

**Section 7-09 .3(23); Hydrostatic Pressure Test**

Paragraphs 1, 4, and 5 are replaced with the following:

All water mains and appurtenances shall be tested in sections of convenient length under a hydrostatic pressure equal to 1.5 times that under which they will operate or 200 psi whichever is greater. All pumps, gauges, plugs, saddles, corporation stops, miscellaneous hose and piping, and measuring equipment necessary for performing the test shall be furnished and operated by the Contractor. The Engineering Department must be notified a minimum of 48 hours prior to testing and must be present when tests are performed.

The mains shall be filled with water and allowed to stand under pressure a sufficient length of time to allow the escape of air and allow the lining of the pipe to absorb water. The Contractor shall be responsible for providing the water necessary to fill the pipelines for testing purposes.

The test shall be accomplished by pumping the main up to the required pressure, stopping the pump for 2 hours, and then pumping the main up to the test pressure again. During the test, the section being tested shall be observed to detect any visible leakage. A clean container shall be used for holding water for pumping up pressure on the main being tested. This makeup water shall be sterilized by the addition of chlorine to a concentration of 50 mg/l. In accordance with AWWA Standards.

**Disinfection of Water Mains**

**Section 7-09.3(24)A; Flushing**

Paragraph 1 is replaced with the following:

Sections of pipe to be disinfected shall first be flushed to remove any solids or contaminated material that may have become lodged in the pipe. Tap shall be provided large enough to develop a velocity of at least 6 fps in the main. Hydrants are not to be used for pipe flushing; only approved blow off assemblies are to be used. Connecting to city mains or flushing may be required at night depending on system conditions as determined by the engineer.

Contractor to provide sampling station point per City standards.

**Section 7-09.3(24)D; Dry Calcium Hypochlorite**

This section is deleted in it's entirety.

**7-12 VALVES FOR WATER MAINS**

**Construction Requirements**

**Section 7-12.3(1); Installation of Valve Marker Post**

This section is replaced with the following:

Where required, a valve marker post shall be furnished and installed with each valve. Valve marker posts shall be placed at the edge of the right-of-way opposite the valve and be set with a minimum of 48" of the post exposed above grade. The post shall have a blue reflective "water valve" decal placed within 3" of the top of the post. The post shall be carsonite. The post shall face on coming traffic at 4 feet away from the valve.

A concrete collar shall be poured around valve boxes that are to grade. A two headed arrow stamp will be used to stamp the concrete collar to show direction of flow for the water main.

All operators for Butterfly Valves shall be on centerline of street side of the main.

The contractor shall not operate any city valve. The city must be contacted to turn all city valves for all phases of construction.



**WATER SPECIFICATIONS (3 OF 5)**

STANDARD PLAN: <b>W - 702</b>	CITY ENGINEER APPROVAL: Longview: <b>C.B.</b>
DATE: <b>FEB. 2008</b>	Kelso: <b>S.Z.</b>