Controls 5920 Castleway Drive Suite #130, Indianapolis, Indiana 46250 Phone: 3176387611						

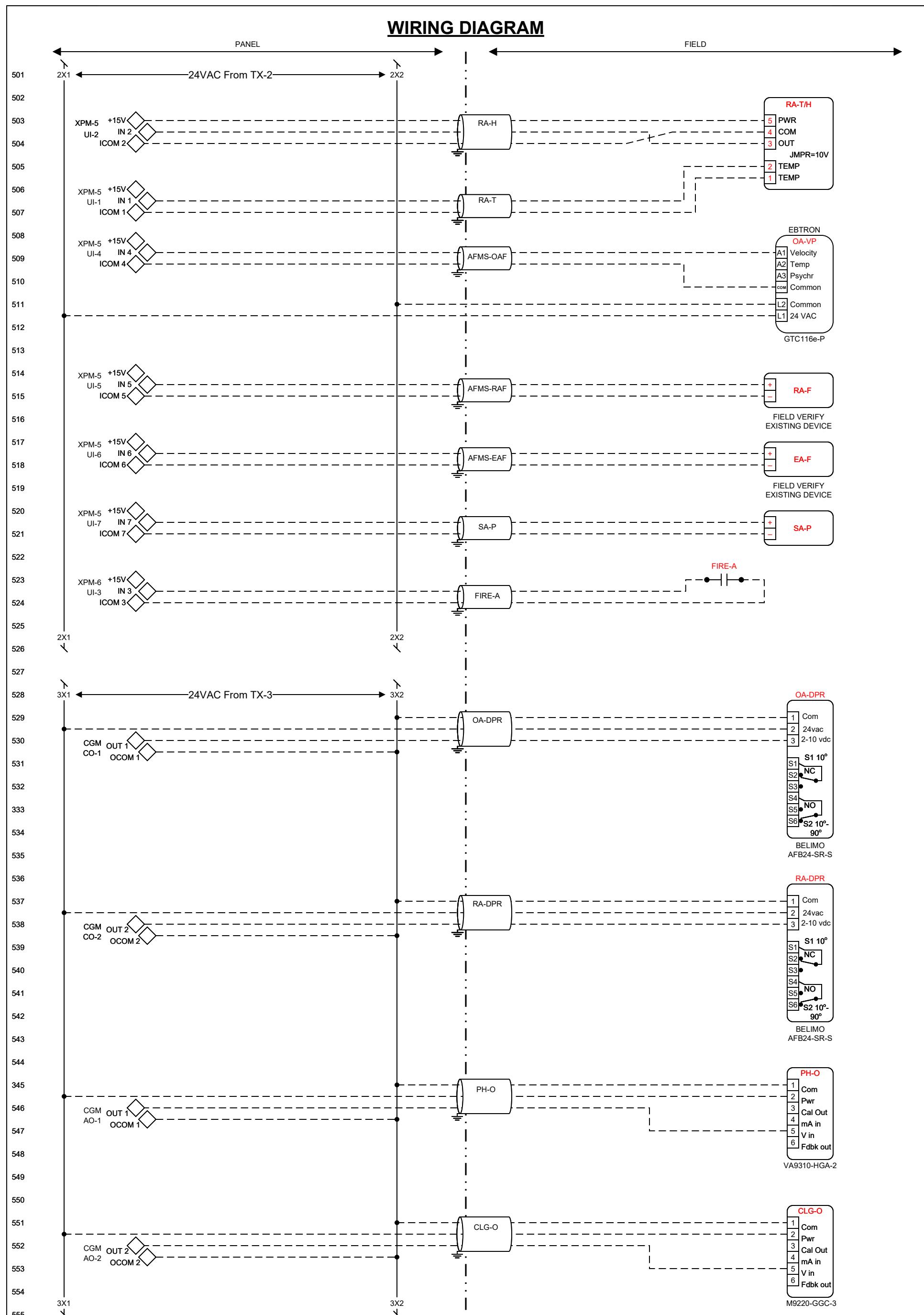
Wiring Notes

- Terminal in DDC controller. nn indicates terminal number.
- Shielded cable. Terminate & ground shield within 2 inches of entry into enclosure. Continue shield to last device and tape back.
- Cable-no shield. nn indicates cable number (labeled at both ends of cable).
- Terminal in JCI panel. nn indicates terminal number.

— nnn — Indicates field-installed wiring. nnn indicates wire number (labeled at both ends of wire).

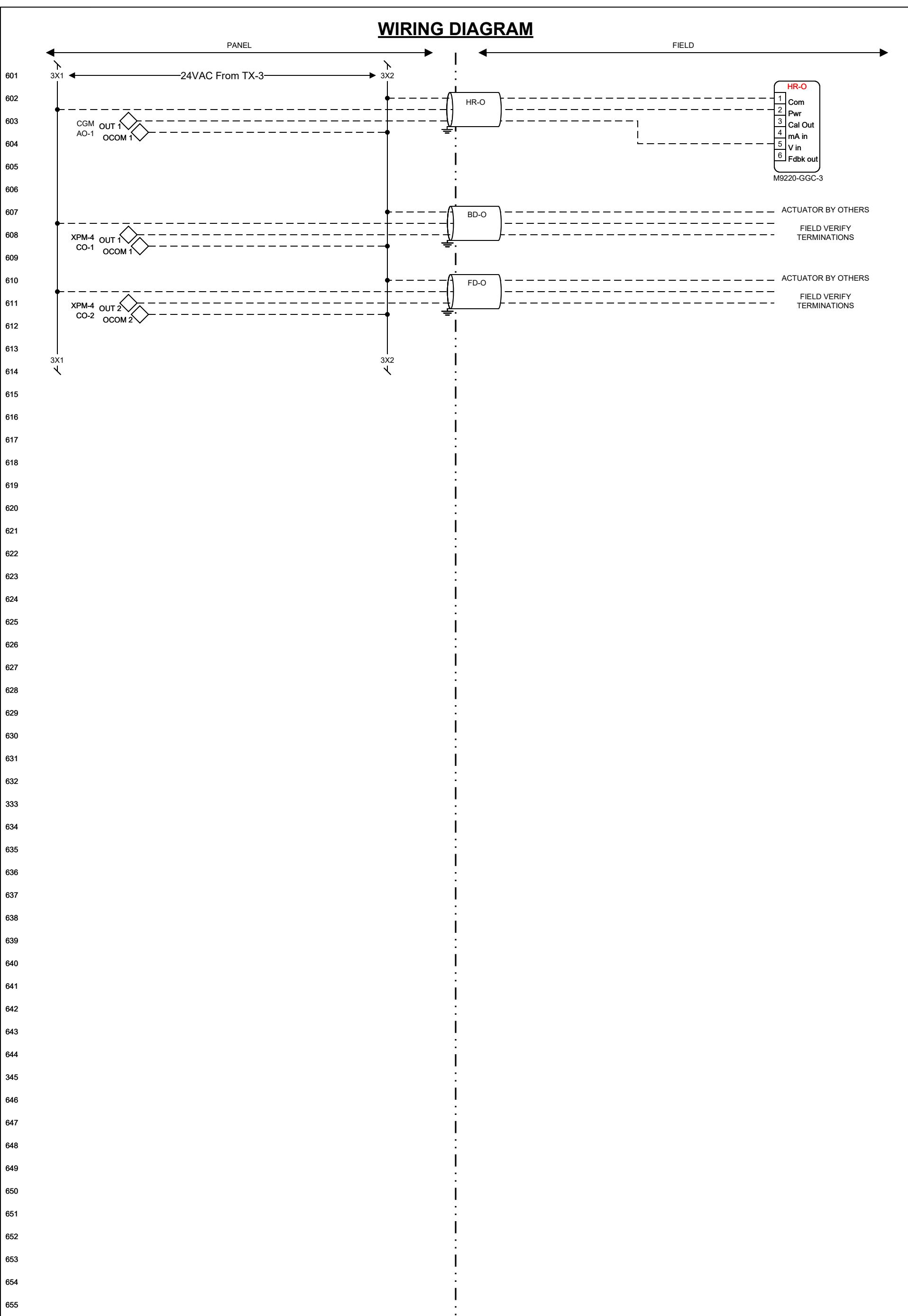
— nnn — Indicates factory wiring. nnn indicates wire number (labeled at both ends of wire).

WIRING DIAGRAM



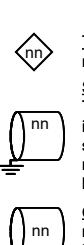
DRAWING NUMBER 1.11	CONTRACT NUMBER 6N200480	DRAWING TITLE AHU-5 - Wiring Details 3									
			APPROVED BY	NO.	REVISION-LOCATION			ECN	DATE	BY	
FILENAME 1.11 LD AHU-5 - WIRING DETAILS 3.VSDX	REVISION DATE/TIME 02/10/26 1:43 PM	SLW 0000040	SALES ENGINEER JG	PROJECT MANAGER JB	APPLICATION ENGINEER DG	DRAWN BY DRG	DATE 2/3/2026	BRANCH INFORMATION Johnson Controls 5920 Castleway Drive Suite #130, Indianapolis, Indiana 46250 Phone: 3176387611			
PROJECT NAME IU Indy LD AHU-5 IU#20250569						Wiring Notes <ul style="list-style-type: none">  nn Terminal in DDC controller. nn indicates terminal number.  nn Shielded cable. Terminate & ground shield within 2 inches of entry into enclosure. Continue shield to last device and tape back.  nn Cable-no shield. nn indicates cable number (labeled at both ends of cable).  nn Terminal in JCI panel. nn indicates terminal number. 					

WIRING DIAGRAM



DRAWING NUMBER	CONTRACT NUMBER	APPROVED BY DATE	DRAWING TITLE AHU-5 - Wiring Details 4							DRAWN BY DRG DATE 2/3/2026	Wiring Notes
				NO.	REVISION-LOCATION	ECN	DATE	BY			
1.12	6N200480		FILENAME 1.12 LD AHU-5 - WIRING DETAILS 4.VSDX	REVISION DATE/TIME 02/10/26 1:43 PM	SLW 0000040	SALES ENGINEER JG	PROJECT MANAGER JB	APPLICATION ENGINEER DG			
PROJECT NAME IU Indy LD AHU-5 IU#20250569				BRANCH INFORMATION Johnson Controls 5920 Castleway Drive Suite #130, Indianapolis, Indiana 46250 Phone: 3176387611							

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Terminal in DDC controller.
nn indicates terminal number.

Indicates field-installed wiring.
nnn indicates wire number (labeled at both ends of wire).

Shielded cable.
Terminate & ground shield within 2 inches of entry into enclosure. Continue shield to last device and tape back.

Indicates factory wiring.
nnn indicates wire number (labeled at both ends of wire).

nn indicates cable number (labeled at both ends of cable).

Indicates field-installed wiring.
nnn indicates wire number (labeled at both ends of wire).

Cable-no-shield.
nn indicates cable number (labeled at both ends of cable).

Terminal in JCI panel.
nnn indicates terminal number.

LD AHU-5 - RAC SCHEDULE

Space Information			Network / Equipment Tree Information						Network Information (MSTP and IP)													
Site/Building/Floor (Required)	Room Number (Optional)	Leaf Space (e.g. Room) (Required)	Device Name (Required)	Device FQR Reference (Required)	Device Description (Optional)	Equipment Name (Required)	Served By Equipment Name (Optional)	Controller Part # (Optional)	Engine Name (Required)	Trunk Name (Required)	Controller Host Name (Future)	JCI MAC Address	IP Controller Number	ZIGBEE PAN Offset	Instance # (BACoid)	N2Address	DHCP Enabled	IP Address	Subnet Mask	IP Router	ETH-1 (Optional)	ETH-2 (Optional)
			Attribute ID																			
			Attribute Type																			
IU Indy / IN073 / Floor 2			LD AHU-5	LD AHU-5	AHU	LD AHU-5		M4-CGM09090-0	NAE-8 LD	FC-1			5		731105							

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	Project Title IU Indy LD AHU-5 IU#20250569			REFERENCE DRAWING NO. Sales Engineer JG Project Manager JB Application Engineer DG DRAWN BY DRG DATE 2/3/2026 BY DATE		REVISION-LOCATION ECN DATE BY DRAWN BY DRG DATE 2/3/2026 BY DATE													
	Branch Information Johnson Controls 5920 Castleway Drive Suite #130, Indianapolis, Indiana 46250 Phone: 3176387611							CONTRACT NUMBER 6N200480											



R.1

LD AHU-5 - VALVE SCHEDULE

Tag					Valve Information													Actuator Information			Piping Detail	Comments	
Item	System	Designation	Qty	Ref. Dwg.	Code Number	Valve Family	Configuration	Fail Position	Inlet Pipe Size	Valve Size	Medium	Flow (gpm [US])	Design Delta P (psig)	Valve Delta P (psig)	Design Coefficient (Cv)	Valve Coefficient (Cv)	Design Close Off (psig)	Valve Close Off (psig)	Trim Material	Connection	Code Number	Actuator Control	
1	LD AHU-5	CLG-VLV	1	M901	VG12A5NY+94NGGC	Ball Valve	2-Way	Valve Closed	Field Verify 5	Water	501.00	5.00	2.98	224.05	290.00	0.00	100.00	Stainless Steel	Flanged	M9220-GCC-3	0-10VDC PROP		
2	LD AHU-5	HR-VLV	1	M901	VG12A5KT+92NGGA	Ball Valve	2-Way	Valve Open	Field Verify 2-1/2	Water	135.00	5.00	3.44	60.37	72.80	0.00	100.00	Stainless Steel	Flanged	M9220-GGA-3	0-10VDC PROP		
3	LD AHU-5	PH-VLV	1	M901	VG1245FRH910HGA	Ball Valve	2-Way	Last Position	Field Verify 2	Steam	3237.60	33.61	22.16	24.60	28.90	60.00	200.00	Stainless Steel	Threaded	VA9310-HGA-2	0-10VDC PROP		

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		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY						
		Sales Engineer	Project Manager	Application Engineer	DRAWN		APPROVED						
		JG	JB	DG	BY DRG	2/3/2026	BY DATE						
		Branch Information			CONTRACT NUMBER								
		Johnson Controls 5920 Castleway Drive Suite #130, Indianapolis, Indiana 46250 Phone: 3176387611			6N200480								
		DRAWING NUMBER			V.1								





IU#20250569

Date:	1/29/2026
KBSO Project #:	25142
Project Name:	Replace AHU-5 and Update Controls
Project Location:	IN073 - IU Indianapolis Science Bldg