

ELEVATION

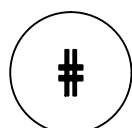
DESIGNER NOTES:

- PANEL APPROX. 3810mm[12'-6"]Wx610mm[2'-0"]Dx2438mm[8'-0"]H. SHOW ACTUAL SIZE ON DWGS.
- SOME RECORDING & MONITORING FUNCTIONS MAY BE HANDLED BY A COMPUTER WORK STATION & THEREFORE MAY BE DELETED FROM THIS PANEL.
- ON SOME PROJECTS, IT MAY BE DESIRABLE TO LOCATE EMERGENCY GENERATOR ANNUNCIATORS & METERS ON THIS PANEL.
- PROVIDE SMOKE DENSITY MONITORS ONLY ON PLANTS BURNING HEATED OIL OR WHERE REQUIRED BY LOCAL CODES.
- ON PLANTS WHERE DRAFT CONTROL SYSTEMS ARE PROVIDED, CONSIDER LOCATING THE DRAFT GAGES ON THIS PANEL ABOVE THE BOILER OPERATION RECORDERS. THE GAGES ARE NORMALLY LOCATED ON THE BURNER CONTROL PANELS.
- DELETE THE "ENGINEERING NOTES" FROM THE PROJECT DRAWINGS.

ITEM NO.

DESCRIPTION

- BOILER / BOILER PLANT DIGITAL DATA RECORDER
  - STEAM FLOW: INDICATE, RECORD, INTEGRATE, [0-\_\_\_\_\_ KG/S [LB/HR]]
  - BOILER OUTLET FLUE GAS TEMPERATURE: RECORD (0-500°C [0-1000°F])
  - FLUE GAS OXYGEN CONTENT: RECORD (0-10% OXYGEN)
  - HIGH PRESS STEAM DIST: RECORD, INTEGRATE, (0-\_\_\_\_\_ KG/S [LB/HR])
  - MED PRESS STEAM DIST: RECORD, INTEGRATE, (0-\_\_\_\_\_ KG/S [LB/HR])
  - LAUNDRY STEAM DIST: RECORD, INTEGRATE, (0-\_\_\_\_\_ KG/S [LB/HR])
  - BOILER PLANT STEAM: RECORD, INTEGRATE, (0-\_\_\_\_\_ KG/S [LB/HR])
  - STEAM HEADER PRESS: RECORD (0-2000 kPa [0-300 PSIG])
  - BOILER FEEDWATER TEMP: RECORD (0-150°C [0-300°F])
  - OUTSIDE AIR TEMP: RECORD (-35°C[-30°F] TO +50°C[+120°F])
- BOILER CONTROL STATIONS (MANUAL/AUTOMATIC, BIAS)  
(THESE CONTROL STATIONS MAY BE LOCATED ON THE BURNER CONTROL PANELS INSTEAD OF ON THE INSTRUMENTATION PANEL.)
  - COMBUSTION CONTROL SUBMASTER
  - DRAFT CONTROL (WHEN SPECIFIED)
  - OXYGEN TRIM (WHEN SPECIFIED)
- MASTER STEAM PRESSURE CONTROLLER
- CLOCK
- ALARM ANNUNCIATOR
  - CONDENSATE STORAGE TANK HIGH LEVEL
  - CONDENSATE STORAGE TANK LOW LEVEL
  - FEEDWATER HEATER HIGH LEVEL
  - FEEDWATER HEATER LOW LEVEL
  - HIGH STEAM HEADER PRESS
  - EMERGENCY GAS VALVE CLOSED
  - HIGH NATURAL GAS HEADER PRESS (SET AT 35 kPa [5 PSIG] ABOVE MAIN REGULATOR SET PRESS)
  - LP IGNITER GAS IN USE-FOR EMERGENCY ONLY (PROVIDE HIGH PRESS SWITCH SET AT 14 kPa [2 PSIG])
  - LOW EXCESS AIR BOILER NO. (PROVIDE ONE POINT FOR EACH BOILER, SET AT \_\_\_\_ % OXYGEN)
- ANNUNCIATOR ACKNOWLEDGE BUTTON
- ANNUNCIATOR TEST BUTTON
- ANNUNCIATOR BELL / HORN
- EMERGENCY GAS SAFETY SHUT OFF VALVE CONTROL
- PRESSURE GAGES
  - STEAM HEADER (0-1500 kPa [0-200 PSIG])
  - NATURAL GAS HEADER (0-100 kPa [0-15 PSIG])
  - FUEL OIL HEADER (0-1500 kPa [0-200 PSIG])
  - BOILER FEEDWATER HEADER (0-2000 kPa [0-300 PSIG]) (WHEN HEADER SERVING ALL BOILERS IS PROVIDED)
- START-STOP BUTTONS AND PILOT LIGHTS FOR PUMPS
- SMOKE DENSITY MONITOR (WHEN SPECIFIED)
- REMOTE REGISTER FOR GAS METER (WHEN SPECIFIED)
- FEEDWATER DEAERATOR TANK AND CONDENSATE STORAGE TANK WATER LEVEL CONTROL STATION



BOILER PLANT INSTRUMENTATION PANEL

NTS

DETAIL TITLE: BOILER PLANT INSTRUMENTATION PANEL

SCALE : NONE

DATE ISSUED: 11/01/2017

CAD DETAIL NO.: SD230911-04.DWG