

Contractor's Material and Test Certificate for Underground Piping

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.

Property name	Date
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Property address

Plans	Accepted by approving authorities (names)		
	Address		
	Installation conforms to accepted plans	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Equipment used is approved If no, state deviations	<input type="checkbox"/> Yes	<input type="checkbox"/> No

Instructions	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			<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Have copies of appropriate instructions and care and maintenance charts been left on premises? If no, explain			<input type="checkbox"/> Yes	<input type="checkbox"/> No

Location	Supplies buildings
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Underground pipes and joints	Pipe types and class	Type joint			
	Pipe conforms to _____ standard		<input type="checkbox"/> Yes	<input type="checkbox"/> No	
	Fittings conform to _____ standard		<input type="checkbox"/> Yes	<input type="checkbox"/> No	
	If no, explain				
	Joints needed anchorage clamped, strapped, or blocked in accordance with _____ standard If no, explain			<input type="checkbox"/> Yes	<input type="checkbox"/> No

Test description	<p>Flushing: 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 at flows not less than 390 gpm (1476 L/min) for 4-in. pipe, 880 gpm (3331 L/min) for 6-in. pipe, 1560 gpm (5905 L/min) for 8-in. pipe, 2440 gpm (9235 L/min) for 10-in. pipe, and 3520 gpm (13,323 L/min) for 12-in. pipe. When supply cannot produce stipulated flow rates, obtain maximum available.</p> <p>Hydrostatic: Hydrostatic tests shall be made at not less than 200 psi (13.8 bar) for 2 hours or 50 psi (3.4 bar) above static pressure in excess of 150 psi (10.3 bar) for 2 hours.</p> <p>Leakage: New pipe laid with rubber gasketed joints shall, if the workmanship is satisfactory, have little or no leakage at the joints. The amount of leakage at the joints shall not exceed 2 quarts per hour (1.89 L/hr) per 100 joints irrespective of pipe diameter. The leakage shall be distributed over all joints. If such leakage occurs at a few joints, the installation shall be considered unsatisfactory and necessary repairs made. The amount of allowable leakage specified above can be increased by 1 fluid ounce per inch valve diameter per hr. (30 mL/25 mm/hr) for each metal seated valve isolating the test section. If dry barrel hydrants are tested with the main valve open so the hydrants are under pressure, an additional 5 ounces per minute (150 mL/min) leakage is permitted for each hydrant.</p>				
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Flushing tests	New underground piping flushed according to _____ standard by (company)			<input type="checkbox"/> Yes	<input type="checkbox"/> No
	If no, explain				
	How flushing flow was obtained			Through what type opening	
	<input type="checkbox"/> Public water	<input type="checkbox"/> Tank or reservoir	<input type="checkbox"/> Fire pump	<input type="checkbox"/> Hydrant butt	<input type="checkbox"/> Open pipe
Lead-ins flushed according to _____ standard by (company)			<input type="checkbox"/> Yes	<input type="checkbox"/> No	
If no, explain					
How flushing flow was obtained			Through what type opening		
<input type="checkbox"/> Public water	<input type="checkbox"/> Tank or reservoir	<input type="checkbox"/> Fire pump	<input type="checkbox"/> Y connection to flange and spigot	<input type="checkbox"/> Open pipe	

FIGURE 10.10.1 Sample of Contractor's Material and Test Certificate for Underground Piping.

Hydrostatic test	All new underground piping hydrostatically tested at _____ psi for _____ hours		Joints covered <input type="checkbox"/> Yes <input type="checkbox"/> No	
Leakage test	Total amount of leakage measured _____ gallons _____ hours			
	Allowable leakage _____ gallons _____ hours			
Hydrants	Number installed	Type and make	All operate satisfactorily <input type="checkbox"/> Yes <input type="checkbox"/> No	
Control valves	Water control valves left wide open If no, state reason		<input type="checkbox"/> Yes <input type="checkbox"/> No	
	Hose threads of fire department connections and hydrants interchangeable with those of fire department answering alarm		<input type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks	Date left in service			
Signatures	Name of installing contractor			
	Tests witnessed by			
	For property owner (signed)	Title	Date	
	For installing contractor (signed)	Title	Date	
Additional explanation and notes				