DATE OF THIS VERSION (new)
May 1, 2018

TITLE OF DOCUMENT (new title if applicable):
VA Plumbing Design Manual

DATE OF VERSION BEING SUPERSEDED (old):
November 1, 2014

DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):
This is an update of the 2014 Plumbing Design Manual to correct many IP to SI errors and improvements especially in the Legionella section.

SUMMARY OF CHANGES IN THIS VERSION:
1. Correction to many IP to SI conversions.
2. Updated Historic Preservation Section to include the National Environmental Policy Act (NEPA) and the National Historic Preservation Act and related standards.
3. 1.1 Purpose: Added that deviations from Section 4.5 shall be approved by the Facility Water Safety Committee.
4. 1.6 National Codes and Standards: Updated ASHRAE 90.1 from 2010 to 2013.
5. 2.2 Equipment Pads: Added additional verbiage regarding having access to equipment, et al.
6. 2.4 Pipe Support Design: Added seismic event to types of damage that can occur.
7. 2.8.2 Basic Design Parameters: Added Legionella eradication/mitigation system to systems that shall be shown when applicable.
8. 3.1.2(a) Bariatric Plumbing Fixtures: Added that floor mounted bariatric water closets are preferred, but that the COR should check with local union, EMS, and clinical staff prior to design to ensure proper fixtures are installed.
9. 4.1 General: Added that additional information regarding potable water storage requirements can be found in the VA Physical Security Design Manual.
10. 4.2.1 Water Heater Efficiency: Updated ASHRAE 90.1 from 2010 to 2013.
11. 4.2.8 Shut-Off and Balancing Valves: Added verbiage about cold water recirculation flow if necessary.
12. 4.5.2 Background (Legionella):
   a. Added additional information regarding cold water distribution desired temperatures.
   b. Added additional information regarding whether cooling of cold water distribution is necessary.
   c. Added additional information regarding circulation of hot and cold water flow.
13. 4.5.3 Piping Design for Legionella Mitigation: Added additional information regarding cold water recirculation and if necessary.
14. 5.1.2 Floor Drains: Added floor drains to all Mechanical Rooms, unless noted otherwise in Contract Documents.
15. 8.2.3 MEDICAL GASES AND VACUUM Piping Systems: Changed design pressure for piping to 10 percent of system working pressure instead of 34kPa[5psig] loss.
16. 8.4.4 (g) Added additional information about “The Dental Rule” regarding Amalgam separators having to be installed in all vacuum lines in all dental offices.
17. FSS will coordinate with CSS and OCAMES regarding “Legionella bacteria growth temperature ranges” if CDC has changed theirs.
18. FSS will discuss/coordinate with CSS and OCAMES regarding trap guards efficacy.