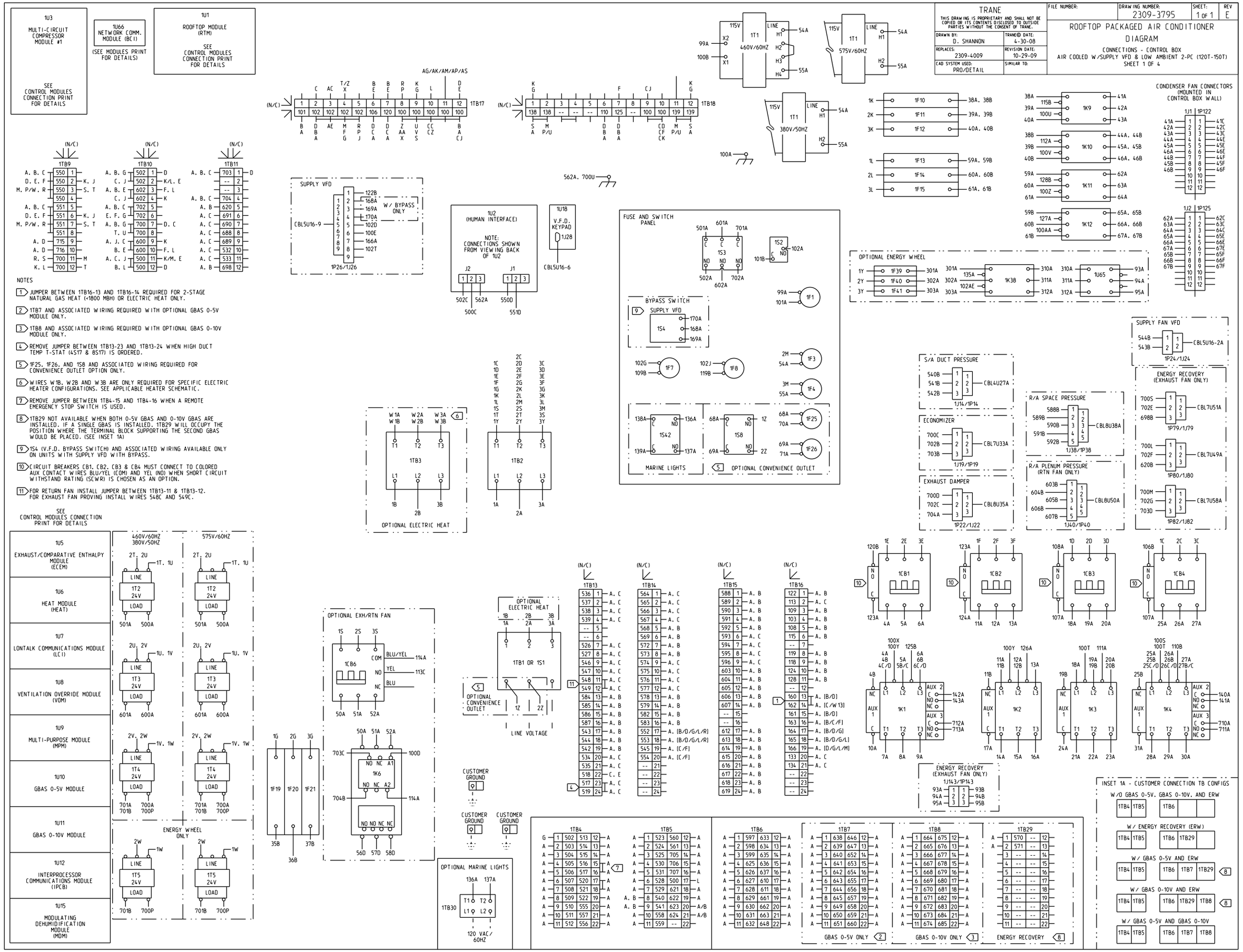
TRANE
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DRAWN BY: D. SHANNON
TRANE® DATE: 4-30-08
REPLACES: 2309-4009
REVISION DATE: 10-29-09
CAD SYSTEM USED: PRO/DETAIL
SIMILAR TO:
FILE NUMBER:
DRAWING NUMBER: 2309-3795
SHEET: 1 OF 1
REV E
ROOFTOP PACKAGED AIR CONDITIONER DIAGRAM
CONNECTIONS - CONTROL BOX
AIR COOLED W/SUPPLY VFD & LOW AMBIENT 2-PC (120T-150T)
SHEET 1 OF 4
1U3 MULTI-CIRCUIT COMPRESSOR MODULE #1
SEE CONTROL MODULES CONNECTION PRINT FOR DETAILS
1U66 NETWORK COMM. MODULE (BCI)
(SEE MODULES PRINT FOR DETAILS)
1U1 ROOFTOP MODULE (RTM)
SEE CONTROL MODULES CONNECTION PRINT FOR DETAILS
1TB17
1TB18
1T1 460V/60HZ
1T1 575V/60HZ
1T1 380V/50HZ
1TB9
1TB10
1TB11
NOTES
1 JUMPER BETWEEN 1TB16-13 AND 1TB16-14 REQUIRED FOR 2-STAGE NATURAL GAS HEAT (<1800 MBH) OR ELECTRIC HEAT ONLY.
2 1TB7 AND ASSOCIATED WIRING REQUIRED WITH OPTIONAL GBAS 0-5V MODULE ONLY.
3 1TB8 AND ASSOCIATED WIRING REQUIRED WITH OPTIONAL GBAS 0-10V MODULE ONLY.
4 REMOVE JUMPER BETWEEN 1TB13-23 AND 1TB13-24 WHEN HIGH DUCT TEMP T-STAT (4S17 & 8S17) IS ORDERED.
5 1F25, 1F26, AND 1S8 AND ASSOCIATED WIRING REQUIRED FOR CONVENIENCE OUTLET OPTION ONLY.
6 WIRES W1B, W2B AND W3B ARE ONLY REQUIRED FOR SPECIFIC ELECTRIC HEATER CONFIGURATIONS. SEE APPLICABLE HEATER SCHEMATIC.
7 REMOVE JUMPER BETWEEN 1TB4-15 AND 1TB4-16 WHEN A REMOTE EMERGENCY STOP SWITCH IS USED.
8 1TB29 NOT AVAILABLE WHEN BOTH 0-5V GBAS AND 0-10V GBAS ARE INSTALLED. IF A SINGLE GBAS IS INSTALLED, 1TB29 WILL OCCUPY THE POSITION WHERE THE TERMINAL BLOCK SUPPORTING THE SECOND GBAS WOULD BE PLACED. (SEE INSET 1A)
9 1S4 (V.F.D. BYPASS SWITCH) AND ASSOCIATED WIRING AVAILABLE ONLY ON UNITS WITH SUPPLY VFD WITH BYPASS.
10 CIRCUIT BREAKERS CB1, CB2, CB3 & CB4 MUST CONNECT TO COLORED AUX CONTACT WIRES BLU/YEL (COM) AND YEL (NO) WHEN SHORT CIRCUIT WITHSTAND RATING (SCWR) IS CHOSEN AS AN OPTION.
11 FOR RETURN FAN INSTALL JUMPER BETWEEN 1TB13-11 & 1TB13-12. FOR EXHAUST FAN PROVING INSTALL WIRES 548C AND 549C.
SEE CONTROL MODULES CONNECTION PRINT FOR DETAILS
1U5 EXHAUST/COMPARATIVE ENTHALPY MODULE (ECEM)
1U6 HEAT MODULE (HEAT)
1U7 LONTALK COMMUNICATIONS MODULE (LCI)
1U8 VENTILATION OVERRIDE MODULE (VOM)
1U9 MULTI-PURPOSE MODULE (MPM)
1U10 GBAS 0-5V MODULE
1U11 GBAS 0-10V MODULE
1U12 INTERPROCESSOR COMMUNICATIONS MODULE (IPCB)
1U15 MODULATING DEHUMIDIFICATION MODULE (MDM)
460V/60HZ 380V/50HZ
575V/60HZ
ENERGY WHEEL ONLY
SUPPLY VFD
CBL5U16-9
1P26/1J26
W/ BYPASS ONLY
1U2 (HUMAN INTERFACE)
NOTE: CONNECTIONS SHOWN FROM VIEWING BACK OF 1U2
1U18 V.F.D. KEYPAD
CBL5U16-6
FUSE AND SWITCH PANEL
BYPASS SWITCH
MARINE LIGHTS
OPTIONAL CONVENIENCE OUTLET
OPTIONAL ELECTRIC HEAT
OPTIONAL EXH/RTN FAN
OPTIONAL ELECTRIC HEAT
1TB1 OR 1S1
OPTIONAL CONVENIENCE OUTLET
LINE VOLTAGE
CUSTOMER GROUND
OPTIONAL MARINE LIGHTS
120 VAC/ 60HZ
CONDENSER FAN CONNECTORS (MOUNTED IN CONTROL BOX WALL)
1P122
1P125
OPTIONAL ENERGY WHEEL
SUPPLY FAN VFD
CBL5U16-2A
1P24/1J24
S/A DUCT PRESSURE
CBL4U27A
1J14/1P14
ECONOMIZER
CBL7U33A
1J19/1P19
EXHAUST DAMPER
CBL8U35A
1P22/1J22
R/A SPACE PRESSURE
CBL8U38A
1J38/1P38
R/A PLENUM PRESSURE (RTN FAN ONLY)
CBL8U50A
1J40/1P40
ENERGY RECOVERY (EXHAUST FAN ONLY)
CBL7U51A
1P79/1J79
CBL7U49A
1P80/1J80
CBL7U58A
1P82/1J82
ENERGY RECOVERY (EXHAUST FAN ONLY)
1J143/1P143
1CB1
1CB2
1CB3
1CB4
1K1
1K2
1K3
1K4
1K6
1CB6
1TB13
1TB14
1TB15
1TB16
1TB4
1TB5
1TB6
1TB7
1TB8
1TB29
GBAS 0-5V ONLY
GBAS 0-10V ONLY
ENERGY RECOVERY
INSET 1A - CUSTOMER CONNECTION TB CONFIGS
W/O GBAS 0-5V, GBAS 0-10V, AND ERW
W/ ENERGY RECOVERY (ERW)
W/ GBAS 0-5V AND ERW
W/ GBAS 0-10V AND ERW
W/ GBAS 0-5V AND GBAS 0-10V