

ORDINANCE NO.110

CROSS CONNECTION ORDINANCE.

Pursuant to Chapter 333, Division 61 of the Oregon Administrative Rules, it is the responsibility of the City of Detroit to protect its drinking water by systematically identifying and controlling cross connections. Now therefore, the City of Detroit, Oregon ordains as follows:

CITY OF DETROIT WATER DEPARTMENT CROSS CONNECTION REGULATIONS

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SECTION 1. Definitions. As used in this ordinance, the following mean:

Water Department. An administrative unit of the City of Detroit.

Cross Connection. Any physical arrangement where a public water system is connected directly or indirectly, with any other non-drinkable water system or auxiliary system, sewer, drain conduit, swimming pool, storage reservoir, plumbing fixture, swamp coolers, or any other device which contains, or may contain, contaminated water, sewage, or other liquid of unknown or unsafe quality which may be capable of imparting contamination to the public water system as a result of backflow. Bypass arrangements, jumper connections, removable sections, swivel or change over devices, or other temporary or permanent devices through which, or because of which, backflow may occur are considered to be cross connections.

Backflow. The flow in the direction opposite to the normal flow, or the introduction of any foreign liquids, gases or substances into the water system of City of Detroit.

Auxiliary supply. Any water source or system other than the public water system, that may be available in the building or on the premises.

Approved backflow prevention device. A device to counteract back pressures or prevent back siphonage. This device must appear on the list of approved devices issued by the Oregon State Health Division.

Reduced pressure principle device. An assembly containing two independently acting approved check valves together with a hydraulically-operated, mechanically independent pressure differential relief valve located between the check valves and at the same time below the first check valve. The device shall include properly located test cocks and tightly closing shut off valves at the end of the assemble. A check valve is approved if it appears on the list of approved devices issued by the Oregon State Health Division.

Premises. Any piece of land to which water is provided including all structures, improvements, manufactured home(s) and structure located on it.

SECTION 2. Purpose. The purpose of these regulations is to protect the City of Detroit water supply from contamination or pollution due to any existing or potential cross connections.

SECTION 3. Cross Connections Regulated. No cross connections shall be created, installed, used or maintained within the territory served by the City of Detroit Water Department, except in accordance with these regulations.

SECTION 4. Backflow Prevention Device Requirement. Approved backflow prevention devices shall be installed at the expense of the user, either at the service connection or within the premises, as determined by a certified cross connection inspector, employed by the City of Detroit in each of the following circumstances:

(1) If the nature and extent of any activity of the premises, or the materials used in connection with any activity of the premises, or materials stored on the premises, could contaminate or pollute the drinking water supply.

(2) On premises having any one or more cross connections as that term is defined in section 1.

(3) Internal cross connections that are not correctable, or intricate plumbing arrangements which make it impractical to ascertain whether or not cross connections exist.

(4) A repeated history of cross connections being established or re-established.

(5) Unduly restricted entry so that inspections for cross connections cannot be made with sufficient frequency or with sufficient notice to assure that cross connections do not exist.

(6) Materials of a toxic or hazardous nature being used such that, if back siphonage should occur, a health hazard could result.

(7) Any mobile apparatus which uses the City of Detroit Water System or water from any premises within the system.

(8) On any premise where installation of an approved backflow prevention device is deemed to be necessary to accomplish the purpose of these regulations in the judgement of a certified cross connection specialist employed by the City of Detroit.

(9) On any premise where an appropriate cross connection report form has not filed with the Water Department.

SECTION 5. Installation Requirements. To ensure proper operation and accessibility of all backflow prevention devices, the following requirements shall apply to the installation of these devices.

(1) No part of the backflow prevention device shall be submerged in water or installed in a location subject to flooding. If installed in a vault or basement, adequate drainage shall be provided.

(2) Devices must be installed at the point of delivery of the water supply, before any branch in the line, on private property located just inside of the property line. Alternate locations must be approved in writing by the Water Department prior to installations.

(3) The device must be protected from freezing and other severe weather conditions.

(4) All backflow device prevention assemblies shall be of a type and model approved by the State of Oregon, Health Division and Water Department.

(5) Only devices specifically approved by the Oregon Health Division, for vertical installation may be installed vertically.

(6) The device shall be readily accessible with adequate room for maintenance and testing. Devices 2" and smaller shall have at least 6" clearance on all sides of the device. All devices larger than 2" shall have a minimum clearance of 12" on the back side, 24" on the test cock side, 12" below the device and 36" above the device.

(7) The property owner assumes all responsibility, for all maintenance and annual testing of the device.

(8) If written permission is granted to install the backflow device inside of the building, the device shall be readily accessible during regular working hours of 8:00 a.m. to 5:00 p.m., Monday through Friday.

(9) If a device, with written permission, is installed inside of the premises and is 4" or larger and is installed 4' above the floor, it must be equipped with a rigidly and permanently installed scaffolding acceptable to the Water

Department. This installation must also meet the requirements set out by the U.S. Occupational Safety and Health Administration and The State of Oregon Occupational Safety and Health Codes.

(10) RP devices may be installed in a vault only if relief valve discharge can be drained to daylight through a "bore-sight" type drain. The drain shall be of adequate capacity to carry the full rated flow of the device, and shall be screened on both ends.

(11) An approved air gap shall be located at the relief valve orifice. This air gap shall be at least twice the inside diameter of the incoming supply line as measured vertically above the top rim of the drain, and in no case less than 1".

(12) Upon completion of installation the Water Department shall be notified, and all devices must be inspected and tested. All backflow devices must be registered with the Water Department. Registration shall consist of date of installation, make model, serial number of the backflow device, and initial test report.

(13) An air gap is not an approved means of cross connection protection in City of Detroit Water System.

(14) All new construction shall install an approved backflow device at the service connection.

SECTION 6. Access to Premises. Authorized employees of the City of Detroit, shall have access during reasonable hours to all parts of a premise, and within the building to which water is supplied. However, if any water user refuses access to a premise, or to the interior of a structure at reasonable times and on reasonable notice, for inspection by a cross connection inspector appointed by the Water Department, a reduced pressure principle device will be required to be installed at the service connection to that premise.

SECTION 7. Annual Testing and Repairs. All backflow devices installed within the territory served by the City of Detroit Water System shall be tested immediately upon installation, and annually thereafter by a state certified tester. All such devices found not functioning properly shall be promptly repaired or replaced, by the water user. If any such device is not promptly repaired or replaced, the Water Department may deny or discontinue water to the premise. All testing and repairs are the financial responsibility of the water user.

SECTION 8. Variances. Any variance from these requirements shall be requested in writing by the owner, and approved by the Water Department prior to device installation.

SECTION 9. Costs of Compliance. All costs associated with purchase, installation, inspections, testing, replacement, maintenance, parts, and repairs of the backflow device are the financial responsibility of the water user.

SECTION 10. Termination of Service. Failure on the part of any customer to discontinue the use of all cross connections, and to physically separate cross connections is sufficient cause, for the immediate discontinuance of public water service to the premises. (OAR chapter 333-061-070, section 1)

SECTION 11. Severability. Should any section, subsection, paragraph, sentence, clause or phrase of this ordinance be declared invalid, such declaration shall not affect the validity of any other section, subsection, paragraph, sentence, clause or phrase; and if this ordinance or any portion thereof should be held to be invalid on one ground, but valid on another it shall be construed that the valid ground is the one upon which the ordinance, or such portion thereof was enacted.

SECTION 12. Emergency. It being necessary for the peace, health, safety and sound development of the City of Detroit an emergency is hereby declared to exist; and this ordinance shall take effect immediately upon its passage by the council and signature by the mayor.

Read first in full and by title only at the council meeting on April 13, 1993, and read a second time by title only at the council meeting on the 13 day of APRIL, 1993. Passed by a vote of 5 ayes and 0 nays of the City Council this 13 day of APRIL 1993.

Signed and approved by the mayor, and signed by the recorder this 13 day of APRIL 1993.



Mayor

ATTEST: 

City Recorder