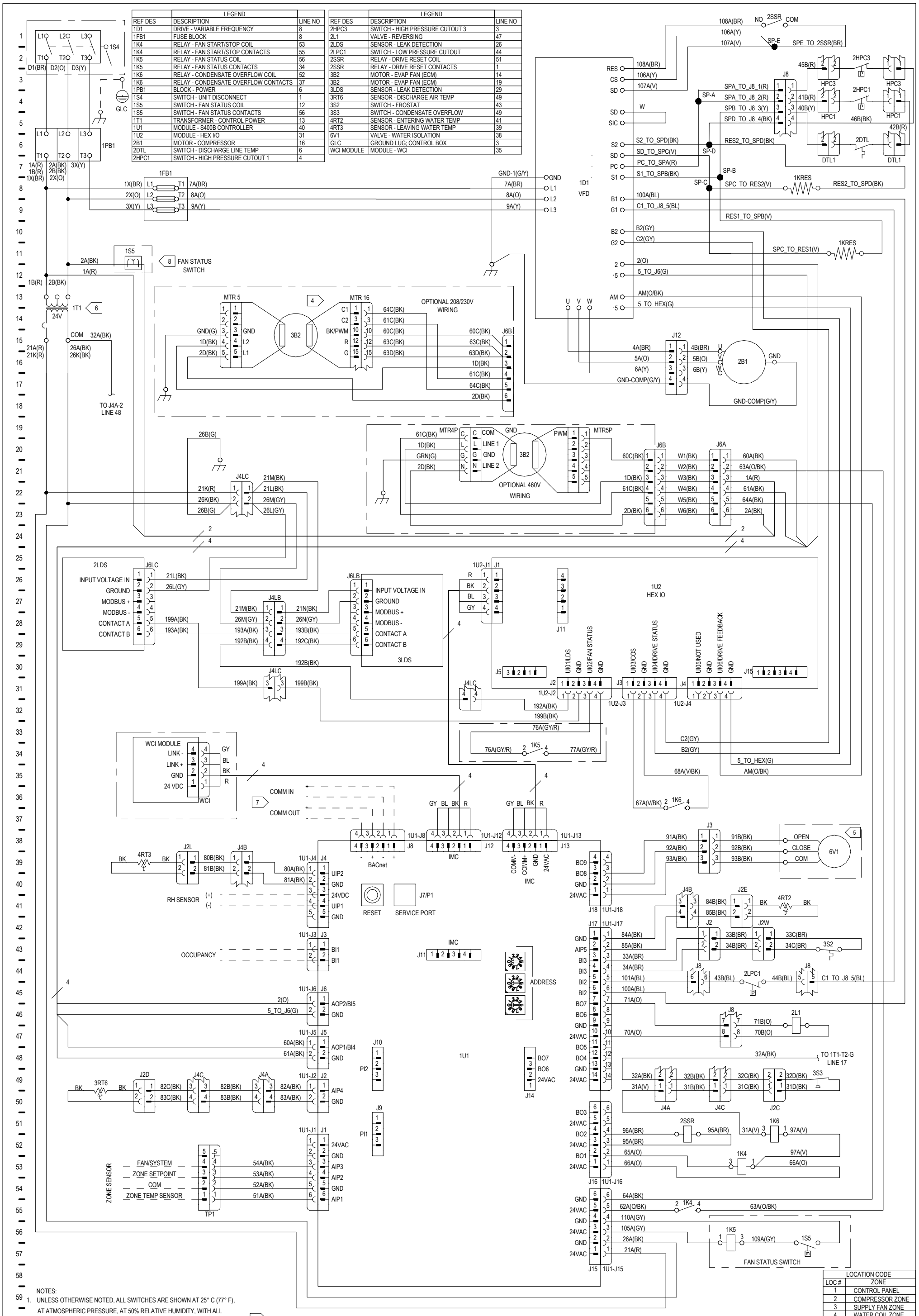

LEGEND		
REF DES	DESCRIPTION	LINE NO
1D1	DRIVE - VARIABLE FREQUENCY	8
1FB1	FUSE BLOCK	8
1K4	RELAY - FAN START/STOP COIL	53
1K4	RELAY - FAN START/STOP CONTACTS	55
1K5	RELAY - FAN STATUS COIL	56
1K5	RELAY - FAN STATUS CONTACTS	34
1K6	RELAY - CONDENSATE OVERFLOW COIL	52
1K6	RELAY - CONDENSATE OVERFLOW CONTACTS	37
1PB1	BLOCK - POWER	6
1S4	SWITCH - UNIT DISCONNECT	1
1S5	SWITCH - FAN STATUS COIL	12
1S5	SWITCH - FAN STATUS CONTACTS	56
1T1	TRANSFORMER - CONTROL POWER	13
1U1	MODULE - S400B CONTROLLER	40
1U2	MODULE - HEX I/O	31
2B1	MOTOR - COMPRESSOR	16
2DTL	SWITCH - DISCHARGE LINE TEMP	6
2HPC1	SWITCH - HIGH PRESSURE CUTOUT 1	4

LEGEND		
REF DES	DESCRIPTION	LINE NO
2HPC3	SWITCH - HIGH PRESSURE CUTOUT 3	3
2L1	VALVE - REVERSING	47
2LDS	SENSOR - LEAK DETECTION	26
2LPC1	SWITCH - LOW PRESSURE CUTOUT	44
2SSR	RELAY - DRIVE RESET COIL	51
2SSR	RELAY - DRIVE RESET CONTACTS	1
3B2	MOTOR - EVAP FAN (ECM)	14
3B2	MOTOR - EVAP FAN (ECM)	19
3LDS	SENSOR - LEAK DETECTION	29
3RT6	SENSOR - DISCHARGE AIR TEMP	49
3S2	SWITCH - FROSTAT	43
3S3	SWITCH - CONDENSATE OVERFLOW	49
4RT2	SENSOR - ENTERING WATER TEMP	41
4RT3	SENSOR - LEAVING WATER TEMP	39
6V1	VALVE - WATER ISOLATION	38
GLC	GROUND LUG; CONTROL BOX	3
WCI MODULE	MODULE - WCI	35

NOTES:

1. UNLESS OTHERWISE NOTED, ALL SWITCHES ARE SHOWN AT 25° C (77° F), AT ATMOSPHERIC PRESSURE, AT 50% RELATIVE HUMIDITY, WITH ALL UTILITIES TURNED OFF, AND AFTER A NORMAL SHUT DOWN HAS OCCURRED.
2. SOLID LINES INDICATE WIRING PROVIDED BY TRANE CO. DASHED LINES INDICATE RECOMMENDED FIELD WIRING PROVIDED BY THE CUSTOMER. DASHED LINE ENCLOSURES AND/OR DASHED DEVICE OUTLINES INDICATE COMPONENTS PROVIDED BY THE CUSTOMER. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS.
3. ALL FIELD WIRING MUST BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC), STATE AND LOCAL REQUIREMENTS. ALL LOW VOLTAGE FIELD CONNECTIONS ARE CLASS 2.

4 CONNECTOR "MTR 16" PINS 2, 4, 5, 6, 7, 8, 9, 11, 13, 14, 16 ARE NOT USED.

5 FOR TWO WIRE VALVES CONNECT TO WIRES 91B AND 93B.

6 FOR 208/230V UNITS TRANSFORMER IS FACTORY WIRED FOR 230V. FOR 208V APPLICATION MOVE PRIMARY WIRE FROM THE 230V TAB TO THE 208V TAB.

7 USE 18 AWG (25PF/FT. NOM.) COMMUNICATION-STYLE WIRE, BRAID- OR FOIL- SHIELDED, TWISTED PAIR, IMPEDANCE: 60.7 OHMS, MAXIMUM LENGTH: 4,000 FT. CAUTION! DO NOT RUN POWER IN THE SAME CONDUIT WITH COMMUNICATION WIRE.

8 WIRE 2A MUST PASS THROUGH DEVICE CENTER 2 TIMES FOR PROPER OPERATION.

LOCATION CODE	
LOC #	ZONE
1	CONTROL PANEL
2	COMPRESSOR ZONE
3	SUPPLY FAN ZONE
4	WATER COIL ZONE
5	RETURN AIR ZONE
6	FIELD INSTALLED

SYMBOL LEGEND

TRANE WIRING:	CUSTOMER PROVIDED:	EARTH GROUND:	SPLICE (SP):	MULTIPLE WIRE SYMBOL:	SHIELDED CABLE:
FIELD WIRING:	ALTERNATE/OPTIONS:	EQUIPMENT CHASSIS:	JUNCTION:	TWISTED CONDUCTORS:	LINE BREAK:

TRANE ®

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WATER SOURCE HEAT PUMP
SCHEMATICS
WSHP VARIABLE SPEED 3 PHASE

DESIGNER:	ENGINEER:	NUMBER:	TRANE © DATE:	REV	SHEET
C. COLLINS	D. SHELTON	23116741	7/08/2025	B	1