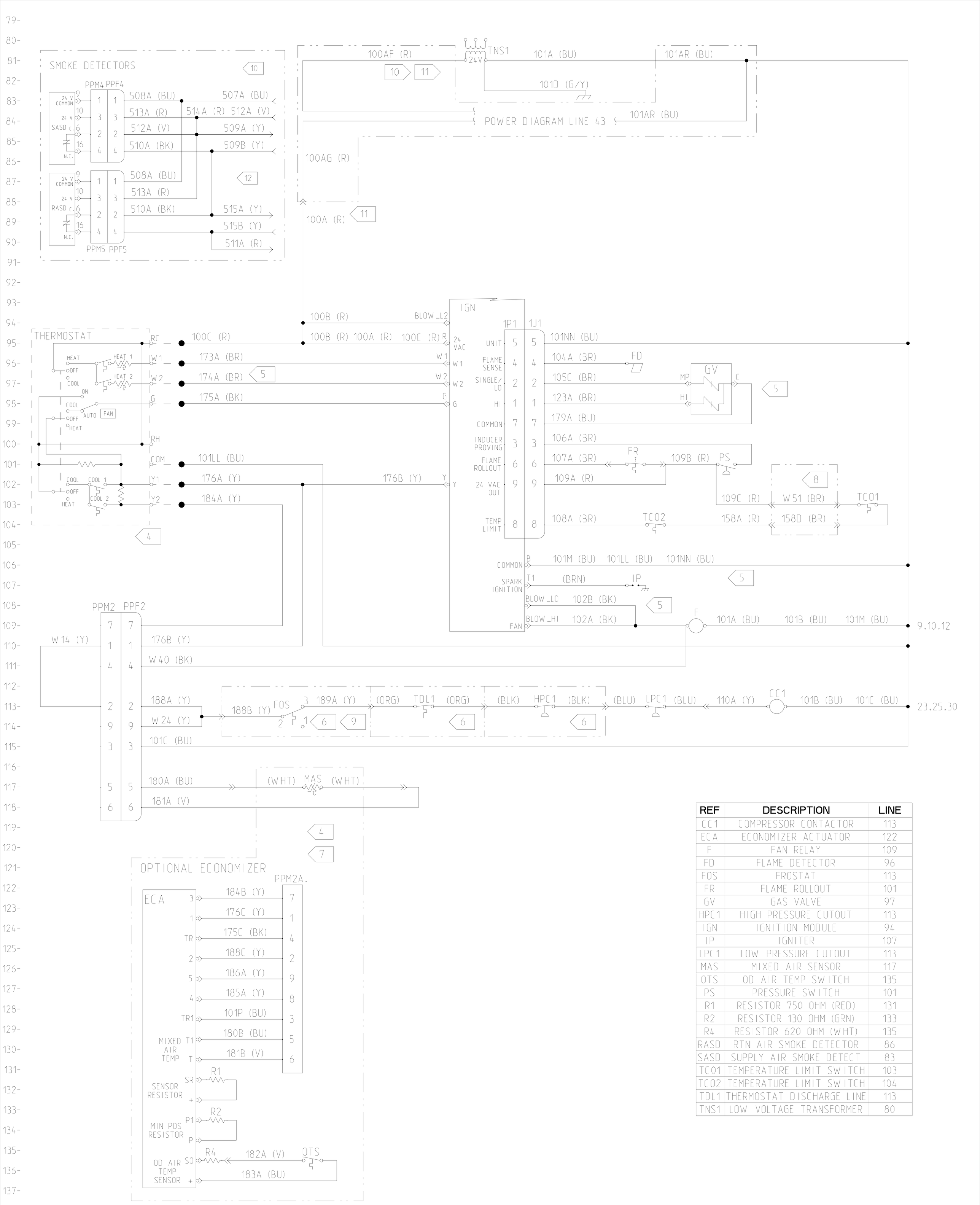


| REF | DESCRIPTION | LINE |
|---|---|---|
| CC1 | COMPRESSOR CONTACTOR | 113 |
| ECA | ECONOMIZER ACTUATOR | 122 |
| F | FAN RELAY | 109 |
| FD | FLAME DETECTOR | 96 |
| FOS | FROSTAT | 113 |
| FR | FLAME ROLLOUT | 101 |
| GV | GAS VALVE | 97 |
| HPC1 | HIGH PRESSURE CUTOUT | 113 |
| IGN | IGNITION MODULE | 94 |
| IP | IGNITER | 107 |
| LPC1 | LOW PRESSURE CUTOUT | 113 |
| MAS | MIXED AIR SENSOR | 117 |
| OTS | OD AIR TEMP SWITCH | 135 |
| PS | PRESSURE SWITCH | 101 |
| R1 | RESISTOR 750 OHM (RED) | 131 |
| R2 | RESISTOR 130 OHM (GRN) | 133 |
| R4 | RESISTOR 620 OHM (WHT) | 135 |
| RASD | RTN AIR SMOKE DETECTOR | 86 |
| SASD | SUPPLY AIR SMOKE DETECT | 83 |
| TC01 | TEMPERATURE LIMIT SWITCH | 103 |
| TC02 | TEMPERATURE LIMIT SWITCH | 104 |
| TDL1 | THERMOSTAT DISCHARGE LINE | 113 |
| TNS1 | LOW VOLTAGE TRANSFORMER | 80 |

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. NUMBERS ALONG THE RIGHT SIDE OF THE SCHEMATIC DESIGNATE THE LOCATION OF CONTACTS BY LINE NUMBER. AN UNDERLINED NUMBER INDICATES A NORMALLY CLOSED CONTACT.

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

5. (FUTURE) 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.

6. CONNECTIONS SHOWN INCLUDE FOS, TDL1, AND HPC1. IF NONE OF THESE OPTIONS ARE INSTALLED, CONNECT WIRE LPC1-BLU TO WIRES W24/188A. IF ANY OF ALL OF THESE OPTIONS ARE INSTALLED, CONNECT THEM IN SERIES AS SHOWN. (NOTE 9 FOR EXCEPTION)

7. FOR MOTORIZED OUTSIDE AIR DAMPER, OPTIONAL MAS AND OTS (AND ASSOCIATED WIRING) ARE NOT USED, AND R4 IS REMOVED BETWEEN SO AND +.

8. WHEN WIRES 158D AND W51 ARE NOT PRESENT, CONNECT WIRES 158A AND 109C DIRECTLY TO TC01.

9. FROSTAT CONNECTIONS/WIRE NUMBERS HAVE AN EXCEPTION. FOR ALL 4-5 TON UNITS WITH R410A REFRIGERANT AND HIGH EFFICIENCY, CONNECT WIRE 132C TO FOS PIN 2 AND 101TT TO FOS PIN 3.

10. WHEN INSTALLING OPTIONAL SMOKE DETECTOR (SD), CONNECT SASD PLUG PPM4 TO PPF4 AND RASD PLUG PPM5 TO PPF5. REMOVE 100AF OR 100A AS REQUIRED FROM TNS1, 24V PWR AND CONNECT TO 511A. CONNECT 514A/512A TO TNS1, 24V PWR. CONNECT 507A TO TNS1 SECONDARY COM.

11. OPTIONAL PHASE MONITOR (PHM) CONNECTIONS SHOWN. IF PHM NOT INSTALLED CONNECT WIRE 100A TO TNS1 24V PWR, OR WIRE 511A IF SD IS INSTALLED. WIRES 100AF, 100AG AND 101AR ARE NOT PRESENT.

12. CONNECTIONS SHOWN INCLUDE RASD AND SASD. IF RASD IS NOT INSTALLED, CONNECT 515A TO 515B. IF SASD IS NOT INSTALLED, CONNECT 509A TO 509B.

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DRAWN BY: K.Vickmark
© DATE: 30Aug2000
DO NOT SCALE PRINT
SIMILAR TO:
THIRD ANGLE PROJECTION

DIAGRAM
CONTROLS - GAS HEAT,
3-5 TON, EM CNTL,
OSZ-DD/BD IDM

4366-1027

REV N