



Unified Fire Authority - Fire Prevention Bureau

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 leave the job.

This certificate shall be filled out and signed as indicated. 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 the approving authority's requirements or local ordinances.

Property Name and Address:

Plans	Accepted by approving authorities (names) Unified Fire Authority _____	
	Address: 3380 South 900 West, Salt Lake City, Utah 84119	
	Installation conforms to accepted plans	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Equipment used is approved	<input type="checkbox"/> Yes <input type="checkbox"/> No
If no, state deviations _____		
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 _____	
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 <u>NFPA standards</u> . 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 for 4-in. pipe, 880 gpm for 6-in. pipe, 1560 gpm for 8-in. pipe, 2440 gpm for 10-in. pipe, and 3520 gpm 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 for 2 hours or 50 psi above static pressure in excess of 150 psi for 2 hours.</p> <p>Hydrostatic Testing Allowance: Where additional water is added to the system to maintain the test pressures, the amount of water shall be measured and shall not exceed the limits of the following equation.</p> $L = \frac{SD\sqrt{P}}{148,000}$ <p>L = testing allowance (makeup water), in gallons per hour S = length of pipe tested, in feet D = nominal diameter of pipe, in inches P = average test pressure during the hydrostatic test, in psi gauge.</p>	
Flushing Tests	New underground piping flushed according to _____ standard by (company) _____ If no, explain _____	
	How flushing flow was obtained <input type="checkbox"/> Public water <input type="checkbox"/> Tank or reservoir <input type="checkbox"/> Fire pump	Through what type opening <input type="checkbox"/> Hydrant butt <input type="checkbox"/> Open pipe
	Lead-ins flushed according to standard by _____ (company) _____ If no, explain _____	
	How flushing flow was obtained <input type="checkbox"/> Public Water <input type="checkbox"/> Tank or reservoir <input type="checkbox"/> Fire Pump	Through what type opening <input type="checkbox"/> Y connection to flange and spigot <input type="checkbox"/> Open pipe

Hydrostatic Test	All new underground piping hydrostatically tested at _____ psi for _____ hours		Joints Covered <input type="checkbox"/> Yes <input type="checkbox"/> No	
Leakage Tests	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 connection 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				
For Office Use Only				
Date Information Received				
Received By				
Comments				