

4. Connect DHW (domestic hot water) piping to indirect storage water heater as shown.

M. PIPING DETAILS

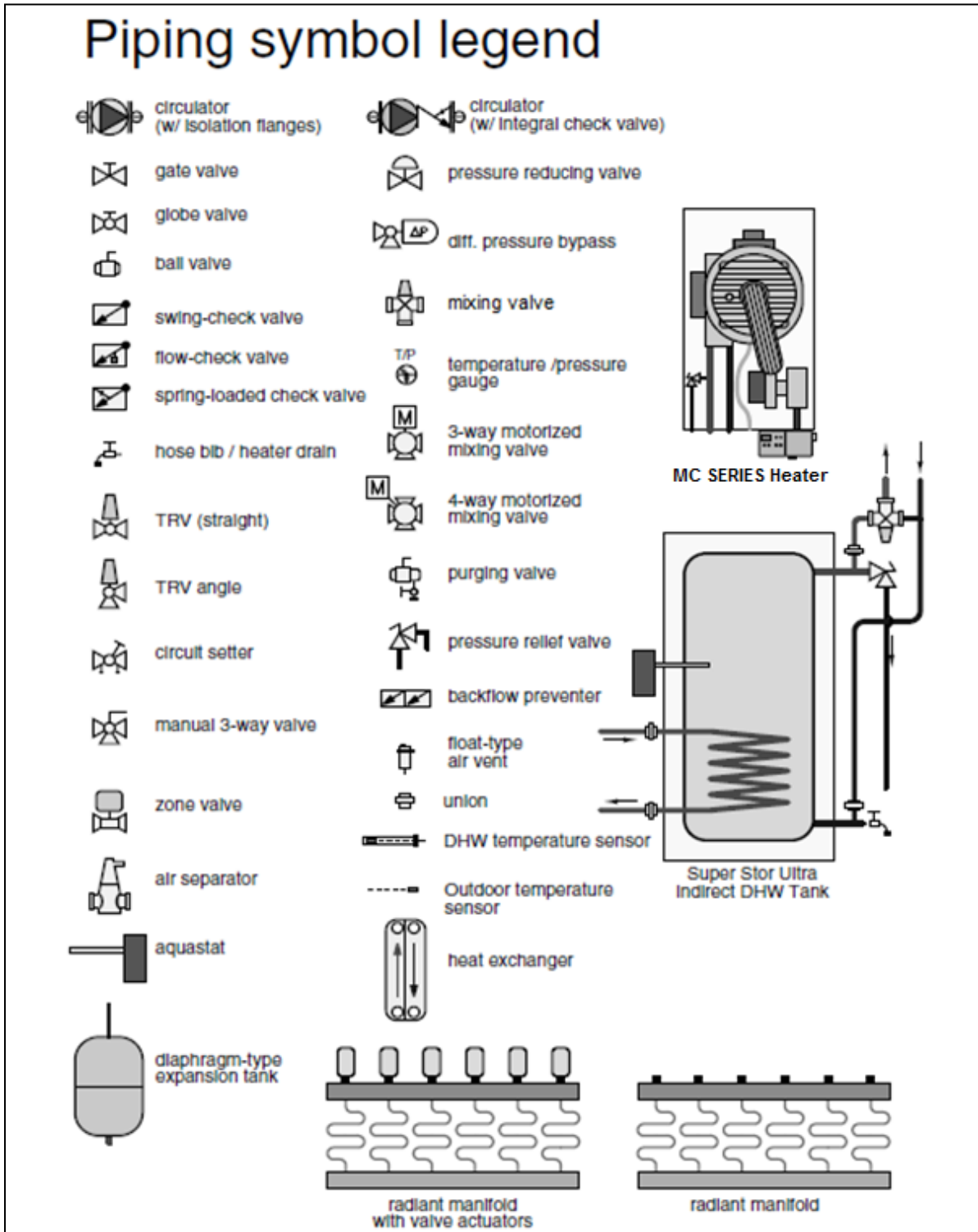


Figure 5

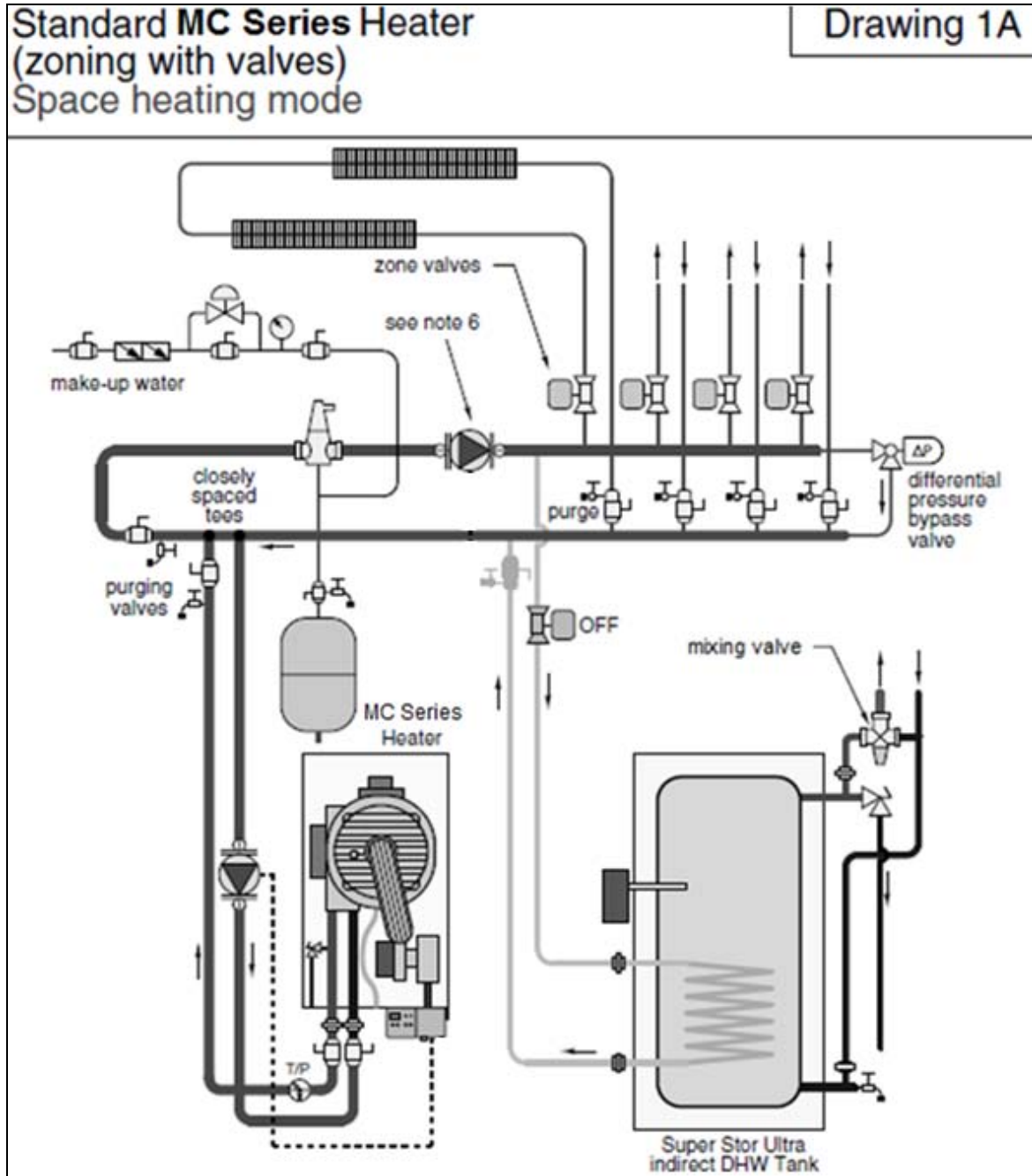


Figure 6

NOTES:

1. This drawing is meant to demonstrate system piping concept only. Installer is responsible for all equipment and detailing required by local codes.
2. All closely spaced tees shall be within 4 pipe diameters center to center spacing.
3. A minimum of 6 pipe diameters of straight pipe shall be installed upstream and downstream of all closely spaced tees.
4. The **minimum** pipe size for connecting an indirect water heater is 1".
5. The **minimum** pipe size for connecting the unit is 1.25".
6. Circulators are shown with isolation flanges. The alternative is standard flanges with full port ball valves. Purge valves can be used with the circulator flanges as an alternative.
7. The anti-scald mixing valve is recommended if the DHW temperature is set above the factory setting of 119°F.
8. Install a minimum of 12 diameters of straight pipe upstream of all circulators.
9. **Winterization:** When winterizing the unit, put a drain valve on both the supply and return between the union and the shut-off connection.

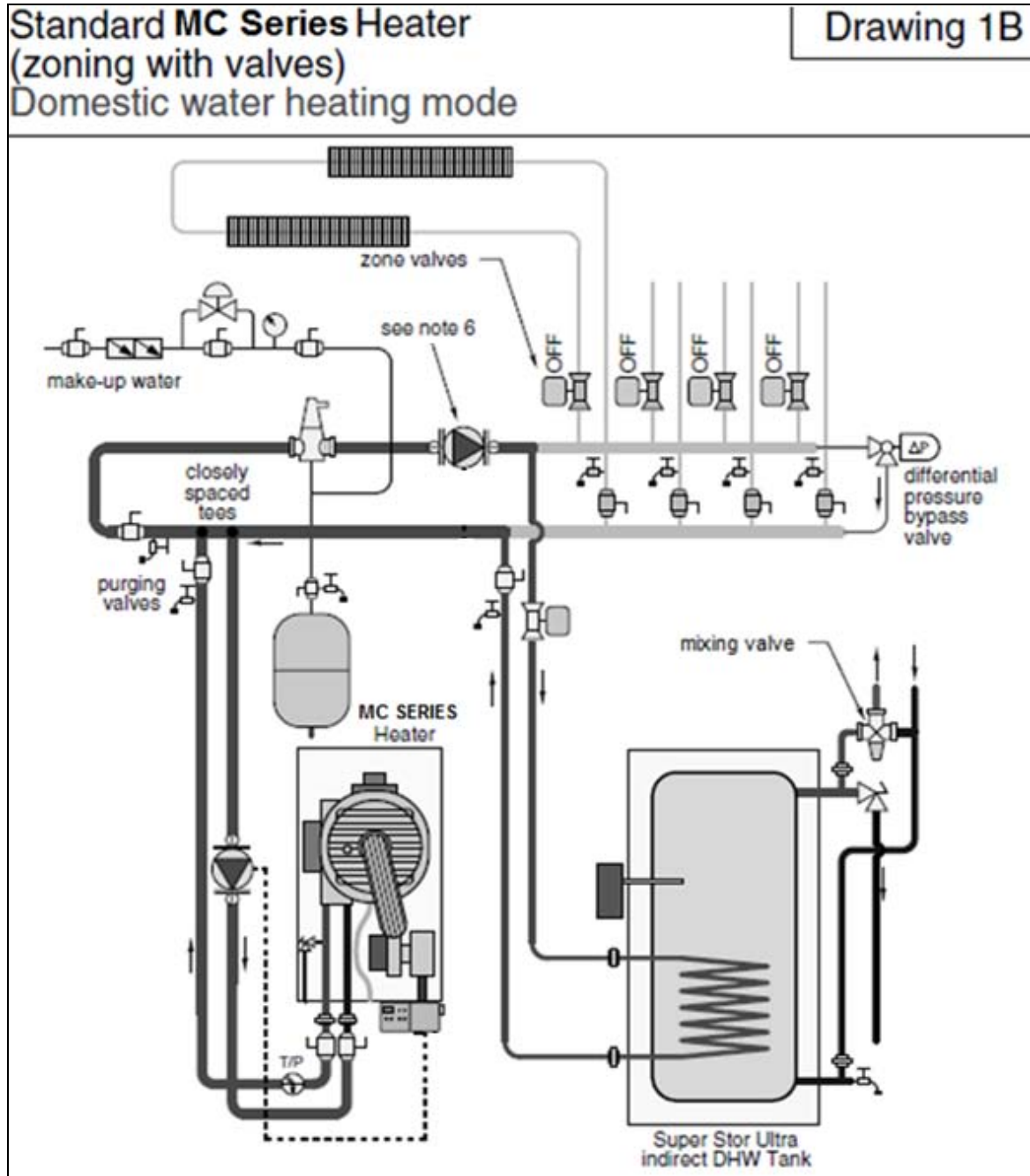


Figure 7

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Standard MC Series Heater Preferred piping (zoning with circulators) Space heating mode

Drawing 1C

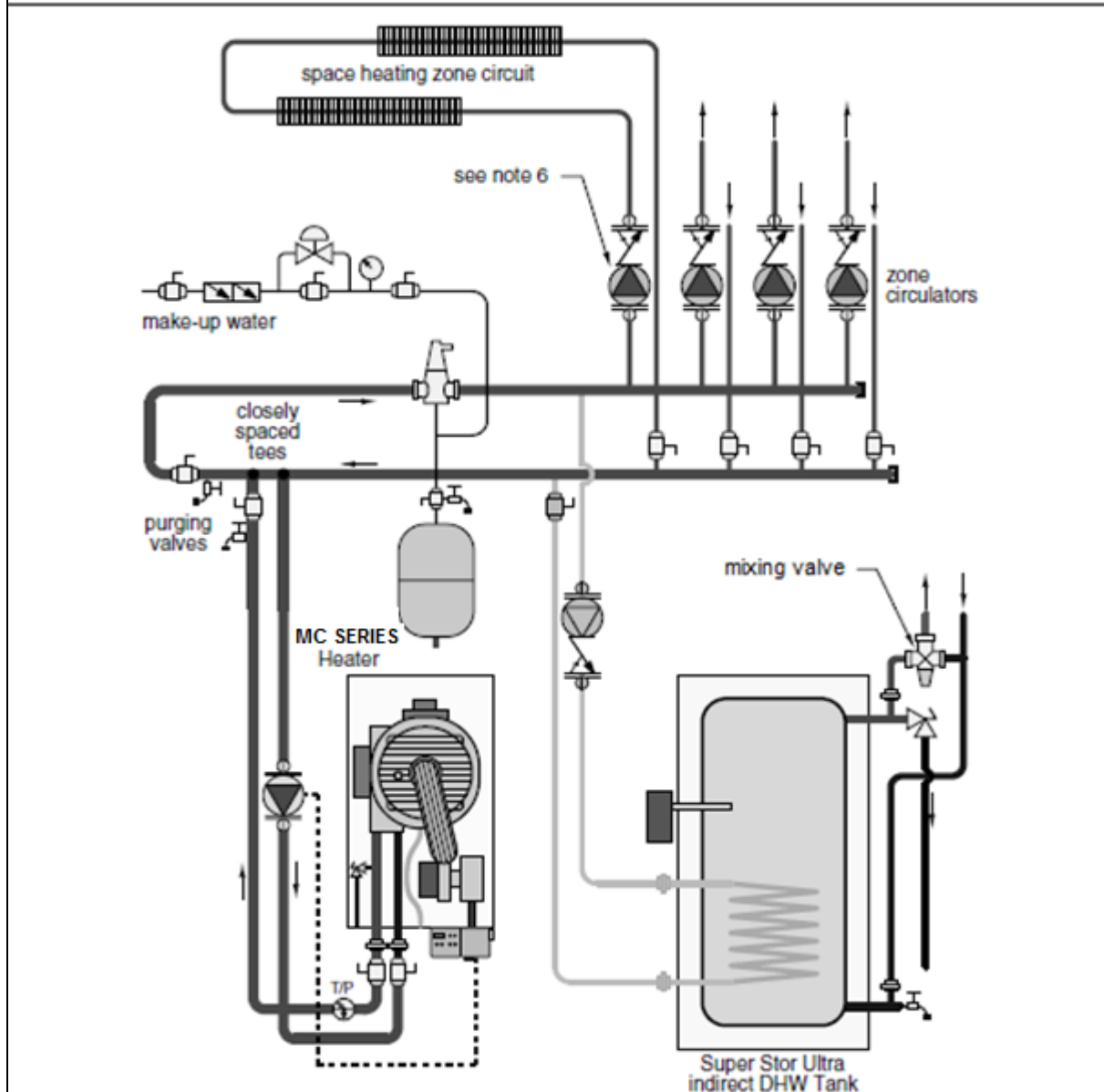


Figure 8

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9. **Winterization:** When winterizing the unit, put a drain valve on both the supply and return between the union and the shut-off connection.

Standard MC Series Heater (zoning with circulators) Domestic water heating mode

Drawing 1D

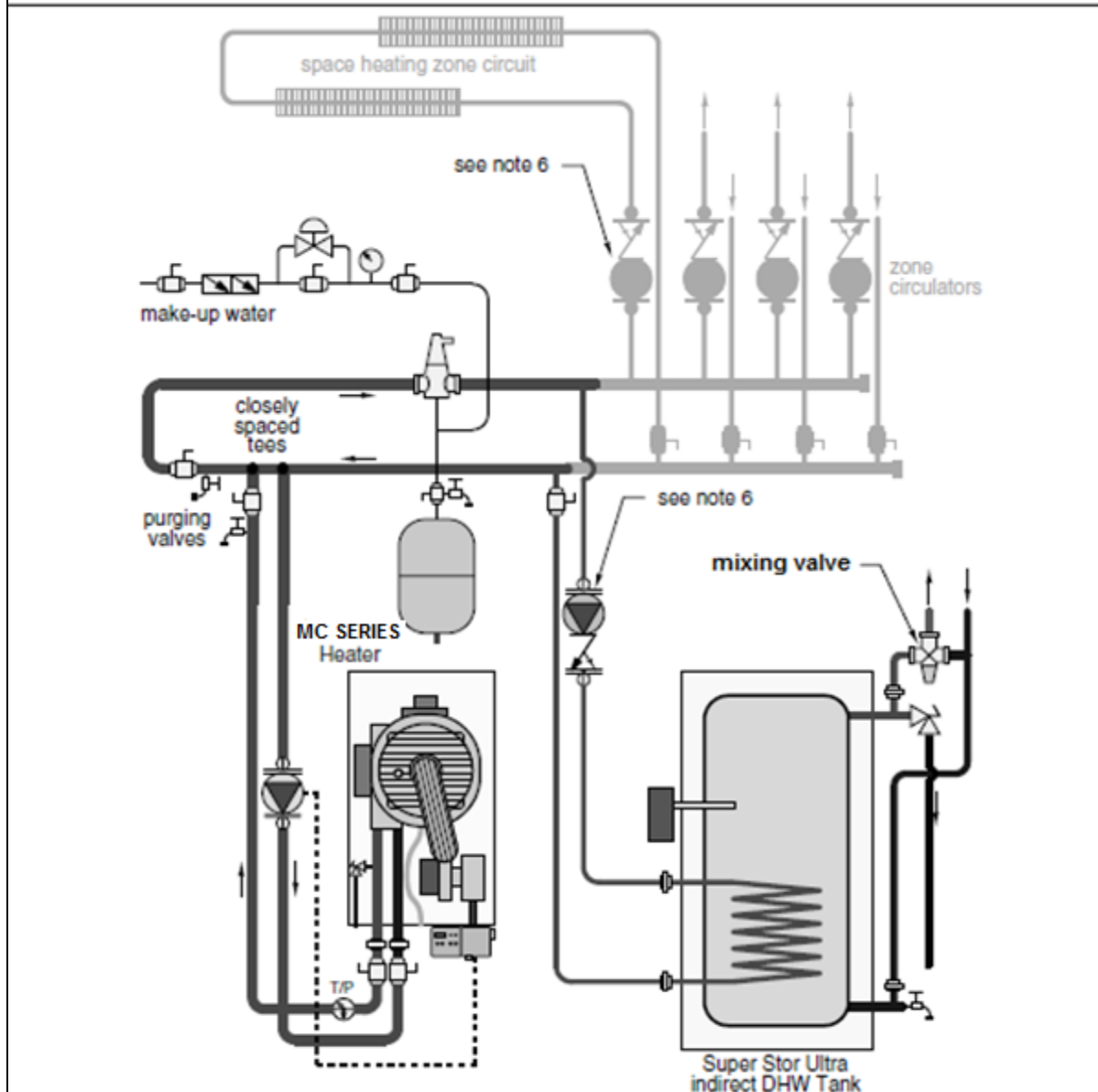


Figure 9

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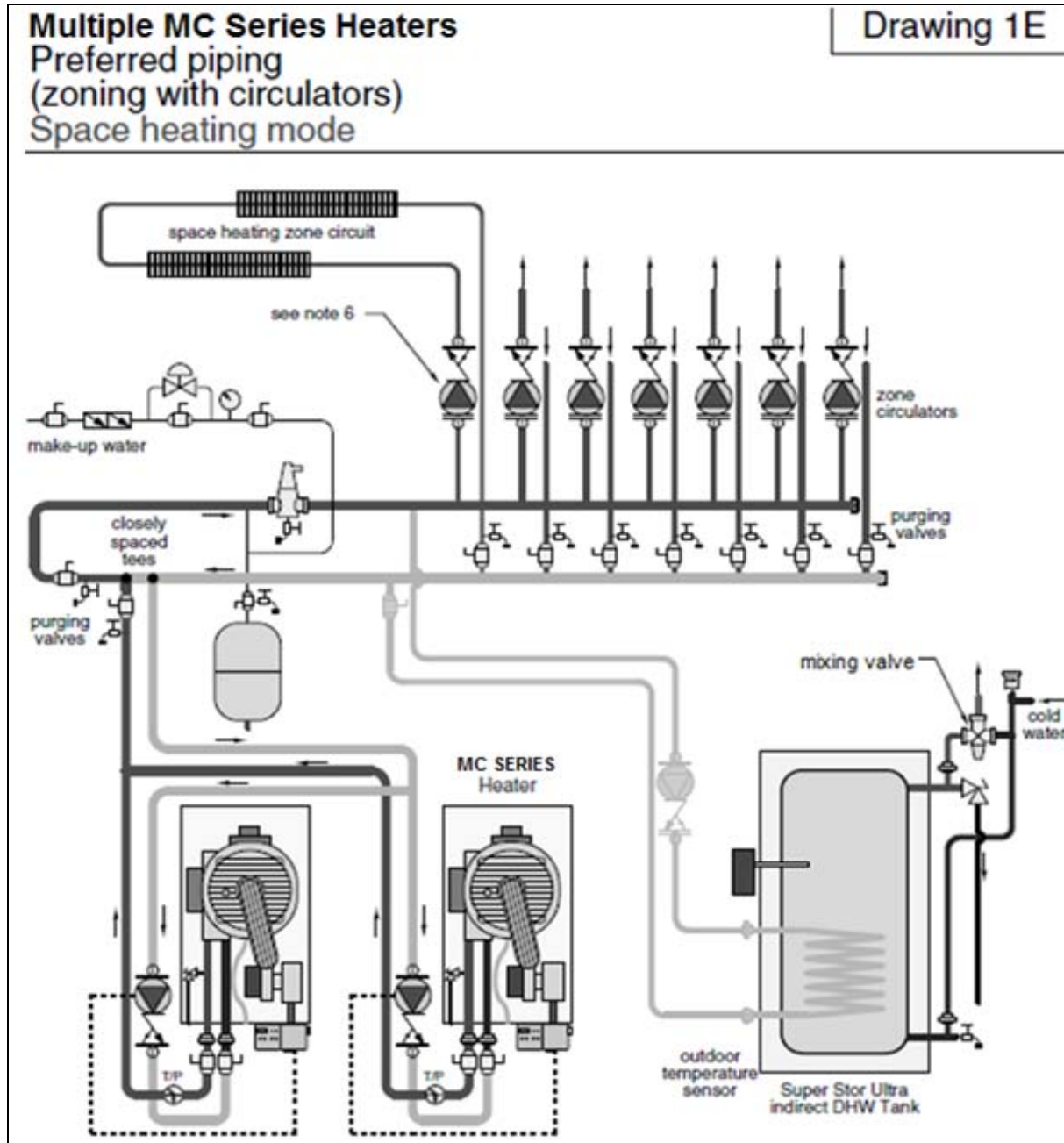


Figure 10

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Multiple MC Series Heaters
Preferred piping
(zoning with circulators)
Domestic water heating mode

Drawing 1F

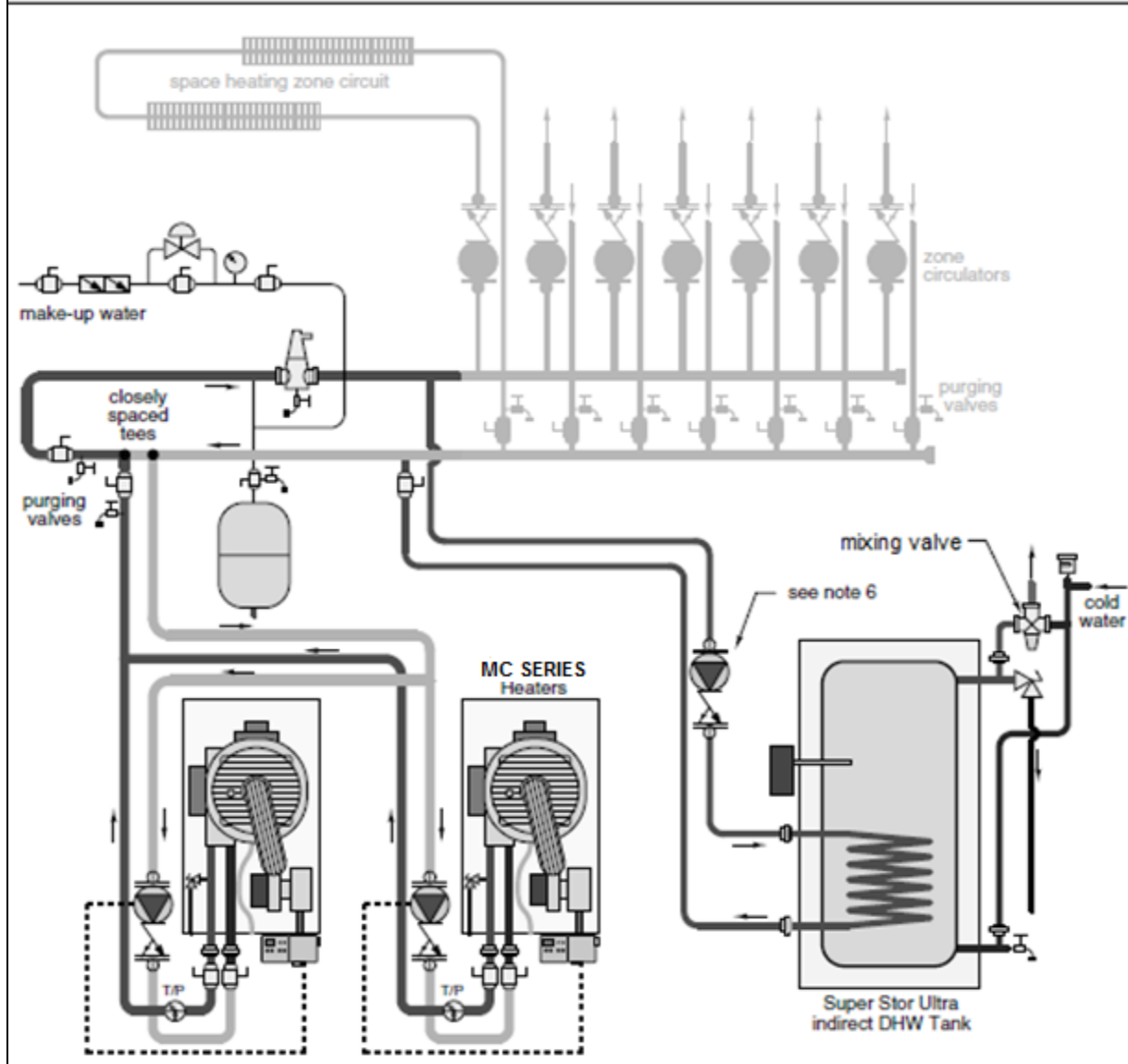


Figure 11

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D. PIPING DETAILS WITH THE VISION 1 SYSTEM

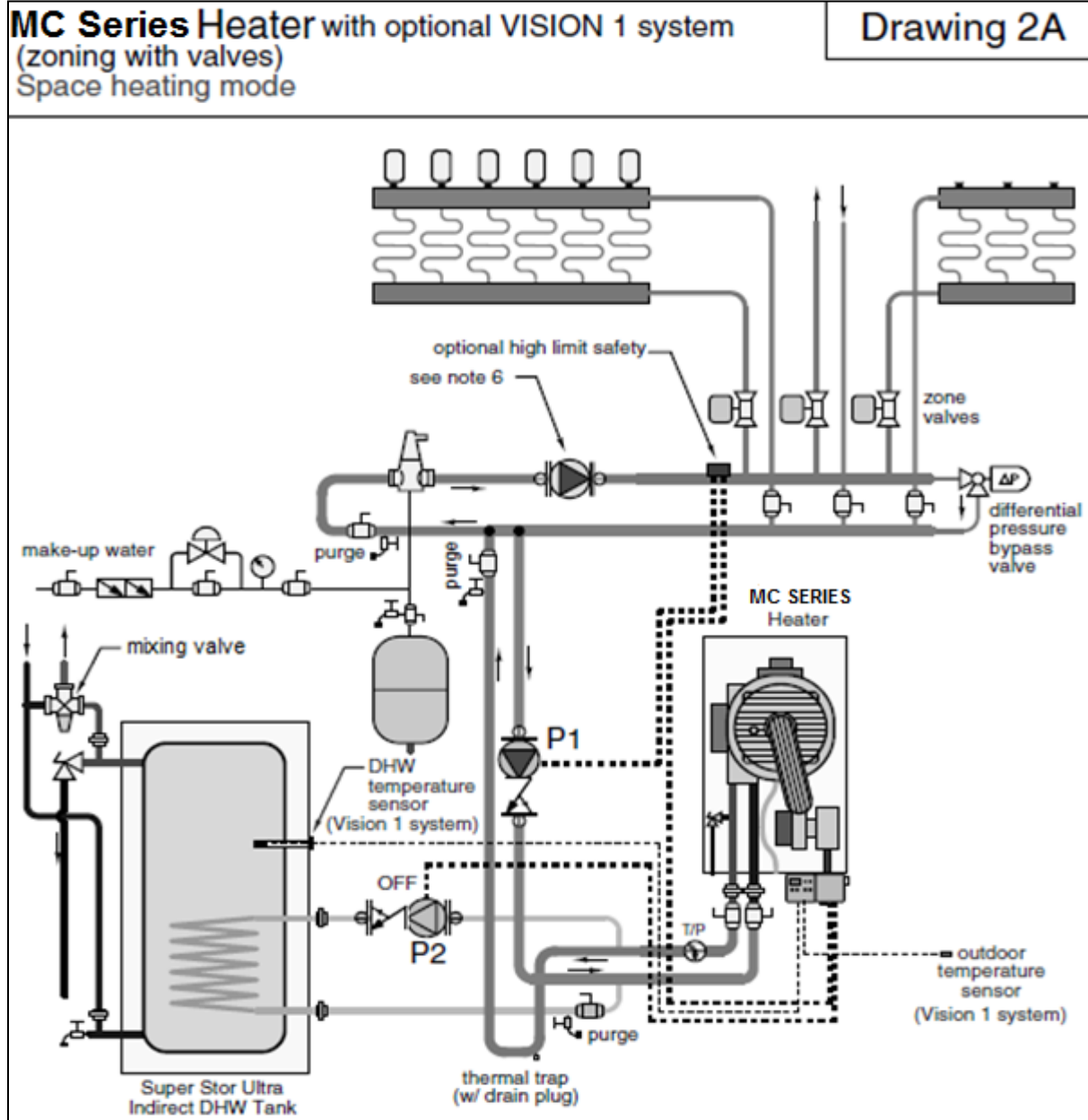


Figure 12

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6. Circulators are shown with isolation flanges. The alternative is standard flanges with full port ball valves. Purge valves can be used with the circulator flanges as an alternative.
7. Optional Vision 1 system includes temperature sensors for DHW and outdoor air and must be purchased separately.
8. The anti-scald mixing valve is recommended if the DHW temperature is set above the factory setting of 119°F.
9. Install a minimum of 12 diameters of straight pipe upstream of all circulators.
10. **Winterization:** When winterizing the unit, put a drain valve on both the supply and return between the union and the shut-off connection.

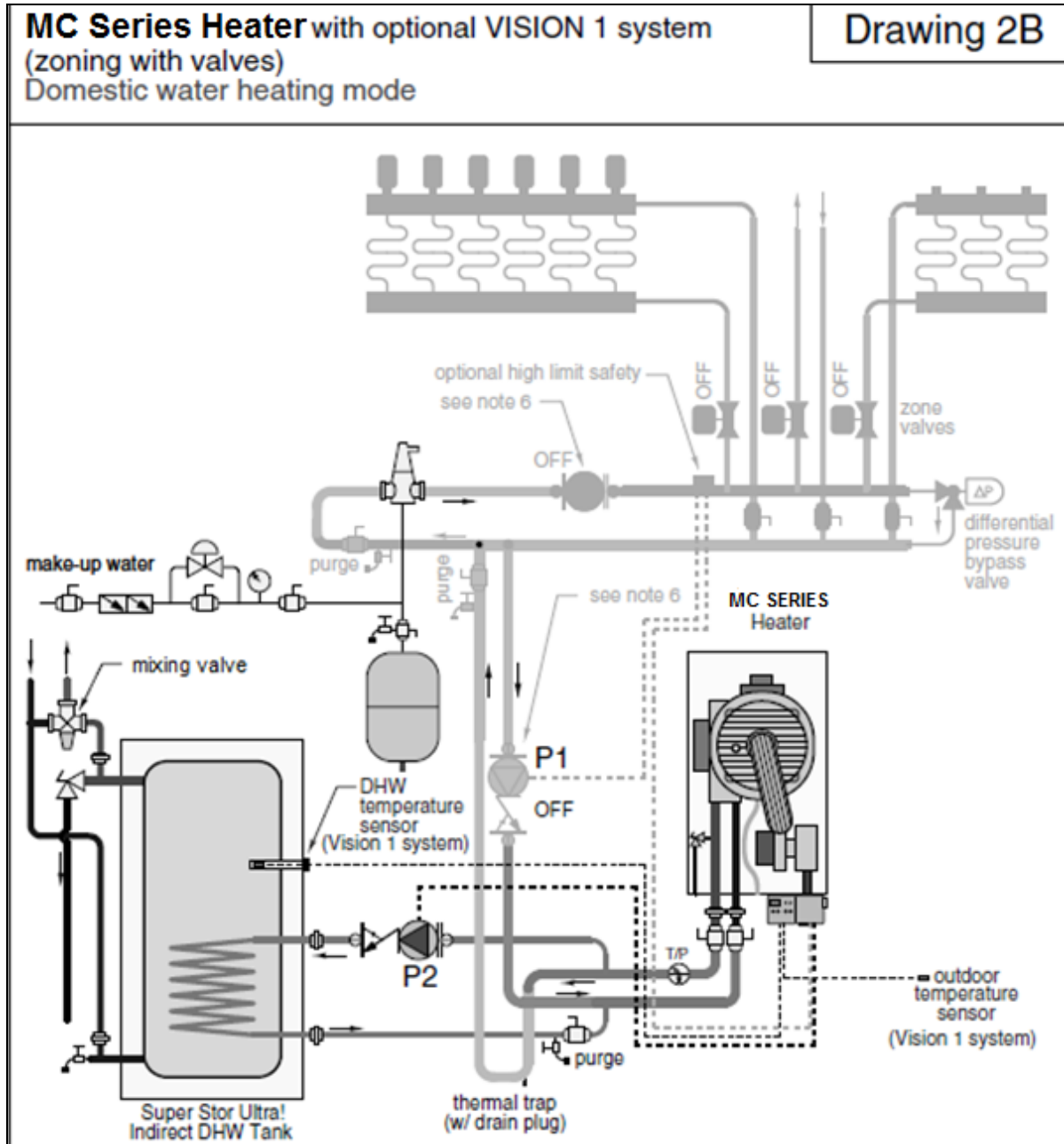


Figure 13

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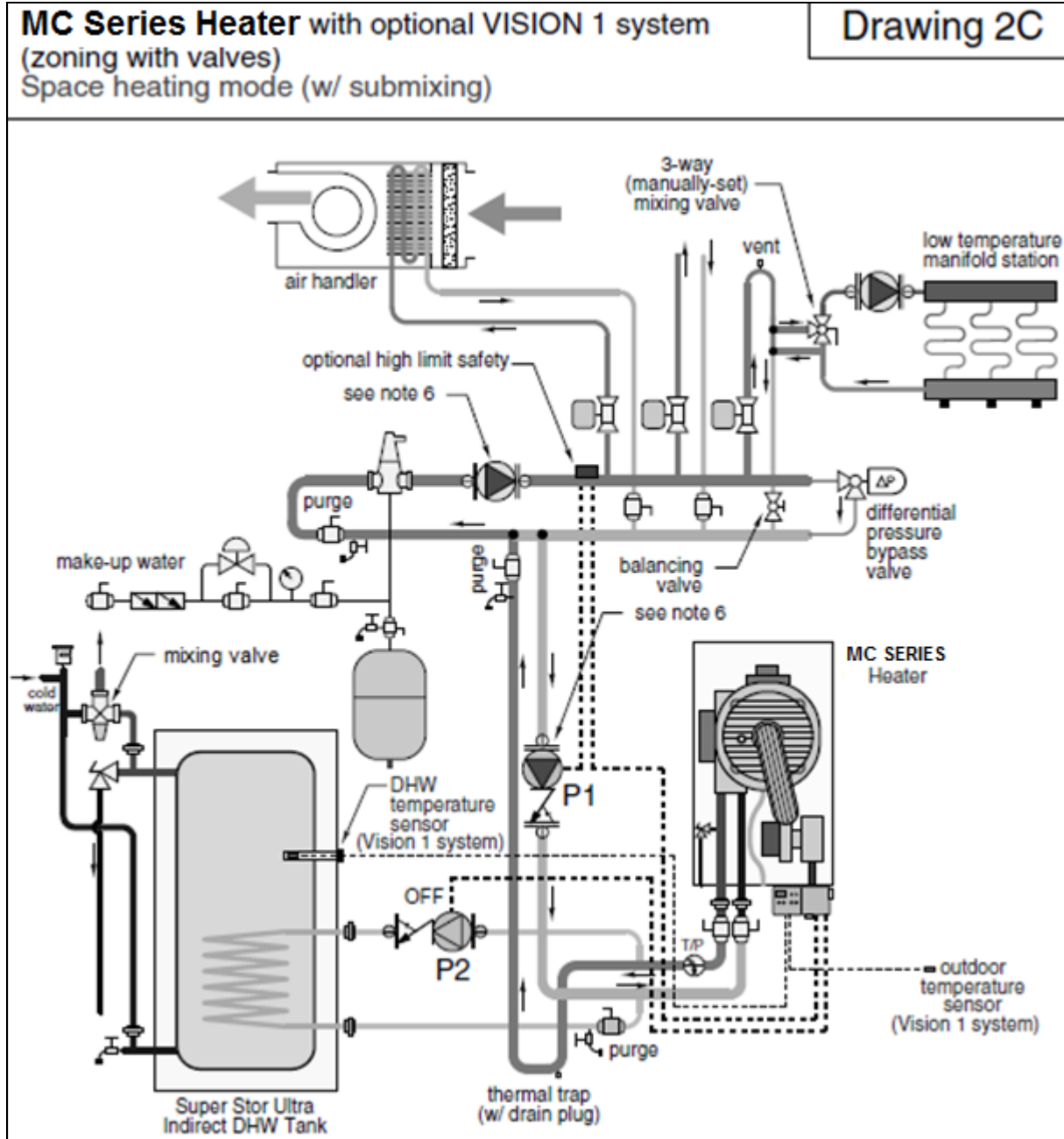


Figure 14

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