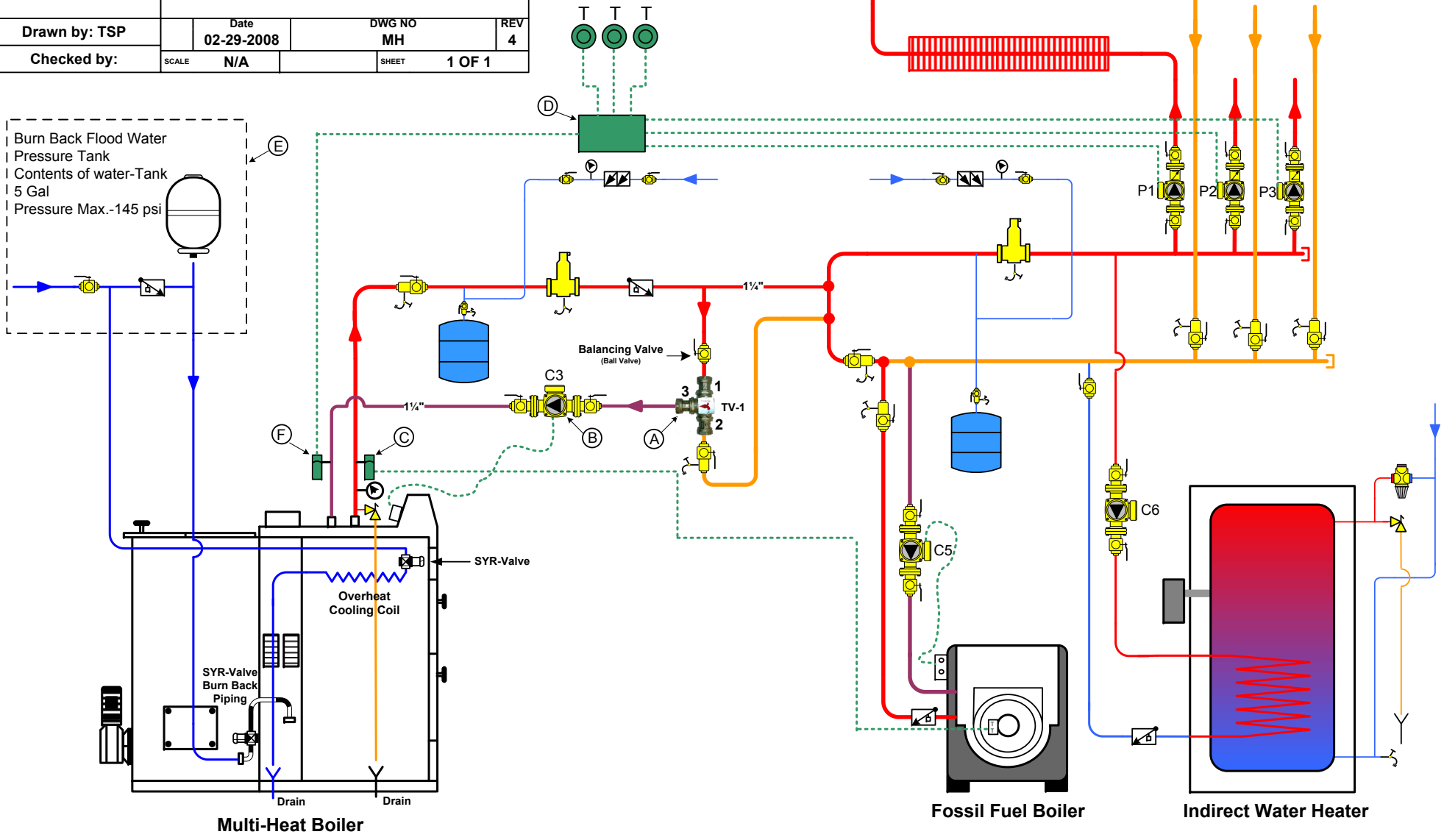
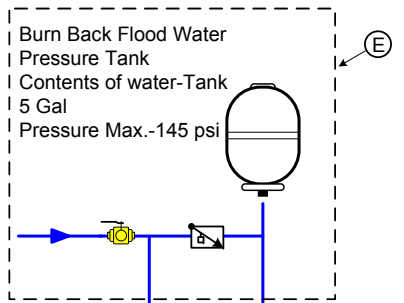


<b>BioHeat USA, Inc</b> 4 Britton Lane Lyme, NH 03768	<b>BioHeat Piping Layout Concept Diagram</b>		
	<b>Multi-Heat Boiler Installation with Circulators</b>		
<b>Drawn by: TSP</b>	Date <b>02-29-2008</b>	DWG NO <b>MH</b>	REV <b>4</b>
<b>Checked by:</b>	SCALE <b>N/A</b>	SHEET <b>1 OF 1</b>	



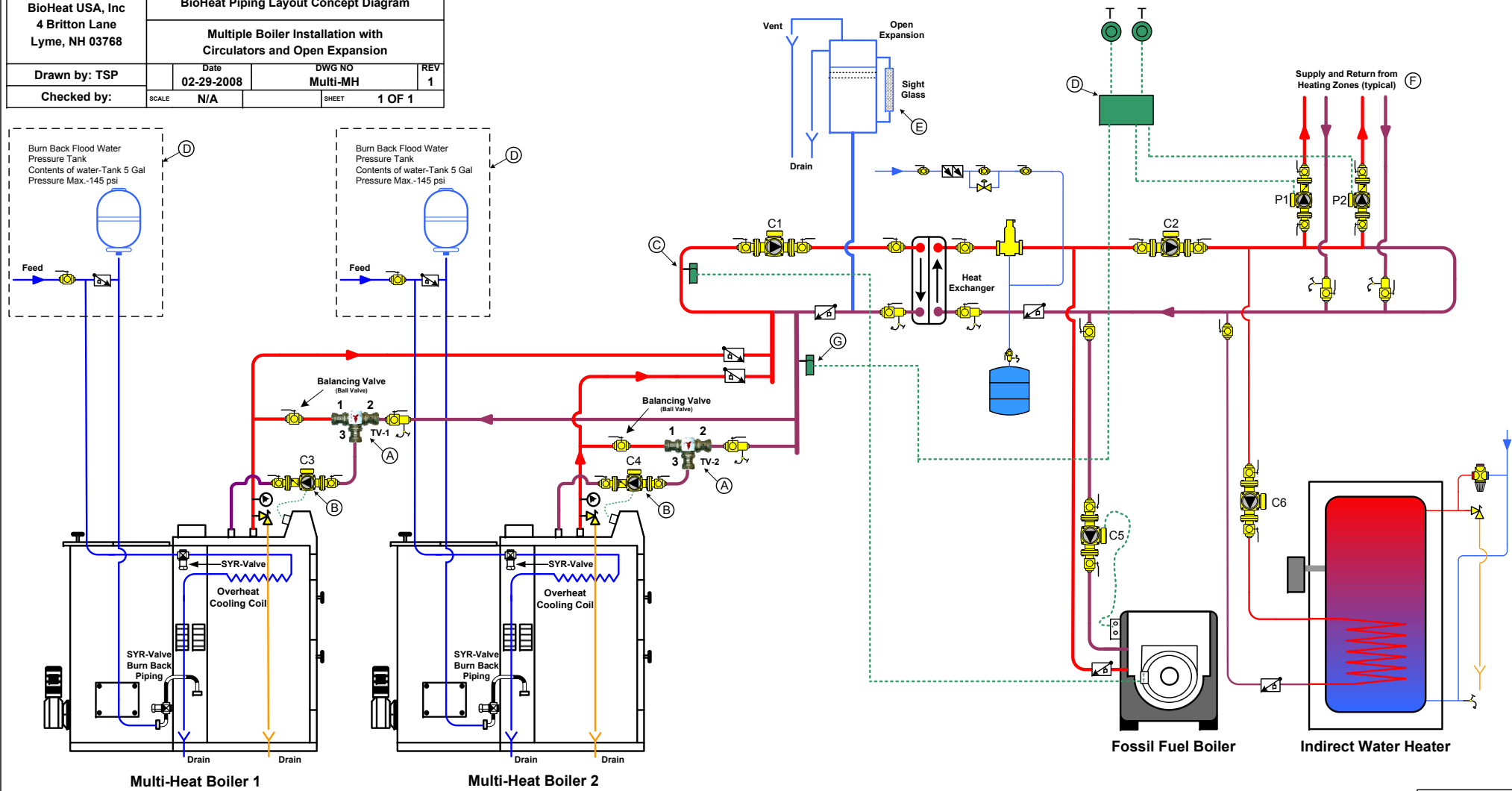
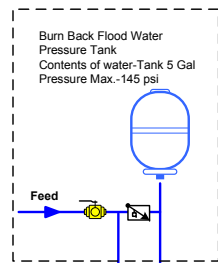
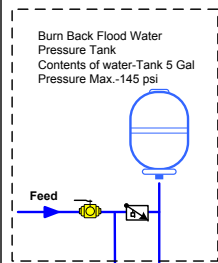
**Symbol Key**

- Ball Valve**
- Purging Valve**
- Weighted Check Valve**
- Pressure Relief Valve**
- Pressure Reducing Valve**
- Air Separator**
- Circulator (w/isolation flanges)**
- Boiler Drain**
- Backflow Preventer**
- Termovar Valve**

- Notes:**
- (A) Termovar Mixing Valve with 61°C element. A Balancing Valve Must be Used above Port 1 when Kit # K4440A-3 is used
  - (B) The boiler's C-3 circulator needs to wired through a switch or RIB relay as per owner's manual. (Part # RIBU1C)
  - (C) An aquastat can be used to switch on fossil fuel boiler. Honeywell aquastat L4006A or equivalent. (Part # L4006A)
  - (D) Circulator or Zone Valve Controller
  - (E) Domestic cold water is connected as shown for Model 1.5 and 2.5. Model 4.0 has only one connection to the SYR-Valve burn back piping.
  - (F) An aquastat is used to prevent the boiler from going into stand-by for extended periods of time. It is set to a few degrees above the boiler's set-point and needs to activate a heating circuit that is at least 10% of the boiler's rated output. A Honeywell L6006C or equivalent can be used. (Part # L6006C)

Note: This is only a concept drawing. Final design, installation and code compliance details are the responsibility of the designer/installer of the system.

<b>BioHeat USA, Inc</b> 4 Britton Lane Lyme, NH 03768		<b>BioHeat Piping Layout Concept Diagram</b>		
<b>Multiple Boiler Installation with Circulators and Open Expansion</b>				
Drawn by: TSP	Date 02-29-2008	DWG NO Multi-MH	REV 1	
Checked by:	SCALE N/A	SHEET 1 OF 1		



Symbol Key	
Ball Valve	
Purging Valve	
Weighted Check Valve	
Pressure Relief Valve	
Pressure Reducing Valve	
Air Separator	
Circulator	
Boiler Drain	
Backflow Preventer	
Terminator Valve	

- Notes:
- (A) Terminator Mixing Valve with 61 °C element. Balancing Valve Must be Used above Port 1.
  - (B) The boiler's C-3 circulator needs to be wired through a switch or RIB relay as per owner's manual. (Part # RIBU1C)
  - (C) An aquastat or sensor can be used to switch on fossil fuel boiler.
  - (D) Domestic cold water is connected as shown for Model 1.5 and 2.5. Model 4.0 has only one connection to the SYR-Valve burn back piping.
  - (E) Open Expansion Tank-Please refer to Bio-Heat Open Expansion Bulletin for more information.
  - (F) It is necessary to have a minimum constant load on the boiler when it is operating to prevent it from going into stand-by mode for long periods of time.
  - (G) An aquastat is used to prevent the boiler from going into stand-by for extended periods of time. It is set to a few degrees above the boiler's set-point and needs to activate a heating circuit that is at least 10% of the boiler's rated output. A Honeywell L6006C or equivalent can be used. (Tarm Part # L6006C)

Note: This is only a concept drawing. Final design, installation and code compliance details are the responsibility of the designer/installer of the system.