NOTES:

1. CV-1 modulates to control the building heating hot water (HHW) supply temperature.
2. CV-2 modulates to control the supply temperature to the DHW system.
3. Install the BTU meter flow element with a minimum of ten (10) straight pipe diameters upstream and five (5) pipe diameters downstream. BTU meter has its own supply & return temp sensors that must be installed separately.
4. Include capability to reset HHW supply temperature based on demand. HHW supply set point must be automatically limited by the building control system to always be at least 5 deg F less than UHW supply.
5. Building heating hot water return temperature shall be low enough to ensure UHW return temperature is ≤110 deg F at all times.
6. These points are to be hardwired directly to the utility interface panel. The data can be shared as needed via network connection to the building control system. See FDG 25 3313 for instrumentation requirements.
7. The building control system will receive a hardwired digital input signal from the utility interface panel to command closed the UHW control valves to the HHW and DHW heat exchangers in case of a distribution system emergency.
8. Points to be shared via network connection from the building control system to the utility interface panel for monitoring purposes include HHW supply temp, HHW return temp, CV-1 position, and HHW pump speed. UHW supply temperature data to be shared with the building control system for HHW supply temperature set point reset.
9. All utility side piping to be welded carbon steel or copper. Utility lateral pipes will have line size manual isolation valves and flange terminations near the entrance point inside the mechanical room. See FDG 02553 for underground lateral pipe guidelines. All utility side isolation valves to be full port ball valves.
10. Include automatic air vents if located on building roof/attic or if above 160 ft elevation above sea level.