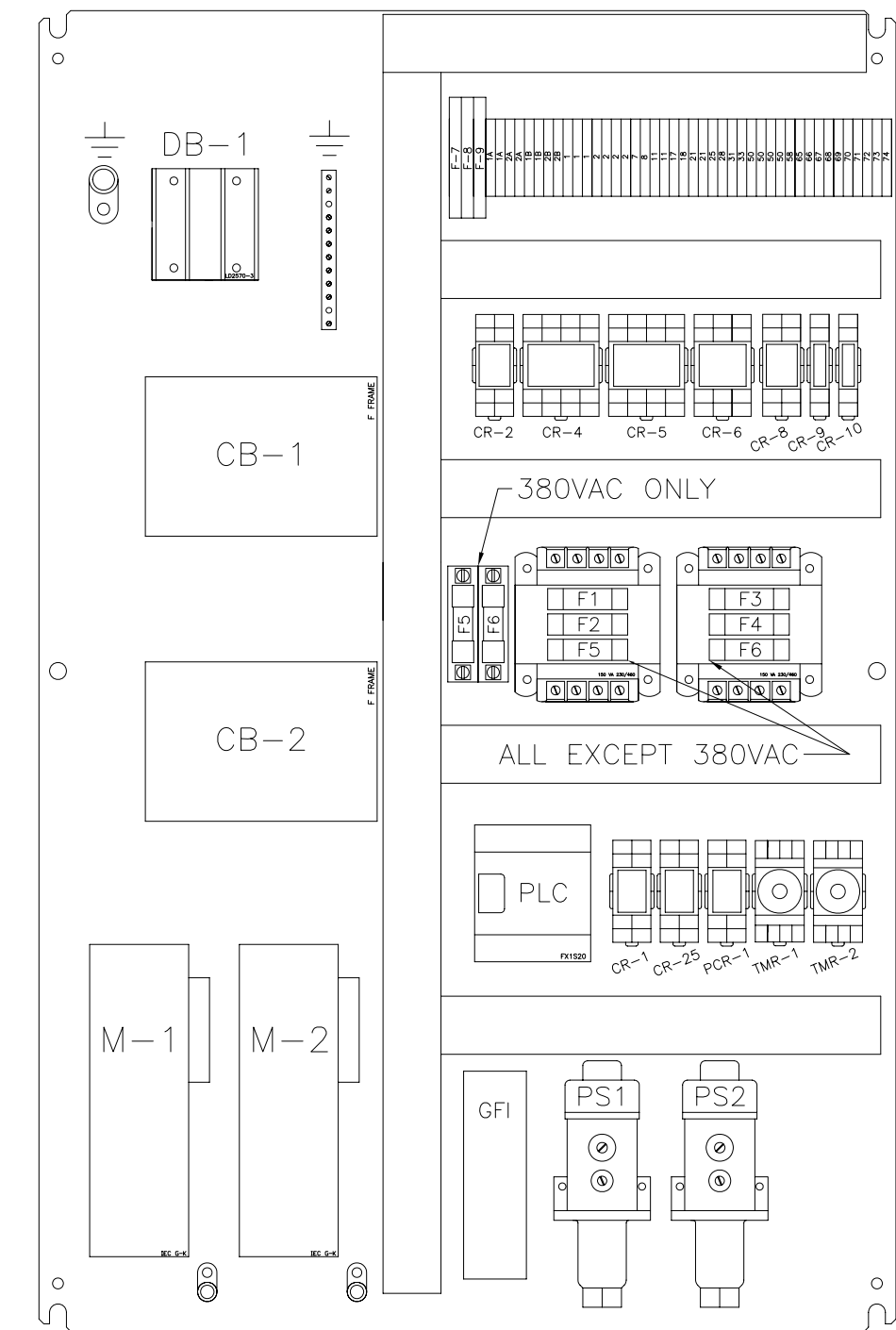
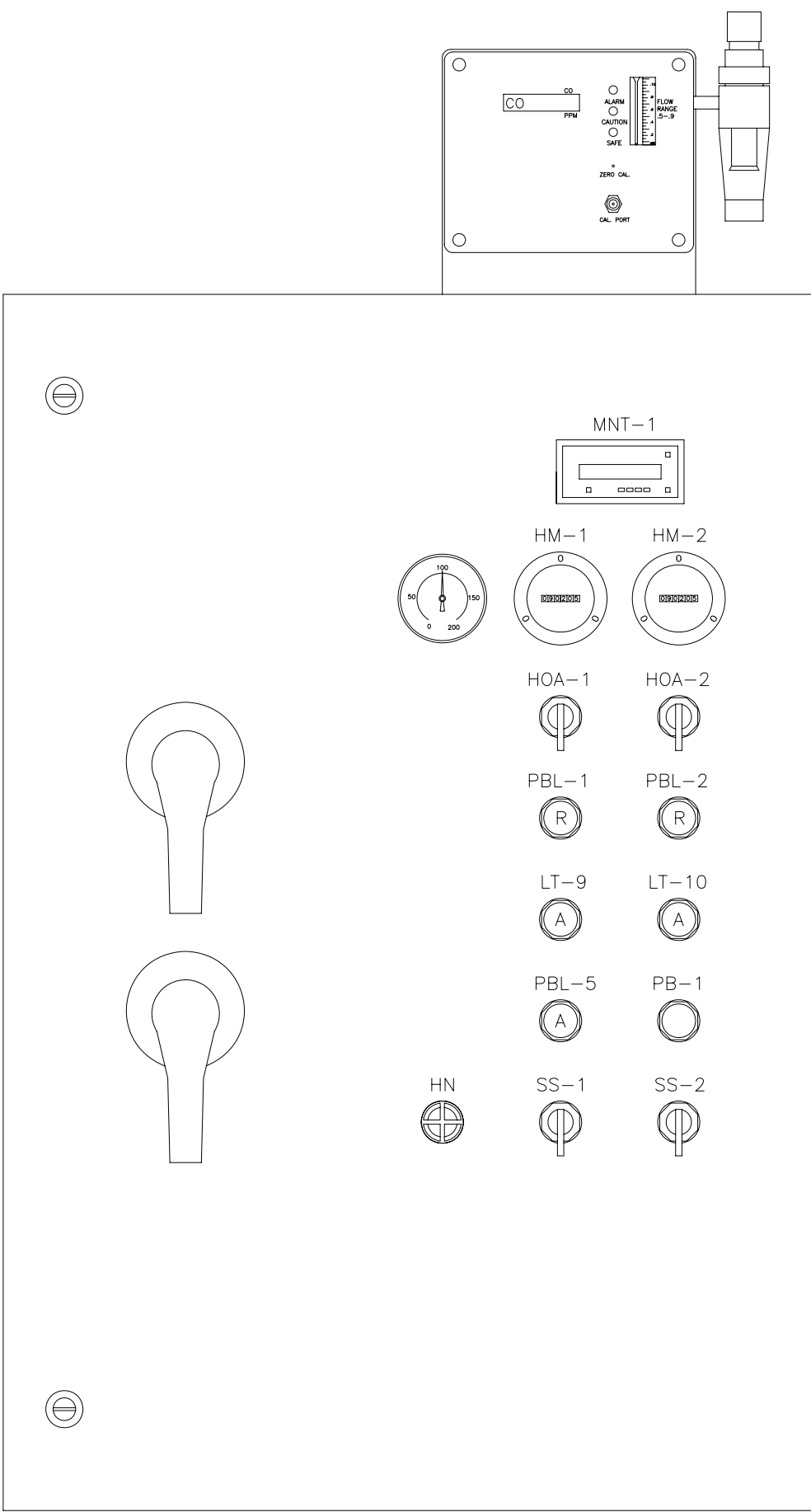


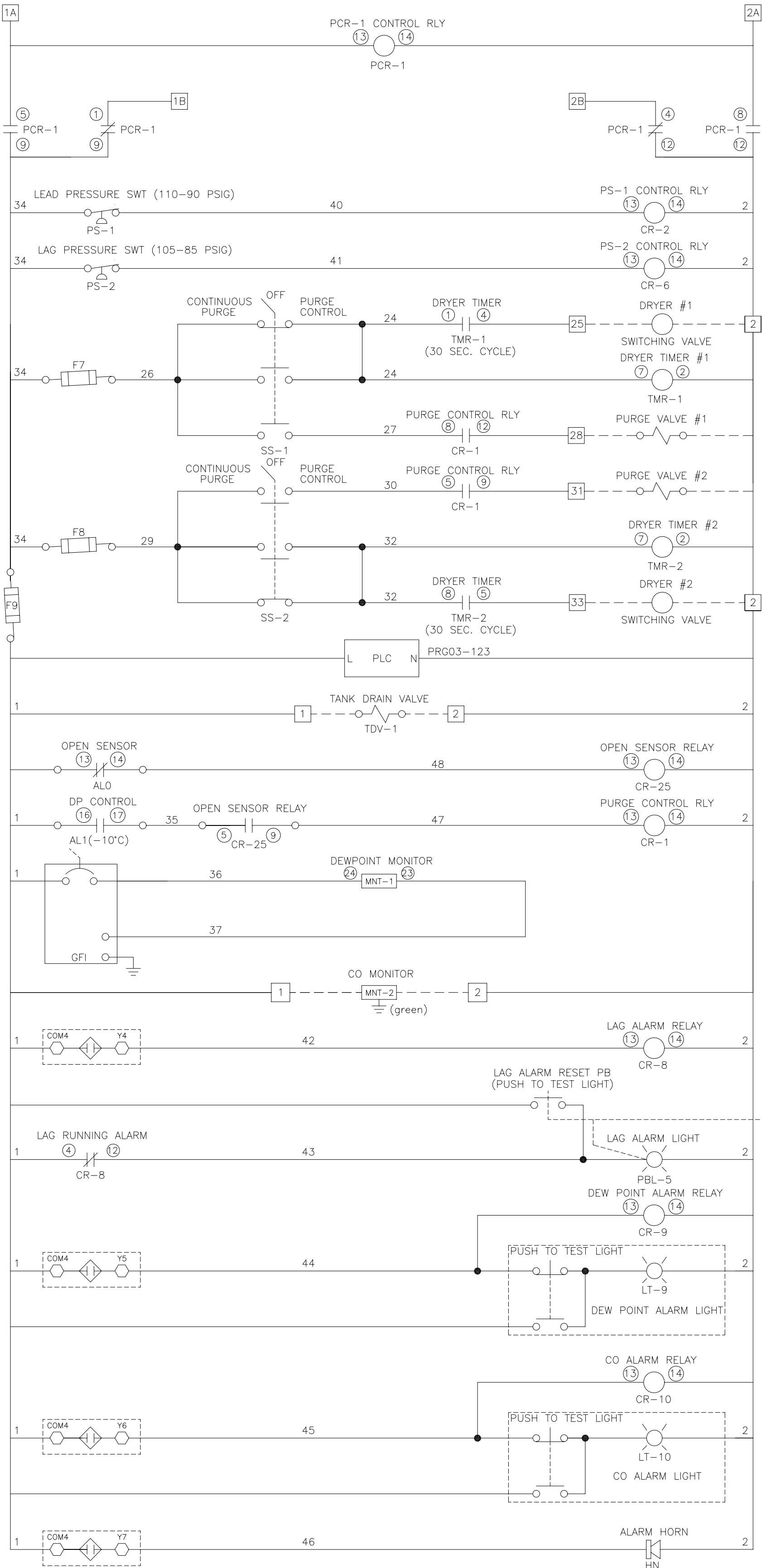
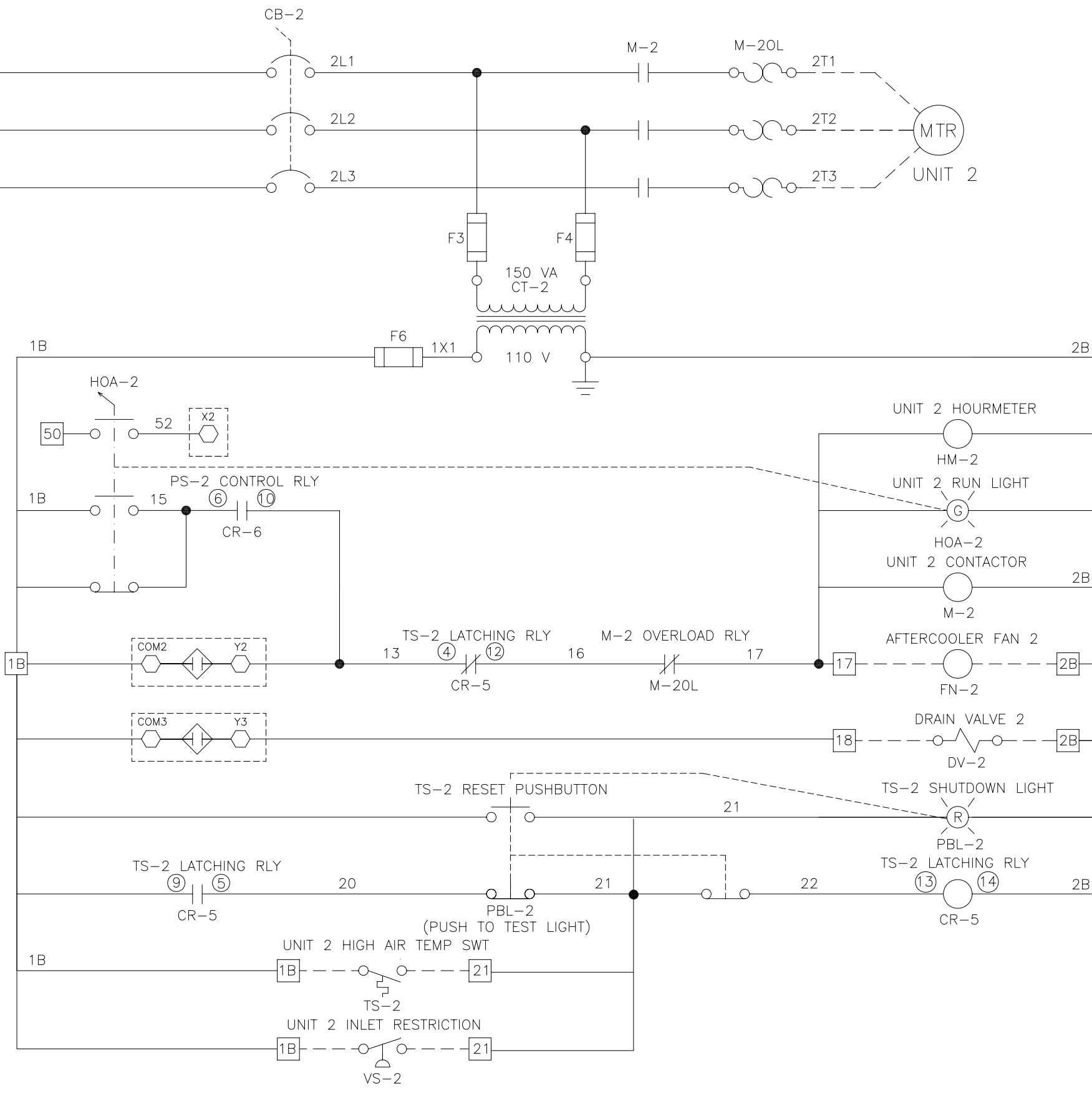
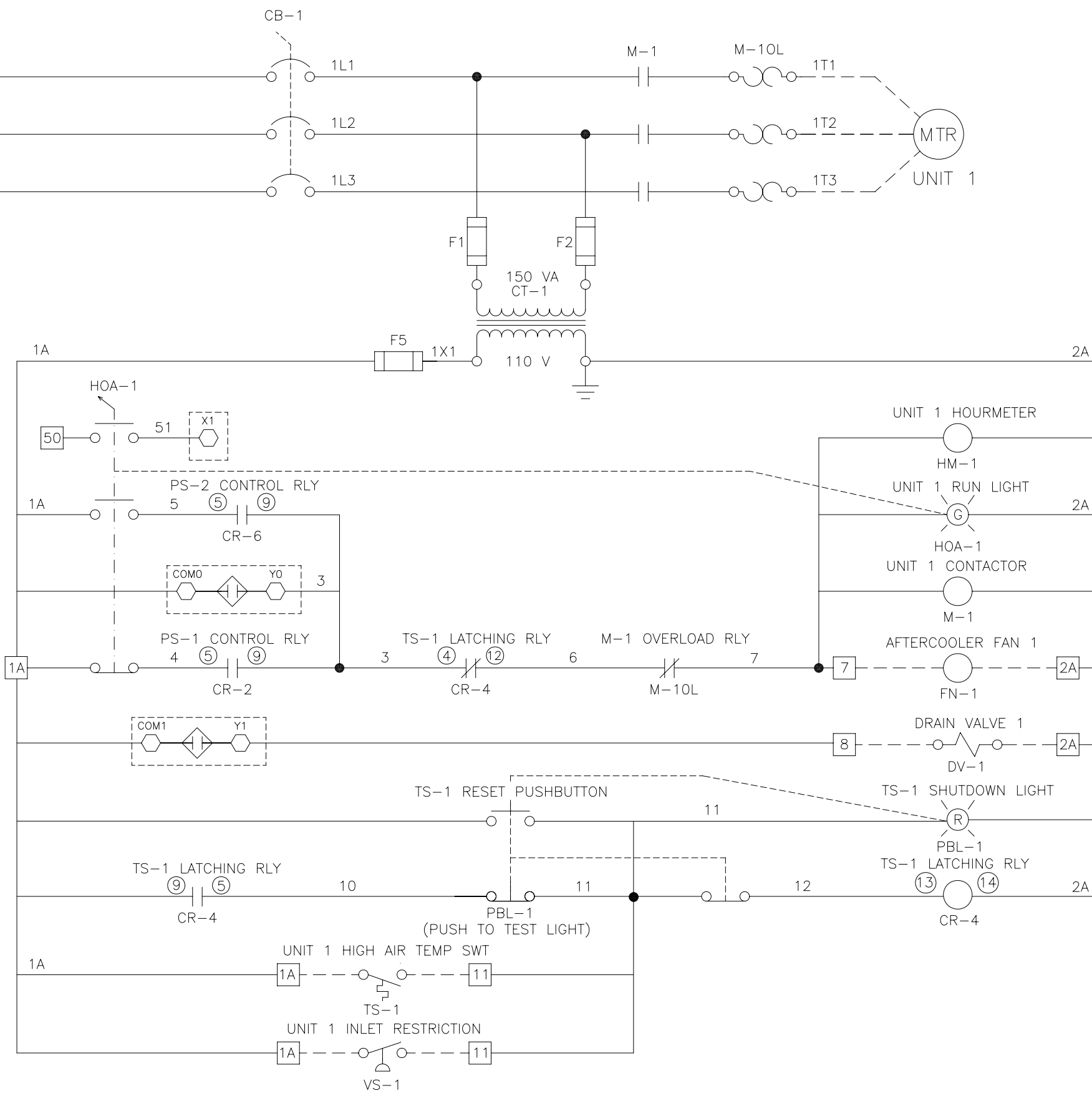
FIELD WIRING TO BE COPPER WIRE RATED FOR 75° C MINIMUM

----- INDICATES FIELD WIRING OUTSIDE OF BOX

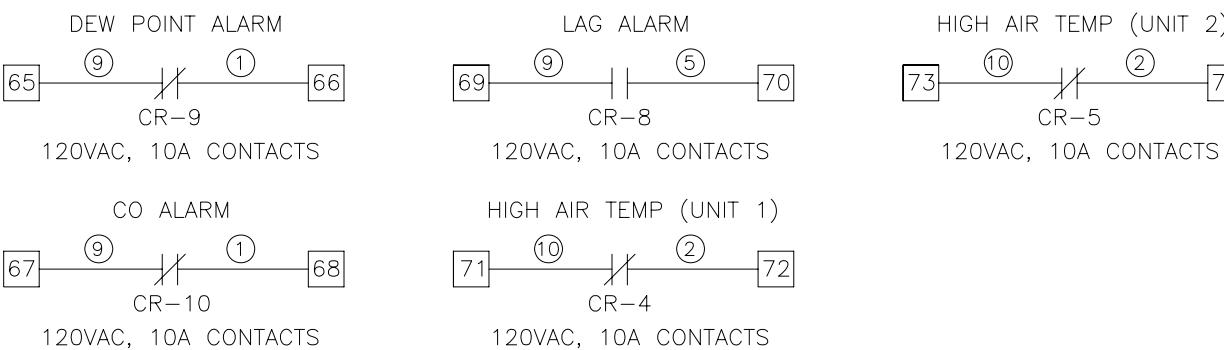


208-575V
3Ø
50/60 HZ
DB-1

MAIN DISCONNECT
PROVIDED BY OTHERS



AUXILIARY CONTACTS



(CR-8 CONTACTS OPEN WITH LAG ALARM)
(CONTACTS CLOSED W/O LAG ALARM)

NOTE:
AUXILIARY CONTACTS 65-74 ARE
"CLASS 1 CONTROL CIRCUITS,
USE CLASS 1 CONDUCTORS"

ALL OTHERS ARE
"CLASS 2 CONTROL CIRCUITS,
USE CLASS 2 CONDUCTORS"

FUSE SELECTION CHART (MAX FUSE SIZES SHOWN)

FUSE	208 V	230 V	380 V	460 V	575 V
F1/F2	2.0 AMPS	2.0 AMPS	1.25 AMPS	1 AMP	0.8 AMPS
F3/F4	2.0 AMPS	2.0 AMPS	1.25 AMPS	1 AMP	0.8 AMPS
F5/F6	2 AMPS	2 AMPS	2 AMPS	2 AMPS	2 AMPS
F7/F8	0.7 AMPS	0.7 AMPS	0.7 AMPS	0.7 AMPS	0.7 AMPS
F9	1.25 AMPS	1.25 AMPS	1.25 AMPS	1.25 AMPS	1.25 AMPS

F1/F2/F3/F4 ARE LITTLEFUSE KLDK 600V TYPE
F5/F6 ARE LITTLEFUSE FLM 250V TYPE
F7/F8/F9 ARE LITTLEFUSE 2AG 250V TYPE

INDIVIDUAL MOTOR FULL LOAD AMPERES

SYSTEM HP	208 V	230 V	380 V	460 V	575 V
2 HP	6.44 AMPS	5.60 AMPS	3.20 AMPS	2.80 AMPS	2.24 AMPS
3 HP	9.59 AMPS	8.34 AMPS	4.70 AMPS	4.17 AMPS	3.34 AMPS
5 HP	15.5 AMPS	13.5 AMPS	7.60 AMPS	6.76 AMPS	5.41 AMPS
7.5 HP	22.4 AMPS	19.5 AMPS	11.3 AMPS	9.79 AMPS	7.81 AMPS
10 HP	29.2 AMPS	25.4 AMPS	15.4 AMPS	12.7 AMPS	10.1 AMPS
15 HP	41.9 AMPS	36.4 AMPS	22.5 AMPS	18.2 AMPS	14.5 AMPS

DUPLEX SYSTEM FULL LOAD AMPERES

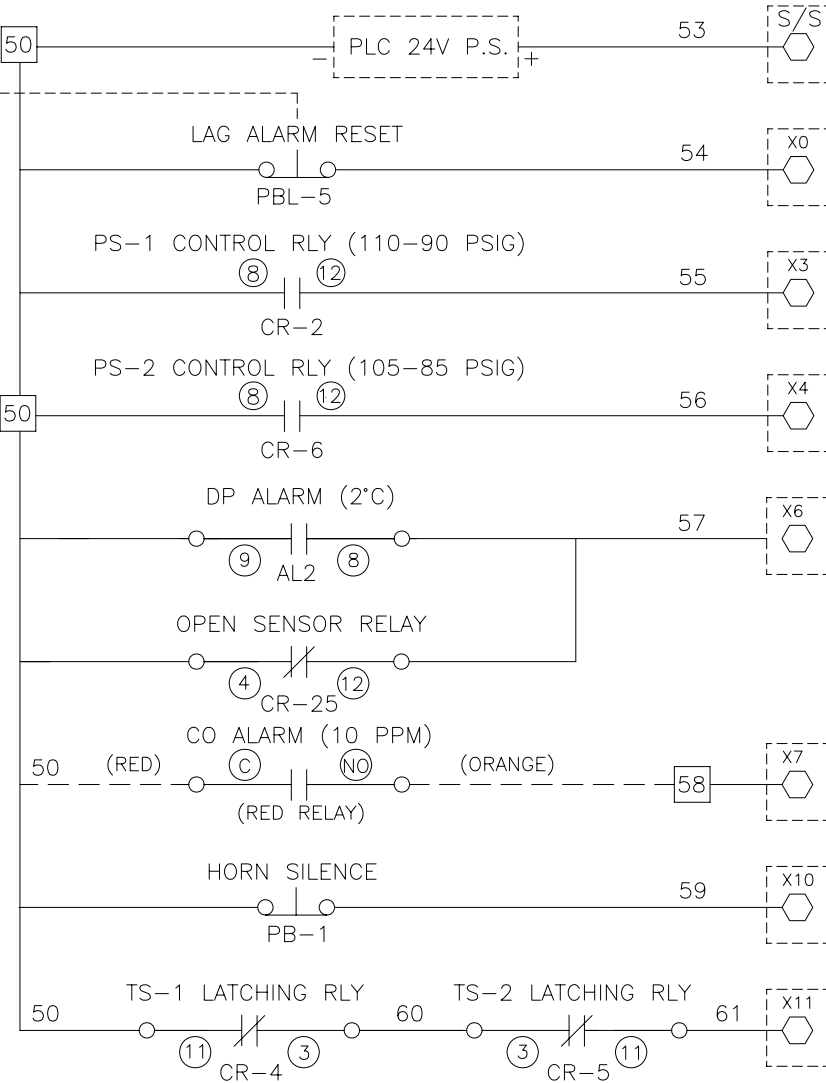
SYSTEM HP	208 V	230 V	380 V	460 V	575 V
2 HP	15 AMPS	13 AMPS	7 AMPS	7 AMPS	5 AMPS
3 HP	21 AMPS	18 AMPS	10 AMPS	9 AMPS	8 AMPS
5 HP	33 AMPS	29 AMPS	16 AMPS	15 AMPS	12 AMPS
7.5 HP	47 AMPS	41 AMPS	23 AMPS	21 AMPS	17 AMPS
10 HP	60 AMPS	52 AMPS	32 AMPS	26 AMPS	21 AMPS
15 HP	86 AMPS	74 AMPS	46 AMPS	37 AMPS	30 AMPS

AUTO OPERATION;

DURING NORMAL OPERATION ALL HOA SWITCHES SHOULD BE IN THE AUTO POSITION. THE PLC WILL SIGNAL THE LEAD COMPRESSOR TO START WHEN PS-1 CLOSSES AT 90 PSI. IF ONE PUMP CAN CARRY THE LOAD, THEN THE PRESSURE WILL RISE TO 110 PSI AND PS-1 WILL OPEN. AT THIS POINT THE PLC WILL TURN OFF THE LEAD COMPRESSOR. WHEN THE SYSTEM PRESSURE DROPS AGAIN AND PS-1 CLOSSES THE PLC WILL SEQUENCE THE LEAD ROLE TO THE OTHER COMPRESSOR AND IT WILL START. IF LEAD COMPRESSOR RUNS FOR MORE THAN 17 MINUTES AND CANNOT REACH THE PS-1 SETTING OF 110 PSI, THEN THE PLC WILL TURN OFF THE COMPRESSOR THAT IS RUNNING AND SEQUENCE TO THE OTHER COMPRESSOR. IF DURING OPERATION PS-2 CLOSSES AT 85 PSI THE LAG COMPRESSOR WILL START AND A LAG ALARM WILL OCCUR.

HAND OPERATION; (EMERGENCY/TROUBLE SHOOTING MODE ONLY)
WITH COMPRESSORS IN THE HAND POSITION UNIT 1 RUNS WHEN PS-1 CLOSSES AND STOPS WHEN PS-1 OPENS, UNIT 2 RUNS WHEN PS-2 CLOSSES AND STOPS WHEN PS-2 OPENS.

PLC FAULT; IF A PLC FAULT OCCURS, COMPRESSORS IN THE AUTO POSITION WILL START WHEN PS-2 CLOSSES AND STOP WHEN PS-2 OPENS, A LAG ALARM WILL ALSO OCCUR. IF PLC FAULT SHOULD OCCUR, TURN ONE COMPRESSOR TO THE HAND POSITION AND LEAVE ONE IN THE AUTO POSITION. COMPRESSORS WILL NOT SEQUENCE IN THIS CONDITION BUT WILL OPERATE IN A LEAD/LAG CONDITION. COMPRESSORS CAN OPERATE IN THIS CONDITION UNTIL PLC FAULT IS REPAIRED.



TITLE:
SCROLL DUPLEX 2-15 HP BASEMOUNT
CONTROLS (208/230/380/460/575 V)

DRAWN BY:
T. HORNBUCKLE
CHECKED BY:
J. GAMACHE
REVISED BY:
SCALE: NTS

DATE:
11/10/00
DATE:
04/21/09

This drawing and the information contained thereon remain the property of BeaconMedaes and may not be used for other than the purpose for which it is loaned without the expressed written permission from BeaconMedaes Engineering.

DRAWING NO.
DIA 02 700

REV.
S