

Please note that Brookings Municipal Utilities (BMU) has updated our Design Standards and Standard Specifications for Water and Sanitary Sewer. These updated specifications can be found on our website at the following location:

<https://www.brookingsutilities.com/developers-contractors/standards-specifications>

Some of the changes that we would like to bring to your attention are:

BMU Water Distribution & Sanitary Sewer Collection Design Standards

- The Design Standards for water distribution and sanitary sewer collection have been consolidated into a single document.
- The Design Standards include a new section on Definitions and Plan Review Process
 - The first section (Part 2 – Definitions) includes common words and their associated definitions for the water and sanitary sewer system, BMU application to connect process, BMU transfer of Ownership and record drawings.
 - The second section (Part 3 – Plan Review Process) includes a narrative on the process needed for plan review, application to connect, substantial completion, and transfer of ownership. The process outlined is the same process that has been previously used; however, additional information is included in the Design Standards.
- The Design Standards include additional clarification on the placement of the water and sanitary sewer services. Water and sanitary sewer services must be constructed in accordance to the State Plumbing Code and local BMU requirements.
- The Design Standards include additional clarification on the number of water meters that can be installed per residential dwelling or commercial property. The number of properly installed water services will dictate how many water meters will be installed in the establishment.
 - However, BMU has provided exceptions to the single water meter per service if additional criteria are met. These criteria include:
 - The location shall be located as close as possible to where the water service enters the building,
 - All meters are to be located in a dedicated room. Access to the dedicated area shall be through a secure, outside entry door. Meters located in shared or common use areas (i.e. common laundry area, utility room, etc.) are not allowed,
 - Meters shall be located in heated area to prevent freezing of the water meter.
 - All other requirements identified in Section 3.30 - Water Meter Installation in Standard Specifications for Water Main Construction.
- The Design Standards include additional clarification on when heavy wall sewer pipe (DR 26) is used on a project. Heavy wall sewer pipe shall be used when any section the sewer (manhole to manhole) exceeds a depth of 20'.

BMU Standard Specifications for Water Main Construction

- Table 6 – Steel encasement Pipe Material has been modified to remove the column indicating size of carrier pipe. Regardless of the size of the carrier pipe, the casing pipe must meet the minimum thickness of the steel casing based on the size of the casing pipe.
- Section 3.18 – BEDDING, BACKFILL, COMPACTION AND COMPACTION TESTING, Paragraph D – Moisture Control and Stability was added in its entirety.
- Section 3.30 – WATER METER INSTALLATION was added in its entirety. Additional information has been provided for the installation of the water meters regarding requirements associated with irrigation meters, location and orientation of meter, location of isolation valves, required clearance in front of the meter and requirements for the installation of the remote reading point.

BMU Standard Specifications for Sanitary Sewer Main Construction

- Section 2.14 – PRECAST SANITARY SEWER MANHOLE, Paragraph A1 – Acceptable manufacturers for precast manholes have been limited to CemCast, Hancock or prebid BMU Engineer approved equal.
- Section 2.32 – GREASE TRAP was added in its entirety.
- Section 3.21 – BEDDING, BACKFILL, COMPACTION AND COMPACTION TESTING, Paragraph D – Moisture Control and Stability was added in its entirety.
- Section 3.27 – BACKFLOW PREVENTOR INSTALALTION, Paragraph C and D. Additional clarification on the location of where backflow preventer can be installed.
 - Backflow preventers, installed with new construction, shall be installed in the mechanical, or utility room. Plumber shall be responsible for installing the backflow preventer per the requirements of these specifications and SD State Plumbing Code. Backflow preventers installed in finished areas or areas that will be finished at a later date (future living rooms, bedrooms, etc.) shall not be allowed and shall be relocated to an approved location.
 - The access cover for the backflow preventer shall be brought up to the sub-grade finished floor for ease of access and maintenance as required by SD State Plumbing Code 710.6.