

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

REV. L	EN: 34-1084-9299	DATE: 10/2/14	DINN:	CJW	CHKD:	MKU	APPD:	APPD:
LWCO WAS UPDATED								

REFERENCE ASME Y14.5M-1994 FOR GEOMETRIC TOLERANCES. ALL DIMENSIONS IN INCHES. DRAWING NOT TO BE SCALED.
NON-BASIC DIMENSION 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:

Thermal Solutions Products LLC

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TITLE

LADDER WIRING DIAGRAM

CONTROL CIRCUIT W/
PROGRAMMER CONTROL; EVCA-750/2000

DRAWING NUMBER

34-1093-C

SCALE

NONE

DWG SIZE

C

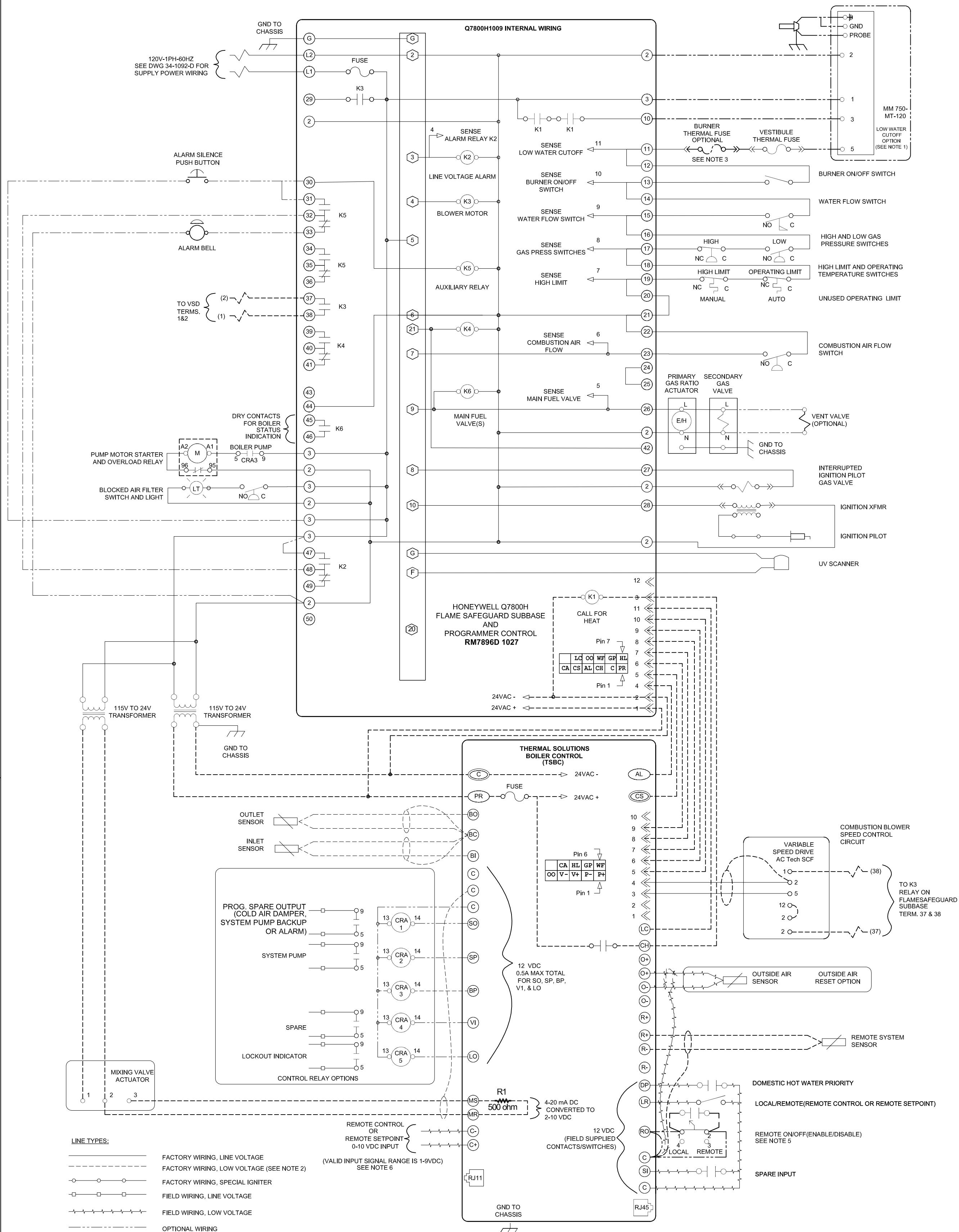
SHEET

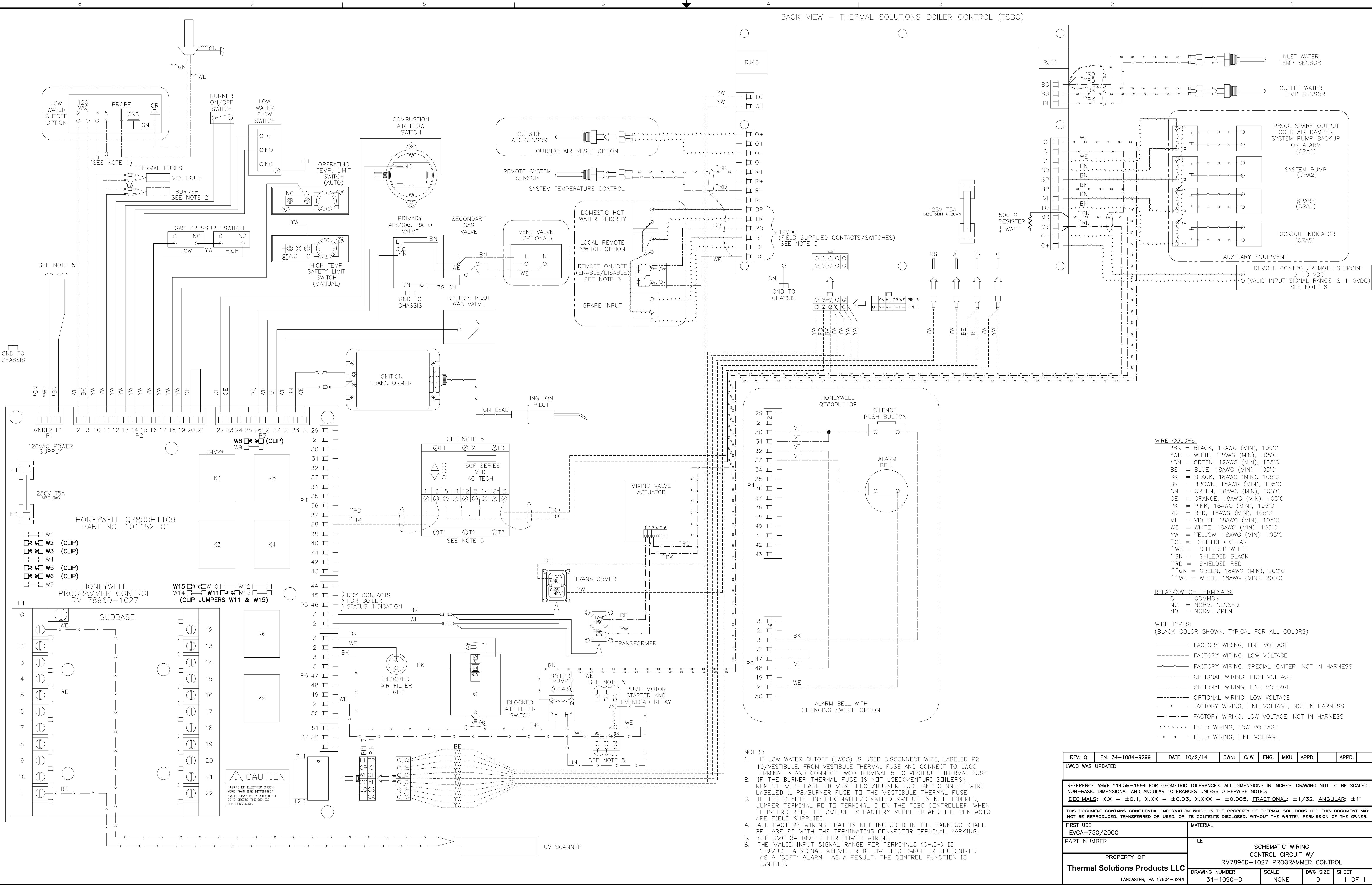
1 OF 1

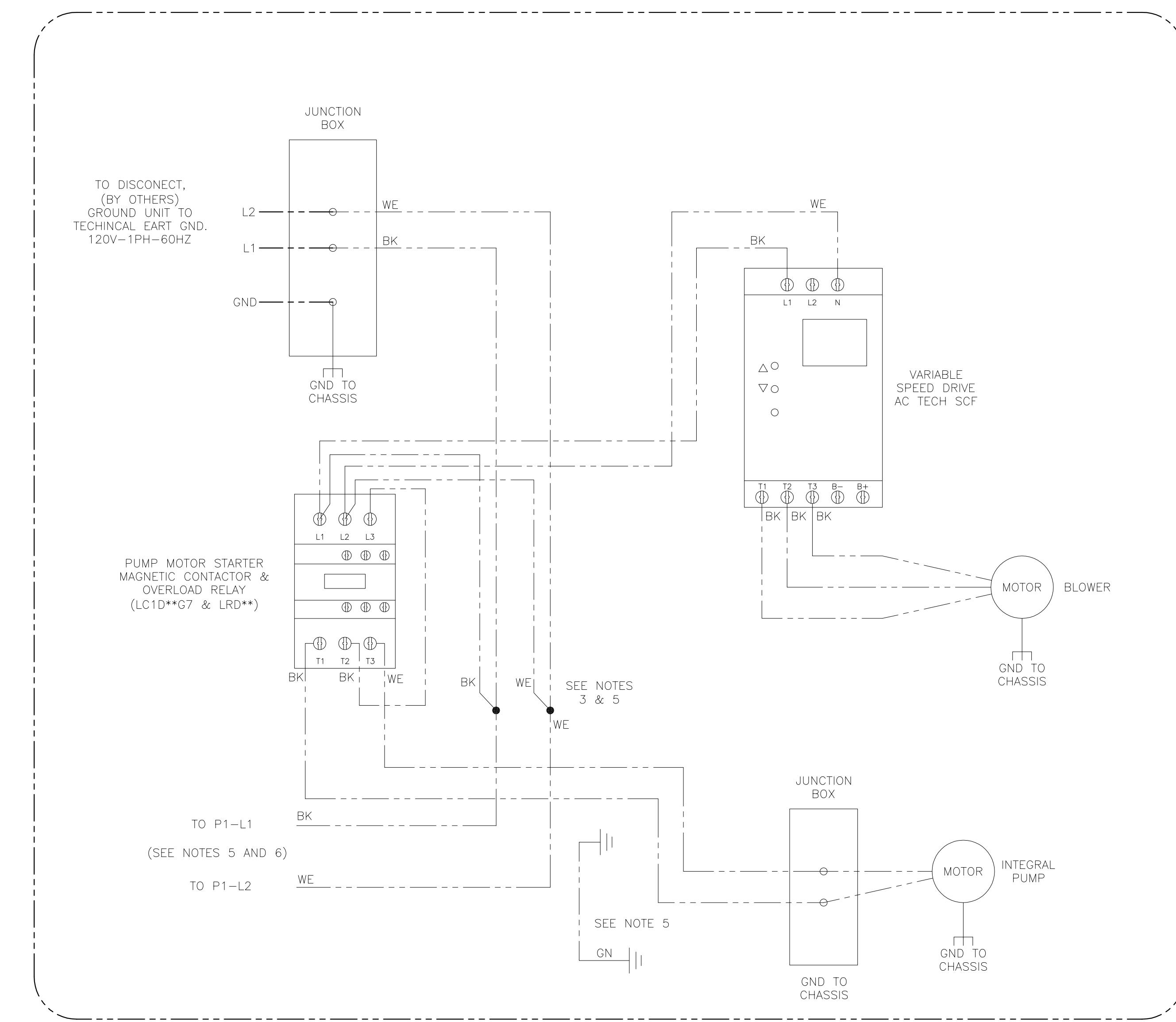
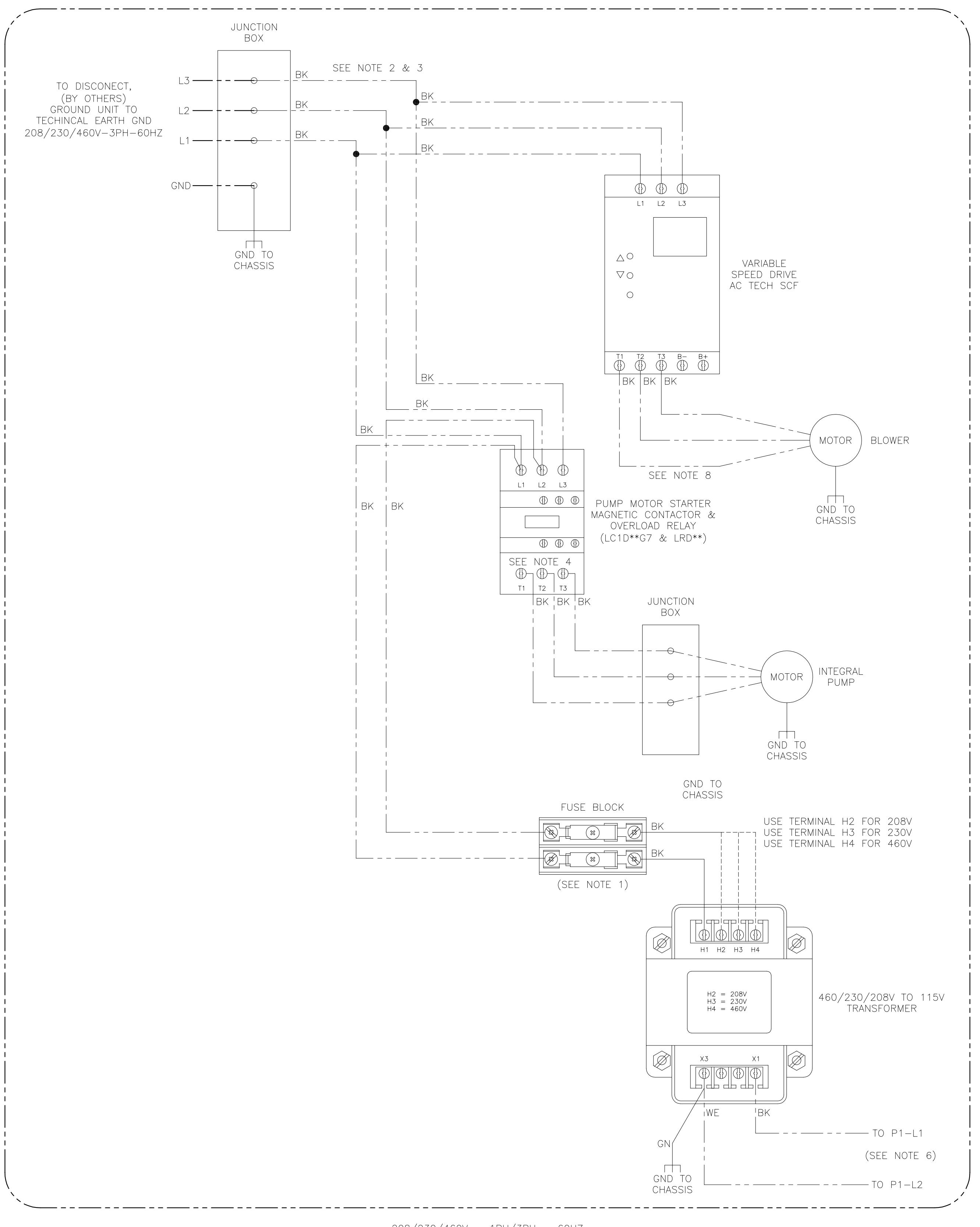
NOTES:

1. IF LOW WATER CUTOFF (LWCO) IS USED DISCONNECT WIRE, LABELED P2 10/VESTIBULE, 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 BURNER THERMAL FUSE IS NOT USED(VENTURI BOILERS), REMOVE WIRE LABELED VEST FUSE/BURNER FUSE AND CONNECT WIRE LABELED 11 P2/BURNER FUSE TO THE VESTIBULE THERMAL FUSE.

4. 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.
5. IF THE REMOTE ON/OFF(ENABLE/DISABLE) SWITCH IS NOT ORDERED, JUMPER TERMINAL RD TO TERMINAL C ON THE TSBC. WHEN IT IS ORDERED, THE SWITCH IS FACTORY SUPPLIED AND THE CONTACTS ARE FIELD SUPPLIED.







NOT

1. UL CLASS 'CC' CARTRIDGE FUSE TIME DELAY, 600V AC, 200K I.R., 3 AMP.
 2. IF SINGLE PHASE ELECTRICAL INPUT IS USED, L3 IS NOT USED.
 3. USE SPRING CAGE CONNECTORS (PN 81368915) FOR WIRE JUNCTIONS.
 4. FOR SINGLE PHASE WIRING, WIRE BETWEEN T2 AND PUMP MOTOR IS REPLACED WITH BK 12 AWG JUMPER BETWEEN T2 AND L3 ON MOTOR STARTER.
 5. FOR 120V-1PH ONLY:
 - A. REMOVE FORKED CONNECTOR FROM BK WIRE LABELED L1-P1/115V XFMER X1 AND COMBINE INTO CONNECTOR AS SHOWN.
 - B. CLIP AND REMOVE WE WIRE LABELED L2-P1/115V XFMER X3 FROM FORKED CONNECTOR AND COMBINE INTO CONNECTOR AS SHOWN.
 - C. SECURE FORKED END AND RING TERMINAL END OF GN WIRE LABELED 115V XFMER GND/X3 TO THE CONTROL PANEL ASSEMBLY.
 6. FOR CONTROL CIRCUIT WIRING, USE THE FOLLOWING DWGS:

SCHEMATIC:

34-1090-D STANDARD	}	EVCA-750/2000
34-1150-D P.O.C. OPTION		
34-1165-D STANDARD	}	EVCA-2000S/3000
34-1166-D P.O.C. OPTION		

LADDER:

34-1093-C STANDARD	}	EVCA-750/2000
34-1149-C P.O.C. OPTION		
34-1168-C STANDARD	}	EVCA-2000S/3000
34-1167-C P.O.C. OPTION		
 7. ALL WIRING SHALL BE LABELED WITH THE TERMINATING CONNECTOR TERMINAL MARKING.
 8. FOR 3 PHASE INPUT, THE LEAD WIRES MUST BE REVERSED AS SHOWN BELOW TO GET PROPER MOTOR ROTATION.

-> L1 TO T2
-> L2 TO T1
-> L3 TO T3

120V - 1 PH - 60HZ
SUPPLY POWER OPTION

WIRING LEGEND

- — — FACTORY WIRING, 12 AWG, 600V, 105°C
— — — FACTORY WIRING, 18 AWG, 600V, 105°C

REV: N	EN: 34-1112-9677	DATE: 02/26/15	DWN:	CJW	ENG:	MKU	APPD:		APPD:
DESCRIPTION: ADDED NOTE 8									
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FIRST USE EVCA-750/3000		MATERIAL							
PART NUMBER		TITLE SCHEMATIC WIRING SUPPLY POWER							
PROPERTY OF Thermal Solutions Products LLC LANCASTER, PA 17604-3244									
DRAWING NUMBER 34-1092-D		SCALE NONE		DWG SIZE D		SHEET 1 OF 1			