

SECTION 9

TESTING AND DISINFECTING WATER MAINS

9-1 GENERAL

All completed water lines, as well as the service lines and appurtenant structures, will be tested by and at the expense of the contractor in the inspector's presence prior to field acceptance of the work. The contractor must correct all defects in workmanship or materials which become evident by inspection or testing at any time during the work. Testing will be done after the complete installation and compaction of all underground utilities.

Testing for pipe and joint leakage shall be done after compaction of the backfill to the top of the trench zone, and after service lines have been installed to the property lines.

9-2 HYDROSTATIC TESTING

9-2.1 PVC Pipe: Thorough flushing is required prior to a pressure test. Filling, flushing, and hydrostatic testing of PVC pipe installations shall be in accordance with the requirements of AWWA C605.

9-2.2 Ductile Iron Pipe: Thorough flushing is required prior to a pressure test. Filling, flushing, and hydrostatic testing of ductile iron pipe installations shall be in accordance with the requirements of AWWA C600.

9-2.3 Steel Pipe: Thorough flushing is required prior to a pressure test. Filling, flushing, and hydrostatic testing of steel pipe installations shall be in accordance with the requirements of AWWA C604.

9-3 DISINFECTING WATER MAINS

New water mains shall be thoroughly flushed and disinfected before they are placed in service. Water mains taken out of service for inspection, repair, or other activities shall be flushed and disinfected before they are returned to service. Flushing and disinfection of pipe installations shall be in accordance with the requirements of AWWA C651.

9-4 TESTING FOR FIRE FLOW OR PRESSURE

In selected cases, the Public Works Department may require a "fire flow" check prior to the approval of, or following the completion of a construction project. A "fire

flow” check is necessary to calculate the volume of water (measured in gallons per minute) which is flowing through a portion of the distribution system with a residual pressure of 20 psi. In such instances, the Public Works Department will assist in operating the fire hydrant to be tested by either the applicant/contractor or the Ventura County Fire Protection District, as appropriate. Generally, there is no charge for this service by the City. The Public Works Department reserves the right, however, to charge for labor and/or the amount of water actually used if, in the opinion of the Water Supervisor, the cost to the City is excessive.