
15 November 2024

SP 4.8-004 (2013)

**Standard Specifications for Construction
City of Waco 2013
Special Provision Section 4.8 Sanitary Sewer**

The Standard Specifications for Construction City of Waco 2013
Section 4.8 Sanitary Sewer

Part 3: Execution

C. TESTS

1. Tests and Television Inspection

is hereby revised as follows for all Developer projects submitted to the City January 1, 2025 and thereafter; for all City projects with bid opening date of January 1, 2025 and thereafter; and for right-of-way permit requests received November 18 and thereafter:

Part 3: EXECUTION

C. TESTS

1. Tests and Television Inspection -

In order to ascertain that the main shall perform the function for which it was designed and constructed, performance tests shall be routinely executed. Visual inspection by photographic means shall be performed when so desired by the owner. Air tests may be made on sections of the contract work to assure that contract performance is satisfactory.

All sewer pipe shall be air tested upon completion of backfill and prior to any street construction.

Sanitary sewer force mains shall be hydrostatically tested.

Testing shall be performed by the contractor ~~in the presence~~ with 24-hour advance coordination notice of the owner's representative after all backfilling and compaction are complete. All sections between manholes or between a

manhole and a dead end shall be tested separately. In the making of all tests, the contractor shall furnish the required equipment and labor, under the direction of the owner. Tests may be repeated until each sewer individually meets the specifications as to quantity of allowable infiltration or exfiltration or air leakage as set out below. All testing work shall be included in the bid price.

A ~~The~~ representative ~~from~~ of the Owner City's ~~Engineering Division must shall be provided 24-hour advance coordination notice present during the television prior to the camera inspection. Prior to videoing, the line shall be cleaned and flushed. To help identify any low points, just prior to videoing water shall be run through the pipe from upstream manhole until flowing through downstream manhole and then no additional water added. Time period necessary for free water flow to complete shall pass and then the videoing commence.~~ Videoing the new sewer lines shall be done in a manner that includes the linear footage of pipe shown automatically on the video relative to the manhole entered. The manhole in which the camera was inserted shall also be identified as means of reference, along with the direction the camera goes (it is preferred the camera video goes from upstream to downstream). The camera shall move at a maximum speed of thirty feet per minute (30 FPM).

Additionally, the video format shall be compatible with Windows Media Player and submitted on a ~~DVD~~ flash drive. All other formats will be rejected. The recording shall be conducted in a manner that is slow and allows for visual inspection. Recordings shall be in color. The length of the cable connecting to the camera shall be able to reach two hundred and fifty (250) LF, to allow for inspection of every foot of the new main to a maximum of five hundred ~~FT~~ (500') FT between manholes. The camera shall have a mountable, rotating head that can tilt and zoom to identify private services and shall be a motorized unit. The lens of the camera must be kept clear during the operation. All oil, grease or other water content or debris must be cleaned off before recording can proceed. The camera is to be functional in one hundred percent (100%) humidity conditions. Lighting shall provide enough brightness such that the entire inner pipe wall is visible for at least ten ~~FT~~ (10') FT in front, regardless of pipe material.

The camera unit shall be an ~~Envirosight Rover 600 Crawler~~ submitted for approval through the standard procedures for submittals ~~or an approved equal.~~ Specifications for this unit can be found on the following page.

Sincerely,



Thomas M. Dahl, P.E.