



Date: October 15, 2013
To: Land Use Committee
From: Chad J. Huwe, City Engineer
Subject: Proposed Revisions to City of Sioux Falls Engineering Design Standards

Proposed Revisions to Chapter 9, Sanitary Sewers

Section 9.4.5 Size of Sewer Pipe: Updated text from "six" to "6" for consistency with the remaining portions of the standards. The modification does not change the meaning of the standard. No cost change.

Section 9.4.8.7 Manhole Covers, Manhole External Frame Seals, and Manhole Markers: Changed Title to read Manhole Covers, Manhole External Frame Seals, Manhole External Joint Seals, and Manhole Markers.

Update specification to require external frame seals and joint seals on all manholes. \$600/manhole installation cost increase. Net savings in less than 5 years from reduced operation, maintenance, and rehabilitation cost.

The final modification in this section is to remove the reference to fiberglass type manhole markers. These are no longer allowed. No cost change.

Section 9.4.8.10 Crossings: Applicable information regarding this standard can be found in the Supplemental Standard Specification as well as the standard plates. A reference to the Standard Specifications as added for additional clarification. No cost change.

Proposed Revisions to Chapter 10, Water Mains

Section 10.1.4 General: Deleted unnecessary language about ISO guidelines for calculating fire flows as this is defined in National Fire Prevention Association (NFPA) codes.

Section 10.1.9 General: Moved existing text about locations of water mains relative to buildings, etc. to a more appropriate location within the EDS.

Section 10.1.10 General: Deleted text defining pipe type as it is unnecessary to have internally restrained joint pipe under drainage ways.

Section 10.1.12-13 General: Deleted unnecessary language regarding fire lines, fire hydrants and other items related to fire-fighting operations as they are regulated by the National Fire Prevention Association (NFPA) codes. Fire Prevention Division reviews and approves all fire systems and appurtenances with plan review process

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Section 10.2 Fire Hydrants: Deleted unnecessary language regarding fire hydrant systems as they are regulated by the National Fire Prevention Association (NFPA) codes. With the exception hydrant spacing along City streets, the Fire Prevention Division reviews and approves all fire hydrant locations and related appurtenances with plan review process

Section 10.3.5 Valves: Text Updated

Section 10.3.6 Valves: Clarification that individual shut offs (valves and curb stops) are needed such that the fire and domestic services can be operated independently if the other is taken off line.

Section 10.3.8 Valves: Text deleted since valve locations vary from project to project

Section 10.3.9 Valves: Text deleted since the requirement for air release valves is typically project specific and will be reviewed on a case by case basis.

Section 10.3.10 Valves: Deleted unnecessary language regarding post indicator valves as these items are regulated in the National Fire Prevention Association (NFPA) codes. Fire Prevention Division reviews and approves all fire systems and appurtenances with plan review process.

Section 10.4.1 Meters: Updated text to clarify that water meters are installed by the City.

Section 10.7.7 Service Lines: Revised name of polyethylene piping to PEX piping in keeping with industry standards. Added text that the use of PEX piping in foundations or under footings may change with future revisions to the Uniform Plumbing Code.