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REPLACES:		CGAM / CXAM		
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SIMILAR TO:		SLANT FRAME		
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GENERAL & FLAG NOTES

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GENERAL NOTES:

1. UNLESS OTHERWISE NOTED, ALL SWITCHES ARE SHOWN AT 25°C (77°F), AT ATMOSPHERIC PRESSURE, AT 50% RELATIVE HUMIDITY, WITH ALL UTILITIES TURNED OFF, AND AFTER A NORMAL SHUTDOWN HAS OCCURRED.
2. DASHED LINES INDICATE RECOMMENDED FIELD WIRING BY OTHERS. DASHED LINE ENCLOSURES AND/OR DASHED DEVICE OUTLINES INDICATE COMPONENTS PROVIDED BY THE FIELD. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS. SOLID LINE INDICATES WIRING BY TRANE.
3. NUMBERS ALONG THE RIGHT SIDE OF THE SCHEMATIC DESIGNATE THE LOCATION OF CONTACTS BY LINE NUMBER. AN UNDERLINED NUMBER INDICATES A NORMALLY CLOSED CONTACT.
4. ALL FIELD WIRING MUST BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC), STATE AND LOCAL REQUIREMENTS.
5. CLASS 1 FIELD WIRING INSULATION RATING IS REQUIRED TO BE EQUAL TO OR GREATER THAN THE EQUIPMENT SUPPLY VOLTAGE RATING. CLASS 2 FIELD WIRE INSULATION TO BE RATED AT 300V MINIMUM.

FLAG NOTES:

- 1

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.
- 2

TERMINAL BLOCK 1X1 IS PROVIDED AS STANDARD ON ALL UNITS PNCO=TERM. CIRCUIT BREAKER 1Q1 PNCO=CB AVAILABLE AS OPTION. TERMINAL BLOCK IS REPLACED WITH CIRCUIT BREAKER WHEN THIS OPTION IS SELECTED.
- 3

ELECTRONIC PROTECTION MODULE USED FOR 15-30 TON COMPRESSORS ONLY.
FOR 10-13TON COMPRESSOR CONTROL CIRCUIT, TERMINALS (16,19), (16,20) ARE JUMPED BY W4 AND W5. TERMINALS (15,18), (15,17) ARE JUMPED BY W6, AND W7 IN V CONFIGURATION. (NTON= 020, 026, 030, 040, 052 OR 060).
- 4

REFER TO FAN CHART FOR VALID FAN CONFIGURATIONS.
- 5

TRANSFORMER FOR 575V UNITS ONLY. (VOLT=575) AND (UAPP=CATC or WDC).
- 6

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.
- 7

OPTIONAL DUAL FACTORY SUPPLIED EVAP WATER PUMPS. WIRING SHOWN IS FOR VSD OF PUMP PACKAGE. (PTYP=DHHP).
- 8

OPTIONAL DUAL CUSTOMER SUPPLIED EVAP WATER PUMP(S). 6M2 WIRING 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").
- 9

CUSTOMER SUPPLIED PUMP RUN SIGNAL TO BE FIELD WIRED TO 1A9.
- 10

WIRING FOR 200V/460V UNIT SHOWN. SEE INSET "B" FOR CONTROL POWER TRANSFORMER WIRING OF OTHER VOLTAGES.
- 11

CONTACT CLOSURE ENABLES ICE MAKING, WHEN ICE MAKING OPTION IS ORDERED. (EVL=ICE).
- 12

CLASS 1 FIELD WIRED MODULE.
- 13

RELAY AT 120VAC: 7.2 AMPS RESISTIVE, 2.88 AMPS PILOT DUTY, 1/3 HP 7.2 FLA; AT 240VAC: 5 AMPS GENERAL PURPOSE.
- 14

FIELD ASSIGNED PROGRAMMABLE RELAYS. (STAT=PRLY).
- 15

CUSTOMER SUPPLIED POWER, 120V.
- 16

ONLY USED WHEN PUMP PACKAGE OPTION IS ORDERED. (PTYP=DHHP).
- 17

ONLY USED WHEN BUFFER TANK OPTION IS ORDERED. (BTNK=BTNK).
- 18

THE CONTACTS FOR AUTO STOP AND EMERGENCY STOP SWITCHES ARE JUMPED 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.
- 19

PHASE PROTECTION RELAY USED ONLY FOR CIRCUIT(S) WITH 10 TON, 13 TON, AND 15 TON LIGHT COMMERCIAL COMPRESSORS (NTON = 20, 26, 30, 40, 52, or 60).
- 20

NOT PRESENT WHEN BOTH OF THE COMPRESSORS ARE 10 TON, 13 TON, AND 15 TON LIGHT COMMERCIAL COMPRESSORS (NTON = 20, 26, 30, 40, 52 or 60).
- 21

GROUND SCREW IN MAIN CONTROL PANEL.
- 22

INSIDE THE PUMP VSD ENCLOSURE, MOUNTED ON UNIT FRAME WITH (PTYP=DHHP).
- 23

ONLY USED WHEN PARTIAL HEAT RECOVERY (CDHR = PRTF) OPTION IS ORDERED.
- 24

COMPRESSOR HEATER WIRE COLOR IS DETERMINED BY VOLTAGE IN CHART.
- 25

PRESENT ON "V" FRAME UNITS (NTON = 40, 52, 60 or 70).
- 26

PRESENT ON "W" FRAME UNITS (NTON = 100, 100, 120 or 130).
- 27

PRESENT ON "W" FRAME UNITS (NTON = 80, 90).
- 28

DISCHARGE REFRIGERANT TEMPERATURE SENSOR PRESENT FOR ALL THE FOLLOWING OPTIONS:
UNITS WITH ICEMAKING OPTION (EVL= ICE), UNITS WITH LOW TEMPERATURE PROCESS COOLING (EVL= PROC), UNITS WITH PHR FAN CONTROL OPTION (CDHR = PRTF).
- 29

REFER TO FIELD WIRING DIAGRAM FOR SUGGESTED WIRING.
- 30

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.
- 31

CONVENIENCE OUTLET ASSEMBLY. POWER FOR THE OPTIONAL CONVENIENCE OUTLET IS SUPPLIED BY A CUSTOMER PROVIDED POWER SUPPLY, MAX FUSE SIZE IS 20 AMPS FOR OPTIONAL CONVENIENCE OUTLET
- 35

VENTILATION FAN PRESENT WHEN LINE (VOLT = 200, 230, 380 or 400).
- 36

1A41, BACNET INTERFACE MODULE USED WHEN (COMM = BCNT).
- 37

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=30, 35, 60, 70, 80, 90, 100, 110, 120 or 130) (HRTZ = 60 AND SATT = LNUN OR HRTZ = 50 AND SATT = STDN).
- 38

WIRING FOR 5M1 AND 5M2 IS BASED OFF MOTOR HORSEPOWER AND VOLTAGE.
USE DIAGRAMS FOR NOTE 38 ON PAGE 10 FOR WIRING.
- 39

PRESENT ON UNITS (NTON = 130).
- 40

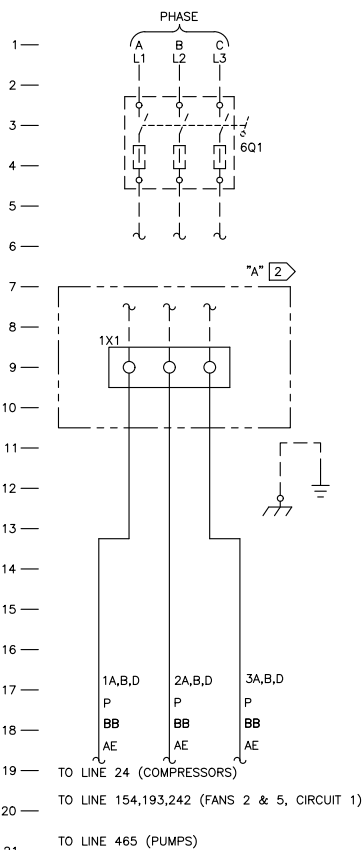
PRESENT ON UNITS (NTON = 20, 26, 30, 35) AND (PTYP = DHHP).
- 41

PRESENT ON UNITS (NTON = 20, 26, 30, 35) AND (PTYP = NONE).
- 42

SINGLE SPEED FAN 1 PRESENT WHEN:
STANDARD AMBIENT UNITS WITH 4 OR MORE FANS PER CIRCUIT, (NTON=100, 110, 120, OR 130) AND (UAPP=STDC OR HATC)
- 43

TWO SPEED FAN 1 PRESENT WHEN:
STANDARD AMBIENT UNIT WITH THREE FANS PER CIRCUIT, (NTON= 020, 026, 030, 035, 040, 052, 060, 070, 080, OR 090) AND (UAPP=STDC OR HATC)
- 44

VSD AND ASSOCIATED CONTROL CIRCUITS ON FAN 1 PRESENT WHEN:
LOW AMBIENT, AND WIDE AMBIENT UNITS.
UNITS WITH PHR FAN CONTROL OPTION AND 2 FAN STANDARD OR HIGH AMBIENT.

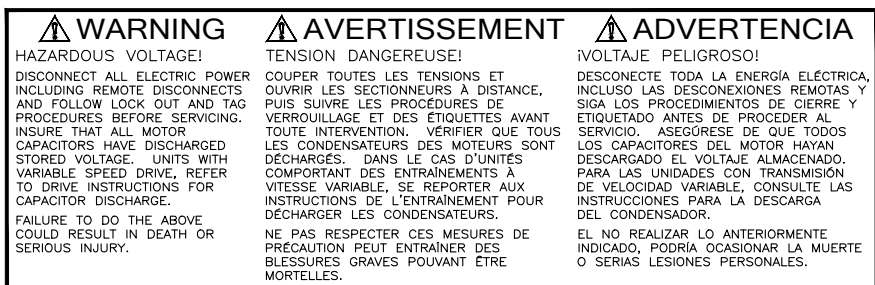


⚠ WARNING	⚠ AVERTISSEMENT	⚠ ADVERTENCIA
HAZARDOUS VOLTAGE! DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS AND FOLLOW LOCK OUT AND TAG PROCEDURES BEFORE SERVICING. INSURE THAT ALL MOTOR CAPACITORS HAVE DISCHARGED STORED VOLTAGE. UNITS WITH VARIABLE SPEED DRIVE, REFER TO DRIVE INSTRUCTIONS FOR CAPACITOR DISCHARGE. FAILURE TO DO THE ABOVE COULD RESULT IN DEATH OR SERIOUS INJURY.	TENSION DANGEREUSE! COUPER TOUTES LES TENSIONS ET OUVRIR LES SECTIONNEURS A DISTANCE, PUIS SUIVRE LES PROCEDURES DE VERROUILLAGE ET DES ETIQUETTES AVANT TOUTE INTERVENTION. VERIFIER QUE TOUS LES CONDENSATEURS DES MOTEURS SONT DECHARGES, DANS LE CAS D'UNITES COMPORTANT DES ENTRAÎNEMENTS A VITESSE VARIABLE, SE REPORTER AUX INSTRUCTIONS DE L'ENTRAÎNEMENT POUR DECHARGER LES CONDENSATEURS. NE PAS RESPECTER CES MESURES DE PRECAUTION PEUT ENTRAÎNER DES BLESSURES GRAVES POUVANT ETRE MORTELLES.	¡VOLTAJE PELIGROSO! DESCONECTE TODA LA ENERGÍA ELÉCTRICA, INCLUIDO LAS DESCONECCIONES REMOTAS Y SIGA LOS PROCEDIMIENTOS DE CIERRE Y ETIQUETADO ANTES DE PROCEDER AL SERVICIO. ASEGURESE DE QUE TODOS LOS CAPACITORES DEL MOTOR HAYAN DESCARGADO EL VOLTAJE ALMACENADO. PARA LAS UNIDADES CON TRANSMISIÓN DE VELOCIDAD VARIABLE, CONSULTE LAS INSTRUCCIONES PARA LA DESCARGA DEL CONDENSADOR. EL NO REALIZAR LO ANTERIORMENTE INDICADO, PODRIA OCASIONAR LA MUERTE O SERIAS LESIONES PERSONALES.

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NOTICE	AVIS	AVISO
USE COPPER CONDUCTORS ONLY!	N'UTILISER QUE DES CONDUCTEURS EN CUIVRE!	¡UTILICE ÚNICAMENTE CONDUCTORES DE COBRE!
UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.	LES BORNES DE L'UNITÉ NE SONT PAS CONÇUES POUR RECEVOIR D'AUTRES TYPES DE CONDUCTEURS.	LAS TERMINALES DE LA UNIDAD NO ESTÁN DISEÑADAS PARA ACEPTAR OTROS TIPOS DE CONDUCTORES.
FAILURE TO DO THE ABOVE COULD RESULT IN EQUIPMENT DAMAGE.	FAIRE DÉFAUT À LA PROCÉDURE CI-DESSUS PEUT ENTRAÎNER DES DOMMAGES À L'ÉQUIPEMENT.	NO SEGUIR LAS INSTRUCCIONES ANTERIORES PUEDE PROVOCAR DAÑOS EN EL EQUIPO.



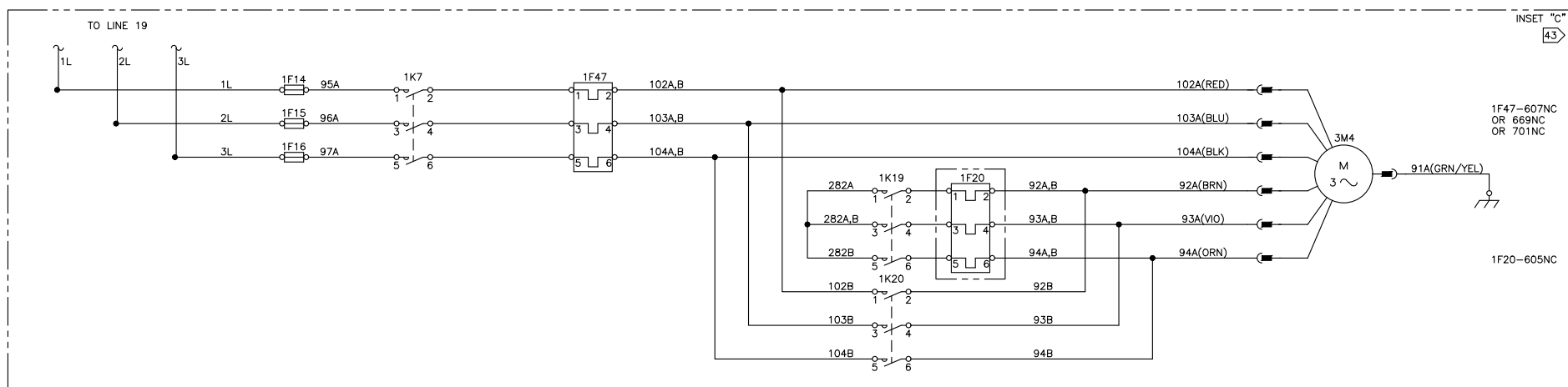
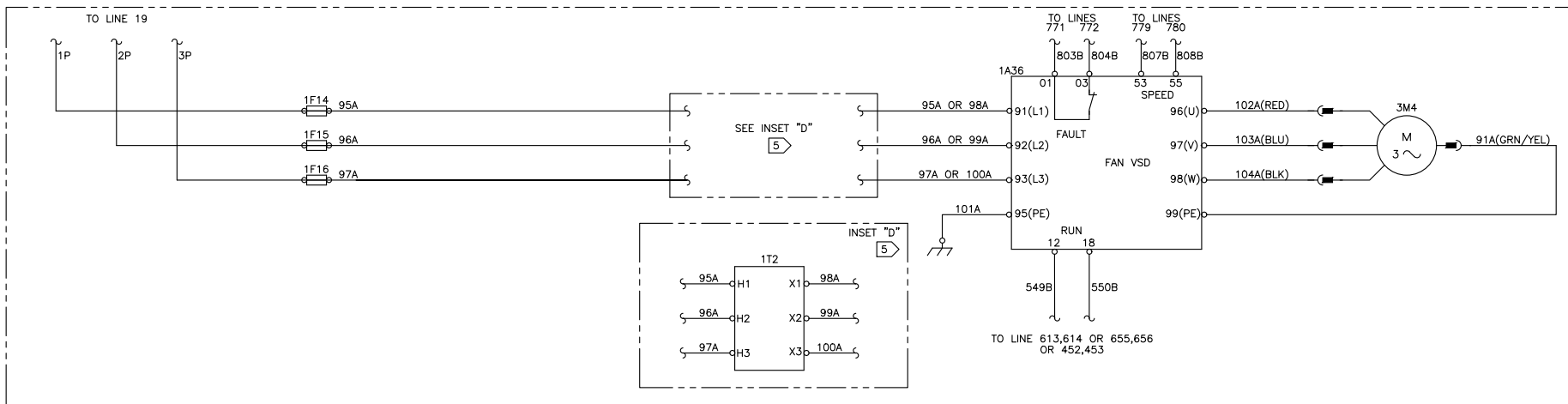
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FAN DECK CONFIGURATION
CIRCUIT #1



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



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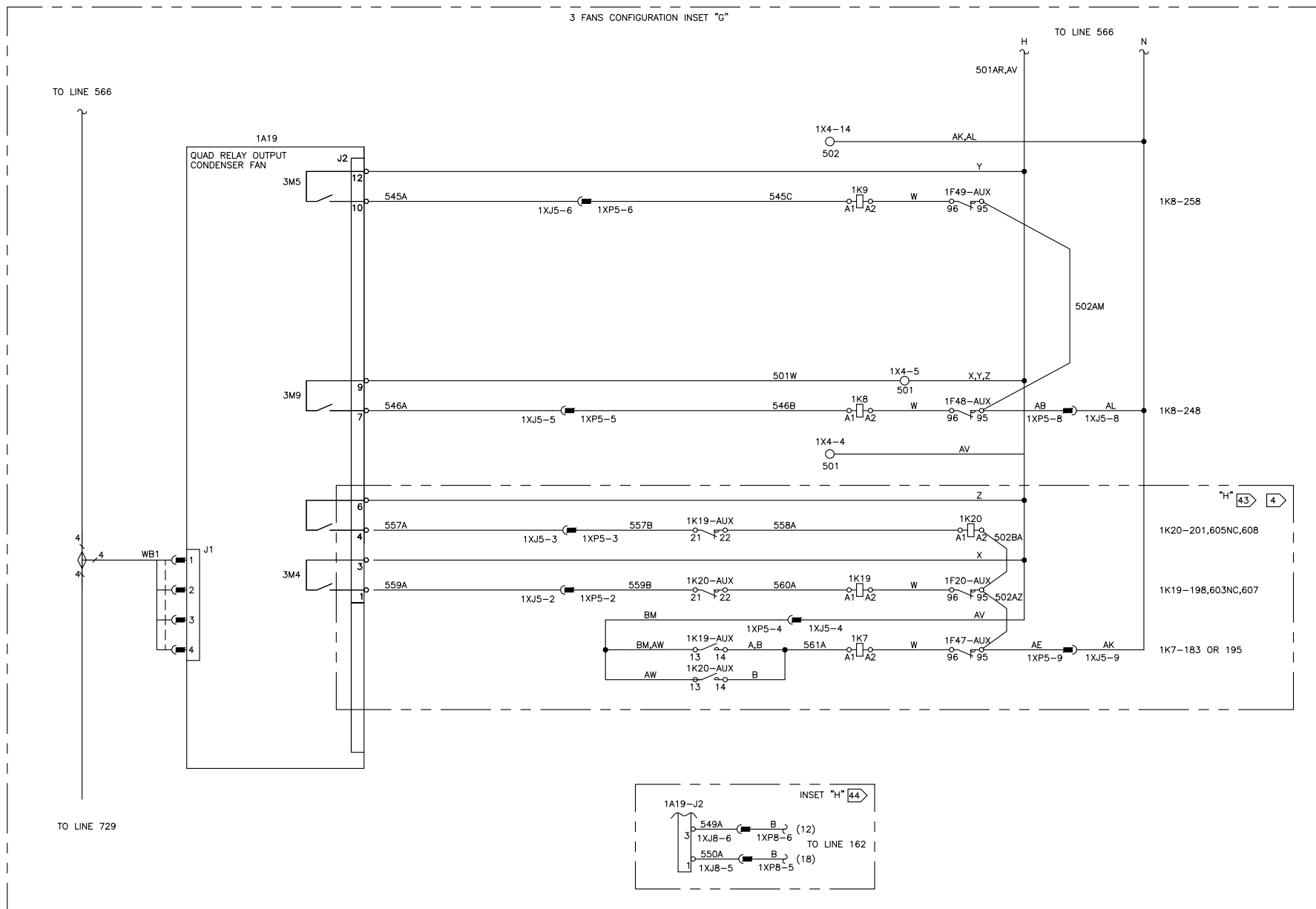
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SCHFEMATIC

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FANS 2 & 3 CONTROL
SLANT FRAME
NORTH AMERICA PRODUCTION



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 WARNING HAZARDOUS VOLTAGE! DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS AND FOLLOW LOCK OUT AND TAG PROCEDURES BEFORE SERVICING. INSURE 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 À DISTANCE, PUIS SUIVRE LES PROCÉDURES DE VERROUILLAGE ET DES ÉTIQUETTES AVANT TOUTE INTERVENTION. VÉRIFIER QUE TOUS LES CONDENSATEURS DES MOTEURS SONT DÉCHARGÉS. DANS LE CAS D'UNITÉS COMPORTANT DES ENTRAÎNEMENTS À VITESSE VARIABLE, SE REPORTER AUX INSTRUCTIONS DE L'ENTRAÎNEMENT POUR DÉCHARGER LES CONDENSATEURS. NE PAS RESPECTER CES MESURES DE PRÉCAUTION PEUT ENTRAÎNER DES BLESSURES GRAVES POUVANT ÊTRE MORTELLES.	 ADVERTENCIA ¡VOLTAJE PELIGROSO! DESCONECTE TODA LA ENERGÍA ELÉCTRICA, INCLUSO LAS DESCONEXIONES REMOTAS Y SIGA LOS PROCEDIMIENTOS DE CIERRE Y ETIQUETADO ANTES DE PROCEDER AL SERVICIO. ASEGÚRESE DE QUE TODOS LOS CAPACITORES DEL MOTOR HAYAN DESCARGADO EL VOLTAJE ALMACENADO. PARA LAS UNIDADES CON TRANSMISIÓN DE VELOCIDAD VARIABLE, CONSULTE LAS INSTRUCCIONES PARA LA DESCARGA DEL CONDENSADOR. EL NO REALIZAR LO ANTERIORMENTE INDICADO, PODRÍA OCASIONAR LA MUERTE O SERIAS LESIONES PERSONALES.
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TRANE		23115510	SHEET 13 OF 16	REV E
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REVISION DATE: 10 MAR 2022		SLANT FRAME		
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NOTICE USE COPPER CONDUCTORS ONLY! UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS. FAILURE TO DO THE ABOVE COULD RESULT IN EQUIPMENT DAMAGE.	AVIS N'UTILISER QUE DES CONDUCTEURS EN CUIVRE! LES BORNES DE L'UNITÉ NE SONT PAS CONÇUES POUR RECEVOIR D'AUTRES TYPES DE CONDUCTEURS. FAIRE DÉFAUT À LA PROCÉDURE CI-DESSUS PEUT ENTRAÎNER DES DOMMAGES À L'ÉQUIPEMENT.	AVISO ¡UTILICE ÚNICAMENTE CONDUCTORES DE COBRE! LAS TERMINALES DE LA UNIDAD NO ESTÁN DISEÑADAS PARA ACEPTAR OTROS TIPOS DE CONDUCTORES. NO SEGUIR LAS INSTRUCCIONES ANTERIORES PUEDE PROVOCAR DAÑOS EN EL EQUIPO.
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⚠ WARNING

HAZARDOUS VOLTAGE!
DISCONNECT ALL ELECTRIC POWER
INCLUDING REMOTE DISCONNECTS
AND FOLLOW LOCK OUT AND TAG
PROCEDURES BEFORE SERVICING.
INSURE THAT ALL MOTOR
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VARIABLE SPEED DRIVE, REFER
TO DRIVE INSTRUCTIONS FOR
CAPACITOR DISCHARGE.
FAILURE TO DO THE ABOVE
COULD RESULT IN DEATH OR
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⚠ AVERTISSEMENT

TENSION DANGEREUSE!
COUPER TOUTES LES TENSIONS ET
OUIVRER LES SECTIONNEURS À DISTANCE,
SUIVRE LES PROCÉDURES DE
VERROUILLAGE DES ÉTIQUETTES AVANT
TOUTE INTERVENTION. VÉRIFIER QUE TOUT
LES CONDENSATEURS DES MOTEURS SONT
DÉCHARGÉS. DANS LE CAS D'UNITÉS
COMPORTANT DES ENTRAÎNEMENTS À
VITESSE VARIABLE, SE REPORTER AUX
INSTRUCTIONS DE L'ENTRAÎNEMENT POUR
DÉCHARGER LES CONDENSATEURS.

NE PAS RESPECTER CES MESURES DE
PRÉCAUTION PEUT ENTRAÎNER DES
BLESSURES GRAVES POUVANT ÊTRE
MORTELLES.

 ADVERTENCIA

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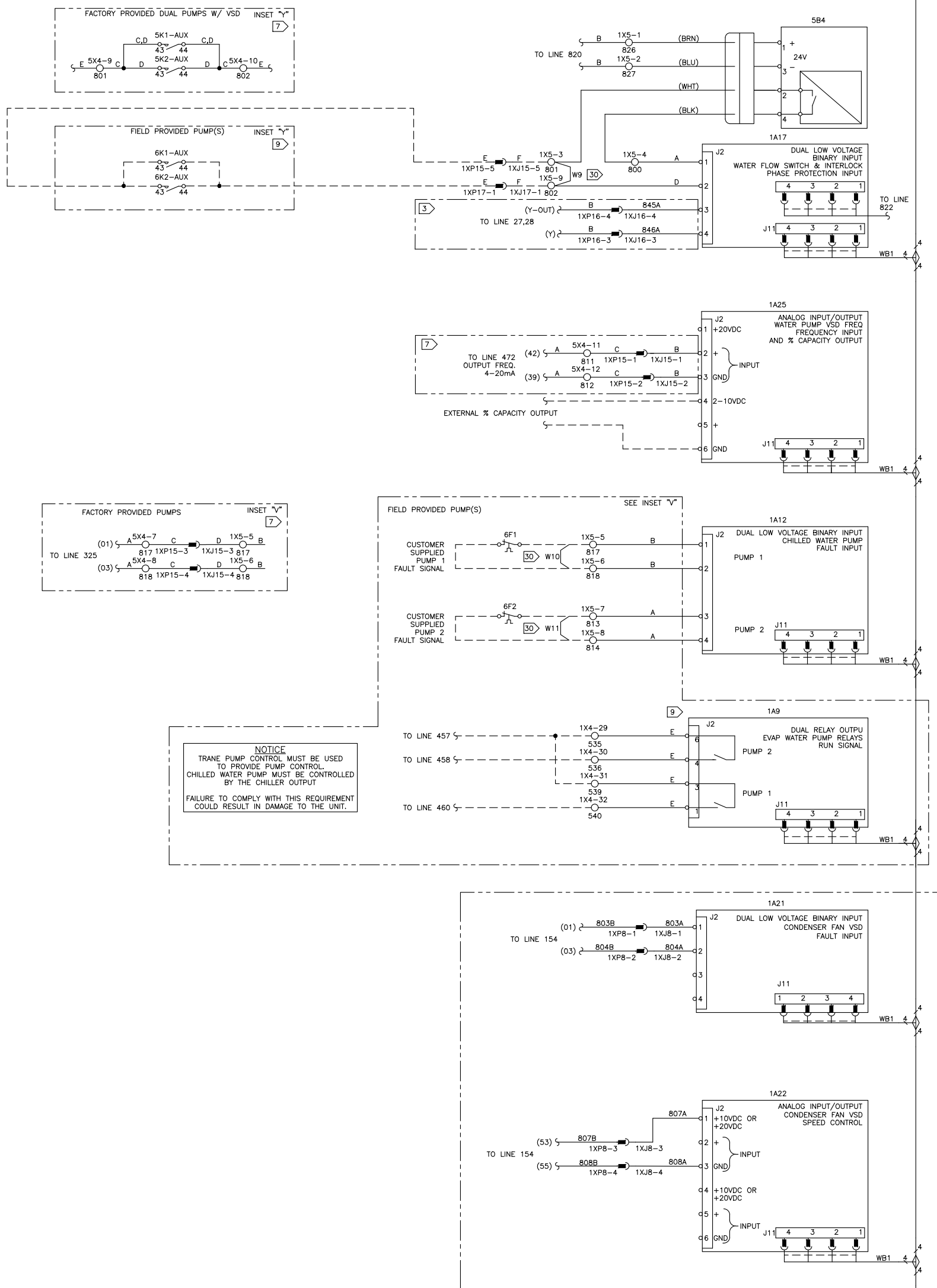
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AVIS

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SLANT FRAME		
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