EXIS	TING BOILERS,	RELO	OCATE	D F	ROM	MIDDLE	SCH	00L -	REFER	ТО	SPI	ECIFI	CATIONS	BASIS OF DESIGN: DeDietrich / Buderus
SYMBOL	TYPE	INF MBH	PUT #2 OIL GPH	OUT MBH NET WATER	BOILER H.P.	SQ. FT. OF HEATING SURFACE	RELIEF VALVES	MAXIMUM WORKING PRESSURE	MODEL		RPM	IRNER MO HP	TOR DATA  ELEC.	REMARKS
B-1/2/3	GAS/OIL, CAST IRON, WATER	5715	39.5	4102	140.9	417.0 MIN.	45 PSI	82 PSI	GTE523A		3450	5	208V-3ø	DUAL FUEL "INDUSTRIAL COMBUSTION" POWER BURNER

	EXPAN	BASIS OF DESIGN: BELL & GOSSETT				
SYMBOL	TANK VOLUME GALLONS	ACCEPT. VOL. GALLONS	DIA. (IN.)	IZE LENGTH (IN.)	MODEL	REMARKS
EX-1	211	211	30	82	B-800	
EX-2	211	211	30	82	B-800	

NOTES	1.	BOILER	SHALL	BE	EQUIPPED	WITH A	REMOTE	MOUNTED	OIL	PUMP	1	HP	208V-3ø	AND	SEPARATE	CONTROL	PANE

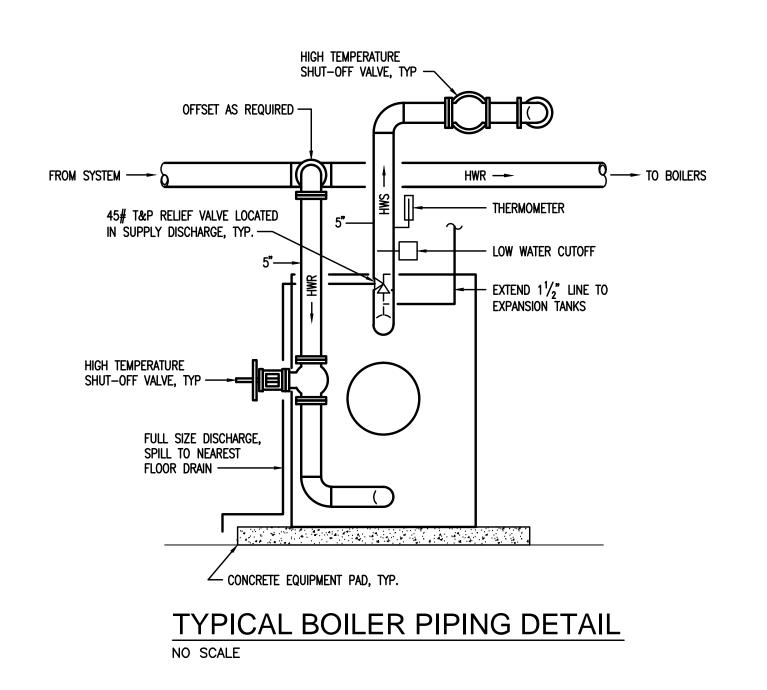
GAS	<u>Basis of Design:</u> Reznor										
SYMBOL	FAN DATA				INPUT	ОИТРИТ	CFH	MOUNTING	MODEL	REMARKS	
SIMBOL	CFM	RPM	H.P.	P. ELECTRICAL (MBH) (MBH) NAT. MOUNTING	MOONTING	MODEL	NEWANNS				
GUH-1	3202	1050	1/4	120V-1ø	250.0	207.5	250.0	OVERHEAD	UDSA250	POWER VENTED, SEALED COMBUSTION UNIT	

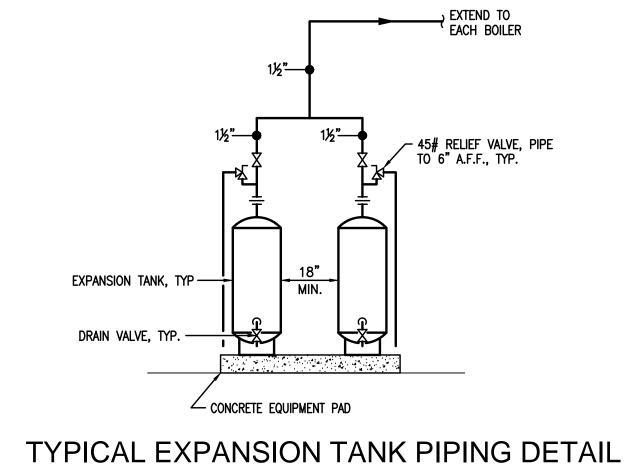
NO SCALE

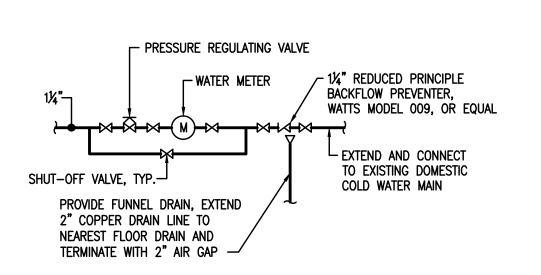
	PUM	1P S	BASIS OF DESIGN: BELL AND GOSSETT					
SYMBOL	G.P.M.	HEAD		PUMP MOTOR			MODEL	REMARKS
STMBOL	G.P.M.	HEAD	H.P	R.P.M.	ELECTRIC	EFFICIENCY	MODEL	REMARKS
P-9	360	40	7.5	1750	208V-3ø	74%	SERIES 1510 - 3BC	

NOTES: 1. MODEL NUMBERS ARE INDICATED FOR REFERENCE ONLY. THE DUTIES AND CAPACITIES ARE TO BE USED FOR FINAL UNIT SELECTION BY THE MANUFACTURER.

2. PROVIDE FACH UNIT WITH NON-FUSED DISCONNECT SWITCH AND VERTICAL

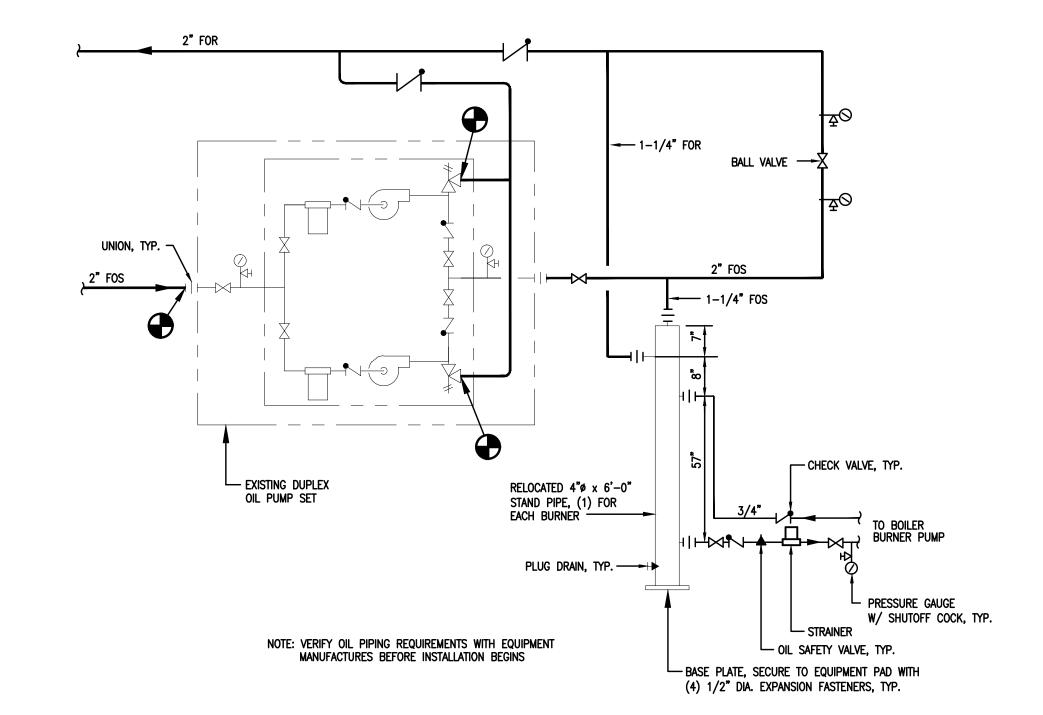




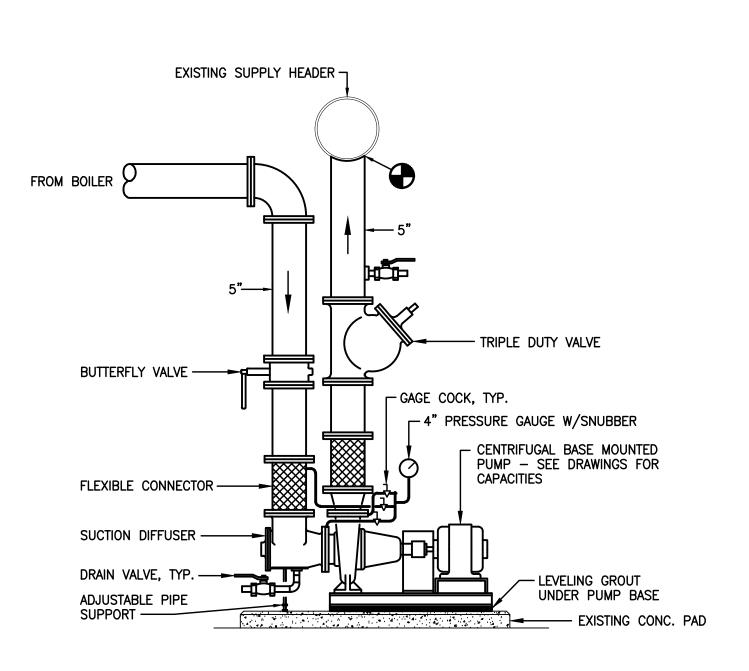


MAKE-UP WATER PIPING DETAIL

NO SCALE



OIL PIPING SCHEMATIC
NO SCALE



BASE MOUNTED PUMP DETAIL

NO SCALE

## **IMPORTANT GENERAL NOTES:**

- 1) ALL CUTTING AND PATCHING SHALL BE BY THE CONTRACTOR.
- 2) THE TERMS 'MECHANICAL CONTRACTOR', 'MECH. CONTRACTOR', 'HVAC CONTRACTOR', OR 'THE CONTRACTOR', ETC. ALL REFER TO THE CONTRACTOR RESPONSIBLE FOR THE INSTALLATION OF THE WORK PRESENTED ON DRAWINGS
- 3) COMPLETE ALL DEMOLITION IN A PROFESSIONAL MANOR. COORDINATED DEMOLITION WITH THE OWNER. COORDINATE ANY SERVICE SHUT DOWN WITH THE OWNER.
- ANY SERVICE SHUT DOWN WITH THE OWNER.
- 4) THE EXISTING H.B. SMITH BOILERS MUST BE DISMANTLED AND REMOVED FROM THE BOILER ROOM IN SECTIONS. THIS CONTRACTOR SHALL ALSO REMOVE THE EXISTING COMBUSTION CHAMBER IN PIECES.
- 5) THIS CONTRACTOR SHALL BE RESPONSIBLE TO COMPLETE THE WIRING FROM THE NEW BOILER CONTROLS AND DEVICES TO THE EXISTING MAIN SIEMENS CONTROLLER. THIS WORK MUST BE COMPLETED BY THE DISTRICT'S "SIEMENS" INSTALLER. SEE SPECIFICATION SECTION 15900.
- 6) THIS CONTRACTOR IS RESPONSIBLE TO PAINT THE ENTIRE BOILER ROOM. THE CONTRACTOR SHALL PAINT THE FLOORS, ENTIRE CATWALK AND STAIRS GRAY AND THE WALLS WHITE. COMPLETELY CLEAN AND PRIME SURFACES IN ACCORDANCE WITH THE PAINT MANUF. RECOMMENDATIONS. APPLY ONE PRIME COAT AND TWO FINAL COATS. PROVIDE PAINT SEALER ON WALLS AND FLOOR. IN ADDITION PAINT ALL EXISTING AND NEW GAS AND GAS VENT PIPING YELLOW.
- 7) MAINTAIN 30" MIN. CLEAR AROUND ALL SIDES OF THE BOILERS INCLUDING ALL PIPING OR APPURTENANCES.
- 8) FULLY REPLACE ANY SECTIONS OF EXISTING PIPE OR FLUE INSULATION WHICH IS DAMAGED BY THE NEW INSTALLATIONS.

## LEGEND AND ABBREVIATIONS

7	MANUAL AIR VENT		CONNECT NEW TO EXISTING
	FLOW METER		EXTENT OF REMOVAL OR REMOVE TO THIS POINT
	CALIBRATED PLUG VALVE	Ф	THERMOMETER
<u>A</u>	AQUASTAT	E	EMERGENCY BOILER SHUT- OFF SWITCH
1	CHECK VALVE		
<del>-</del> X-	2-WAY MODULATING CONTROL VALVE	① —	THERMOSTAT
<b>£</b>		FS	FLOW SWITCH
<b>-</b>	3-WAY MODULATING CONTROL VALVE	M ////	MOTOR OPERATED DAMPER
<b>→ ⊢</b>	UNION OR FLANGE CONNECTION	—— HWS ——	HOT WATER SUPPLY PIPING
— <del> </del> —	SHUT OFF VALVE	—— HWR ——	HOT WATER RETURN PIPING
<b>→</b>	BUTTERFLY VALVE		
<b>→</b>	BACKFLOW PREVENTER	— FOS —	FUEL OIL PIPING SUPPLY
<b>→</b> ₩ <b>-</b>	TRIPLE DUTY VALVE	—— FOR ——	FUEL OIL PIPING RETURN
<u>_</u>	OS&Y VALVE	V	GAS VENT PIPING
	PRESSURE REGULATING VALVE	——G——	GAS PIPING
			DOMESTIC COLD WATER
<b>₹</b>	RELIEF VALVE		DOMESTIC HOT WATER
<u>-w-</u>	FLEX PIPE CONNECTION		DOMESTIC HOT WATER RETU
<del>\</del>	STRAINER	<del></del> 140	DOMESTIC 140° HOT WATER
9	PRESSURE GAUGE WITH SNUBBER	SUP.	SUPPLY
'1		PSI	POUNDS PER SQUARE INCH
<b>→</b> ▽	GAS REGULATOR	QTY	QUANTITY
<del>-</del>	GAS COCK	AFF	ABOVE FINISHED FLOOR
BD	BAROMETRIC DAMPER	DWG	DRAWING
ABV.	ABOVE	CFM	CUBIC FEET PER MINUTE
BEL.	BELOW	W/	WITH
CLG.	CEILING	CLG.	CEILING
EXIST.	EXISTING	GPM	GALLONS PER MINUTE
FLR.	FLOOR	CONN	CONNECTION
M.O.D.	MOTOR OPERATED DAMPER	N.C.	NORMALLY CLOSED
TYP.	TYPICAL		

C.S. CIRCUIT SETTER

REVISIONS BY

CONSOLIDATED

I N G I N E E R S

022 James Drive
eesport, PA 19533
el 610-916-1600 Fax 610-916-1610

DRAWN
RLC
CHECKED
FB
DATE
11-22-11
SCALE
AS NOTED
JOB NO.
11-2051-1
SHEET

M-3

<sup>2.</sup> PROVIDE EACH UNIT WITH NON-FUSED DISCONNECT SWITCH AND VERTICAL COMBUSTION AIR/VENT KIT INCLUDING CONCENTRIC ADAPTOR MODEL CC2 AND WALL MOUNTED THERMOSTAT.