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GENERAL NOTES:

- UNLESS OTHERWISE NOTED, ALL SWITCHES ARE SHOWN AT 25C (77F), AT ATMOSPHERIC PRESSURE, AT 50% RELATIVE HUMIDITY, WITH ALL POWER REMOVED, AND AFTER A NORMAL SHUTDOWN HAS OCCURRED.
- WIRES REPRESENTED BY DASHED LINES INDICATE RECOMMENDED FIELD WIRING BY OTHERS. WIRES REPRESENTED BY SOLID LINES INDICATE FACTORY INSTALLED WIRING.
- DASHED LINE ENCLOSURES AND/OR DASHED DEVICE OUTLINES INDICATE OPTIONAL COMPONENTS/WIRING.
- NUMBERS ALONG THE RIGHT SIDE OF THE SCHEMATIC DESIGNATE THE LOCATION OF COMPONENT CONTACTS BY LINE NUMBER. AN UNDERLINED NUMBER INDICATES A NORMALLY CLOSED CONTACT.
- ALL FIELD WIRING MUST BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC), STATE, AND LOCAL CODES.
- CLASS 1 FIELD WIRING INSULATION RATING IS REQUIRED TO BE EQUAL TO OR GREATER THAN THE EQUIPMENT SUPPLY VOLTAGE RATING. CLASS 2 FIELD WIRING INSULATION IS REQUIRED TO BE RATED AT 300 V MINIMUM.

FLAG NOTES:

- ALL UNIT POWER WIRING MUST BE COPPER CONDUCTORS ONLY, HAVE A MINIMUM INSULATION TEMPERATURE RATING OF 90 C AND BE SELECTED AT 75 C RATINGS.
- TERMINAL BLOCK 1X1 IS PROVIDED AS STANDARD ON ALL UNITS PNCO=TERM. CIRCUIT BREAKER 1Q1 PNCO=CB, CBH IS AVAILABLE AS AN OPTION. THE TERMINAL BLOCK IS REPLACED WITH A CIRCUIT BREAKER WHEN THIS OPTION IS SELECTED.
- ELECTRONIC PROTECTION MODULES ARE USED FOR 20-30 TON COMPRESSORS ONLY. FOR 10-15TON COMPRESSOR CONTROL CIRCUIT, TERMINALS 1X4-16, 20 ARE JUMPED BY W4, TERMINALS 1X4-16, 19 ARE JUMPED BY W5, TERMINALS 1X4-15, 18 ARE JUMPED BY W6, TERMINALS 1X4-15, 17 ARE JUMPED BY W7 IN SLANT AND V CONFIGURATION. (NTON= 20, 26, 30, 35, 40, 52, 60 OR 70).
- REFER TO THE FAN CHART FOR VALID FAN CONFIGURATIONS.
- TRANSFORMERS FOR 575V UNITS ONLY. (VOLT=575) AND (UAPP=EXTC or WIDC).
- PUMP PACKAGE:
  - AT LEAST ONE PUMP IS ALWAYS PRESENT AND IS EITHER FIELD OR FACTORY SUPPLIED.
  - WHEN PUMPS ARE FACTORY SUPPLIED, THEY WILL BE DUAL PUMPS.
- OPTIONAL DUAL FACTORY SUPPLIED EVAP WATER PUMPS. THE WIRING SHOWN IS FOR THE VSD OF PUMP PACKAGE. (PTYP=DHHP).
- OPTIONAL DUAL CUSTOMER SUPPLIED EVAP WATER PUMP(S). 6M2 WIRING IS PRESENT FOR DUAL PUMP CONFIGURATION ONLY.
 

PUMP CONTROL CONFIGURATION SHOWS WIRING WITH CONTACTORS AND OVERLOAD RELAYS. PUMP(S) CAN ALSO BE POWERED BY CUSTOMER CONTROLLED VSD(S).

PUMP STARTER FAULT SIGNAL(S) TO BE FIELD WIRED TO 1A12 (INSET "V").
- CUSTOMER SUPPLIED PUMP RUN SIGNAL TO BE FIELD WIRED TO 1A9.
- WIRING FOR 200V/230V UNIT SHOWN. SEE INSET "B" FOR CONTROL POWER TRANSFORMER WIRING OF OTHER VOLTAGES.
- CONTACT CLOSURE ENABLES ICE MAKING WHEN ICE MAKING OPTION IS ORDERED. (EVLT=ICE).
- CLASS 1 FIELD WIRED MODULE.
- RELAY AT 120VAC: 7.2 AMPS RESISTIVE, 2.88 AMPS PILOT DUTY, 1/3 HP 7.2 FLA; AT 240VAC: 5 AMPS GENERAL PURPOSE.
- FIELD ASSIGNED PROGRAMMABLE RELAYS. (STAT=PRLY).
- CUSTOMER SUPPLIED POWER, 120V.
- ONLY USED WHEN THE PUMP PACKAGE OPTION IS ORDERED. (PTYP=DHHP).
- ONLY USED WHEN THE BUFFER TANK OPTION IS ORDERED. (BTNK=BTNK).
- THE CONTACTS FOR AUTO STOP AND EMERGENCY STOP SWITCHES ARE JUMPERED AT THE FACTORY BY JUMPERS W2 & W3 TO ENABLE UNIT OPERATION. IF REMOTE CONTROL IS DESIRED, REMOVE THE JUMPERS AND CONNECT TO THE DESIRED CONTROL CIRCUIT.
- PHASE PROTECTION RELAY USED ONLY FOR CIRCUIT(S) WITH 10 TON, 13 TON AND 15 TON COMPRESSORS (NTON = 20, 26, 30, 35, 40, 52, 60 OR 70).
- NOT PRESENT WHEN BOTH OF THE COMPRESSORS ARE 10 TON, 13 TON AND 15 TON COMPRESSORS (NTON = 20, 26, 30, 35, 40, 52, 60 OR 70).
- GROUND SCREW IN MAIN CONTROL PANEL.
- INSIDE THE PUMP VSD ENCLOSURE, MOUNTED ON UNIT FRAME WITH (PTYP=DHHP).
- ONLY USED WHEN PARTIAL HEAT RECOVERY (CDHR = PRTF) OPTION IS ORDERED.
- COMPRESSOR HEATER WIRE COLOR IS DETERMINED BY VOLTAGE IN THE CHART.
- PRESENT ON "V" FRAME UNITS (NTON = 40, 52, 60 or 70).
- DISCHARGE REFRIGERANT TEMPERATURE SENSOR IS PRESENT FOR ALL THE FOLLOWING OPTIONS:
  - UNITS WITH ICEMAKING OPTION (EVLT = ICE), UNITS WITH LOW TEMPERATURE PROCESS COOLING (EVLT = PROC), UNITS WITH PHR FAN CONTROL OPTION (CDHR = PRTF).
- REFER TO FIELD WIRING DIAGRAM FOR SUGGESTED WIRING.
- JUMPERS W9, W10 AND W11 ARE INSTALLED BY THE FACTORY ON UNITS ORDERED WITH FIELD PROVIDED PUMPS (PTYP = NONE). JUMPERS W9, W10 AND W11 ARE TO BE REMOVED WHEN PUMPS AND CONTROL ARE INSTALLED.
- VENTILATION FAN PRESENT WHEN LINE (VOLT = 200, 230, 380).
- THERMOSTATS ARE REQUIRED IN THE COMPRESSOR JUNCTION BOXES ON ALL UNITS WITH COMMERCIAL COMPRESSORS AND SOUND WRAPS TO PREVENT THE PROTECTION MODUAL FROM GETTING TOO HOT. (NTON=70) (HRTZ = 60 AND SATT = LNUN OR HRTZ = 50 AND SATT = STDN).
- WIRING FOR 5M1 AND 5M2 WIRING IS BASED ON MOTOR HORSEPOWER AND VOLTAGE. USE DIAGRAMS FOR NOTE 38 ON PAGE 9 FOR WIRING.
- PRESENT ON UNITS (NTON=20, 26, 30, 35) AND (PTYP=DHHP).
- PRESENT ON UNITS (NTON=20, 26, 30, 35) AND (PTYP=NONE).
- TWO SPEED FAN 1 PRESENT WHEN:
  - HIGH AMBIENT UNIT WITH THREE FANS PER CIRCUIT, (NTON= 060 OR 070) AND (UAPP=HATC AND VOLT =200, 230, 460).
- VSD AND ASSOCIATED CONTROL CIRCUITS ON FAN 1 PRESENT WHEN:
  - LOW AMBIENT, AND WIDE AMBIENT UNITS. UNITS WITH PHR FAN CONTROL OPTION, 2 FAN HIGH AMBIENT AND 3 FAN 380/575V HIGH AMBIENT.
- CONVENIENCE OUTLET ASSEMBLY. POWER FOR THE OPTIONAL CONVENIENCE OUTLET IS SUPPLIED BY A CUSTOMER PROVIDED POWER SUPPLY, MAX FUSE SIZE IS 20 AMPS FOR THE OPTIONAL CONVENIENCE OUTLET.
- ONLY USED WHEN THE ENERGY METER OPTION IS ORDERED (PNCO=CBE, CBHE). 1T5, 1T6, AND 1T7 ARE WIRED TO 1A45 AND ARE LOOSE FOR FIELD INSTALLATION.
 

INSTALLING CONTRACTOR TO LOOP EACH CURRENT TRANSFORMER AROUND INCOMING WIRING IN ACCORDANCE WITH VERIS MODEL #E23C6-12 INSTALLATION INSTRUCTIONS.

BE MINDFUL OF PHASING AND THE DIRECTION THE ARROWS ARE POINTING ON THE CURRENT TRANSFORMERS

| WATER PUMP CONTROLS CLASS CC |                      |            |        |
|------------------------------|----------------------|------------|--------|
| DESIGNATION                  | NTON                 | VOLTAGE    | RATING |
| 1F32-34                      | 20T, 26T<br>30T, 35T | 200V, 230V | 30A    |
|                              |                      | 380V       | N/A    |
|                              |                      | 460V, 575V | 25A    |

| CONDENSERS FANS CLASS CC |            |        |
|--------------------------|------------|--------|
| DESIGNATION              | VOLTAGE    | RATING |
| 1F14-16                  | 200V, 230V | 30A    |
|                          | 380V, 460V | 30A    |
|                          | 575V       | 6A     |
| 1F38-1F40                | 200V, 230V | 30A    |
|                          | 380V, 460V | 30A    |
|                          | 575V       | 30A    |

| CONTROL TRANSFORMERS CLASS CC      |                  |        |
|------------------------------------|------------------|--------|
| DESIGNATION                        | VOLTAGE          | RATING |
| 1F5,6                              | 200V, 230V       | 10A    |
|                                    | 380V, 460V, 575V | 5A     |
| 1F11                               | 200V, 230V       | 10A    |
|                                    | 380V, 460V, 575V | 10A    |
| CRANKCASE HEATER CONTROLS CLASS CC |                  |        |
| 1F1,2                              | 200V, 230V       | 10A    |
|                                    | 380V, 460V, 575V | 10A    |
| PHASE PROTECTION CLASS CC          |                  |        |
| 1F7                                | 200V, 230V       | 10A    |
|                                    | 380V, 460V, 575V | 5A     |

⚠️WARNING

HAZARDOUS VOLTAGE!

DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS AND FOLLOW LOCK OUT AND TAG PROCEDURES BEFORE SERVICING. ENSURE THAT ALL MOTOR CAPACITORS HAVE DISCHARGED STORED VOLTAGE. UNITS WITH VARIABLE SPEED DRIVE, REFER TO DRIVE INSTRUCTIONS FOR CAPACITOR DISCHARGE. FAILURE TO DO THE ABOVE COULD RESULT IN DEATH OR SERIOUS INJURY.

⚠️AVERTISSEMENT

TENSION DANGEREUSE!

COUPER TOUTES LES TENSIONS ET OUVRIR LES SECTIONNEURS LES PROC

V  
DES MOTEURS SONT D  
D'UNIT

INSTRUCTIONS DE L'ENTRA  
D

UN MANQUEMENT  
CI-DESSUS PEUT ENTRA  
BLESSURES GRAVES, VOIRE LA MORT.

⚠️ADVERTENCIA

¡VOLTAJE PELIGROSO!

DESCONECTE TODA LA ENERG INCLUSO LAS DESCONEXIONES REMOTAS Y SIGA LOS PROCEDIMIENTOS DE CIERRE Y ETIQUETADO ANTES DE PROCEDER AL SERVICIO. ASEG DE QUE TODOS LOS CAPACITORES DEL MOTOR HAYAN DESCARGADO EL VOLTAJE ALMACENADO. PARA LAS UNIDADES CON TRANSMISI DE VELOCIDAD VARIABLE, CONSULTE LAS INSTRUCCIONES PARA LA DESCARGA DEL CONDENSADOR. NO REALIZAR LO ANTEDICHO PUEDE PROVOCAR LA MUERTE O LESIONES GRAVES.

NOTICE

USE COPPER CONDUCTORS ONLY! FAILURE TO USE COPPER CONDUCTORS COULD RESULT IN EQUIPMENT DAMAGE AS THE EQUIPMENT WAS NOT DESIGNED OR QUALIFIED TO ACCEPT OTHER TYPES OF CONDUCTORS.

AVIS

N'UTILISER QUE DES CONDUCTEURS EN CUIVRE! L'UTILISATION DE MAT AUTRES QUE LE CUIVRE, PEUT ENDOMMAGER L' CELUI-CI N'AYANT PAS HOMOLOGU TYPES DE CONDUCTEURS.

AVISO

SI NO UTILIZA CONDUCTORES DE COBRE, EL EQUIPO PODR YA QUE NO HA SIDO DISE PARA ACEPTAR OTROS TIPOS DE CONDUCTORES.

DRAWN BY: JESSICA YUAN

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MASTER FILE:

REVISION DATE:

REPLACES:

SIMILAR TO:

USED BY:



TRANE®

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CAD: CREO SCHEMATICS

DIAGRAM  
SCHEMATIC WIRING

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SLANT FRAME  
CGAM REFRESH

23116150

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REV

B

DEVICES, DESCRIPTIONS AND DESIGNATIONS

| DEVICE | DESCRIPTION                                                             | ZONE |
|--------|-------------------------------------------------------------------------|------|
| 1A1    | ADAPTIVIEW TOUCH SCREEN DISPLAY                                         | 949  |
| 1A2    | SYMBIO 800 UNIT CONTROLLER                                              | 932  |
| 1A4    | DUAL RELAY OUTPUT; COMPRESSOR MOTOR CONTROL                             | 555  |
| 1A5    | DUAL HIGH VOLTAGE BINARY INPUT; HIGH PRESSURE CUTOUT                    | 538  |
| 1A7    | DUAL HIGH VOLTAGE BINARY INPUT; COMPRESSOR FAULT, 1A & 1B               | 584  |
| 1A9    | DUAL RELAY OUTPUT; CHILLED WATER PUMP CONTROL                           | 873  |
| 1A12   | DUAL LOW VOLTAGE BINARY INPUT; CHILLED WATER PUMP FAULT                 | 859  |
| 1A13   | DUAL LOW VOLTAGE BINARY INPUT; EXTERNAL EMERGENCY STOP/AUTO STOP        | 828  |
| 1A14   | DUAL ANALOG INPUT/OUTPUT; EXTERNAL CHILLER WATER SETPOINT DEMAND &LIMIT | 838  |
| 1A16   | DUAL LOW VOLTAGE BINARY INPUT; ICE MAKING CONTROL                       | 852  |
| 1A17   | DUAL LOW VOLTAGE BINARY INPUT; CHILLED WATER FLOW AND INTERLOCKS        | 829  |
| 1A18   | QUAD RELAY OUTPUT; UNIT OPERATING STATUS                                | 872  |
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| 1A25   | DUAL ANALOG INPUT/OUTPUT; PUMP VSD FREQUENCY AND % CAPACITY             | 845  |
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| 1F6    | FUSE, CONTROL POWER TRANSFORMER, PRIMARY                                | 20   |
| 1F7    | FUSE, PHASE PROTECTION RELAY                                            | 21   |
| 1F11   | FUSE, CONTROL POWER TRANSFORMER, SECONDARY, 115V                        | 29   |
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| DEVICE | DESCRIPTION                                                       | ZONE |
|--------|-------------------------------------------------------------------|------|
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| 5X2-1  | TERMINAL BLOCK, PUMP PACKAGE HEATERS                              | 1021 |
| 5X3-1  | TERMINAL BLOCK, BUFFER TANK HEATERS                               | 1039 |
| 5X4-1  | TERMINAL BLOCK, PUMP VSD AUXILIARY PANEL HEATER                   | 524  |
| 5X5-1  | TERMINAL BLOCK,PHR HEATER                                         | 1007 |
| 5X6-1  | TERMINAL BLOCK,PHR CONTROL WIRING 115VAC                          | 1061 |
| 5X7-1  | TERMINAL BLOCK,PHR CONTROL WIRING 24VAC                           | 1078 |
| 6F1    | RELAY, CUSTOMER PROVIDED, OVERLOAD PROTECTION, CHILLED WATER PUMP | 465  |
| 6F2    | RELAY, CUSTOMER PROVIDED, OVERLOAD PROTECTION, CHILLED WATER PUMP | 470  |
| 6K1    | RELAY, CUSTOMER PROVIDED, CHILLED WATER PUMP 1                    | 459  |
| 6K2    | RELAY, CUSTOMER PROVIDED, CHILLED WATER PUMP 2                    | 462  |
| 6K4    | RELAY, EXTERNAL INPUT, AUTO/STOP                                  | 828  |
| 6K5    | RELAY, EXTERNAL INPUT, EMERGENCY STOP                             | 830  |
| 6K6    | RELAY, EXTERNAL INPUT, ENABLE ICE MAKING                          | 852  |
| 6K7    | RELAY, EXTERNAL INPUT, ENABLE PHR                                 | 854  |
| 6K8    | RELAY, ALARM STATUS, (PROGRAMMABLE)                               | 882  |
| 6K9    | RELAY, ALARM STATUS, (PROGRAMMABLE)                               | 881  |
| 6K10   | RELAY, COMPRESSOR RUNNING STATUS (PROGRAMMABLE)                   | 879  |
| 6K11   | RELAY, CUSTOMER PROVIDED, UNIT STATUS, (PROGRAMMABLE)             | 878  |
| 6K12   | RELAY, MAXIMUM CAPACITY STATUS (PROGRAMMABLE)                     | 876  |
| 6K13   | RELAY, MAXIMUM CAPACITY STATUS (PROGRAMMABLE)                     | 875  |
| 6K14   | RELAY, UNIT LIMIT MODE STATUS (PROGRAMMABLE)                      | 873  |
| 6K15   | RELAY, UNIT LIMIT MODE STATUS (PROGRAMMABLE)                      | 872  |
| 6K20   | BUILDING AUTOMATION; OPTIONAL WI-FI INTERFACE                     | 945  |
| 6K21   | BUILDING AUTOMATION; OPTIONAL LTE INTERFACE                       | 945  |
| 6M1    | MOTOR, CUSTOMER PROVIDED, CHILLED WATER PUMP 1                    | 465  |
| 6M2    | MOTOR, CUSTOMER PROVIDED, CHILLED WATER PUMP 2                    | 470  |
| 6O1    | FUSED DISCONNECT CUSTOMER SUPPLIED 3 PHASE, POWER SUPPLY          | 2    |
| 6O3    | FUSED DISCONNECT CUSTOMER SUPPLIED 3 PHASE, CHILLED WATER PUMP    | 465  |
| 6O4    | FUSED DISCONNECT CUSTOMER SUPPLIED 3 PHASE, CHILLED WATER PUMP    | 470  |
| 6O5    | FUSED DISCONNECT CUSTOMER SUPPLIED 2 PHASE, CHILLED WATER PUMP    | 458  |
| 6O6    | FUSED DISCONNECT CUSTOMER SUPPLIED 1 PHASE, CONTROL POWER SUPPLY  | 869  |
| 6Y1    | BUILDING AUTOMATION; OPTIONAL AIR-FI INTERFACE                    | 923  |

| DEVICE PREFIX LOCATION CODE |                            |
|-----------------------------|----------------------------|
| AREA                        | LOCATION                   |
| 1                           | MAIN PANEL/AUXILIARY PANEL |
| 2                           | NOT USED                   |
| 3                           | REFERIGERATION CIRCUIT 1   |
| 4                           | REFERIGERATION CIRCUIT 2   |
| 5                           | UNIT MOUNTED               |
| 6                           | CUSTOMER PROVIDED          |

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REVISION DATE:

REPLACES:

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DIAGRAM  
SCHEMATIC WIRING

LEGEND AND DEVICE LOCATION CODE

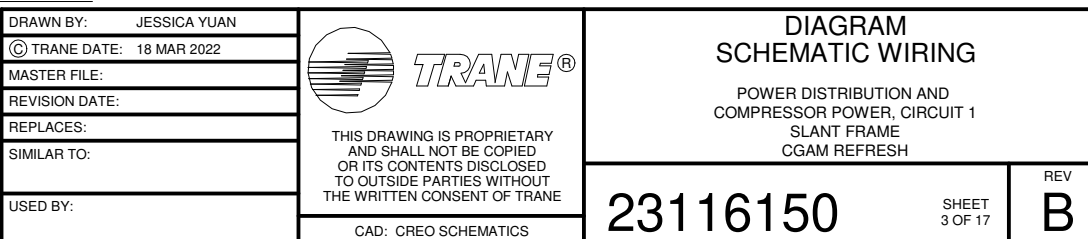
SLANT FRAME  
CGAM REFRESH

23116150

SHEET  
2 OF 17

REV  
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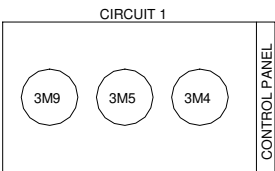
CAD: CREO SCHEMATICS



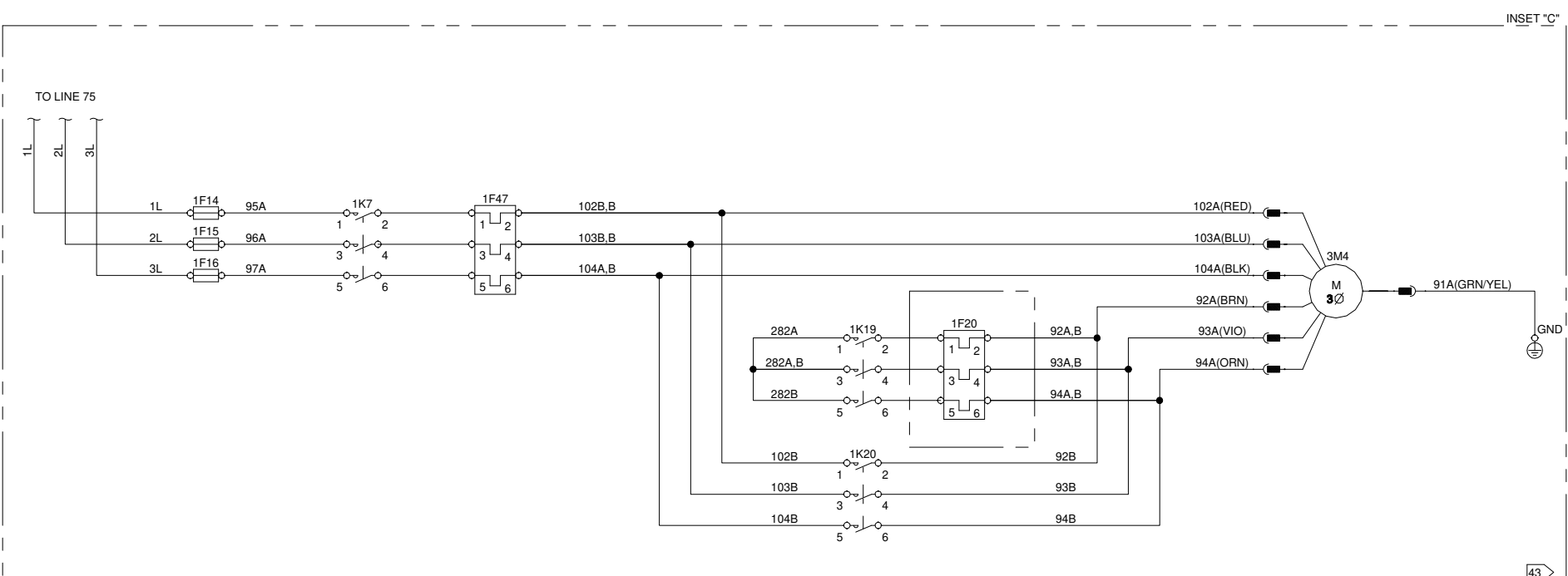
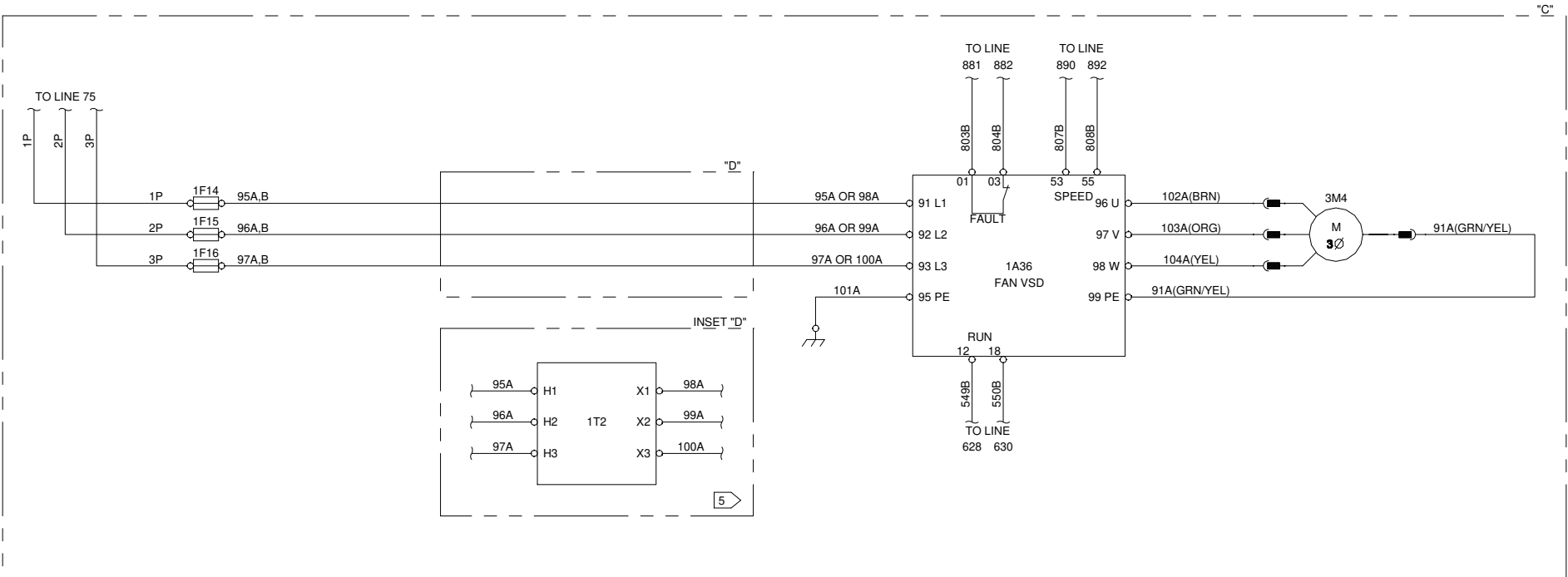
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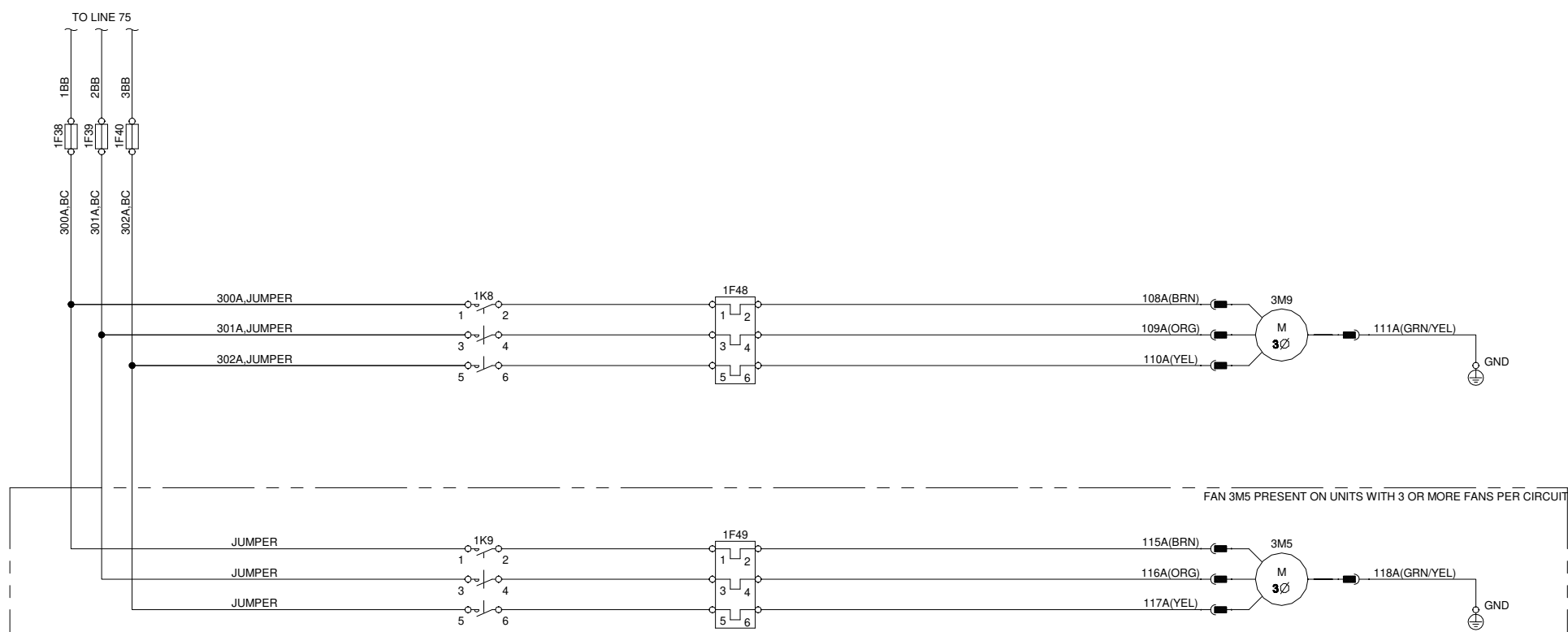
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| REVISION DATE:            |  |                                                                                                                                                                                                                                                                               |  |                                                                                                   |  |                  |          |
| REPLACES:                 |  |                                                                                                                                                                                                                                                                               |  |                                                                                                   |  |                  |          |
| SIMILAR TO:               |  |                                                                                                                                                                                                                                                                               |  |                                                                                                   |  |                  |          |
| USED BY:                  |  | CAD: CREO SCHEMATICS                                                                                                                                                                                                                                                          |  |                                                                                                   |  |                  |          |

FAN DECK CONFIGURATION



|           |         |             |
|-----------|---------|-------------|
| 4         | 2 FANS  | 3 FANS      |
| CIRCUIT 1 | 3M4,3M9 | 3M4,3M5,3M9 |





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| REPLACES:                 |                                                                                                                                                                                                                                                                 |                                                                  |                  |
| SIMILAR TO:               |                                                                                                                                                                                                                                                                 | 23116150                                                         | SHEET<br>6 OF 17 |
| USED BY:                  |                                                                                                                                                                                                                                                                 |                                                                  |                  |
| CAD: CREO SCHEMATICS      |                                                                                                                                                                                                                                                                 |                                                                  |                  |

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| REVISION DATE:            |  |                                                                                                                                                                                                                                                                            |  |                                                                                        |  |                  |          |
| REPLACES:                 |  |                                                                                                                                                                                                                                                                            |  |                                                                                        |  |                  |          |
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| MASTER FILE:              |  |                                                                                                                                                                                                                                                                                    |  | 23116150                                                                                    |  | SHEET<br>8 OF 17 |  | REV<br>B |  |
| REVISION DATE:            |  |                                                                                                                                                                                                                                                                                    |  |                                                                                             |  |                  |  |          |  |
| REPLACES:                 |  |                                                                                                                                                                                                                                                                                    |  |                                                                                             |  |                  |  |          |  |
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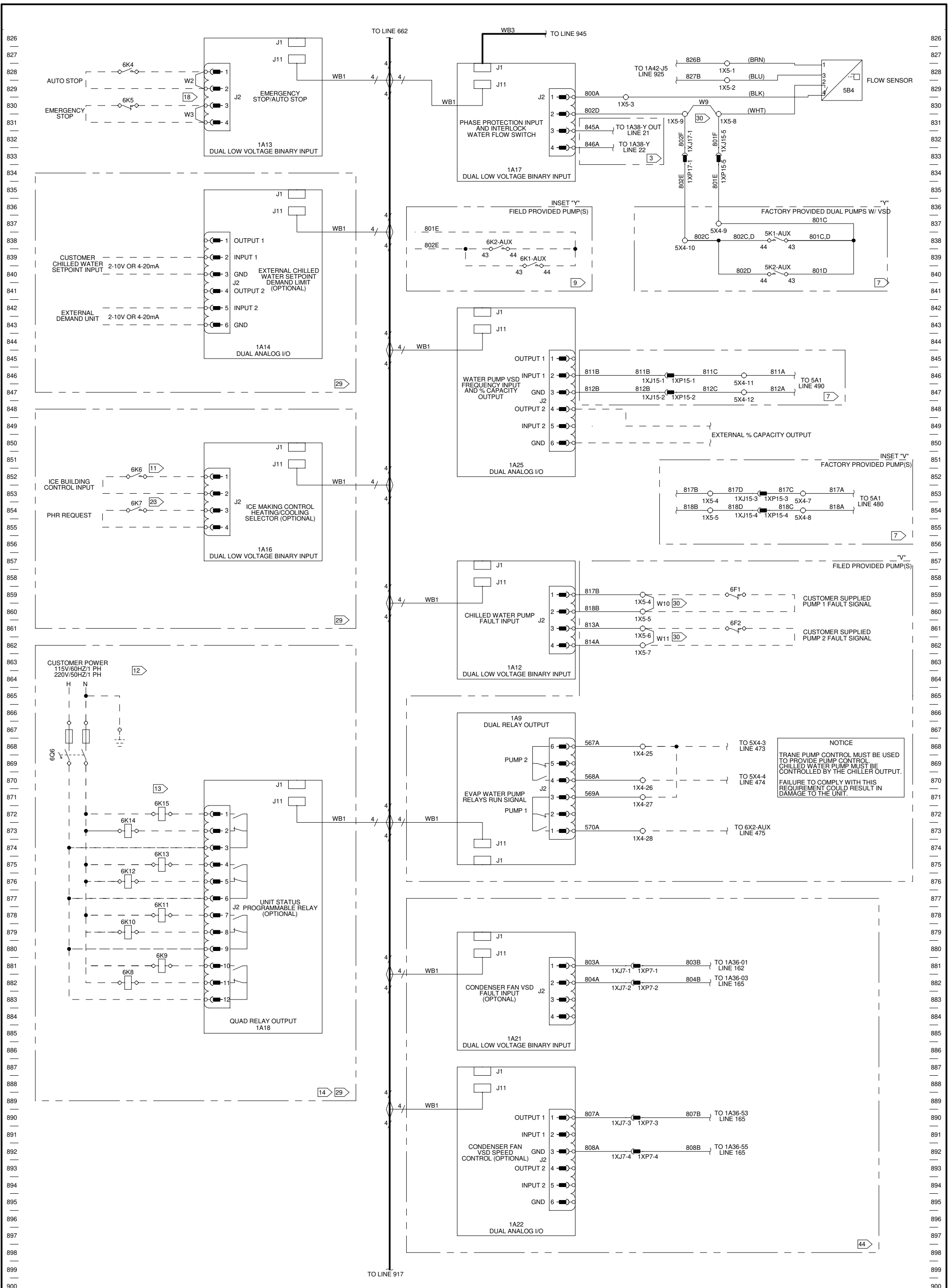
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| MASTER FILE:              |  |                                                                                                                                                                                                                                                                            |  | 23116150                                                                             |  | SHEET<br>12 OF 17 |  | REV<br>B |  |
| REVISION DATE:            |  |                                                                                                                                                                                                                                                                            |  |                                                                                      |  |                   |  |          |  |
| REPLACES:                 |  |                                                                                                                                                                                                                                                                            |  |                                                                                      |  |                   |  |          |  |
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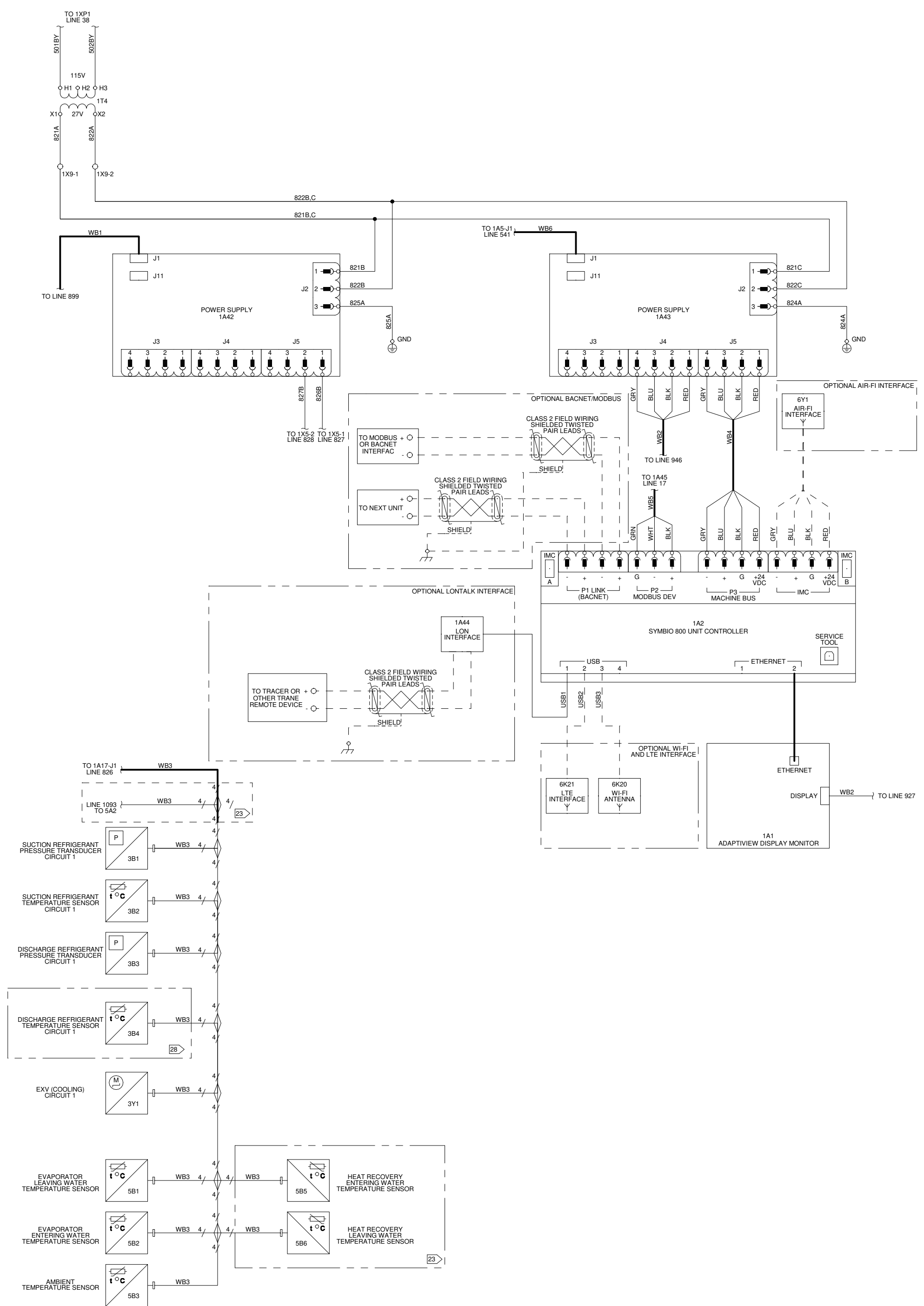
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