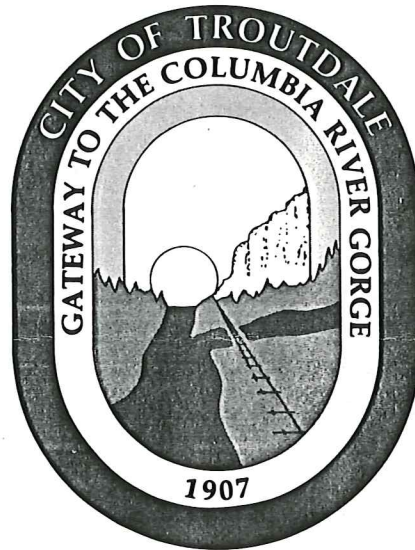


41-00901



CITY OF TROUTDALE

CONSTRUCTION STANDARDS

FOR

PUBLIC WORKS

FACILITIES

JANUARY 1995

21. All backflow prevention devices (double check backflow preventors, reduced pressure backflow preventors, pressure and atmospheric vacuum breakers, etc.) must be approved by the Oregon State Health Division. All service lines greater than 1-inch shall have a double check backflow preventor as minimum protection. All 3/4-inch and 1-inch water services shall have a minimum of a single check valve installed by the City if a backflow prevention device is not required of the property owner and/or developer.

22. The builder/developer must provide to the City any guarantee or warranty normally furnished with the purchase of any equipment or materials used in connection with the project at hand. In addition, they must furnish the City a written warranty providing satisfactory in-service operation of all work performed by affected contractor (including, but not limited to mechanical, electrical, on-site permanent concrete structures, water main, valves, fire hydrants, etc.) for a period of two (2) years following date of project acceptance.

23. The following is a list of acceptable/existing materials and/or equipment currently in use by the City's water distribution system:

Water meters:

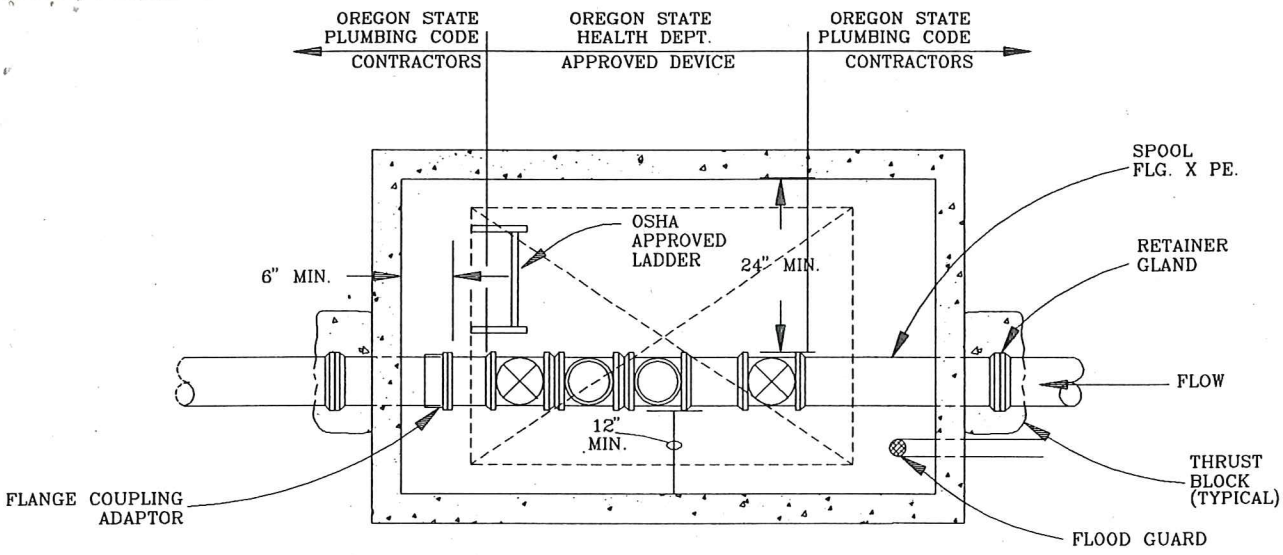
- 3/4" and 1" size: Sensus SRI with gallon register
- 1 1/2" and 2" size: Sensus SRI or Neptune with gallon register
- Fire hydrant meter: Neptune's Trident
- Compound Meter: Sensus only
- Turbine Meter: Sensus and Neptune's Trident
- Fire service meter assembly: Sensus and Neptune Protectus II
- * Note: All meters that are installed inside a vault considered to be a confined space must have a remote readout configuration.

Water Valves:

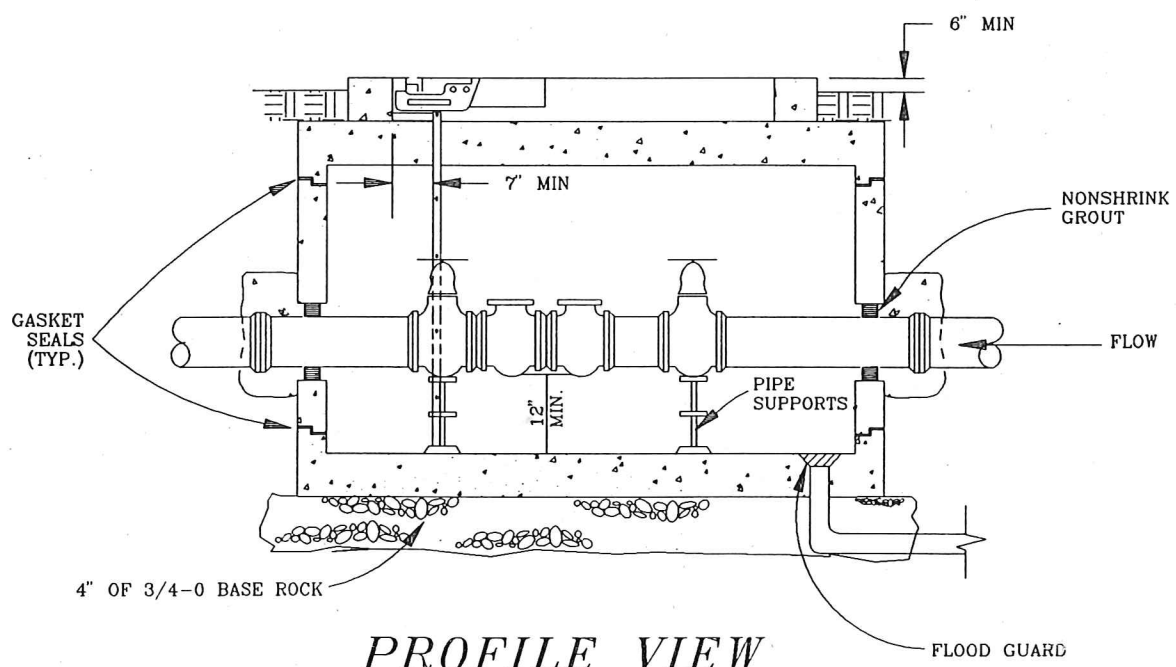
- 4", 6" and 8" diameter: AWWA gate valves
- 10" and 12" diameter: AWWA butterfly valves

Water Pipe:

- Large diameter (4" and greater): ductile iron, class 52
- Fittings: Ductile Iron Class 350
- 1 1/2" and 2" diameter: Type K, soft or rigid copper
- 3/4" and 1": Type K, soft copper
- 3/4" and 1" brass fittings: McDonald MAC-PAK, Mueller C110 and Ford PAC joint



PLAN VIEW



PROFILE VIEW

GENERAL NOTES:

1. THE INSTALLATION/REMOVAL OF EQUIPMENT IN VAULT WILL DETERMINE THE NUMBER OF DOORS REQUIRED.
2. DCVA'S MAY BE INSTALLED BELOW GRADE IN A VAULT PROVIDED PLUGS ARE INSTALLED IN THE TEST COCKS & ADEQUATE DRAINAGE IS PROVIDED. DEVICES SHALL NOT BE SUBJECT TO CONTINUOUS IMMERSIONS.
3. DOORS SHALL BE GALVANIZED DIAMOND PLATE AND SPRING ASSISTED W/H-20 RATING FOR TRAFFIC AREAS; AND, H-10 RATING FOR LANDSCAPED AREAS.
4. D.C. BACKFLOW DEVICES USED FOR FIRE STANDBY, REQUIRE A DETECTOR CHECK METER AND BACKFLOW DEVICE.
5. USE ONLY OREGON STATE HEALTH DIVISION APPROVED BACKFLOW DEVICES.
6. TYPE OF VAULT REQUIRED WILL BE DETERMINED AS FOLLOWS:

D.D.C SIZE	VAULT SIZE WITH F.D.C.	VAULT SIZE WITHOUT F.D.C.	H-20 GALV. DOOR SIZE
4"	676-WA	577-LA	36" X 36"
6"	687-WA	676-WA	36" X 36"
8"	5106-LA	687-WA	36" X 36"
10"	5106-LA	5106-LA	36" X 36"

CITY OF TROUTDALE

**DOUBLE CHECK
BACKFLOW
PREVENTOR DEVICE
VAULT**

DATE: UPDATED 1995	DRAWING NO. IV - 13
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rates as established in the water rates ordinance, for the appropriate size of meter, plus any other charges due, or past-due, the city. This charge is primarily intended for, but not limited to, those users requesting discontinuance of service for prolonged periods. (Ord. 443-O (part), 1985; Ord. 279 § 17, 1979)

13.04.440 Liability for damages.

A. The user shall be liable for any damage to equipment owned by the water division which is caused by an act of the user, his tenants, agents, employees, contractors, licensees or permittees. Damage to equipment shall include but not be limited to damage by hot water or steam, and damaged meter boxes, curb stops, meter stops and other service appurtenances.

B. The city shall not be liable for damage resulting from the interruption in service, temporary changes in pressure, or from the lack of service. Temporary suspension of service by the water division for improvements and repairs will be necessary occasionally. Whenever possible, and when time permits, all users affected will be notified prior to shut-downs.

C. The city shall not be liable for any loss or damage of any nature whatsoever caused by any defect in the user's line, plumbing or equipment. The user shall be responsible for valves on his premises being turned off when the water service is turned on. (Ord. 279 § 6(B), (E), (H), 1979)

13.04.450 Access to property.

The duly appointed employees of the city, under the direction of the director,

shall have free access at all reasonable hours of the day as determined by the city council, to any and all parts of structures and premises in which water is or may be delivered for the purpose of inspecting connections, the condition of conduits and fixtures, reading, installing, removing or repairing water meters and determining the manner and extent in which the water is being used. In the event that a public health and safety hazard exists or there is cause to believe that such hazards exist duly appointed employees shall have reasonable access to the premises as necessary to correct and eliminate such hazards. The water division does not, however, assume the duty of inspecting the user line, plumbing and equipment and shall not be responsible therefor. (Ord. 279 § 20, 1979)

13.04.460 Enforcement authority.

The building official is the city official with the authority and responsibility for enforcing this chapter. (Ord. 279 § 3, 1979)

13.04.470 Wasteful use of water unlawful.

No person shall wastefully or negligently use water in such a manner as to adversely affect the service of the water system. (Ord. 279 § 5(D), 1979)

13.04.480 Cross-connections.

No person shall make any cross-connections of any kind to the public water system with any other water supply whether private or public without the written approval of the director. Included in, but not limited to, this category are all pipelines, appurtenances and facilities of

the water system and all pipes, appurtenances, pumps, tanks, storage reservoirs, facilities, equipment, appliances, etc., of other systems, whether located within or on public or private property or the premises of a water user. All plumbing within buildings served by the water system shall be so installed and all plumbing fixtures so constructed as to prevent pollution of water supply by back-siphonage or cross-connection. (Ord. 279 § 5(C), 1979)

13.04.490 Reselling of water unlawful.

It is unlawful for any user to resell water without first obtaining the authorization of the director and signing a special contract as approved by the city council. (Ord. 279 § 5(B), 1979)

13.04.500 Tampering with fire apparatus unlawful.

It is unlawful for any person other than those designated and authorized by the director to open any fire hydrant or standpipe belonging to the water system, attempt to draw water from it or in any manner damage or tamper with it. No tool other than special hydrant wrenches shall be used to operate a hydrant valve. In cases where a temporary service has been granted and water is received through a fire hydrant, an auxiliary external valve and meter will be provided by the water division to control the flow of water. (Ord. 279 § 5(F), 1979)

13.04.510 Tampering with water system unlawful.

It is unlawful for any person other than those designated and authorized by the

director, to operate, adjust or in any manner tamper with any part of the public water system of the city. Violators will be subject to penalties provided by this chapter. (Ord. 279 § 5(E), 1979)

13.04.520 Violation—Notice.

Whenever the director finds that any person has violated or is violating this chapter, or any prohibition, limitation or requirement contained in this chapter, he may serve upon such person a written notice stating the nature of the violation and providing a reasonable time, not to exceed thirty days, for the satisfactory correction thereof. (Ord. 279 § 21(A), 1979)

13.04.530 Violation—Hearing procedures.

A. In the event a person fails to comply with this chapter within a reasonable time as stated in the notice given pursuant to Section 13.04.520 of this chapter, the director may set a time for a hearing for such person to show cause why he should not be required to comply with this chapter.

B. In the event of such a hearing, the following procedure shall be followed:

1. A notice shall be served on the person in violation of this chapter;
2. The notice shall specify the time, date and place of the hearing;
3. The notice shall direct the person in violation of this chapter to show cause why he should not be required to comply with this chapter;
4. The notice shall also inform the person in violation of this chapter of any other action which may be taken by the city council or other hearing officer;