

RESOLUTION

A RESOLUTION DECLARING THE NEED FOR THE ADOPTION OF THE INTERNATIONAL PLUMBING CODE, 2015 EDITION AND SETTING FORTH CERTAIN LOCAL AMENDMENTS TO SAID CODES.

WHEREAS, the Council of The City of Oklahoma City finds that said City needs an up- to-date code of ordinances to provide for the safety, health and public welfare through properly designed, acceptably installed and adequately maintained plumbing systems; and

WHEREAS, the Plumbing Code Review and Appeals Commission has recommended that the International Plumbing Code, 2015 may be adapted to the needs of The City by changing the wording of certain sections thereto, by deletion of certain sections thereto, by addition thereto of certain sections, and by adding thereto certain sections peculiarly suitable to this City; and

WHEREAS, it is the desire of the Council to make such changes in the International Plumbing Code, 2015 Edition, before considering it for approval as amended.

NOW, THEREFORE, BE IT RESOLVED by the Council of The City of Oklahoma City, that the International Plumbing Code, and the same hereby is ordered amended and changed in the following respects:

CHAPTER 1. SCOPE AND ADMINISTRATION

Section 101.1 through **Section 101.2** is hereby deleted in favor of Section 42-1 through 42-2 of the 2010-2017 Cumulative Annual Supplement of The City of Oklahoma City Municipal Code, 2010.

Section 103.1 through **Section 103.3** is hereby deleted in favor of Sections 42-21 through 42-22 of the 2010-2017 Cumulative Annual Supplement of The City of Oklahoma City Municipal Code, 2010.

Sections 104 is hereby deleted in favor of Sections 42-23 through 42-30 of the 2010-2017 Cumulative Annual Supplement of The City of Oklahoma City Municipal Code, 2010.

Sections 106 is hereby deleted in favor of Sections 42-35 through 42-50 and Sections 42-66 through 42-67 of the 2010-2017 Cumulative Annual Supplement of The City of Oklahoma City Municipal Code, 2010.

Section 108.4 through **Section 108.5** is hereby deleted in favor of Section 42-25 through 42-30 of the 2010-2017 Cumulative Annual Supplement of The City of Oklahoma City Municipal Code, 2010.

Section 109 is hereby deleted in favor of Sections 42-96 through 42-124 of the Oklahoma City Municipal Code, 2010.

CHAPTER 3. GENERAL REGULATIONS

Section 305.3 is amended to read as follows:

305.3 Pipes through foundation walls. Any pipe that passes through a foundation wall shall be provided with a relieving arch or pipe sleeve pipe shall be built into the foundation wall. The relieving arch or pipe sleeve shall conform to one of the materials and standards listed in Table 702.2, or as approved. The sleeve shall be two pipe sizes greater than the pipe passing through the wall.

Section 305.4.1 is amended to read as follows:

305.4.1 Sewer depth. Building sewers that connect to private sewage disposal systems shall be a minimum of 12 inches (305 mm) or as approved by the authority having jurisdiction below finished grade at the point of septic tank connection. Building sewers shall be a minimum of 12 inches (305 mm) below grade.

Section 305.7.1 is hereby added to read as follows:

305.7.1 Construction Equipment. Construction equipment such as backhoes or bobcats, etc., shall not be permitted within a stem wall area or foundation perimeter after the plumbing system has been installed.

Exception: Construction equipment shall be permitted within said prohibited areas where such equipment does not travel over or adjacent to the plumbing system subjecting it to physical damage, provided, however, that the code official shall be notified prior to the work and shall verify that no damage is done to the installation. Additional testing and inspection shall be required when construction equipment has been removed and before slab work is started.

Section 312.2 is amended to read as follows:

312.2 Drainage and vent water test. A water test shall be applied to the drainage system either in its entirety or in sections. If applied to the entire system, all openings in the piping shall be tightly closed, except the highest opening, and the system shall be filled with water to the point of overflow. If the system is tested in sections, each opening shall be tightly plugged except the highest openings of the section under test, and each section shall be filled with water, but no section shall be tested with less than a 5-foot (1524 mm) head of water. In testing successive

sections, at least the upper 5 feet (1524 mm) of the next preceding section shall be tested so that no joint or pipe in the building, except the uppermost 5 feet (1524 mm) of the system, shall have been submitted to a test of less than a 5-foot (1524 mm) head of water. This pressure shall be held for at least 15 minutes. The system shall then be tight at all points.

312.3 is amended to read as follows:

312.3 Drainage and vent air test. Plastic piping shall not be tested using air. An air test shall be made by forcing air into the system until there is a uniform gauge pressure of 2.5 psi (17.25 kPa) or sufficient to balance a 5-inch (127 mm) column of mercury. This test shall be held for a period of not less than 15 minutes. Any adjustments to the test pressure required because of changes in ambient temperatures or the seating of gaskets shall be made prior to the beginning of the test period.

Section 312.6 is amended to read as follows:

312.6 Gravity sewer test. Where required, gravity sewer tests shall consist of plugging the end of the building sewer at the point of connection with the public sewer, filling the building sewer with water, testing with not less than a 5-foot (1524 mm) head of water and maintaining such pressure for 15 minutes.

CHAPTER 4. FIXTURES, FAUCETS AND FIXTURE FITTINGS

Section 424.6.1 is hereby added to read as follows:

424.6.1 Hose connected outlets. All hose connected outlets installed where there is no access to the frost-proof sillcock connection, shall be secured to the structure in an approved manner.

CHAPTER 6. WATER SUPPLY AND DISTRIBUTION

Section 608.7 is hereby amended to read as follows:

608.7 Valves and outlets prohibited below grade. Potable water outlets and combination stop-and-waste valves shall not be installed underground or below grade. Freezeproof yard hydrants that drain the riser into the ground are considered to be stop-and-waste valves. Sanitary hydrants are not considered stop-and-waste valves.

Exception: Freezeproof yard hydrants that drain the riser into the ground shall be permitted to be installed, provided that the potable water supply to such hydrants is protected upstream of the hydrants in accordance with Section 608 and the hydrants are permanently identified as nonpotable outlets by approved signage that reads as follows: "Caution, Nonpotable Water. Do Not Drink."

Section 608.14.2 is hereby amended to read as follows:

608.14.2 Protection of backflow preventers. Backflow preventers shall not be located in areas subject to freezing except where they are protected from freezing by heat, insulation or both.

Section 608.14.2.2 is hereby added to read as follows:

608.14.2.2 Access and Clearance. Access and clearance shall be provided for the required testing, repair and maintenance of all backflow preventers. Access shall be in accordance with the manufacturer's instructions, and there shall not be less than twelve inches of access in 5 directions. An adequate service platform is required for backflow preventers installed over five feet above the floor or grade.

Section 608.16.5.1 is hereby added to read as follows:

608.16.5.1 Installation. Before a final approval is given on lawn or irrigation systems, freeze protection shall be provided for all valves and piping installed in a location subject to freezing. The installing plumbing contractor shall install a separate shut-off valve for the irrigation system in accordance with Sections 55-82-(h) of the 2010-2017 Cumulative Annual Supplement of The Oklahoma City Municipal Code, 2010. All wiring and electrical controls shall be installed in accordance with the current National Electrical Code.

Section 608.16.11 is hereby added to read as follows:

608.16.11 Aquatic Recreation Facilities. Openings and outlets shall be protected by a reduced pressure principle backflow prevention assembly or a reduced pressure principle fire protection backflow prevention assembly on potable water supplies. All Splash Pads, Spray Parks, and similar installations shall have the potable water supply protected by a reduced pressure principle backflow prevention assembly

CHAPTER 7. SANITARY DRAINAGE

Section 701.2 is amended to read as follows:

701.2 Sewer required. Every building in which plumbing fixtures are installed and all premises having drainage piping shall be connected to a public sewer, or an approved private sewage disposal system in accordance with the International Private Sewage Disposal Code, where public mains are located more than 750 feet (229 meters) from the proposed building.

701.5.1 is hereby added to read as follows:

701.5.1 Splash Pads and Spray Parks. All Splash Pads and Spray Park waste receptors shall be trapped and discharge to the sanitary drainage system. The minimum size of any incorporated drainage system piping shall not be less than three inches. A backwater valve with accessible cleanouts shall be installed in Splash Pads and Spray Park drainage service systems.

Section 705.11.2 is amended to read as follows:

705.11.2 Solvent cementing. Joint surfaces shall be clean and free from moisture. A purple primer that conforms to ASTM F 656 shall be applied. Solvent cement not purple in color and conforming to ASTM D 2564, CSA B137.3, CSA B181.2 or CSA B182.1 shall be applied to all joint surfaces. The joint shall be made while the cement is wet and shall be in accordance with ASTM D 2855. Solvent-cement joints are permitted above or below ground.

Section 708.1.12 is hereby added to read as follows:

708.1.12 Directional cleanouts. All drainage pipe that exits a structure, shall be provided with cleanouts that serve both directions. All backwater valves and outside interceptors shall have directional cleanouts installed on each side of and in opposing directions away from the equipment.

CHAPTER 9. VENTS

Section 903.1 is amended to read as follows:

903.1 Roof extension. Open vent pipes that extend through a roof shall be terminated not less than 10 inches (254 mm) above the roof. Where a roof is to be used for assembly or as a promenade, observation deck, sunbathing deck or similar purposes open vent pipes shall terminate not less than 7 feet (2134 mm) above the finished occupiable surface within 10 feet (3048 mm) horizontal distance.

CHAPTER 10. TRAPS, INTERCEPTORS AND SEPARATORS

Section 1003.3.6.1 is hereby added to read as follows:

Sizing gravity type interceptors. Gravity type interceptors shall be sized using Table 1003.3.6.1(2). To determine the number of drainage fixture units that will be flowing through the interceptor refer to table 709.1. Multiple compartment dishwashing sinks shall be sized using the PDI G101 method found at 8.3.2 using a 2-minute drain time. Convert the GPM into DFUs using table 1003.3.6.1(1), however, these DFU values shall not be less than the drainage fixture unit values given for the indirect waste receptor in Table 709.2. After finding the total number of DFUs flowing to the interceptor find the minimum corresponding size using table 1003.3.6.1(2). Gravity interceptors shall be a minimum size of 1000 gallon.

Table 1003.3.6.1(1)

GPM	DFUs
Up to 7 ½	1
Greater than 7 ½ to 15	2
Greater than 15 to 30	4
Greater than 30 to 50	6

Table 1003.3.6.1(2)

DFUs	Interceptor Volume in Gallons
35	1000
90	1250
172	1500
216	2000
307	2500
342	3000
428	4000
576	5000
720	7500
2112	10000
2640	15000

Section 1003.4 is amended to read as follows:

1003.4 Oil separators required. At repair garages where floor or trench drains are provided, car washing facilities, factories where oily and flammable liquid wastes are produced and hydraulic elevator pits, oil separators shall be installed into which oil-bearing, grease-bearing or flammable wastes shall be discharged before emptying into the building drainage system or other point of disposal. Each elevator hoistway shall be provided with a sump pump or drain installed in accordance with section 301.6 and shall have the capacity to remove 3000 gallons per hour (50gallons per minute) (189 liters per minute). Sump pumps shall indirectly discharge to a standpipe that is connected to the sanitary drainage system. The standpipe shall have a diameter of 4 inches minimum.

Exceptions:

- (1) An oil separator is not required in hydraulic elevator pits where an approved alarm system is installed. Such alarm systems shall not terminate the operation of pumps utilized to maintain emergency operation of the elevator by fire fighters.

CHAPTER 11. Storm Drainage

Section 1101.7 is amended to read as follows:

1101.7 Roof design. Roofs shall be designed for the maximum possible depth of water that will pond thereon as determined by the relative levels of roof deck and overflow weirs, scuppers, edges or serviceable drains in combination with the deflected structural elements. In determining the maximum possible depth of water, all primary roof drainage means shall be assumed to be blocked. The maximum possible depth of water on the roof shall include the height of the water required above the inlet of the secondary roof drainage means to achieve the required flow rate

of secondary drainage means to accommodate the design rainfall rate as required by Section 1108.

Section 1102.4 is amended to read as follows:

1102.4 Building storm sewer pipe. Building storm sewer pipe shall conform to one of the standards listed in Table 1102.4. High density double wall corrugated polyethylene (HDPE) storm drainage piping systems are accepted as a material equivalent system under section 316 Alternative Engineered Design when installed in accordance with the manufacture’s installation instructions.

Table 1108.1 is added to read as follows:

Table 1108.1 Size of Secondary Scuppers for a 10.2-inch per hour rate of rainfall. A table has been inserted with two columns, both with four rows beneath. The first column title is "Head in inches" and the second column title is "Horizontally Projected Roof Area (square feet) Length of Weir in inches". The second column should have seven sub-columns labeled 4, 6, 8, 12, 16, 20 and 24. Below is the "Head in inches" column with the corresponding "Length of Weir in inches" for each of the sub-columns. Row 1 Head in inches, sub-column 4 is 112, sub-column 6 is 169, sub-column 8 is 226, sub-column 12 is 339, sub-column 16 is 452, sub-column 20 is 565, and sub-column 24 is 678. Row 2. Head in inches, sub-column 4 is 314, sub-column 6 is 471, sub-column 8 is 628, sub-column 12 is 942, sub-column 16 is 1256, sub-column 20 is 1571, and sub-column 24 is 1885. Row 3. Head in inches, sub-column 4 is 565, sub-column 6 is 848, sub-column 8 is 1130, sub-column 12 is 1696, sub-column 16 is 2262, sub-column 20 is 2828, and sub-column 24 is 3393. Row 4. Head in inches, sub-column 4 is 879, sub-column 6 is 1319, sub-column 8 is 1759, sub-column 12 is 2637, sub-column 16 is 3519, sub-column 20 is 4399, and sub-column 24 is 5279

Head in Inches	Length of Weir in Inches						
	4	6	8	12	16	20	24
1	112	169	226	339	452	565	678
2	314	471	628	942	1256	1571	1885
3	565	848	1130	1696	2262	2828	3393
4	879	1319	1759	2637	3519	4399	5279

For SI: 1-inch equals 25.4 mm. Notes: To adjust this table for other than a 10.2-inch design rain fall rate multiple the square footage on the table by 10.2 then divided by the design rainfall rate. This table does not apply to scuppers with a vertical opening height that is less than the head height. Example: For 4 inches of design rainfall rate, a 4-inch long scupper with a 1-inch head would accommodate 286 square feet (112 times 10.2) divided by 4 equals 286.

Section 1108.3 is amended to read as follows:

1108.3 Sizing of secondary drains. Secondary (emergency) roof drain systems or scuppers shall be sized in accordance with Section 1108 based on a rainfall rate of 10.2 inches per hour. In sizing secondary roof drain systems using Tables 1106.2, 1106.3 and 1106.6, the Horizontally Projected Roof Area shall be determined by dividing the Horizontally Projected Roof Area for 1-inch rain fall per hour rate by 10.2 inches per hour. Scuppers shall be sized to prevent the depth of ponding water from exceeding that for which the roof was designed as determined by Section 1101.7. Scuppers shall not have an opening dimension of less than 4 inches (102 mm). The flow through the primary system shall not be considered when sizing the secondary roof drain system or scuppers. Scuppers shall be sized in accordance with Table 1108.1 or by other national methods using the head height of water and flow rate of the scupper.

CHAPTER 13. NONPOTABLE WATER SYSTEMS

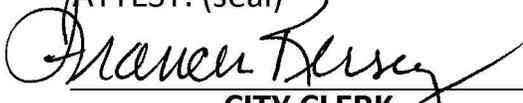
Section 1301.9.6 is amended to read as follows:

1301.9.6 Overflow. The storage tank shall be equipped with an overflow pipe having a diameter not less than that shown in Table 606.5.4. The overflow pipe shall be protected from insects or vermin and shall discharge in a manner consistent with storm water runoff requirements of the jurisdiction. The overflow pipe shall discharge at a sufficient distance from the tank to avoid damaging the tank foundation or the adjacent property. Drainage from overflow pipes shall be directed to prevent freezing on walkways. The overflow drain shall not be equipped with a shutoff valve. A cleanout shall be provided on each overflow pipe in accordance with Section 708.

ADOPTED by the City Council of the City of Oklahoma City and **SIGNED** by the

Mayor this 3rd day of March, 2020,

ATTEST: (seal)


CITY CLERK




MAYOR

REVIEWED for form and legality.

ASSISTANT MUNICIPAL COUNSELOR