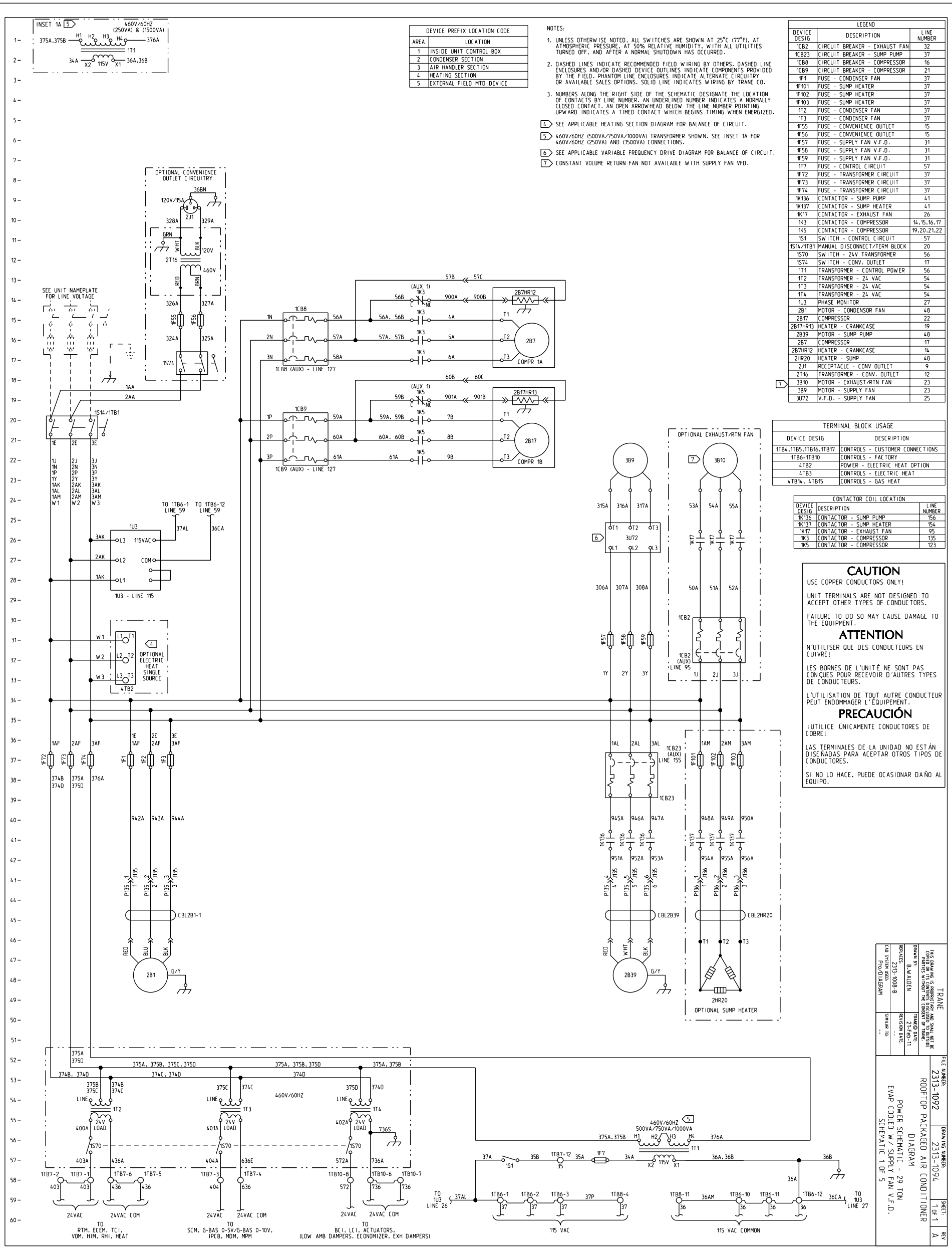

DEVICE PREFIX LOCATION CODE	
AREA	LOCATION
1	INSIDE UNIT CONTROL BOX
2	CONDENSER SECTION
3	AIR HANDLER SECTION
4	HEATING SECTION
5	EXTERNAL FIELD MTD DEVICE

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 CO.
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. AN OPEN ARROWHEAD BELOW THE LINE NUMBER POINTING UPWARD INDICATES A TIMED CONTACT WHICH BEGINS TIMING WHEN ENERGIZED.

4 SEE APPLICABLE HEATING SECTION DIAGRAM FOR BALANCE OF CIRCUIT.

5 460V/60HZ (500VA/750VA/1000VA) TRANSFORMER SHOWN. SEE INSET 1A FOR 460V/60HZ (250VA) AND (1500VA) CONNECTIONS.

6 SEE APPLICABLE VARIABLE FREQUENCY DRIVE DIAGRAM FOR BALANCE OF CIRCUIT.

7 CONSTANT VOLUME RETURN FAN NOT AVAILABLE WITH SUPPLY FAN VFD.

LEGEND		
DEVICE DESIG	DESCRIPTION	LINE NUMBER
1CB2	CIRCUIT BREAKER - EXHAUST FAN	32
1CB23	CIRCUIT BREAKER - SUMP PUMP	37
1CB8	CIRCUIT BREAKER - COMPRESSOR	16
1CB9	CIRCUIT BREAKER - COMPRESSOR	21
1F1	FUSE - CONDENSER FAN	37
1F101	FUSE - SUMP HEATER	37
1F102	FUSE - SUMP HEATER	37
1F103	FUSE - SUMP HEATER	37
1F2	FUSE - CONDENSER FAN	37
1F3	FUSE - CONDENSER FAN	37
1F55	FUSE - CONVENIENCE OUTLET	15
1F56	FUSE - CONVENIENCE OUTLET	15
1F57	FUSE - SUPPLY FAN V.F.D.	31
1F58	FUSE - SUPPLY FAN V.F.D.	31
1F59	FUSE - SUPPLY FAN V.F.D.	31
1F7	FUSE - CONTROL CIRCUIT	57
1F72	FUSE - TRANSFORMER CIRCUIT	37
1F73	FUSE - TRANSFORMER CIRCUIT	37
1F74	FUSE - TRANSFORMER CIRCUIT	37
1K136	CONTACTOR - SUMP PUMP	41
1K137	CONTACTOR - SUMP HEATER	41
1K17	CONTACTOR - EXHAUST FAN	26
1K3	CONTACTOR - COMPRESSOR	14.15.16.17
1K5	CONTACTOR - COMPRESSOR	19.20.21.22
1S1	SWITCH - CONTROL CIRCUIT	57
1S14/1TB1	MANUAL DISCONNECT/TERM BLOCK	20
1S70	SWITCH - 24V TRANSFORMER	56
1S74	SWITCH - CONV. OUTLET	17
1T1	TRANSFORMER - CONTROL POWER	56
1T2	TRANSFORMER - 24 VAC	54
1T3	TRANSFORMER - 24 VAC	54
1T4	TRANSFORMER - 24 VAC	54
1U3	PHASE MONITOR	27
2B1	MOTOR - CONDENSOR FAN	48
2B17	COMPRESSOR	22
2B17HR13	HEATER - CRANKCASE	19
2B39	MOTOR - SUMP PUMP	48
2B7	COMPRESSOR	17
2B7HR12	HEATER - CRANKCASE	14
2HR20	HEATER - SUMP	48
2J1	RECEPTACLE - CONV OUTLET	9
2T16	TRANSFORMER - CONV. OUTLET	12
7 3B10	MOTOR - EXHAUST/RTN FAN	23
3B9	MOTOR - SUPPLY FAN	23
3U72	V.F.D. - SUPPLY FAN	25

TERMINAL BLOCK USAGE	
DEVICE DESIG	DESCRIPTION
1TB4.1TB5.1TB16.1TB17	CONTROLS - CUSTOMER CONNECTIONS
1TB6-1TB10	CONTROLS - FACTORY
4TB2	POWER - ELECTRIC HEAT OPTION
4TB3	CONTROLS - ELECTRIC HEAT
4TB14. 4TB15	CONTROLS - GAS HEAT

CONTACTOR COIL LOCATION		
DEVICE DESIG	DESCRIPTION	LINE NUMBER
1K136	CONTACTOR - SUMP PUMP	156
1K137	CONTACTOR - SUMP HEATER	154
1K17	CONTACTOR - EXHAUST FAN	95
1K3	CONTACTOR - COMPRESSOR	135
1K5	CONTACTOR - COMPRESSOR	123

CAUTION

USE COPPER CONDUCTORS ONLY!

UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.

FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

ATTENTION

N'UTILISER QUE DES CONDUCTEURS EN CUIVRE!

LES BORNES DE L'UNITÉ NE SONT PAS CONÇUES POUR RECEVOIR D'AUTRES TYPES DE CONDUCTEURS.

L'UTILISATION DE TOUT AUTRE CONDUCTEUR PEUT ENDOMMAGER L'ÉQUIPEMENT.

PRECAUCIÓN

¡UTILICE ÚNICAMENTE CONDUCTORES DE COBRE!

LAS TERMINALES DE LA UNIDAD NO ESTÁN DISEÑADAS PARA ACEPTAR OTROS TIPOS DE CONDUCTORES.

SI NO LO HACE, PUEDE OCASIONAR DAÑO AL EQUIPO.

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TRANE

DRAWN BY: B. W. ALDEN
TRANE® DATE: 21-Feb-11
REPLACES: 2313-1008-B
REVISION DATE:
CAD SYSTEM USED: Pro/DIAGRAM
SIMILAR TO: --

FILE NUMBER: 2313-1092
DRAWING NUMBER: 2313-1094
SHEET: 1 OF 1
REV: A

ROOFTOP PACKAGED AIR CONDITIONER
DIAGRAM
POWER SCHEMATIC - 29 TON
EVAP COOLED W/ SUPPLY FAN V.F.D.
SCHEMATIC 1 OF 5