



## **New Sewer Main Testing and Acceptance**

The following guidelines are in accordance with OVWSD Sewer System Standard Detail Drawings, Design Guidelines, Approved Materials List, and State of Washington Department of Ecology Criteria for Sewage Works Design. It is understood that each installation may vary based on field conditions. The procedures below must be completed in the presence of the District's assigned representative. Any deviation from these procedures must be approved by the District.

**Note – Until the procedures described below have been completed and approved by OVWSD, the new sewer system shall not be permitted to discharge into the existing system. Appropriate means, as approved by the OVWSD, shall be installed to ensure this.**

**After installation and prior to acceptance by OVWSD, the following is to be completed:**

### **Flushing/Cleaning**

Utilizing a high-pressure vacuum jetter, all new appurtenances must be cleaned and all debris and excessive water removed.

### **Leakage/Pressure Testing**

Plugs used to close the pipe for the air test must be securely braced to prevent the unintentional release of a plug, which can become a high velocity projectile. Gauges, air piping manifold, and valves shall be located at the top of the ground. No one shall be permitted to enter a manhole where a plugged pipe is under pressure. Air testing apparatus shall be equipped with a pressure release device, such as a rupture disk or a pressure relief valve, designed to activate when the pressure in the pipe exceeds 2 psig above the required test pressure.

Air shall be slowly supplied to the plugged pipe section until the internal air pressure reaches 4 psig. Wait at least 2 minutes to allow for pressure and temperature stabilization to occur within the pipe.

When the pressure decreases to 3.5 psig, the air pressure test shall begin. The pipe shall be considered acceptable if no pressure drop is noted for the duration of the test. The test shall be conducted on no more than 400 feet of pipe tested for 15 minutes.

### **Television Inspection/Sag Allowance**

All newly installed lines must be televised with a camera suited for pipeline inspection. A copy of the inspection is to be provided to OVWSD on a format approved by OVWSD. The camera must be able to clearly assess the condition of the main and record and display slope/grade of the pipe.

Prior to televising the pipeline, a sufficient amount of contrasting dye must be poured into the pipeline.

The camera inspection must utilize a method, as approved by the District, to determine sag in the pipe. 1/32" per inch of pipe diameter, with a maximum sag of 1/2" is acceptable. Any sag greater than this is considered a failure and requires that section, and any other affected section(s) of main, to be replaced and retested.

Pipe Size	Sag Allowance
6"	3/16"
8"	1/4"
10"	5/16"
12"	3/8"