

# BUREAU OF FIRE PREVENTION

## Contractor's Material and Test Certificate for Underground Piping

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**PROCEDURE**

Upon completion of work, inspection and tests shall be made by the contractor's representative and witnessed by an owner's representative. All defects shall be corrected, and system left in service before contractor's personnel finally leave the job.

A certificate shall be filled out and signed by both representatives. Copies shall be prepared for approving authorities, owners and contractor. It is understood the owner's representative's signature in no way prejudices any claim against contractor for faulty material, poor workmanship, or failure to comply with approving authority's requirements or local ordinances.

<b>PROPERTY NAME:</b>		<b>DATE:</b>	
<b>PROPERTY ADDRESS:</b>		<b>PERMIT #</b>	
<b>PLANS</b>	Accepted by approving authorities (names):		
	Address:		
	Installation conforms to accepted plans?	YES	NO
	Equipment used is approved? If NO, explain deviations... _____	YES	NO
<b>INSTRUCTIONS</b>	Has person in charge of fire equipment been instructed as to location of control valves and care and maintenance of this new equipment? If NO, explain... _____		NO
	Have copies of appropriate instructions and care and maintenance charts been left on premises? If NO, explain... _____		NO
<b>LOCATION</b>	Supplies buildings:		
<b>UNDERGROUND PIPES AND JOINTS</b>	Pipe types and class:	Type joint:	
	Pipe conforms to _____ standard? If NO, explain... _____	YES	NO
	Fittings conform to _____ standard? If NO, explain... _____	YES	NO
	Joints needing anchorage clamped, strapped, or blocked-in accordance with _____ standard? If NO, explain... _____	YES	NO
<b>TEST DESCRIPTION</b>	<p><b>Flushing:</b> Flow the required rate until water is clear as indicated by no collection of foreign material in burlap bags at outlets such as hydrants and blow-offs. Flush in accordance with the requirements of 10.10.2.1.3.</p> <p><b>Hydrostatic:</b> All piping and attached appurtenances subjected to system working pressure shall be hydrostatically tested at 200 psi (13.8 bar) or 50 psi (3.4 bar) in excess of the system working pressure, whichever is greater, and shall maintain that pressure ±5 psi (0.34 bar) for 2 hours.</p> <p><b>Hydrostatic Testing Allowance:</b> Where additional water is added to the system to maintain the test pressures required by 10.10.2.2.1, the amount of water shall be measured and shall not exceed the limits of the following equation (for metric equation, see 10.10.2.2.3):</p> $L = \frac{SD\sqrt{P}}{148,000}$ <p style="font-size: small;"> <i>L</i> = testing allowance (makeup water), in gallons per hour  <i>S</i> = length of pipe tested, in feet  <i>D</i> = nominal diameter of the pipe, in inches  <i>P</i> = average test pressure during the hydrostatic test, in pounds per square inch (gauge)         </p>		

<b>FLUSHING TESTS</b>	New underground piping flushed according to _____ standard by _____ (company). If NO, explain... _____		<b>YES</b>	<b>NO</b>
	How flushing flow was obtained? <b>PUBLIC WATER      TANK OR RESERVOIR      FIRE PUMP</b>		Through what type opening? <b>HYDRANT BUTT      OPEN PIPE</b>	
	Lead-ins flushed according to _____ standard by _____ (company). If NO, explain... _____		<b>YES</b>	<b>NO</b>
	How flushing flow was obtained? <b>PUBLIC WATER      TANK OR RESERVOIR      FIRE PUMP</b>		Through what type opening? <b>Y CONN. TO FLANGE      OPEN PIPE &amp; SPIGOT</b>	
<b>HYDROSTATIC TEST</b>	All new underground piping hydrostatically tested at _____ PSI for _____ HOURS?		<b>YES</b>	<b>NO</b>
	Joints covered?		<b>YES</b>	<b>NO</b>
<b>LEAKAGE TEST</b>	Total amount of leakage measured _____ GALS for _____ HOURS?			
	Allowable leakage _____ GALS for _____ HOURS?			
<b>HYDRANTS</b>	Number Installed?	Type and Make?		
	All operate satisfactorily?		<b>YES</b>	<b>NO</b>
<b>CONTROL VALVES</b>	Water control valves left wide open? If NO, state reason... _____		<b>YES</b>	<b>NO</b>
	Hose thread of FDC and hydrants are interchangeable with those of the fire dept. answering alarm?		<b>YES</b>	<b>NO</b>
<b>REMARKS</b>	Date left in service:			
<b>SIGNATURES</b>	NAME OF INSTALLING CONTRACTOR:			
	INSTALLING CONTRACTOR (signed)	TITLE	DATE	
	AUTHORITY HAVING JURISDICTION (if witnessed)	TITLE	DATE	
<b>ADDITIONAL EXPLANATION AND NOTES</b>				