

SECTION 17

STORM SEWER INSPECTION, TESTING, & ACCEPTANCE

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17.1 General

This section describes the minimum requirement and general procedures for the inspection, testing and acceptance of systems dedicated to the City.

Connection Permits for storm service will not be issued until all the requirements of this section are fulfilled.

17.2 Inspection

Inspection of the construction shall occur for the duration of the project. The Owner shall execute the Agreement with the City for such services. Inspection fees shall be as set forth in **Section 3**.

A. General Requirements

1. Contractor and/or Owner shall provide notice to the City and his representative of the planned commencement of construction forty-eight (48) hours prior to such commencement.
2. Once the construction starts, the Contractor shall be responsible for informing and/or notifying the inspection representative assigned of the following:
 - a. Daily work schedule, including any changes in schedule;
 - b. Prior notification if work is to be performed on weekends and/or holidays;
 - c. Date tests are to be performed; and
 - d. Date as-built verification is to be performed.
3. The City, upon request of the Contractor and/or Owner, will schedule the Final Inspection.

All testing required shall be performed under the observation of the City or the City's representative. It shall be the Contractor's responsibility to schedule the testing with the City representative and/or City. Test results obtained in the absence of the presence of the City will not be accepted.

17.3 Testing Gravity Storm Sewers

- A. All gravity storm sewers constructed of flexible pipe shall be deflection tested no sooner than thirty (30) days after installation.
- B. The Contractor shall bear the complete cost and supply all equipment necessary

to perform the tests required.

All tests shall be conducted under the observation of the Engineer. It shall be the Contractor's responsibility to schedule testing.

1. Deflection Test for Select Pipe

A five percent (5%) vertical Mandrel Deflection Test shall be performed on all PVC Pipe gravity storm sewer pipe.

These pipes shall be mandrelled with a rigid device sized to pass five (5) percent or less vertical deflection (or deformation) of the base inside diameter of the pipe. The mandrel test shall be conducted no earlier than thirty (30) days after reaching final trench backfill grade.

Each pipe material/type required to be Mandrel tested shall be tested with a mandrel approved by the pipe manufacturer and meeting the requirements of this Section.

The mandrel shall be pulled through all sewer lines in a manner acceptable to the Engineer and any section of sewer not passing the mandrel shall be uncovered, replaced or repaired to the Engineer's satisfaction and retested.

The Contractor shall provide proving rings to check the mandrel. Drawings of mandrels with complete dimensions shall be furnished to the Engineer upon request for each diameter and specification type.

17.4 **Storm Structure Testing**

The structures will be given a field visual inspection. The inspection shall be performed at the discretion of the City during the warranty period following a rainfall sufficient enough to raise the groundwater table above the potential problem areas. All leakage problems determined by this inspection shall be corrected by the Contractor within an agreed upon time to the satisfaction of the City. Where necessary to complete the work, the Contractor shall be responsible for the bypassing and/or blocking of the flow in the manholes and must have prior approval by the City Engineer or City. It will be the Contractor's responsibility to supply his own traffic control as required by the particular location and/or jurisdiction.

17.5 **Acceptance**

In order for the City to issue final acceptance, the following items shall be submitted, completed or on file:

- A. Copies of all testing reports and data;
- E. Final payment for inspection services;
- G. As-Built drawings;
- I. Daily inspection reports.