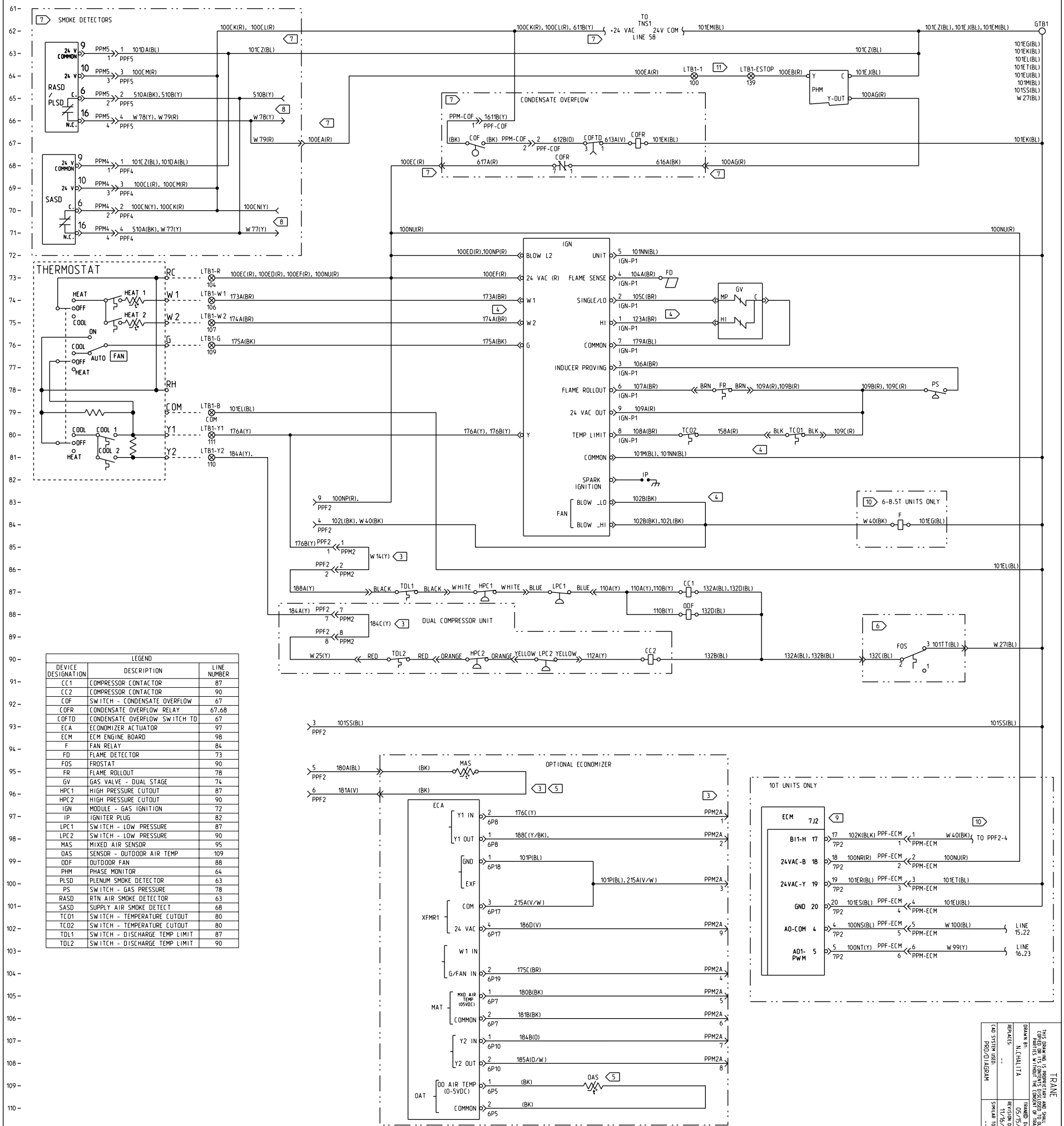

LEGEND		
DEVICE DESIGNATION	DESCRIPTION	LINE NUMBER
CC1	COMPRESSOR CONTACTOR	87
CC2	COMPRESSOR CONTACTOR	90
COF	SWITCH - CONDENSATE OVERFLOW	67
COFR	CONDENSATE OVERFLOW RELAY	67,68
COFTD	CONDENSATE OVERFLOW SWITCH TD	67
ECA	ECONOMIZER ACTUATOR	97
ECM	ECM ENGINE BOARD	98
F	FAN RELAY	84
FD	FLAME DETECTOR	73
FOS	FROSTAT	90
FR	FLAME ROLLOUT	78
GV	GAS VALVE - DUAL STAGE	74
HPC1	HIGH PRESSURE CUTOUT	87
HPC2	HIGH PRESSURE CUTOUT	90
IGN	MODULE - GAS IGNITION	72
IP	IGNITER PLUG	82
LPC1	SWITCH - LOW PRESSURE	87
LPC2	SWITCH - LOW PRESSURE	90
MAS	MIXED AIR SENSOR	95
OAS	SENSOR - OUTDOOR AIR TEMP	109
ODF	OUTDOOR FAN	88
PHM	PHASE MONITOR	64
PLSD	PLENUM SMOKE DETECTOR	63
PS	SWITCH - GAS PRESSURE	78
RASD	RTN AIR SMOKE DETECTOR	63
SASD	SUPPLY AIR SMOKE DETECT	68
TC01	SWITCH - TEMPERATURE CUTOUT	80
TC02	SWITCH - TEMPERATURE CUTOUT	80
TDL1	SWITCH - DISCHARGE TEMP LIMIT	87
TDL2	SWITCH - DISCHARGE TEMP LIMIT	90

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.

3 WHEN INSTALLING OPTIONAL ECONOMIZER. REMOVE CONFIG PLUG PPM2. AND CONNECT ECONOMIZER PLUG PPM2A TO PPF2. AND CONNECT MAS TO WIRES 180A AND 181A.

4 CONNECTIONS SHOWN ARE FOR 2-STAGE GAS HEAT OPERATION. WHEN 1-STAGE OPERATION IS REQUIRED. WIRE 102B IS REMOVED. WIRES 101NN AND 174A ARE NOT CONNECTED TO IGN. AND WIRE 123A IS NOT CONNECTED TO GV.

5 FOR MOTORIZED OUTSIDE AIR DAMPER. OPTIONAL MAS AND OAS (AND ASSOCIATED WIRING) ARE NOT USED.

6 CONNECTIONS SHOWN INCLUDE OPTIONAL FOS. IF FOS IS NOT INSTALLED. CONNECT WIRE 132A AND 132B TO WIRE W27

7 CONNECTIONS SHOWN INCLUDE OPTIONAL SMOKE DETECTORS AND CONDENSATE OVERFLOW. IF NONE OF THE SMOKE DETECTORS (RASD. PLSD OR SASD) ARE INSTALLED. CONNECT WIRE 100EA TO TNS1-24VAC. IF CONDENSATE OVERFLOW IS NOT INSTALLED. CONNECT WIRE 100EC TO WIRE 100AG.

8 CONNECTIONS SHOWN INCLUDE OPTIONAL SMOKE DETECTORS. THE FOLLOWING COMBINATIONS ARE ALLOWED: RASD ONLY. SASD ONLY. RASD & SASD. AND PLSD ONLY. IF RASD OR PLSD IS NOT INSTALLED. CONNECT WIRE 510B TO WIRE 515BW78. IF SASD IS NOT INSTALLED. CONNECT WIRE 100CN TO WIRE W77.

9 TO INCRESE/DECREASE VOLTAGE/RPM (SEE IDM RPM INDICATION TABLE):
A. PUSH AND HOLD THE SET BUTTON FOR 3 SEC. BOARD WILL DISPLAY MOTOR 1 PARAMETER NAME: HI 1.
B. SLOW PUSH SET AGAIN TO DISPLAY THE PARAMETER'S CURRENT VALUE = 4.50 VOLTS.
C. PUSH ON + OR - BUTTON TO ADJUST PARAMETER TO DESIRED VALUE = XXX VOLTS.
D. PUSH AND HOLD SET BUTTON FOR 3 SEC TO "SAVE" THE VALUE. AFTER SAVE IS COMPLETE. HI 1 WILL SHOW AGAIN.
E. AFTER THE VOLTAGE HI 1 IS SUCCESSFULLY CHANGED. THE DISPLAY SEQUENCE WILL BE:
MTR 1 --> XXX --> MTR2 --> 0.00 --> FST1 --> ON --> FST2 --> ON/OFF --> EhEn --> ON/OFF
AND THE MOTOR WILL RAMP UP OR DOWN TO ADJUST TO THE INPUT SIGNAL.

10 FOR 6-8.5T UNITS W40 IS TERMINATED AT FAN RELAY. FOR 10T UNITS W40 TERMINATED AT PPM-ECM-1.

11 TO SHUT DOWN THE UNIT FOR EMERGENCY STOP. REMOVE E-STOP JUMPER AND INSTALL FIELD SUPPLIED DEVICE.

12 CONNECTIONS SHOWN FOR DUAL STAGE GAS HEAT. SEE INSET A FOR SINGLE STAGE GAS HEAT OPERATION.

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TRANE

DRAWN BY: N.CHALLITA
TRANE® DATE: 05/15/2017
REPLACES: --
REVISION DATE: 11/16/2017
CAD SYSTEM USED: PRO/DIAGRAM
SIMILAR TO: --

FILE NUMBER:

PRECEDENT DIAGRAM
CONTROLS - GAS 6-10T STANDARD EFFICIENCY ELECTROMECHANICAL

DRAWING NUMBER: 1213244
SHEET: 1 OF 1
REV: C