



1. Field Testing

- Field pressure tests shall be performed on PVC pressure sewer pipe and connections 4-inch or smaller diameter.
 - Pressure gauge, valves, water and water meter for testing will be furnished by the Contractor. The Contractor shall set up the testing equipment by connecting to PVC pressure sewer at tees house connection, flushing assemblies, or other approved fittings. When testing a new pressure system without a direct connection to a sanitary sewer, the Contractor shall set up testing apparatus in accordance with Standard Detail W.1.0. When testing new sewer system which is connected to an existing system, the Contractor shall set up testing apparatus in accordance with Standard Detail PS.7.0.
 - Test pressure shall be 100 psi at the low point of the system or as indicated on the Drawings by the Contractor shall not exceed this pressure.
 - The Contractor shall conduct all pressure testing with the Engineer in attendance. The Contractor shall provide 72 hours notice to the Engineer prior to testing.
 - Before beginning the pressure test, the Contractor shall:
 - Cure solvent cement joints and concrete thrust blocks.
 - Completely backfill the pipe as specified in sec. 02200
 - Cap or plug ends of test sections and brace caps to withstand thrust developed under test pressure.
 - Slowly fill section of pipe to be tested with water until completely full and air has been expelled.
 - Subject test section to the test pressure for a minimum of two hours. Commission personnel will operate valves during this portion of the test.
 - No leakage allowance will be permitted for pipe with solvent cement joint or threaded joint. Maximum allowable leakage for pipe with gasketed joint will be calculated using the following formula:

$$L = \frac{ND\sqrt{P}}{7400}$$
 where :
 - L = maximum allowable leakage, gallons/ hour
 - N = number of joints in test section;
 - D = nominal diameter of tested pipe, inches
 - P = average test pressure, psi.
 - Should test results show displacement, damage, or leakage in excess of the allowable amount, the Contractor shall repair the displacement and damage, and eliminate the leakage. He shall retest until specified conditions are met, to the satisfaction of the Engineer, at no additional cost.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

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Arthur C. Muegge
ARTHUR C. MUEGGE # 0707

DESIGN :	MLL		
DRAWN :	AVG		
CHECK :	MLL		
DATE :	1-27-00		
BY :	NO.	REV. WATER PLAN & PROFILE	4-0-00
		REVISION	DATE

PLAN & PROFILE OF
WATER & SEWER MAINS
CONTRACT NO. 24-3024-D
600' SCALE MAP NO. 31 BLOCK 10

SPRINGER PROPERTY
LOTS 1 THRU 4
TAX MAP 31 PARCEL 66
6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE
AS SHOWN
SHEET
2 OF 2

