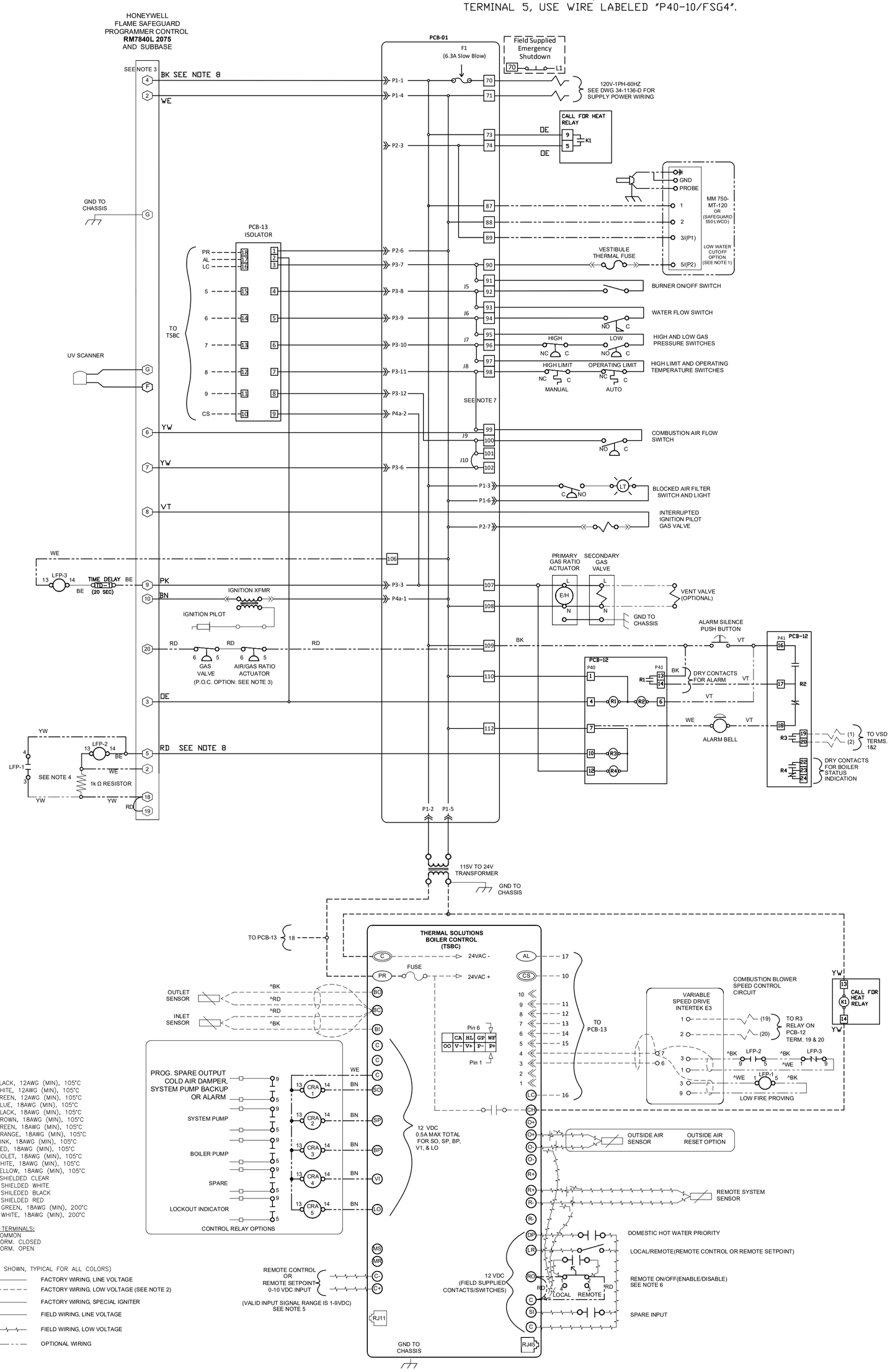
TERMINAL TYPES:

- (#) HONEYWELL RM 7800 SUBBASE
- (#) COMPRESSION
- #≫ MOLEX CONNECTOR
- (#) MALE SPADE TERMINAL
- (#) FEMALE SPADE TERMINAL
- # RJ11 OR RJ45 CONNECTOR

RELAY / SWITCH TERMINALS:
C = COMMON
NC = NORM. CLOSED
NO = NORM. OPEN

NOTES:
1. IF LOW WATER CUTOFF (LWCO) IS SHIPPED LOOSE DISCONNECT WIRE, LABELED P10-89/LWCO 3, FROM VESTIBULE THERMAL FUSE AND CONNECT TO LWCO TERMINAL 3 AND CONNECT LWCO TERMINAL 5 TO VESTIBULE THERMAL FUSE.
2. FACTORY WIRING, LOW VOLTAGE IS 24VAC UNLESS OTHERWISE INDICATED.
3. IF THE P.O.C. OPTION IS NOT USED, JUMPER TERMINAL 4 TO TERMINAL 20 ON THE FLAME SAFEGUARD SUBBASE.
4. IF THE LFP OPTION IS NOT USED, JUMPER TERMINAL 5 TO TERMINAL 18 ON THE FLAME SAFEGUARD SUBBASE.
5. THE VALID INPUT SIGNAL RANGE FOR TERMINALS (C+,C-) IS 1-9VDC. A SIGNAL ABOVE OR BELOW THIS RANGE IS RECOGNIZED AS A 'SOFT' ALARM. AS A RESULT, THE CONTROL FUNCTION IS IGNORED.
6. IF THE REMOTE ON/OFF(ENABLE/DISABLE) SWITCH IS NOT ORDERED, JUMPER TERMINAL RO TO TERMINAL C ON THE TSBC. WHEN IT IS ORDERED, THE SWITCH IS FACTORY SUPPLIED & THE CONTACTS ARE FIELD SUPPLIED.
7. CUT JUMPERS 5, 6, 7, 8, AND 9.
8. ON FSG TERMINAL 4, USE WIRE LABELED "P1-7/FSG5". ON FSG TERMINAL 5, USE WIRE LABELED "P40-10/FSG4".



WIRE COLORS:
*BK = BLACK, 12AWG (MIN), 105°C
*WE = WHITE, 12AWG (MIN), 105°C
*GN = GREEN, 12AWG (MIN), 105°C
BE = BLUE, 18AWG (MIN), 105°C
BK = BLACK, 18AWG (MIN), 105°C
BN = BROWN, 18AWG (MIN), 105°C
GN = GREEN, 18AWG (MIN), 105°C
OE = ORANGE, 18AWG (MIN), 105°C
PK = PINK, 18AWG (MIN), 105°C
RD = RED, 18AWG (MIN), 105°C
VT = VIOLET, 18AWG (MIN), 105°C
WE = WHITE, 18AWG (MIN), 105°C
YW = YELLOW, 18AWG (MIN), 105°C
^CL = SHIELDED CLEAR
^WE = SHIELDED WHITE
^BK = SHILEDED BLACK
^RD = SHIELDED RED
^^GN = GREEN, 18AWG (MIN), 200°C
^^WE = WHITE, 18AWG (MIN), 200°C

RELAY/SWITCH TERMINALS:
C = COMMON
NC = NORM. CLOSED
NO = NORM. OPEN

WIRE TYPES:
(BLACK COLOR SHOWN, TYPICAL FOR ALL COLORS)
- FACTORY WIRING, LINE VOLTAGE
- FACTORY WIRING, LOW VOLTAGE (SEE NOTE 2)
- FACTORY WIRING, SPECIAL IGNITER
- FIELD WIRING, LINE VOLTAGE
- FIELD WIRING, LOW VOLTAGE
- OPTIONAL WIRING

REV:	EN:	DATE:	DWN:	CHKD:	APPD:	APPD:
8	34-1922	07/27/2023	ZK	SPS		

ADDED COLORS TO WIRES, ADDED NOTE FOR CLARIFICATION

REFERENCE ASME Y14.5M-1994 FOR GEOMETRIC TOLERANCES. ALL DIMENSIONS IN INCHES. DRAWING NOT TO BE SCALED.
NON-BASIC DIMENSIONAL AND ANGULAR TOLERANCES UNLESS OTHERWISE NOTED:
DECIMALS: X.X – ±0.1, X.XX – ±0.03, X.XXX – ±0.005. FRACTIONAL: ±1/32. ANGULAR: ±1°

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SUPERCEDES:
34-1147-C, 34-1181-C

PROPERTY OF

Thermal Solutions Products LLC
LANCASTER, PA 17604-3244

TITLE
LADDER WIRING DIAGRAM
CONTROL CIRCUIT W/ P.O.C. & L.F.P.
RM7840L 2075 PROGRAMMER CONTROL; EVS-500/3000

DRAWING NUMBER	SCALE	DWG SIZE	SHEET
34-1323-C	NONE	C	1 OF 1