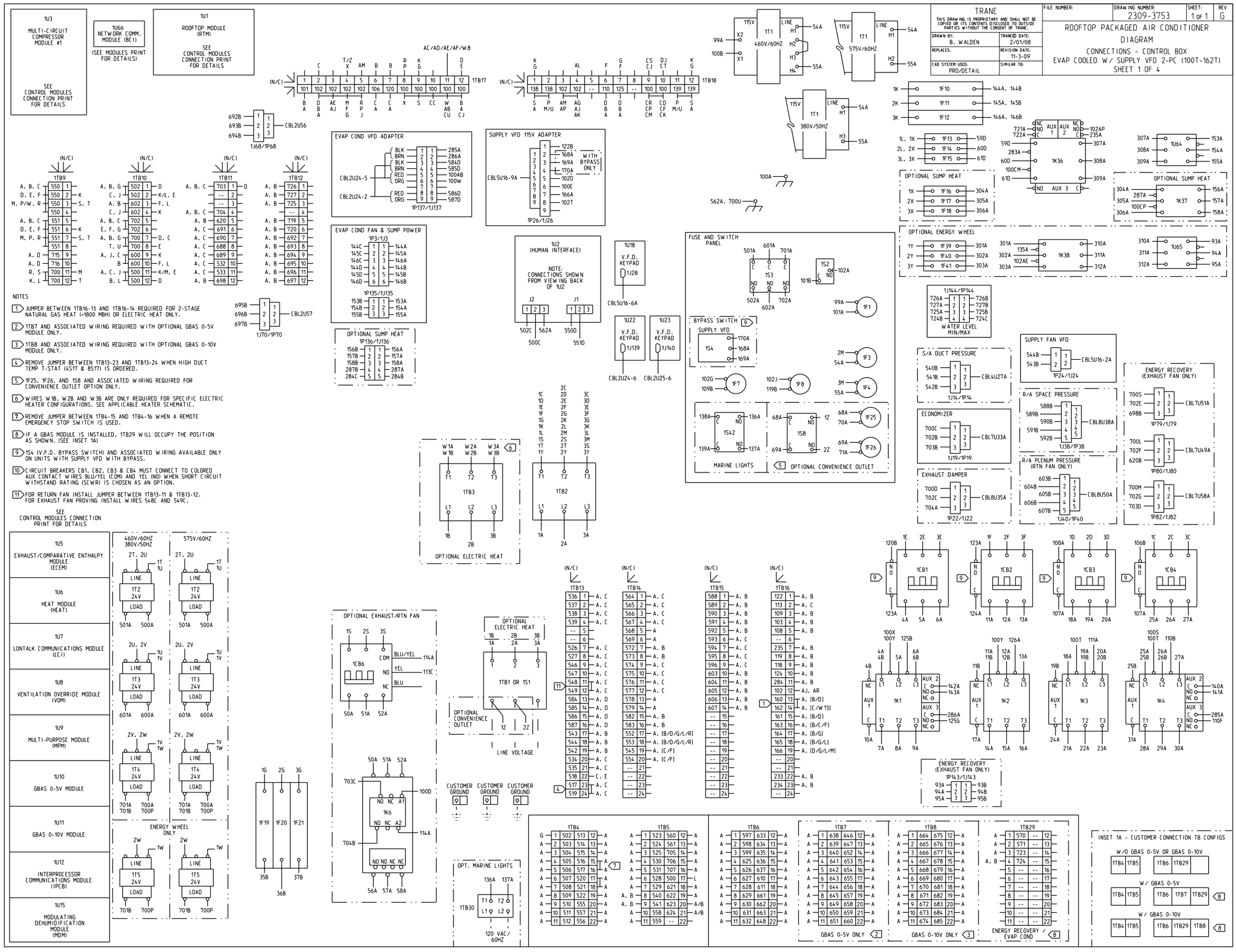
TRANE
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DRAWN BY: B. WALDEN
TRANE® DATE: 2/01/08
REPLACES:
REVISION DATE: 11-3-09
CAD SYSTEM USED: PRO/DETAIL
SIMILAR TO:
FILE NUMBER:
DRAWING NUMBER: 2309-3753
SHEET: 1 OF 1
REV G
ROOFTOP PACKAGED AIR CONDITIONER DIAGRAM
CONNECTIONS - CONTROL BOX
EVAP COOLED W/ SUPPLY VFD 2-PC (100T-162T)
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
AC/AD/AE/AF/W8
1TB17
1TB18
460V/60HZ
575V/60HZ
380V/50HZ
EVAP COND VFD ADAPTER
SUPPLY VFD 115V ADAPTER
WITH BYPASS ONLY
EVAP COND FAN & SUMP POWER
1U2 (HUMAN INTERFACE)
NOTE: CONNECTIONS SHOWN FROM VIEWING BACK OF 1U2
OPTIONAL SUMP HEAT
OPTIONAL ENERGY WHEEL
FUSE AND SWITCH PANEL
BYPASS SWITCH
SUPPLY VFD
MARINE LIGHTS
OPTIONAL CONVENIENCE OUTLET
WATER LEVEL MIN/MAX
S/A DUCT PRESSURE
SUPPLY FAN VFD
ECONOMIZER
R/A SPACE PRESSURE
ENERGY RECOVERY (EXHAUST FAN ONLY)
EXHAUST DAMPER
R/A PLENUM PRESSURE (RTN FAN ONLY)
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 IF A GBAS MODULE IS INSTALLED. 1TB29 WILL OCCUPY THE POSITION AS SHOWN. (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)
ENERGY WHEEL ONLY
OPTIONAL ELECTRIC HEAT
OPTIONAL EXHAUST/RTN FAN
OPTIONAL CONVENIENCE OUTLET
LINE VOLTAGE
CUSTOMER GROUND
OPT. MARINE LIGHTS
120 VAC/ 60HZ
GBAS 0-5V ONLY
GBAS 0-10V ONLY
ENERGY RECOVERY / EVAP COND
INSET 1A - CUSTOMER CONNECTION TB CONFIGS
W/O GBAS 0-5V OR GBAS 0-10V
W/ GBAS 0-5V
W/ GBAS 0-10V