

⚠ 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 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. UN MANQUEMENT À LA PROCÉDURE CI-DESSUS PEUT ENTRAÎNER DES BLESSURES GRAVES, VOIRE LA MORT.

⚠ 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. NO REALIZAR LO ANTEDICHO PUEDE PROVOCAR LA MUERTE O LESIONES GRAVES.

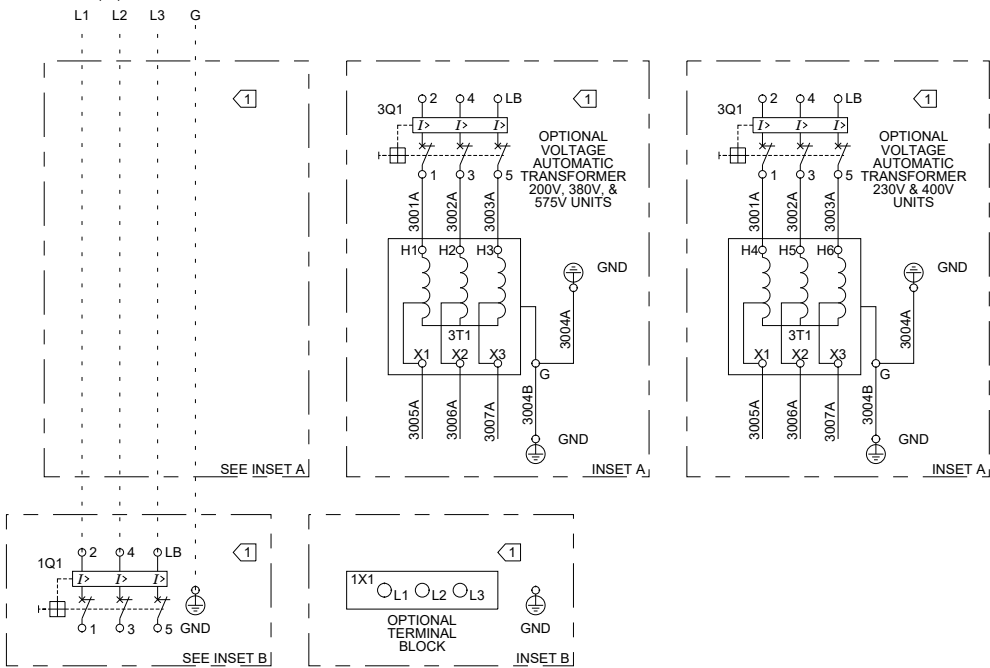
CAUTION:

- DO NOT ENERGIZE UNIT UNTIL INSTALLATION COMPLETION CHECK SHEET AND START UP PROCEDURES HAVE BEEN COMPLETED.
- THE EVAPORATOR HEATER POWER CIRCUIT CONNECTION, TERMINAL STRIP 1X8 ON SHEET 2, 115VAC/1~/15A, IS MANDATORY FOR NON-GLYCOL MEDIUMS. SEE INSTALLATION, OPERATION, AND MAINTENANCE (IOM) DOCUMENT FOR FREEZE AVOIDANCE FOR DETAILS.

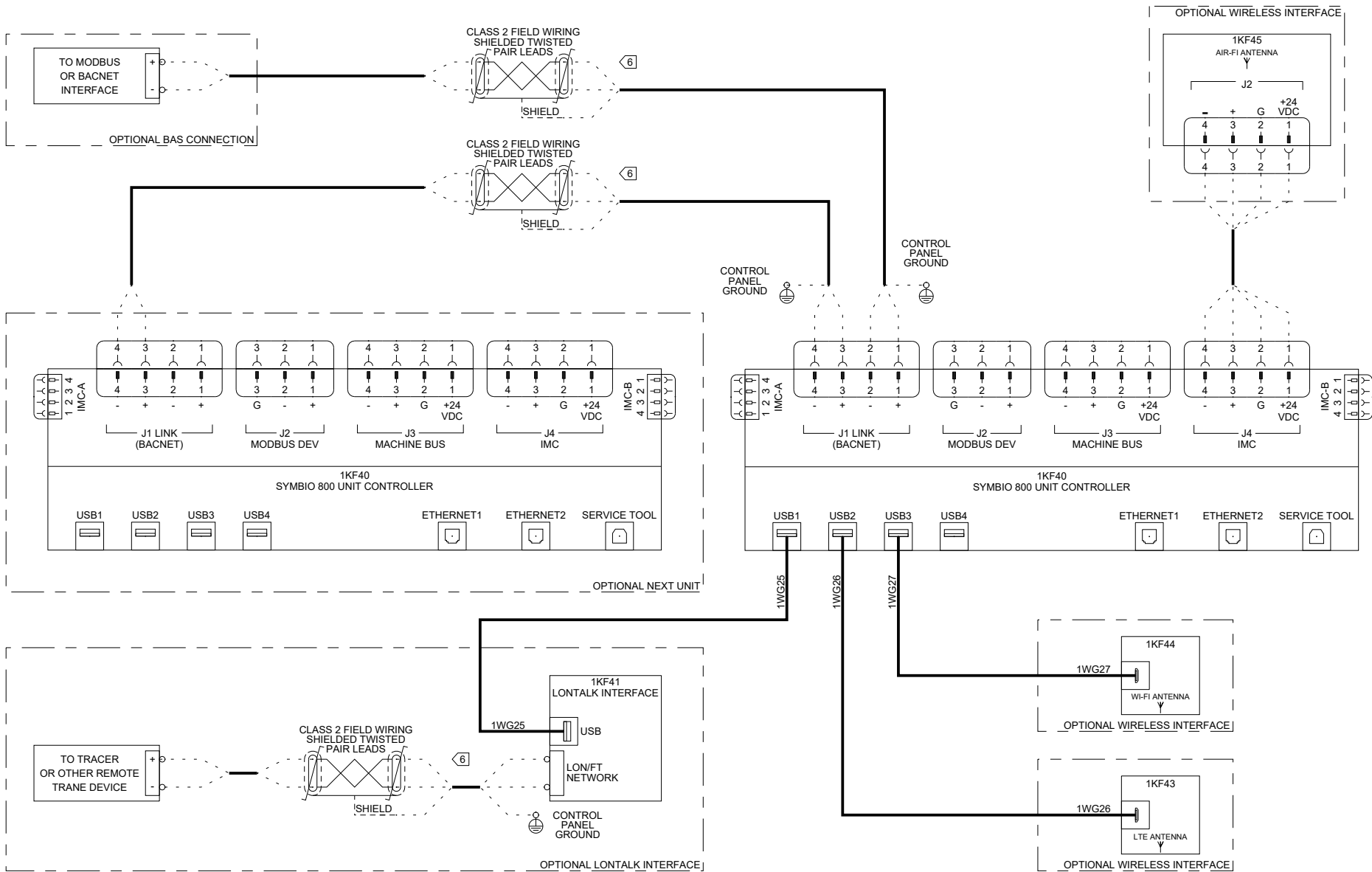
GENERAL NOTES:

- ALL FIELD WIRING MUST BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC), STATE, AND LOCAL CODES.
- CUSTOMER CONTROL WIRING TO BE RELIABLY ROUTED AND NOT INSTALLED IN CONDUIT WITH 115VAC OR 3~ CIRCUITS.
- ALL STANDARD AND OPTIONAL COMPONENTS SHOWN. DASHED LINE ENCLOSED INSETS INDICATE OPTIONAL FACTORY INSTALLED OR CUSTOMER PROVIDED AND INSTALLED COMPONENTS.
- UNLESS OTHERWISE NOTED ALL SWITCHES ARE SHOWN AT 25°C (77°F), AT ATMOSPHERIC PRESSURE, AT 50% RELATIVE HUMIDITY, WITH ALL POWER REMOVED AND AFTER NORMAL SHUTDOWN HAD OCCURRED.

CLASS 1 FIELD WIRING. CUSTOMER SUPPLIED
LINE VOLTAGE (3~). SEE UNIT NAMEPLATE.



CUSTOMER POWER CONNECTIONS
CUSTOMER COMMUNICATION CONNECTIONS



1 CLASS 1 FIELD WIRING INSULATION RATING IS REQUIRED TO BE EQUAL TO OR GREATER THAN THE EQUIPMENT SUPPLY VOLTAGE RATING AND 90°C TEMPERATURE INSULATION RATING. REFER TO UNIT NAMEPLATE FOR MINIMUM CIRCUIT AMPACITY AND MAXIMUM OVERCURRENT PROTECTION DEVICE. PROVIDE EQUIPMENT GROUND CONDUCTOR(S). DEPENDING ON CONFIGURATION, EQUIPMENT MAY HAVE SINGLE OR DUAL POINT POWER CONNECTIONS. REFER TO EQUIPMENT SUBMITTAL FOR ACCEPTABLE WIRE RANGE AT CONNECTION POINT(S).

6 SHIELDED, TWISTED PAIR LEADS ARE REQUIRED FOR CONNECTIONS TO THE COMMUNICATIONS INTERFACE MODULES. THE SHIELD SHOULD ONLY BE GROUNDED AT THE UNIT CONTROL PANEL END. REFER TO INTEGRATION, SYMBIO 800, AND BUILDING AUTOMATION SYSTEM (BAS) COMMUNICATION INSTALLATION LITERATURE FOR MORE DETAILS.

DRAWN BY:	R. WUTTKE
© TRANE DATE:	31-JUL-2023
MASTER FILE:	
REVISION DATE:	
REPLACES:	
SIMILAR TO:	
USED BY:	



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CAD: CREO SCHEMATICS

**DIAGRAM
FIELD WIRING**

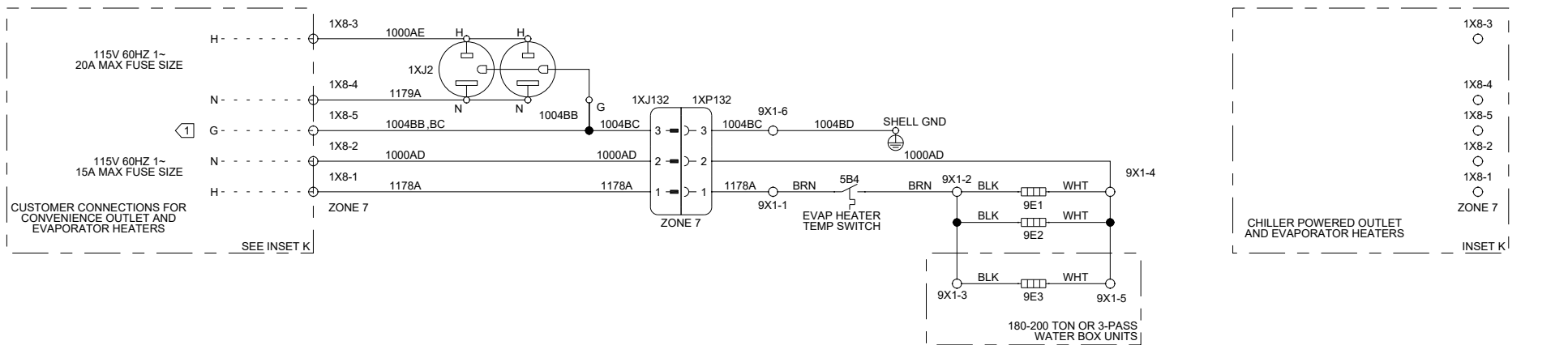
POWER AND COMMUNICATIONS CONNECTIONS

ACR 513A - 2 COMPRESSOR UNITS

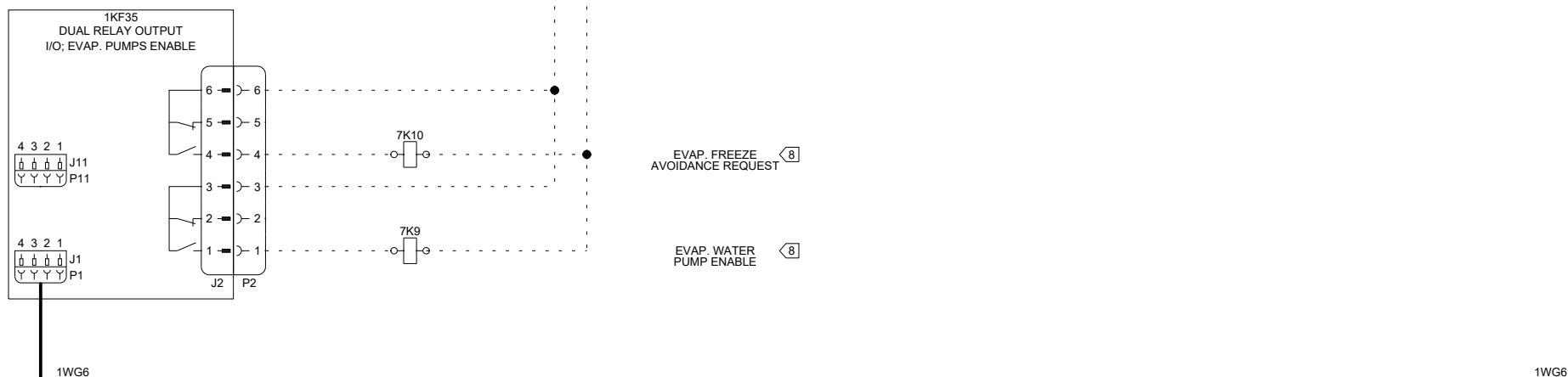
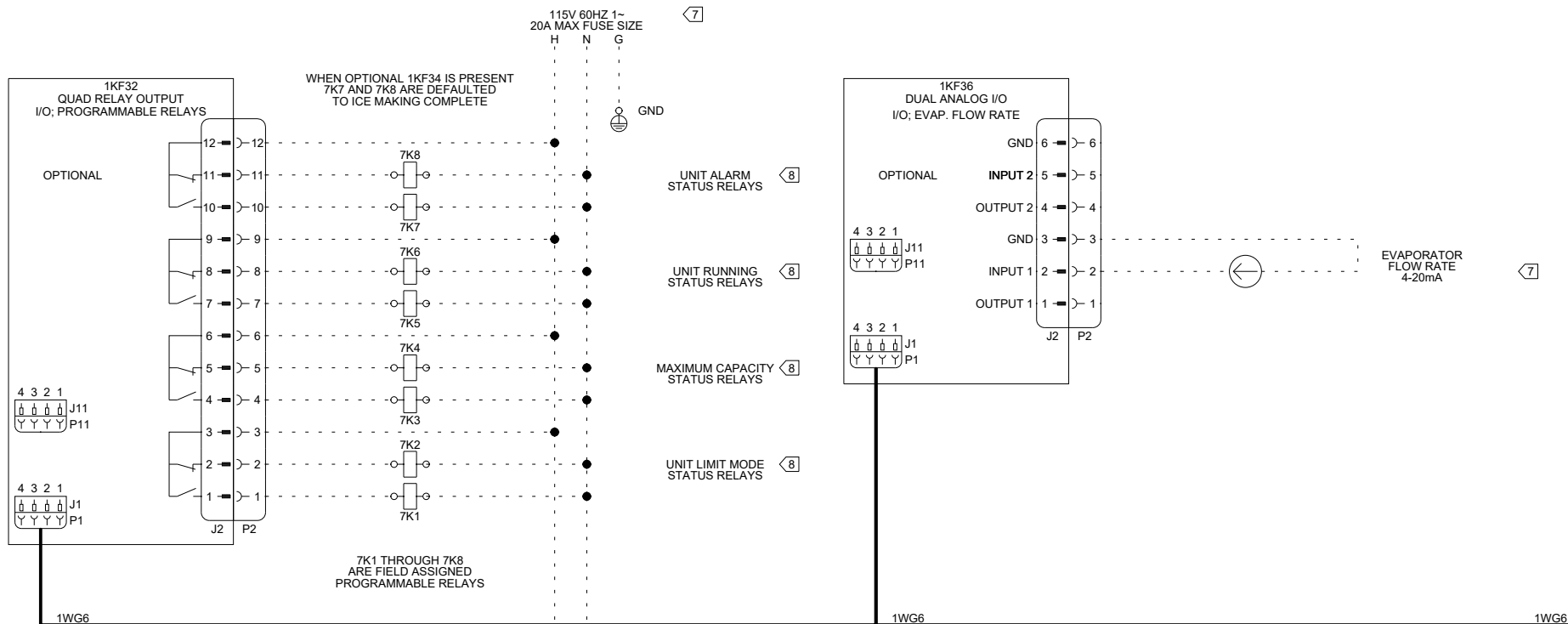
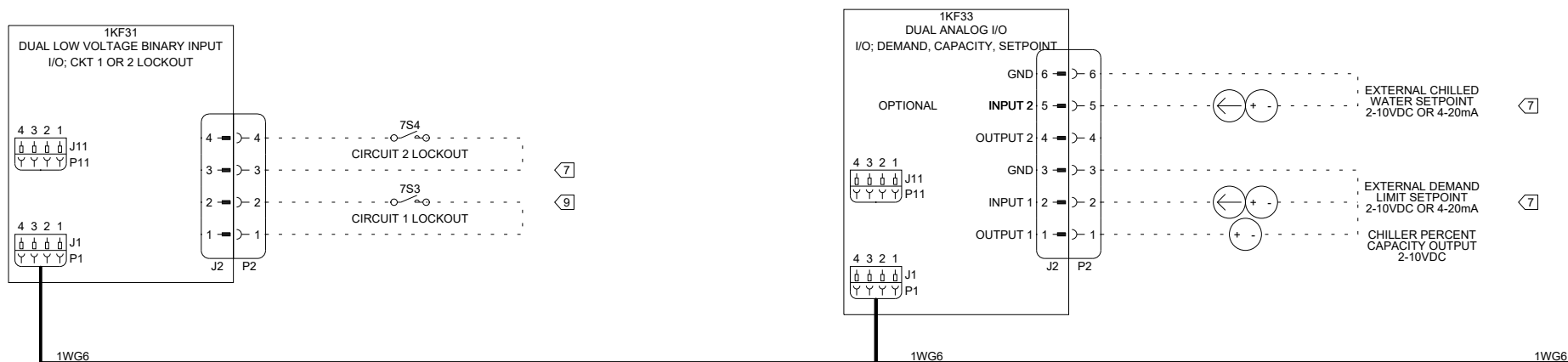
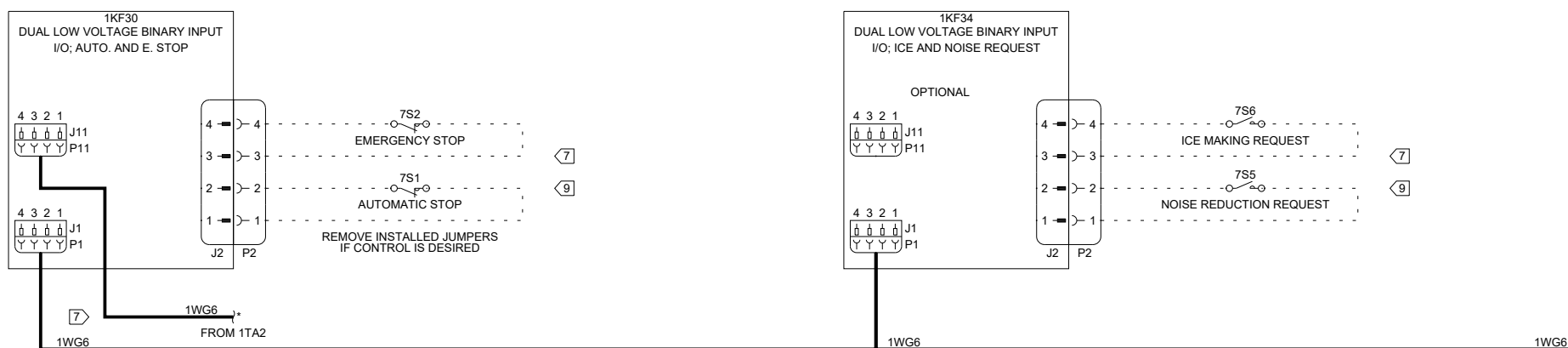
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SHEET
1 OF 2

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CONVENIENCE OUTLET AND EVAPORATOR HEATER CONNECTIONS
CUSTOMER I/O LLID CONNECTIONS



- ① CLASS 1 FIELD WIRING INSULATION RATING IS REQUIRED TO BE EQUAL TO OR GREATER THAN THE EQUIPMENT SUPPLY VOLTAGE RATING AND 90°C TEMPERATURE INSULATION RATING. REFER TO UNIT NAMEPLATE FOR MINIMUM CIRCUIT AMPACITY AND MINIMUM OVERCURRENT PROTECTION DEVICE RATING. THE EQUIPMENT GROUND CONDUCTOR(S) DEPENDING ON CONFIGURATION, EQUIPMENT MAY HAVE SINGLE OR DUAL POINT POWER CONNECTIONS. REFER TO EQUIPMENT SUBMITTAL FOR ACCEPTABLE WIRE RANGE AT CONNECTION POINT(S).
- ④ GLOBAL BUS CONNECTIONS ARE NOT NECESSARILY IN THE ORDER DEPICTED.
- ⑦ CLASS 2 FIELD WIRING INSULATION IS REQUIRED TO BE RATED AT 300V MINIMUM. UNLESS OTHERWISE NOTED, ALL CUSTOMER WIRING CONNECTIONS ARE MADE TO CIRCUIT BOARD MOUNTED BOX LUGS WITH A WIRE RANGE OF 14 TO 18
- ⑧ RELAY CONTACT RATINGS AT 115VAC: 7.2A RESISTIVE, 2.88A PILOT DUTY, OR 1/3 HP, 7.2 FLA. CONTACTS ARE RATED FOR 240VAC, 5A GENERAL PURPOSE DUTY.
- ⑨ CUSTOMER SUPPLIED CONTACTS FOR ALL LOW VOLTAGE CONNECTIONS MUST BE COMPATIBLE WITH DRY CIRCUIT 24VDC FOR A 12mA RESISTIVE LOAD. SILVER OR GOLD PLATED CONTACTS ARE RECOMMENDED.

DRAWN BY: R. WUTTKE	 	DIAGRAM FIELD WIRING FIELD CONNECTIONS: 115VAC/1~ AND 24VDC. CONVENIENCE OUTLET, EVAPORATOR HEATERS, AND I/O ACR 513A - 2 COMPRESSOR UNITS	
© TRANE DATE: 31-JUL-2023		23116454	SHEET 2 OF 2
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