Application:
Cast iron high mass boiler c/w 2 circuits
(two low temp. circuit - fully automatic modulating water temperature for floor heating and snow melting.)
(snow melting circuit utilizes an isolation loop for proper mixing valve operation)

Control Sequence:
• Indoor/outdoor and SnowMelt control unit provides the correct water temperature for the HeatLink® radiant floor heating & snow melting systems. By correlating outside air temperature, supply water temperature & room temperature for the floor heating circuit, supply and return system water, boiler return water & slab temperature for the snow melt circuit the control units then activate their respective 4-way mixing valve motors which in turn modulate the supply water temperatures to the floor & snow melting circuits. (See ELECT 1.12 & 1.13).
• Boiler to fire either: 1) Independently on its own operating aquastat which in turn controls boiler water temperature or 2) By activation through a relay of the controllers. APPLICATION TO USE OPTION (____). (Note: Wire gas valve in series with high limit safety aquastat.)
• Primary pump (P-3) to be wired through a relay which will be activated by the snow melt or floor heating controllers (see ELECT 2.3).
• Pumps (P-1, P-2, P-3) to be wired directly with their own disconnect switches. System pumps (P-1 & P-2) to operate either: 1) Continually or 2) By activation through a relay of the respective indoor/outdoor or snowmelt controllers. (See ELECT 2.3)
FOR THIS PARTICULAR APPLICATION P-1 TO OPERATE AS PER OPTION (_____), & P-2 AS PER OPTION (___)