

Development Plan - Testing / Documentation Requirements for New Infrastructure

The following test and documentation must be provided in writing per this form to the City of Garrett and other information provided, as noted, before the City of Garrett Board of Public Works and Safety will accept any newly installed infrastructure for ownership and maintenance by the City of Garrett.

Name of Subdivision / Development: _____
 Name of Owner / Developer: _____
 Name of General Contractor: _____

WATER MAINS

Required Item	Date Tested / Verified	Person / Firm Conducting Test	City Personnel Present ?	Comments
Main pressure and leakage test at 150 psi for two hours.				
Bacteriological test / two samples taken, 24 hours apart.				
If main / extension is PVC pipe, verify that tracer wire is installed.				
Main(s) installed per construction plans approved by the City of Garrett.				
As-built drawings provided to the Garrett Planning Department				
Backfill completed?				

SANITARY MAINS

Required Item	Date Tested / Verified	Person / Firm Conducting Test	City Personnel Present ?	Comments
Deflection test performed 30 days after installation.				
Low pressure air test performed.				
Manhole castings set to grade.				
Main(s) installed per construction plans approved by the City of Garrett.				
As-built drawings provided to the City of Garrett Planning Department.				
Taps located by measurement from nearest downstream manhole.				
"As-built" drawings provided to Garrett Planning Department?				
Backfill completed?				

STREETS

Required Item	Date Tested / Verified	Person / Firm Conducting Test	City Personnel Present ?	Comments
Streets constructed per construction plans approved by the City of Garrett.				
Development complies with state and local erosion control regulations.				
Concrete curbs: control joints at proper intervals.				
Asphalt weigh tickets provided for comparison with plans?		N/A		
Inlets and utility castings at proper elevations.				
Visual inspection of drainage performed after completion.				
Sub-base compacted.				
"As-built" drawings provided to Garrett Planning Department?				

Development Plan - Testing / Documentation Requirements for New Infrastructure

DRAINAGE				
Required Item	Date Tested / Verified	Person / Firm Conducting Test	City Personnel Present ?	Comments
Drain outfall from development (pond, catch basin, etc.) properly connected to designated City storm sewer or County-regulated drain.				
Storm sewers constructed according to the construction plans approved by the City of Garrett.				
As-built plans provided to the City of Garrett Planning Department.				

SIGNATURE PAGE

We verify that the infrastructure constructed as part of the **WWTP Wet Weather Capacity Improvements**, has been installed per construction plans and approved by the City of Garrett, Board of Works and Safety.

Developer(s): _____ Date: _____

Engineering Consultant: _____ Date: _____

General Contractor Authorized Representative: _____ Date: _____

PROCEDURE FOR SANITARY SEWER MAIN LOW PRESSURE TESTING

General: All testing shall be witnessed and certified to by a qualified independent firm in accordance with IDEM standards and regulations.

Gravity Sanitary Sewer Low Pressure Air Test: Each new gravity sanitary sewer, or any isolated section, is to be subjected to a low pressure air test. The Contractor shall furnish all special plugs, compressor, gauges, relief valves, etc., as required to isolate and air test each isolated

Procedure for Low Pressure Air Testing: After the pipe is laid, the joints completed and the trench backfilled, the section of sewer to be tested is to be cleaned and suitably isolated with test plugs securely braced in place.

Add air slowly to the sewer being tested through a suitable connection to one of the test plugs, until the internal air pressure is raised to 4.0 psig plus any additional pressure as may be required to offset any backpressure due to ground water submergence of the sewer. Contractor's test equipment shall include a pressure relief valve designed and located in such manner as to prevent the test pressure from exceeding 10.0 psig.

After the internal pressure of 4.0 psig is obtained, allow a minimum of two minutes for air temperature to stabilize, adding only the amount of air to maintain a pressure near 4.0 psig.

When the stabilization period ends the test pressure shall be allowed to drop from the 4.0 psig level. When the pressure decreases to 3.5 psig, the time shall be checked by means of a stop watch to determine the time in seconds for the test pressure to drop from 3.5 psig to 2.5 psig.

Allowable Air Loss: It is intended that the sewer pipe and joints be of tight construction. The minimum time for the test pressure to drop from 3.5 psig to 2.5 psig per 100 feet of sewer shall not be less than the following:

<u>Pipe Diameter</u>	<u>Time (seconds)</u>
4"	18
6"	40
8"	70
10"	110
12"	160