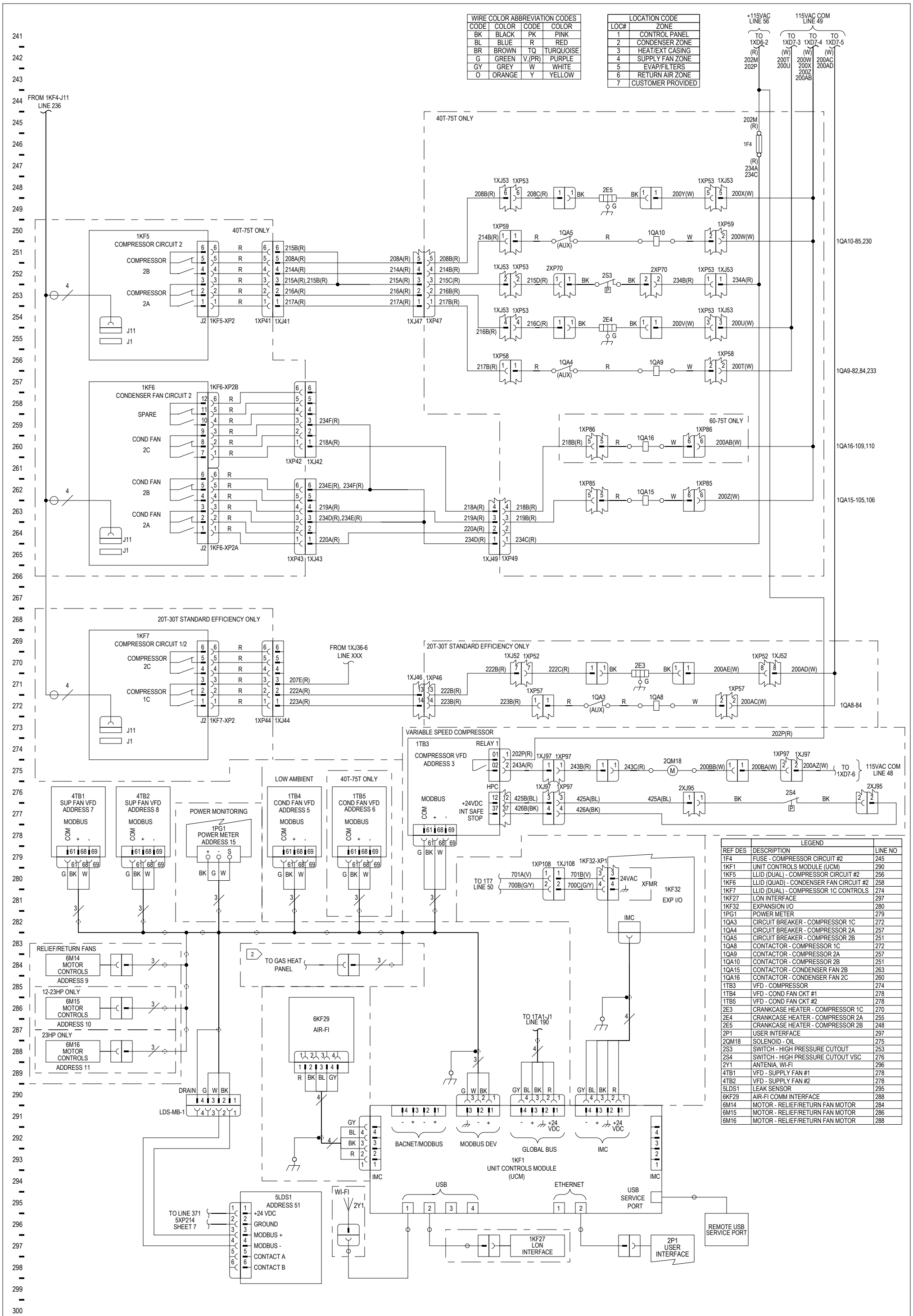
WIRE COLOR ABBREVIATION CODES			
CODE	COLOR	CODE	COLOR
BK	BLACK	PK	PINK
BL	BLUE	R	RED
BR	BROWN	TQ	TURQUOISE
G	GREEN	V,(PR)	PURPLE
GY	GREY	W	WHITE
O	ORANGE	Y	YELLOW

LOCATION CODE	
LOC#	ZONE
1	CONTROL PANEL
2	CONDENSER ZONE
3	HEAT/EXT CASING
4	SUPPLY FAN ZONE
5	EVAP/FILTERS
6	RETURN AIR ZONE
7	CUSTOMER PROVIDED



LEGEND		
REF DES	DESCRIPTION	LINE NO
1F4	FUSE - COMPRESSOR CIRCUIT #2	245
1KF1	UNIT CONTROLS MODULE (UCM)	290
1KF5	LLID (DUAL) - COMPRESSOR CIRCUIT #2	256
1KF6	LLID (QUAD) - CONDENSER FAN CIRCUIT #2	258
1KF7	LLID (DUAL) - COMPRESSOR 1C CONTROLS	274
1KF27	LON INTERFACE	297
1KF32	EXPANSION I/O	280
1PG1	POWER METER	279
1QA3	CIRCUIT BREAKER - COMPRESSOR 1C	272
1QA4	CIRCUIT BREAKER - COMPRESSOR 2A	257
1QA5	CIRCUIT BREAKER - COMPRESSOR 2B	251
1QA8	CONTACTOR - COMPRESSOR 1C	272
1QA9	CONTACTOR - COMPRESSOR 2A	257
1QA10	CONTACTOR - COMPRESSOR 2B	251
1QA15	CONTACTOR - CONDENSER FAN 2B	263
1QA16	CONTACTOR - CONDENSER FAN 2C	260
1TB3	VFD - COMPRESSOR	274
1TB4	VFD - COND FAN CKT #1	278
1TB5	VFD - COND FAN CKT #2	278
2E3	CRANKCASE HEATER - COMPRESSOR 1C	270
2E4	CRANKCASE HEATER - COMPRESSOR 2A	255
2E5	CRANKCASE HEATER - COMPRESSOR 2B	248
2P1	USER INTERFACE	297
2QM18	SOLENOID - OIL	275
2S3	SWITCH - HIGH PRESSURE CUTOUT	253
2S4	SWITCH - HIGH PRESSURE CUTOUT VSC	276
2Y1	ANTENIA, WI-FI	296
4TB1	VFD - SUPPLY FAN #1	278
4TB2	VFD - SUPPLY FAN #2	278
5LDS1	LEAK SENSOR	295
6KF29	AIR-FI COMM INTERFACE	288
6M14	MOTOR - RELIEF/RETURN FAN MOTOR	284
6M15	MOTOR - RELIEF/RETURN FAN MOTOR	286
6M16	MOTOR - RELIEF/RETURN FAN MOTOR	288

NOTES:

1. NUMBERS ALONG THE RIGHT SIDE OF THE SCHEMATIC DESIGNATE THE LOCATIONS OF CONTACTS BY THE LINE NUMBER. AN UNDERLINED NUMBER INDICATE A NORMALLY CLOSED CONTACT. AN OPEN ARROW BELOW THE LINE NUMBER POINTING UPWARD INDICATES A TIMED CONTACT WHICH BEGINS TIMING WHEN ENERGIZED.

2 SEE APPLICABLE GAS HEAT SECTION DIAGRAMS FOR BALANCE OF CIRCUIT.

DESIGNER:	T. PEED
ENGINEER:	E. CAROTA
TRANE © DATE:	5/2/2024
REPLACES:	
SIMILAR TO:	
REVISION DATE:	5/2/2024
REVISED BY:	T. PEED
APPROVED BY:	E. CAROTA
CAD SYSTEM USED:	CREO SCHEMATICS

TRANE ®

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IPAK 3
CONTROLS SCHEMATIC
20T-75T REFRIGERATION SYSTEMS WITH VARIABLE SPEED COND FAN

MASTER NUMBER:	DRAWING NUMBER:	SHEET:	REV
	12135006	5 OF 16	B