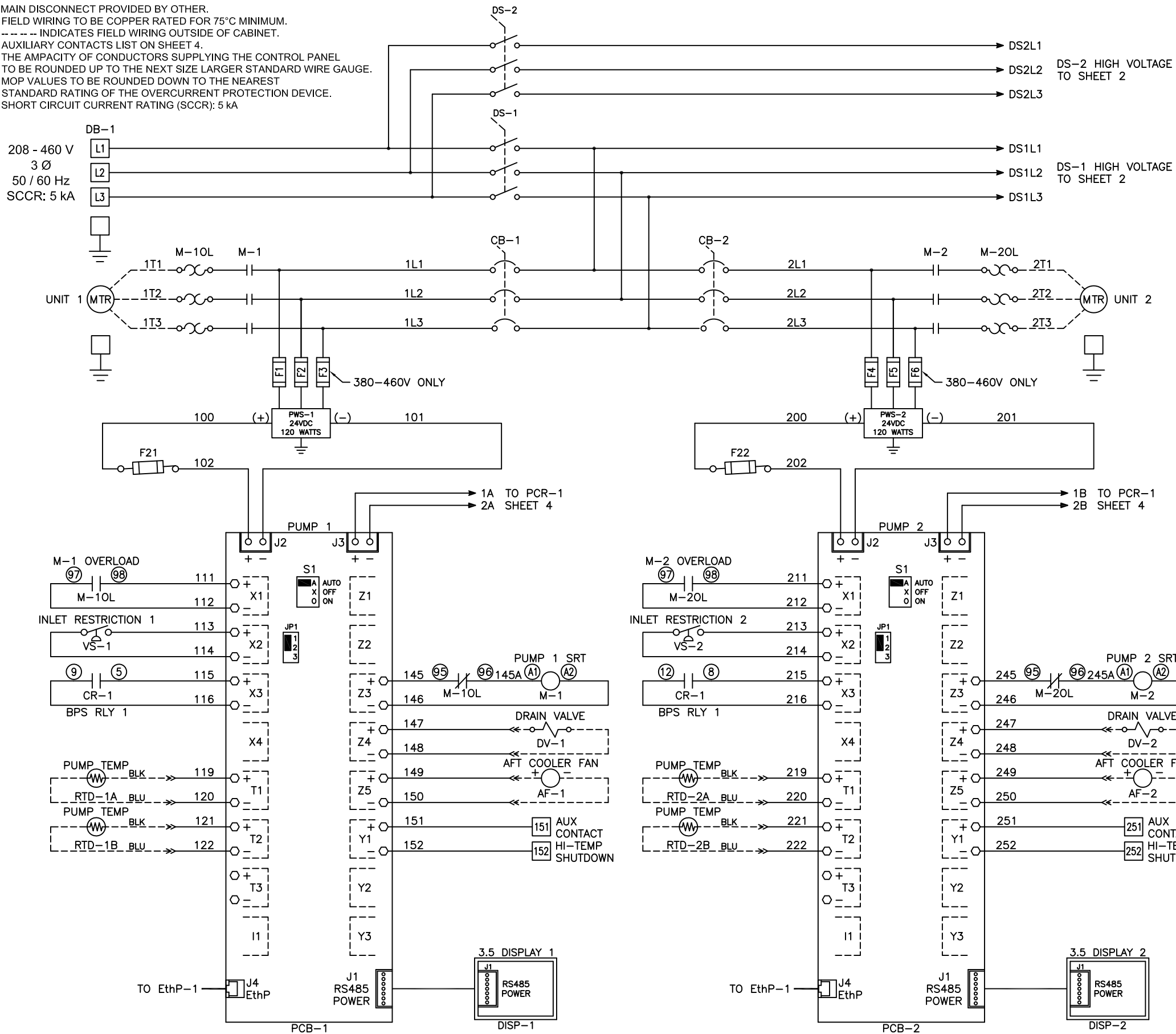


Notes:

1. MAIN DISCONNECT PROVIDED BY OTHER.
2. FIELD WIRING TO BE COPPER RATED FOR 75°C MINIMUM.
3. - - - - INDICATES FIELD WIRING OUTSIDE OF CABINET.
4. AUXILIARY CONTACTS LIST ON SHEET 4.
5. THE AMPACITY OF CONDUCTORS SUPPLYING THE CONTROL PANEL TO BE ROUNDED UP TO THE NEXT SIZE LARGER STANDARD WIRE GAUGE.
6. MOP VALUES TO BE ROUNDED DOWN TO THE NEAREST STANDARD RATING OF THE OVERCURRENT PROTECTION DEVICE.
7. SHORT CIRCUIT CURRENT RATING (SCCR): 5 kA



MINIMUM CIRCUIT AMPACITY (MCA)

| SYSTEM HP | 208 V | 230 V | 380/415 V | 460 V |
|-----------|------------|------------|------------|------------|
| 15 HP | 246.9 AMPS | 224.4 AMPS | 144.9 AMPS | 112.8 AMPS |

MAXIMUM OVERCURRENT PROTECTION (MOP)

| SYSTEM HP | 208 V | 230 V | 380/415 V | 460 V |
|-----------|------------|------------|------------|------------|
| 15 HP | 288.8 AMPS | 262.5 AMPS | 168.8 AMPS | 131.3 AMPS |

PENTAPLEX SYSTEM FULL LOAD AMPERES

| SYSTEM HP | 208 V | 230 V | 380V/50Hz | 415V/50Hz | 460 V |
|-----------|------------|------------|------------|------------|-----------|
| 15 HP | 183.5 AMPS | 178.2 AMPS | 105.0 AMPS | 101.5 AMPS | 89.6 AMPS |

INDIVIDUAL FULL LOAD AMPERES

| SYSTEM HP | 208 V | 230 V | 380V/50Hz | 415V/50Hz | 460 V |
|-----------|-----------|-----------|-----------|-----------|-----------|
| 15 HP | 36.0 AMPS | 35.0 AMPS | 20.5 AMPS | 19.8 AMPS | 17.5 AMPS |

FUSE SELECTION CHART (MAX FUSE SIZES SHOWN)

| FUSES | 208 V | 230 V | 380 V | 415 V | 460 V |
|---|----------|----------|----------|----------|----------|
| F1/F2/F4/F5 F7/F8/F10 F11/F13/F14 | 6.0 AMPS | 6.0 AMPS | 6.0 AMPS | 6.0 AMPS | 6.0 AMPS |
| F3/F6/F9 F12/F15 | --- | --- | 6.0 AMPS | 6.0 AMPS | 6.0 AMPS |
| F21-F25 | 4.0 AMPS | 4.0 AMPS | 4.0 AMPS | 4.0 AMPS | 4.0 AMPS |
| F31/F32 F33/F34 | 1.0 AMP | 1.0 AMP | 1.0 AMP | 1.0 AMP | 1.0 AMP |
| F35 | 0.5 AMP | 0.5 AMP | 0.5 AMP | 0.5 AMP | 0.5 AMP |

F1-F15 ARE LITTELFUSE KLDK 600V TYPE
F21-F25/F31-F35 ARE LITTELFUSE 2AG 250V TYPE

DEFAULT PUMP PSI SETTINGS

| PUMP SEQUENCE | PSI |
|---------------|-----|
| LEAD CUT-OFF | 110 |
| LAG CUT-ON | 85 |

BACKUP PRESSURE SWT SETTINGS

| BPS-1 CUT-OFF | PSI |
|---------------|-----|
| BPS-1 CUT-ON | 80 |

PUMP/DRYER PCB JUMPER/SWT SETTINGS

| JPR/SWT | POSITION |
|---------|----------|
| JP1 | 1-2 |
| S1 | A (AUTO) |

AUTO OPERATION:

DURING NORMAL OPERATION, THE MASTER PCB WILL SIGNAL THE LEAD COMPRESSOR TO START WHEN THE PRESSURE FALLS BELOW THE SET-POINT FOR THE LEAD PUMP. IF ONE PUMP CAN CARRY THE LOAD, THE PRESSURE WILL RISE TO 110 PSI. THE MASTER PCB WILL THEN SIGNAL THE PUMP PCB TO TURN OFF THE LEAD COMPRESSOR. WHEN THE SYSTEM PRESSURE DROPS AGAIN BELOW THE LEAD SET-POINT, THE MASTER PCB WILL SEQUENCE THE LEAD ROLE TO THE NEXT COMPRESSOR AND IT WILL START. IF ANY LEAD COMPRESSOR RUNS FOR MORE THAN 17 MINUTES AND CANNOT REACH 110 PSI, THE MASTER PCB WILL TURN OFF THE COMPRESSOR THAT IS RUNNING AND SEQUENCE TO THE NEXT COMPRESSOR. IF DURING OPERATION THE PRESSURE FALLS BELOW 85 PSI, THE LAG COMPRESSOR WILL START AND A LAG ALARM WILL OCCUR.

PUMP PCB S1 POSITION:

- POSITION (A) - AUTO (DEFAULT):** THE PUMP WILL OPERATE NORMALLY AS DESCRIBED ABOVE IN "AUTO OPERATION".
- POSITION (X) - OFF:** THE PUMP IS DISABLED FROM RUNNING.
- POSITION (O) - MANUAL:** THE PUMP WILL START AND STOP ON THE BACK UP PRESSURE SWITCH (BPS-1).

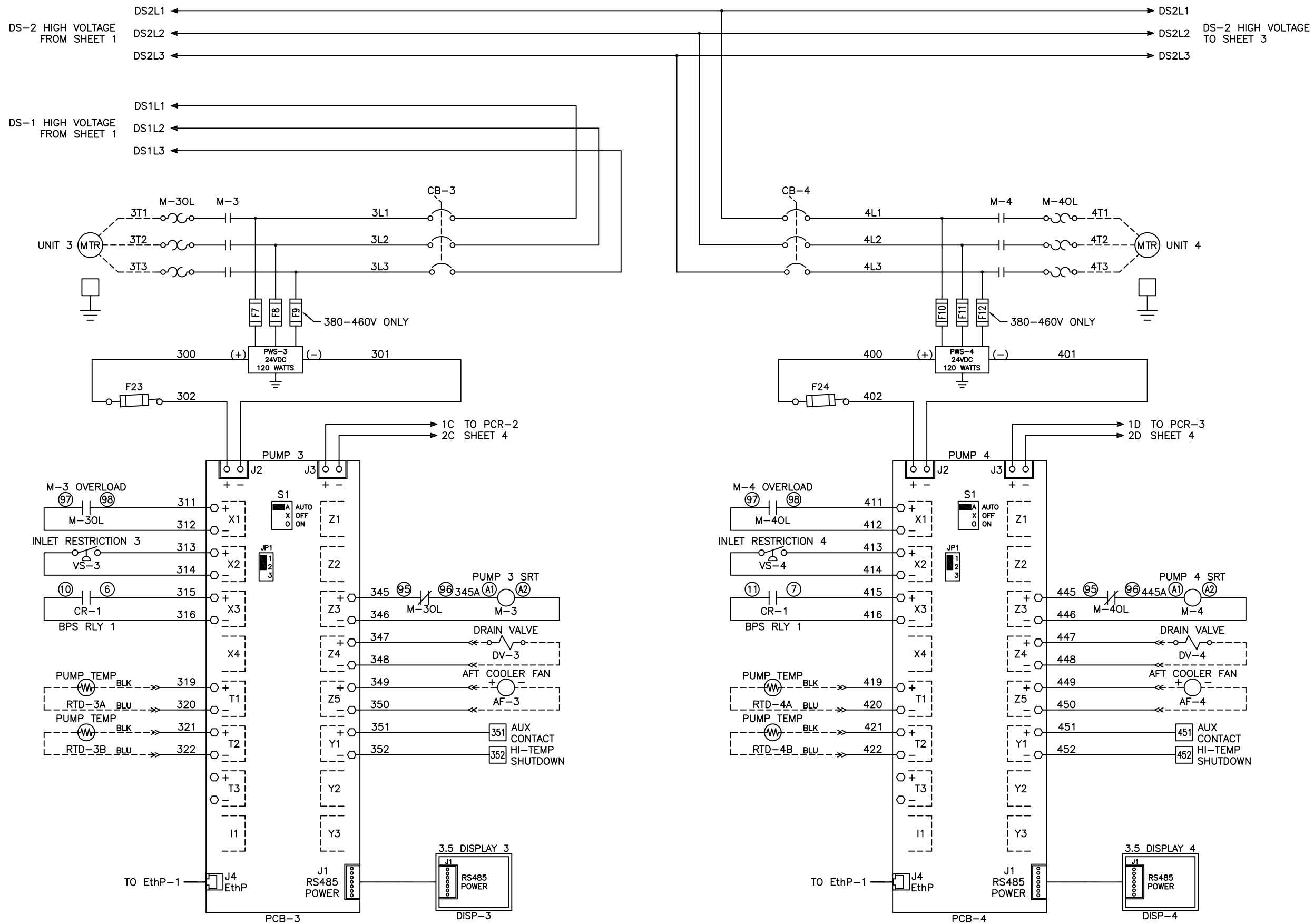
PCB FAULT:

IF A PUMP PCB ETHERNET FAULT OR A TRANSDUCER FAULT OCCURS, THE PUMP PCB WILL AUTOMATICALLY SWITCH TO MANUAL MODE. COMPRESSORS WILL START WHEN BPS-1 (BACKUP PRESSURE SWITCH) CLOSSES AND STOP WHEN IT OPENS. COMPRESSORS WILL NOT SEQUENCE IN THIS CONDITION AND CAN OPERATE UNTIL THE ETHERNET OR TRANSDUCER FAULT IS REPAIRED.

| | | | |
|--|----------------|---|----------------|
| Revised: MDB | Date: 12/16/15 | Drawn: JAH | Date: 01/24/11 |
| | | This drawing and the information contained herein remain the property of BeaconMedics and may not be used for other than the purpose for which it is loaned without the expressed written permission from BeaconMedics Engineering. | |
| Description: DWG WIRING CONTROL PX SCROLL 15HP 208-460/3/50-60 | | Part Number: 4107 8526 85 | |
| Sheet 1 of 4 | | Rev: HOP 151488 05 | Scale: NTS |

Notes:

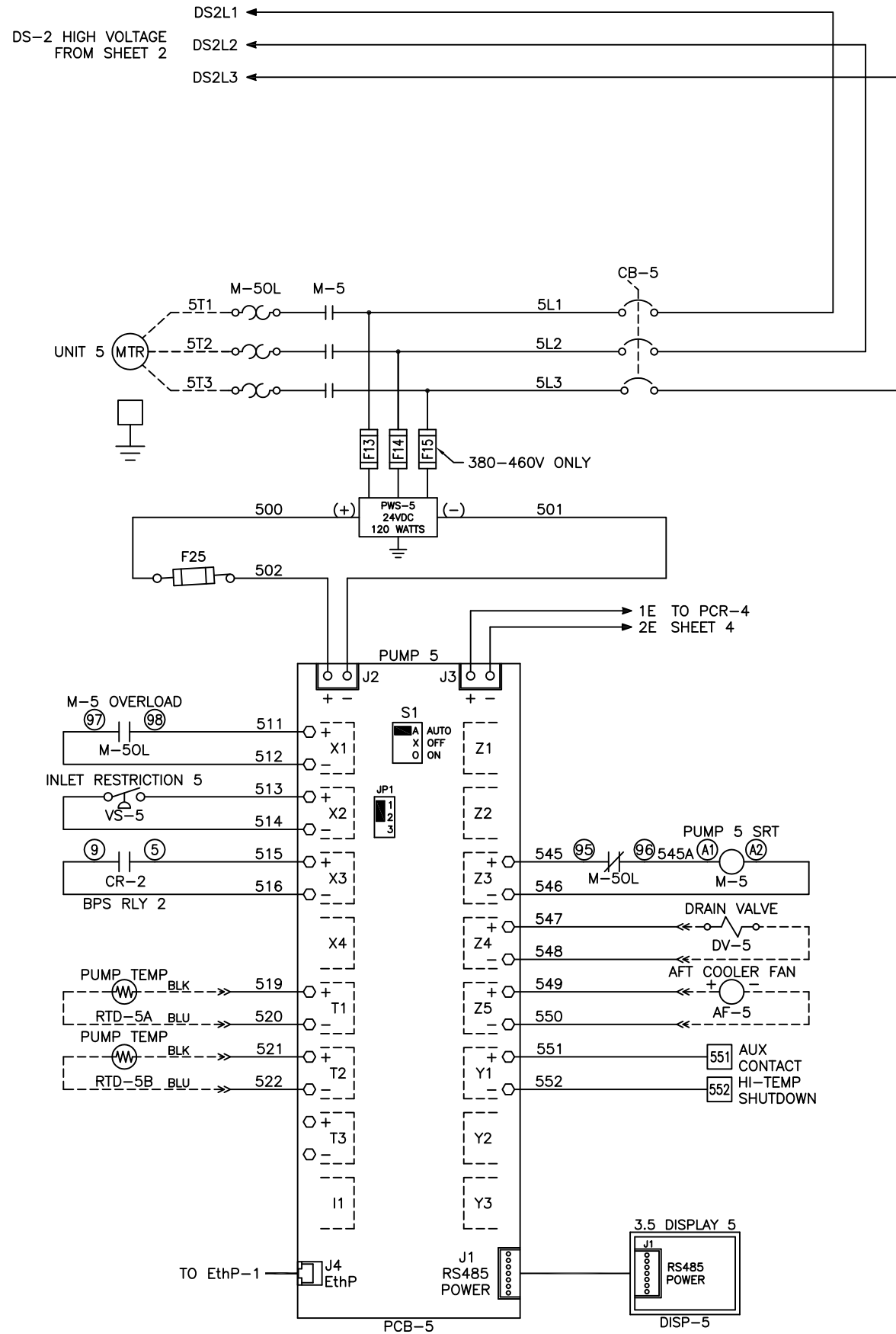
1. FIELD WIRING TO BE COPPER RATED FOR 75°C MINIMUM.



| | | | |
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| DN: HOP 151488 | | Rev: 05 | |
| Sheet 2 of 4 | | DO NOT SCALE THIS DOCUMENT | |

Notes:

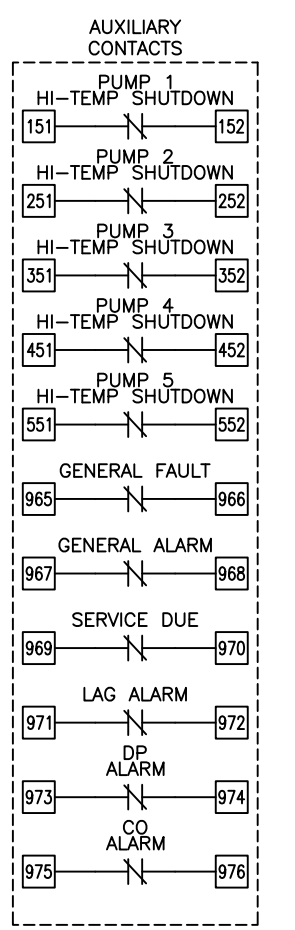
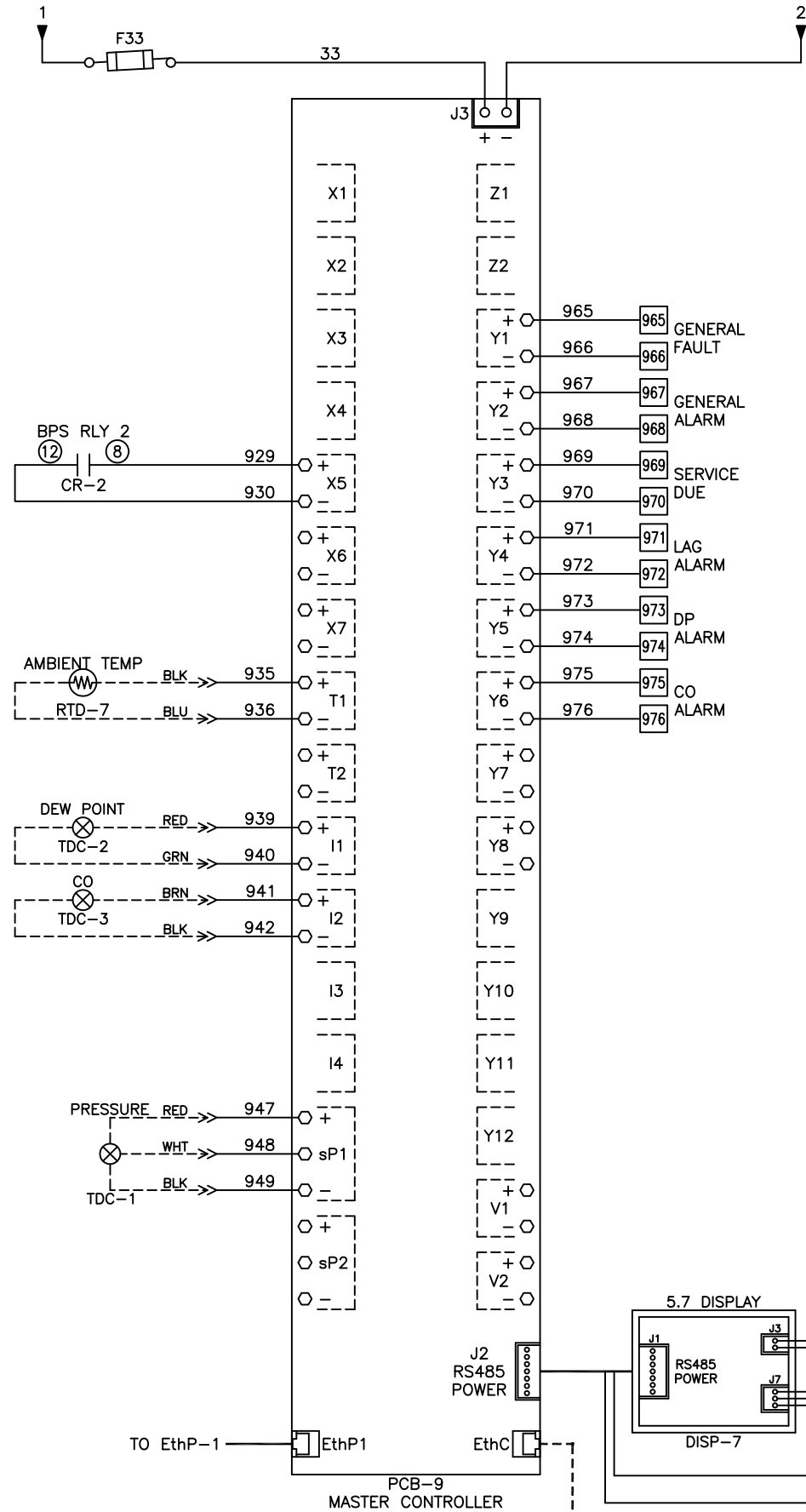
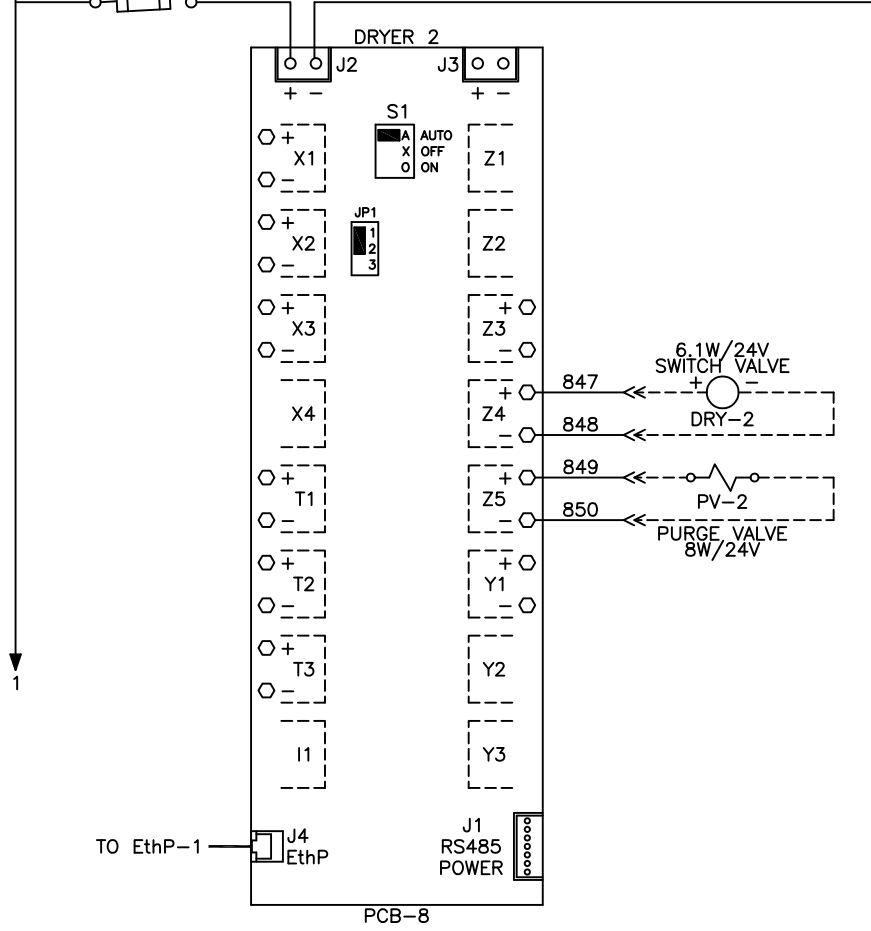
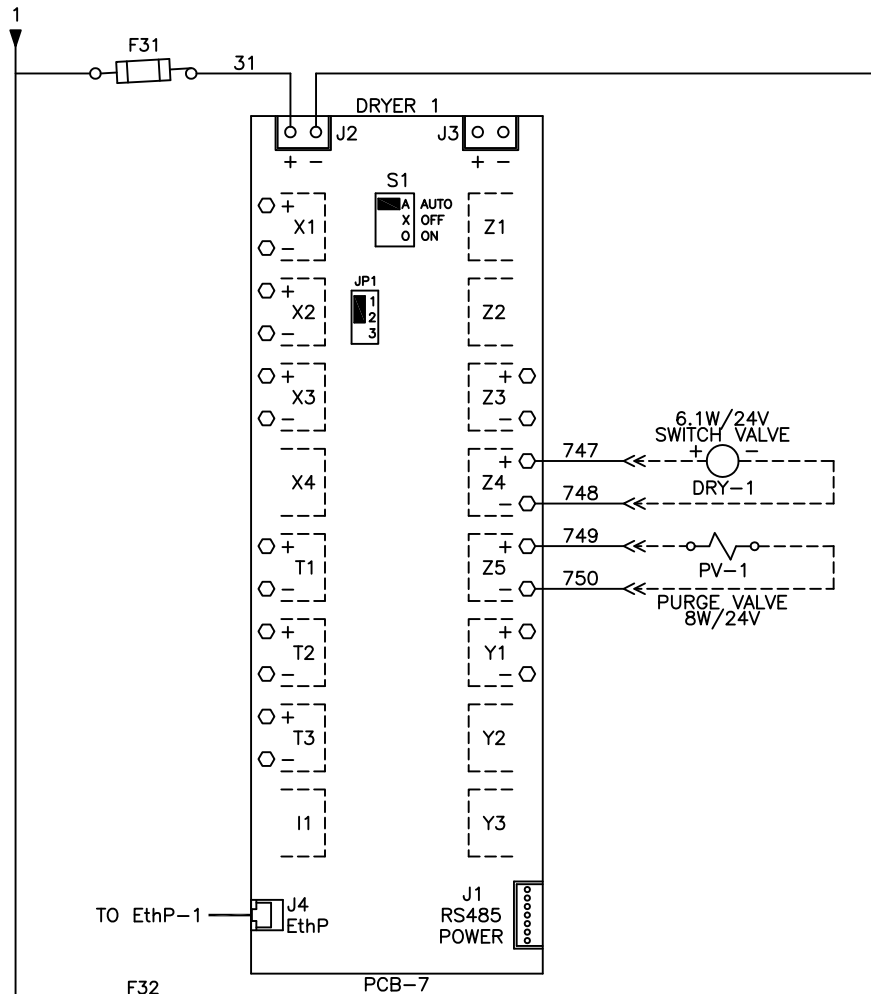
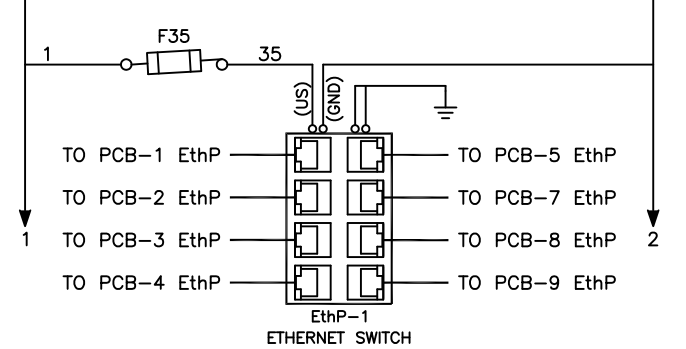
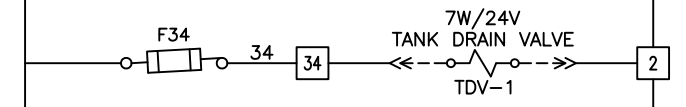
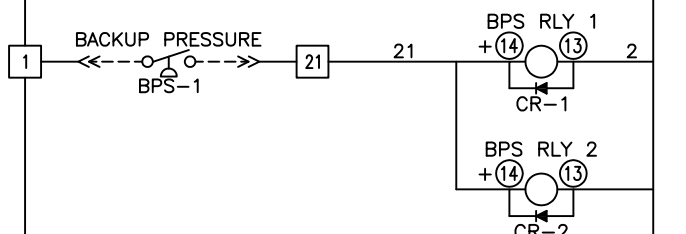
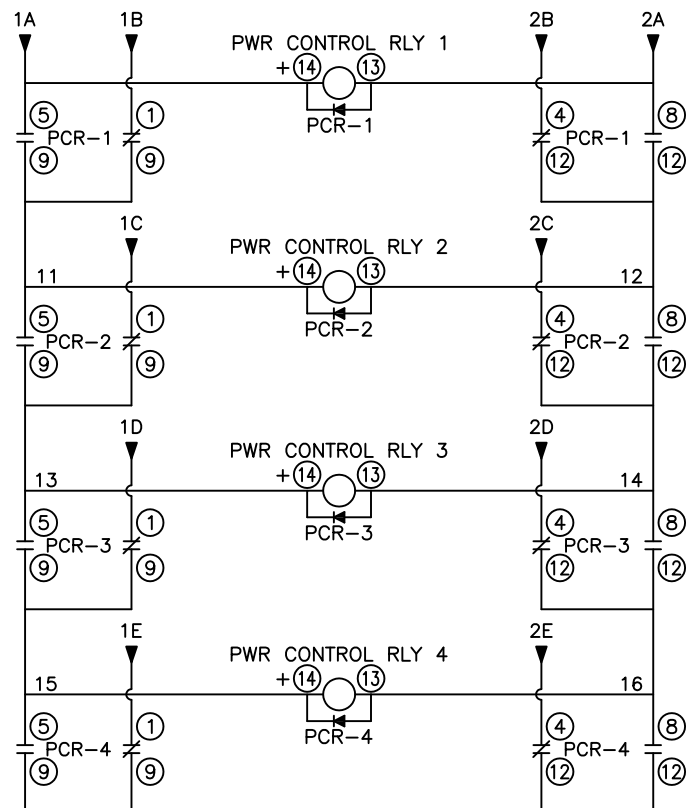
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| | | | |
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| DN: HOP 151488 | Rev: 05 | Scale: NTS | |
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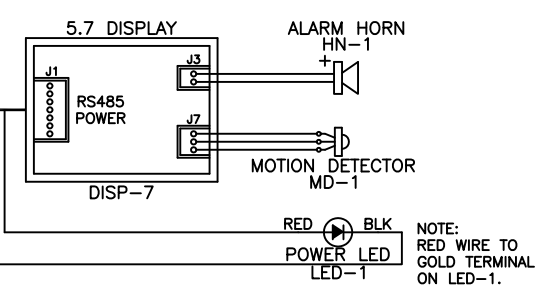
1. FIELD WIRING TO BE COPPER RATED FOR 75°C MINIMUM.



NOTE:
AUXILIARY CONTACTS 151-152, 251-252, 351-352, 451-452, 551-552, & 965-976 ARE "CLASS 1 CONTROL CIRCUITS. USE CLASS 1 CONDUCTORS."

AUX CONTACTS ARE RATED 0.7Adc/0.7Arms @ 24V MAX. UNLESS OTHERWISE NOTED.

AUX CONTACTS CLOSED DURING NORMAL OPERATION.



| | | | |
|--|----------------|----------------------------|----------------|
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| | | Scale: NTS | |
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| Sheet 4 of 4 | | DO NOT SCALE THIS DOCUMENT | |