

**Amendments and deletions to the 2009 Edition of the International Plumbing Code
Ordinance #12-020**

- A. The International Plumbing Code, 2009 Edition, referred to in this Chapter as the “IPC” and the International Fuel Gas Code, 2009 Edition, referred to in this Chapter as the “IFGC”, as adopted and published by the International Code Council are herein adopted and designated, together with the additions, deletions, and amendments hereinafter contained, as the Plumbing Code of the City, the same as though such Codes were copied at length herein. Copies of the IPC and IFGC adopted in this Section shall be kept on file in the office of the City Secretary.

Further, **Article I, Section 1.03, Intent**, is hereby amended so that said section shall be and read as follows:

Section 1.03 Intent

The purpose of this Code is to provide minimum standards to safeguard life, limb, health, property and the public welfare by regulating and controlling the design, construction, installation, quality of materials, location, operations and maintenance or use of piping systems, fixtures, plumbing equipment and systems used for water, sewage, and fuel gas plumbing systems.

Further, **Article I, Section 1.04, Scope, Subsection (A)**, is hereby amended so that said subsection shall be and read as follows:

- A. The provisions of this code shall apply to the erection, installation, alteration, repairs, relocation, replacement, addition to, use or maintenance of plumbing systems within this jurisdiction. This code shall also regulate nonflammable medical gas, inhalation anesthetic, vacuum piping, nonmedical oxygen systems and sanitary and condensate vacuum collection systems. The installation of fuel gas distribution piping and equipment, fuel-gas-fired water heaters and water heater venting systems shall be regulated by the International Fuel Gas Code. Provisions in the appendices shall not apply unless specifically adopted.

Exception: Detached one- and two-family dwellings and multiple single-family dwellings (townhouses) not more than three stories high with separate means of egress and their accessory structures shall comply with the International Residential Code.

Further, **Article I, Section 1.05, Amendments, Additions and Deletions – IPC, Subsection (C)**, is hereby amended so that said subsection shall be and read as follows:

- C. By the deletion of the following sections of the IPC in their entirety:

1. The deletion of Section 101, entitled General.
2. The deletion of Section 109, Means of appeal.

Further, **Article I, Section 1.05, Subsection (D)**, is hereby amended so that said subsection shall be and read as follows:

D. By the amendment and addition of the following sections of the IPC:

1. Adoption of Appendices C, Gray Water Recycling Systems; and F, Structural Safety.
2. The amendment of the Table of Contents, Chapter 7, Section 714, to read as follows:

Section 714 Engineered Drainage Design 67

3. The amendment of Section 102.8, Referenced codes and standards, to read as follows:

102.8 Referenced codes and standards. The codes and standards referenced in this code shall be those that are listed in Chapter 13 and such codes and standards shall be considered part of the requirements of this code to the prescribed extent of each such reference. Where the requirements of reference standards or manufacturer's installation instructions do not conform to minimum provisions of this code, the provisions of this code shall apply. Whenever amendments have been adopted to the referenced codes and standards, each reference to said code and standard shall be considered to reference the amendments as well. Any reference to NFPA 70 or the ICC *Electrical Code* shall mean the Electrical Code as adopted.

Exception: Where enforcement of a code provision would violate the conditions of the listing of the equipment or appliance, the conditions of the listing and the manufacturer's installation instruction shall apply.

4. The amendment of Section 103.1, General, to read as follows.

103.1 General. The executive official in charge of plumbing inspection shall be known as the Code Official.

5. The amendment of Section 104.4, Right of entry, to read as follows:

104.4 Right of entry. Whenever it is necessary to make an inspection to enforce the provisions of this chapter, or whenever the Code Official has

reasonable cause to believe that there exists in any building or upon any premises any conditions or violations of this chapter that make the building or premises unsafe, unsanitary, dangerous or hazardous, the Code Official shall have the authority to enter the building or premises at all reasonable times to inspect or to perform the duties imposed upon the Code Official by this chapter. If such building or premises is occupied, the Code Official shall present credentials to the occupant and request entry. If such building or premises is unoccupied, the Code Official shall first make a reasonable effort to locate the owner or other person having charge or control of the building or premises and request entry. If entry is refused, the Code Official shall have recourse to every remedy provided by law to secure entry.

When the Code Official shall have first obtained a proper inspection warrant pursuant to the "Municipal Court" Chapter of the Code of the City of Arlington no owner or occupant or person having charge, care or control of any building or premises shall fail or neglect, after proper request is made as herein provided, to promptly permit entry therein by the Code Official.

6. The amendment of Section 106.1, When required, to read as follows:

106.1 When required. Any owner, authorized agent or contractor who desires to construct, enlarge, alter, repair, move, demolish or change the occupancy of a building or structure, or to erect, install, enlarge, alter, repair, remove, convert or replace any plumbing system, the installation of which is regulated by this code, or to cause any such work to be done, shall first make application to the code official and obtain the required permit for the work. A permit may only be issued to a registrant as provided in Article III of this Chapter.

7. The deletion of Section 106.4, By whom application is made, in its entirety.

8. The amendment of Section 106.5, Permit issuance, to read as follows:

106.5 Permit issuance. The application, construction documents and other data filed by an applicant for permit shall be reviewed by the code official. If the code official finds that the proposed work conforms to the requirements of this code and all laws and ordinances applicable thereto, and that the fees as established by resolution of the City Council from time to time, a permit shall be issued.

9. The amendment of Section 106.6, Fees and refunds, to read as follows:

106.6 Fees and refunds. Any person, firm or corporation desiring a permit as required by this Plumbing Code shall, at or before the time of

permit issuance, pay a fee as specified in the fee structure as approved by the City Council of the City of Arlington by resolution and which may be amended from time to time by said City Council.

106.6.1 Any person who commences any work on a plumbing system before obtaining the necessary permits shall be subject to 100 percent of the usual permit fee in addition to the required permit fees.

106.6.2 Standards. The fee standards as set out in the Construction Chapter shall apply to calculations and fees.

106.6.3 Refund of a fee submitted for any administrative action under this Chapter shall be made in accordance with Section 4.12 of the "Construction" Chapter.

106.6.4 When the replacement of a contractor occurs during a project for which a permit has been issued pursuant to this Mechanical Code, the Administrative Authority may prorate the amount of the permit fee for the new contractor based on said Administrative Authority's determination of the percentage of work remaining.

106.6.5 When it is determined after a permit has been issued that the scope of work is to be significantly changed, the Administrative Authority may authorize and require that appropriate adjustments be effected to the permit fee. Any increase in the permit fee shall be paid prior to performing any part of such increased scope of work. Any decrease in the permit fee which is based on previously approved work which will not be performed as earlier defined may be refunded in the amount of fifty percent (50%) of the fee represented by the percentage of work not to be performed; provided, however, that determination of such percentage and specific authorization of such refund shall be issued by the Administrative Authority. Refunds, if made, shall be made to the original permittee in accordance with Article IV of the Construction Chapter.

10. The amendment of Section 107.1, General, by adding an exception to read as follows:

EXCEPTION: The owner of a property may choose to contract with a Third Party Provider that is properly registered with the City for inspections. Inspections performed by Third Party Organizations are subject to the terms of the program as authorized by resolution of the City Council of the City of Arlington. A Third Party Provider shall not be authorized to grant a Certificate of Occupancy.

11. The amendment of Section 107.4, Testing, to read as follows:

107.4 Testing. Plumbing work and systems shall be tested as required in Section 312 and in accordance with Sections 107.4.1 through 107.4.3. Tests shall be made by the permit holder and may be observed by the code official.

12. The amendment of Section 108.4, Violation penalties, to read as follows:

108.4 Violation penalties. It shall be unlawful for any person, firm or corporation to erect, construct, enlarge, alter, repair, move, improve, remove, convert or demolish, equip, use or maintain any mechanical systems or equipment or cause or permit the same to be done in violation of this Code.

A person convicted of violating any of the provisions of this Code shall be guilty of a misdemeanor and each day or portion thereof during which any such violation continues shall be a separate offense. Each offense shall be punishable by a fine of not more than \$2,000.00.

The issuing or granting of a permit or approval of plans and specifications by the City shall not be deemed or construed to be a permit for, or an approval of, any violation of any of the provisions of this Code or any other ordinance of the City. No permit presuming to give authority to violate or cancel the provisions of this Code, or any other ordinance of the City, shall be valid, except insofar as the work or use which is authorized is lawful.

The issuing or granting of a permit or approval of plans by the City shall not prevent the Administrative Authority from thereafter requiring the correction of errors in said plans and specifications or from preventing construction operations being carried on thereunder when in violation of this Code or of any other ordinance of the City, or from revoking any certificate of approval when issued in error.

13. The amendment of Section 108.5, entitled Stop work orders, to read as follows:

108.5 Stop work orders. Any work is being done contrary to the provisions of this Code, the Administrative Authority may order the work stopped by notice in writing served on any persons engaged in the doing or causing such work to be done. Any such person shall forthwith stop such work until:

- a. He or she is authorized by the Administrative Authority to proceed with the work; or

- b. An appeal perfected pursuant to Section 2.03 has resulted in a waiver of the condition causing the stop order, or a finding that there is no cause for a stop order.

Failure to stop such work, in addition to penalties and remedies elsewhere set forth, shall void any appeal.

- 14. The amendment of Section 202 to amend the definition of “Code Official” and the addition of new definitions to read as follows:

BUILDING CODE. Building Code shall mean the *International Building Code* and the *International Residential Code* as adopted by this jurisdiction.

CODE OFFICIAL. The officer or other designated authority charged with the administration and enforcement of this code, or a duly authorized representative. For the purpose of this code, the Code Official shall be the Building Official or designee.

ELECTRICAL CODE. Electrical Code shall mean the National Electrical Code as adopted by this jurisdiction. For the purpose of this code, all references to NFPA 70 shall be assumed to mean the Electrical Code as defined herein.

ENERGY CODE. Energy Code shall mean the *International Energy Conservation Code* as adopted by this jurisdiction.

FIRE PREVENTION CODE (FIRE CODE). Fire Prevention Code shall mean the *International Fire Code* as adopted by this jurisdiction.

MECHANICAL CODE. Mechanical Code shall mean the *International Mechanical Code™* as adopted by this jurisdiction.

PLUMBING CODE. Plumbing Code shall mean the *International Plumbing Code™* as adopted by this jurisdiction.

SHALL. Shall, as it applies to an act or duty to be performed by the Code Official pursuant to any section of the Code, is discretionary. Its use in all other applications in this Code shall be mandatory.

- 15. The amendment of Section 301.3, Connections to the sanitary drainage system, to add the following exception:

Exception: Bathtubs, showers, lavatories, clothes washers and laundry trays shall not be required to discharge to the sanitary drainage system

where such fixtures discharge to an approved gray water system for flushing of water closets and urinals.

16. The amendment of Section 305.6, Freezing, to read as follows:

305.6 Freezing. Water, soil or waste pipes shall not be installed outside of a building, in attics or crawl spaces, concealed in outside walls, or in any other place subjected to freezing unless adequate provision is made to protect such pipe from freezing. Piping in unheated attic, crawl space areas, and exterior walls shall be protected with not less than three-quarters of an inch (3/4") (19.05 mm) thickness of approved pipe insulation. Joints in insulation shall be sealed per manufacturer installation requirements. The use of tape for joining the insulation is prohibited. Water service piping shall be not less than 12 inches (305 mm) deep or less than 6 inches (152 mm) below the frost line.

17. The amendment of Section 305.6.1, Sewer depth, to read as follows:

305.6.1 Sewer depth. Building sewers that connect to private sewage disposal systems shall be a minimum of 12 inches (304 mm) below finished grade at the point of septic tank connection. Building sewers shall be a minimum of 12 inches (304 mm) below grade.

18. The amendment of Section 305.9, Protection of components of plumbing systems, to read as follows:

305.9 Protection of components of plumbing system. Components of a plumbing system installed within 3 feet along alleyways, driveways, parking garages or other locations in a manner in which they would be exposed to damage shall be recessed into the wall or otherwise protected in an approved manner.

19. The deletion of Section 310.5, Urinal partitions, in its entirety.

20. The amendment of Section 312.2, Drainage and vent water test, to read as follows:

312.2 Drainage and vent water test. A water test shall be applied to the building drain 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 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. The water shall be kept in the system, or in the portion under test, for at least 15 minutes before inspection starts. The system shall then be tight at all points.

21. The amendment of Section 312.6, Gravity sewer test, to read as follows:

312.6 Gravity sewer test. 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.

22. The amendment of Section 312.10.1, Inspections, to read as follows:

312.10.1 Inspections. When required by the Water Resources Services Division, annual inspections shall be made of all backflow prevention assemblies and air gaps to determine whether they are operable. In the absence of local provisions, the owner is responsible to ensure that inspections are performed annually.

23. The amendment of Section 312.10.2, Testing, to read as follows:

312.10.2 Testing. Reduced pressure principle backflow preventer assemblies, double check-valve assemblies, double-detector check valve assemblies and pressure vacuum breaker assemblies shall be tested at the time of installation, immediately after repairs or relocation and when otherwise required by the Water Resources Services Division. The testing procedure shall be performed in accordance as required by the Water Resources Division. In the absence of local provisions, the owner is responsible to ensure that testing is performed at least annually and is done in accordance with one of the following standards:

ASSE 5013, ASSE 5015, ASSE 5020, ASSE 5047, ASSE 5048, ASSE 5052, ASSE 5056, CSA B64.10 OR CAS B64.10.1

24. The amendment of Section [M]314.2.1, Condensate disposal, to read as follows:

[M]314.2.1 Condensate disposal. Condensate from all cooling coils and evaporators shall be conveyed from the drain pan outlet to a permanently wet p-trap. Condensate shall not discharge in a publicly exposed area such as into a street, alley, sidewalk or other areas so as to cause a nuisance.

EXCEPTIONS:

1. Condensate may discharge directly to a roof drain that connects to an underground storm sewer system,
 2. Condensate may discharge directly onto roofs covered with membrane type roof coverings where the condensate will drain to a roof drain that connects to an underground storm sewer system,
 3. Condensate may discharge to a landscaped area containing flowers and other bedding plants other than turf. There must be five square feet of landscaped area for each ton of refrigeration, or
 4. Condensate may discharge to a French drain consisting of a pit excavated below grade that is not less than 24 inches (610 mm) in any dimension. The pit shall be filled with coarse gravel and the drainpipe shall extend into the pit and be securely anchored. A single drain shall not receive the condensate discharge of more than 10 tons nominal of combined cooling capacity. The pit shall be covered with sod after inspection. The French drain shall not be located so that it will receive direct discharge from a roof or a downspout.
25. The amendment of Section [M]314.2.2, Drain pipe materials and sizes, to read as follows:
- [M]314.2.2 Drain pipe materials and sizes.** Components of the condensate disposal system shall be cast iron, galvanized steel, copper, cross-linked polyethylene, polybutylene, polyethylene, ABS, CPVC or PVC pipe or tubing. When piping is installed to be exposed to sunlight, the Components of the condensate disposal system shall be cast iron, galvanized steel, copper, or schedule 80 PVC pipe or tubing. All components shall be selected for the pressure, temperature and exposure rating of the installation. Joints and connections shall be made in accordance with the applicable provisions of Chapter 7 of the International Plumbing Code relative to the material type. Condensate waste and drain line size shall be not less than ¾-inch (19 mm) internal diameter and shall not decrease in size from the drain pan connection to the place of condensate disposal. Where the drain pipes from more than one unit are manifolded together for condensate drainage, the pipe or tubing shall be sized in accordance with Table [M]314.2.2.
26. The amendment of Section 403.1, Minimum number of fixtures, to read as follows:

403.1 Minimum number of fixtures. Plumbing fixtures shall be provided for the type of occupancy and in the minimum number shown in Table 403.1. Types of occupancies not shown in Table 403.1 shall be considered individually by the building official. The number of occupants shall be determined by the International Building Code unless sufficient data is approved by the building official for a different number of occupants. Occupancy classification shall be determined in accordance with the International Building Code.

27. The addition of Section 403.5, Additional fixtures for food preparation facilities, to read as follows:

403.5 Additional fixtures for food preparation facilities. In addition to the fixtures required in this Chapter, all food service facilities shall be provided with additional fixtures set out in this section.

403.5.1 Hand washing lavatory. At least one hand washing lavatory shall be provided for use by employees that is accessible from food preparation, food dispensing and warewashing areas. Additional hand washing lavatories may be required based on convenience of use by employees.

403.5.2 Service sink. In new or remodeled food service establishments, at least one service sink or one floor sink shall be provided so that it is conveniently located for the cleaning of mops or similar wet floor cleaning tools and for the disposal of mop water and similar liquid waste. The location of the service sink(s) and/or mop sink(s) shall be approved by the City of Arlington health department.

28. The amendment of Table 403.1, MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES, to amend footnote "e" and "f" and add footnote "g" to read as follows:

e. The minimum number of drinking fountains shall comply with Table 2902.1 and Chapter 11. Drinking fountains shall not be installed in toilet rooms.

f. Drinking fountains are not required for an occupant load 30 or less and for dining and/or drinking establishments.

g. Where urinals are provided, urinals shall not be substituted for more than 67% of the required water closets in assembly and educational occupancies. Urinals shall not be substituted for more than 50% of the required water closets in all other occupancies.

29. The amendment of exception #3 to Section 403.2 to read as follows:

3. Separate facilities shall not be required in mercantile occupancies in which the maximum occupant load is 100 or less.
30. The deletion of Section 405.6, Plumbing in mental health centers, in its entirety.
31. The amendment of Section 409.2, Water connection, to read as follows:

409.2 Water connection. The water supply to a commercial dishwashing machine shall be protected against back-flow by an air gap or back-flow prevention in accordance with Section 608.
32. The amendment of Section 410.1, Approval, to read as follows:

410.1 Approval. Drinking fountains shall conform to ASME A112.19.1M, ASME A112.19.2M or ASME A112.19.9M and water coolers shall conform to ARI 1010. Drinking fountains and water coolers shall conform to NSF 61, Section 9. Where water is served in restaurants, drinking fountains shall not be required.
33. The amendment of Section 412.4, Public laundries and central washing facilities, to read as follows:

412.4 Required location. Floor drains shall be installed in the following areas.

 1. Toilet rooms containing two (2) or more water closets or a combination of one (1) water closet and one (1) urinal.

Exception: Dwelling units.
 2. Commercial kitchens.

Exception: In lieu of floor drains in commercial kitchens, the code official may accept floor sinks when the floor sinks are installed to readily drain the entire floor area.
 3. In public coin-operated laundries and in the central washing facilities of multiple-family dwellings, the rooms containing automatic clothes washers shall have floor drains located to readily drain the entire floor area. Such drains shall have a minimum outlet of not less than 3 inches (76 mm) in diameter.

34. The addition of Section 414.3, Rain water, to read as follows:

414.3 Rain water. The receptacle receiving waste from the wash area shall be protected in such a manner as to prevent the intrusion of rain water. The location of the receptacle is subject to the approval of the Water Resource Division of Water Utilities.

35. The amendment of Section 419.3, Surrounding material, to read as follows:

[B]419.3 Surrounding material. Wall and floor space to a point 2 feet (610 mm) in front of a urinal lip and 4 feet (1219 mm) above the floor and at least 2 feet (610 mm) to each side of the urinal shall be waterproofed with a smooth, readily cleanable, hard, nonabsorbent material.

36. The amendment of Section 502.3, Water heaters installed in attics, to read as follows:

502.3 Water heaters installed in attics. Attics containing a water heater shall be provided with an opening and unobstructed passageway large enough to allow removal of the water heater. The passageway shall not be less than 30 inches (762 mm) high and 22 inches (559 mm) wide and not more than 20 feet (6096 mm) in length when measured along the centerline of the passageway from the opening to the water heater. The passageway shall have continuous solid flooring not less than 24 inches (610 mm) wide. A level service space at least 30 inches (762 mm) deep and 30 inches (762 mm) wide shall be present at the front or service side of the water heater. The clear access opening dimensions shall be a minimum of 20 inches by 30 inches (508 mm by 762 mm), or larger where such dimensions are not large enough to allow removal of the water heater.

37. The addition of Section 502.3.1, Electrical requirements, to read as follows:

502.3.1 Electrical requirements. A lighting fixture controlled by a switch located at the required passageway opening and a receptacle outlet shall be provided at or within 25 feet (7619 mm) of the equipment location in accordance with the electrical code.

38. The addition of Section 502.6, Water heaters above ground or floor, to read as follows:

502.6 Water heaters above ground or floor. When the mezzanine or platform in which a water heater is installed is more than eight (8) feet

(2438 mm) above the ground or floor level, it shall be made accessible by a stairway or permanent ladder fastened to the building.

Exception: A water heater not larger than 10 gallons in size may be installed above a lay-in ceiling not more than ten (10) feet (3048 mm) in height.

39. The addition of Section 502.7, Illumination and electrical outlet requirements, to read as follows:

502.7 Illumination and electrical outlet requirements. Whenever the mezzanine or platform is not adequately lighted and/or access to a receptacle outlet is not available from the main level within 25' of water heater, lighting and a receptacle outlet shall be provided in accordance with Section 502.1.

40. The amendment of Section 504.6, Requirements for discharge piping, by adding item #14 to read as follows:

14. When discharging outside the building, the point of discharge shall be with the end of the pipe not more than two (2) feet (610 mm) nor less than six (6) inches (152 mm) above the ground.

41. The amendment of Table 604.4, MAXIMUM FLOW RATES AND CONSUMPTION FOR PLUMBING FIXTURES AND FIXTURE FITTINGS, to read as follows:

TABLE 604.4
MAXIMUM FLOW RATES AND CONSUMPTION FOR PLUMBING
FIXTURES AND FIXTURE FITTINGS

PLUMBING FIXTURE OR FIXTURE FITTING	MAXIMUM FLOW RATE OR QUANTITY ^b
Lavatory, private	2.2 gpm at 60 psi
Sink or faucet aerator	2.2 gpm at 60 psi
Shower head ^a	2.5 gpm at 80 psi
Sink faucet	2.2 gpm at 60 psi
Urinal ^c	1.0 gallon per flushing cycle
Water closet ^d	1.6 gallons per flushing cycle

For SI: 1 gallon = 3.785 L, 1 gallon per minute = 3.785 L/m, 1 pound per square inch = 6.895 kPa.

- a. A hand-held shower spray is a shower head.
- b. Consumption tolerances shall be determined from referenced standards.
- c. The urinal and any associated flush valve, must meet the performance, testing, and labeling requirements prescribed by

American Society of Mechanical Engineers Standard – ASME A112.19.2-2008 and Canadian Standards Association Standard – CSA B45.1-2008.

- d. The water closet must meet the performance, testing, and labeling requirements prescribed by American Society of Mechanical Engineers Standard – ASME A112.19.2-2008 and Canadian Standards Association Standard – CSA B45.1-2008.

42. The amendment of Section 606.1 to delete items #3, 4 and 5, so that Section 606.1 reads as follows:

606.1 Location of full-open valves. Full-open valves shall be installed in the following locations:

1. On the building water service pipe from the public water supply near the curb.
2. On the water distribution supply pipe at the entrance into the structure.
3. On the entrance to every water supply pipe to a dwelling unit, except where supplying a single fixture equipped with individual stops.
4. On the water supply pipe to a gravity or pressurized water tank.
5. On the water supply pipe to every water heater.

43. The amendment of Section 606.2, Location of shutoff valves, to delete item #2 and renumber item #3.

44. The amendment of Section 608.14, Location of backflow preventers, to read as follows:

608.14 Location of backflow preventers. Access shall be provided to backflow preventers as specified by the installation instructions of the approved manufacturer. Backflow prevention devices shall not be installed greater than 4 feet (1219.2 mm) above the finished floor level or an approved working platform.

45. The amendment of Section 608.16.5, Connections to lawn irrigation systems, to read as follows:

608.16.5 Connections to lawn irrigation systems. The potable water supply system to lawn irrigation systems shall be protected against backflow by an atmospheric-type vacuum breaker, a pressure type

vacuum breaker, a double-check assembly or a reduced pressure principle backflow preventer. A valve shall not be installed downstream from an atmospheric vacuum breaker. Where chemicals are introduced into the system, the potable water supply shall be protected against backflow by a reduced pressure principle backflow preventer.

- 46. The amendment of Section 608.17, Protection of individual water supplies, to read as follows:

608.17 Protection of individual water supplies. An individual water supply shall be located and constructed so as to be safeguarded against contamination in accordance with applicable local regulations. In the absence of other local regulations, installation shall be in accordance with Sections 608.17.1 through 608.17.8.

- 47. The amendment of Section 701.2, Sewer required, 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, where available, or an approved private sewage disposal system in accordance with county regulation. The availability of the public sewer to the building shall be determined by the Water Utilities Department.

- 48. The amendment of Section 701.5, Damage to drainage system or public sewer, to read as follows:

701.5 Damage to drainage system or public sewer. Wastes detrimental to the public sewer system or detrimental to the functioning of the sewer treatment plant, as determined by the Water Resources Division of the Water Utilities Department, shall be disposed of or treated as directed by the Water Resources Division of the Water Utilities Department. A sewer line receiving such waste or with potential to receive such waste shall be fitted with a test well specified by the Water Resources Division of the Water Utilities Department.

- 49. The amendment of Table 702.2, UNDERGROUND BUILDING DRAINAGE AND VENT PIPE, to read as follows:

TABLE 702.2
UNDERGROUND BUILDING DRAINAGE AND VENT PIPE

MATERIAL	STANDARD
Acrylonitrile butadiene styrene (ABS) plastic pipe in IPS diameters, including schedule 40, DR 22 (PS 200) and	ASTM D 2661; ASTM F 628; ASTM F 1488; CSA B181.1

DR 24 (PS 140); with a solid, cellular core, or composite wall	
Asbestos-cement pipe	ASTM C 428
Cast-iron pipe	ASTM A 74; ASTM A 888; CISPI 301
Copper or copper-alloy tubing (Type K, L, M or DWV)	ASTM B 75; ASTM B 88; ASTM B 251; ASTM B 306
Polyolefin pipe	ASTM F 1412; CAN/CSA B181.3
Polyvinyl chloride (PVC) plastic pipe in IPS diameters, including schedule 40, DR 22 (PS 200) and DR 24 (PS 140); with a solid, cellular core, or composite wall	ASTM D 2665; ASTM F 891; ASTM F 1488; CSA B181.2
Polyvinylidene fluoride (PVDF) plastic pipe	ASTM F 1673; CAN/CSA B181.3
Stainless steel drainage systems, Type 316L	ASME A 112.3.1

50. The amendment of Table 702.3, BUILDING SEWER PIPE, to read as follows:

TABLE 702.3
BUILDING SEWER PIPE

MATERIAL	STANDARD
Acrylonitrile butadiene styrene (ABS) plastic pipe in IPS diameters, including schedule 40, DR 22 (PS 200) and DR 24 (PS 140); with a solid, cellular core or composite wall	ASTM D 2661; ASTM F 628; ASTM F 1488; CSA B181.1
Acrylonitrile butadiene styrene (ABS) plastic pipe in sewer and drain diameters, including SDR 23.5 (PS 150) and PS 200; with a solid, cellular core or composite wall	ASTM F 1488; ASTM D 2751
Asbestos-cement pipe	ASTM C 428
Cast-iron pipe	ASTM A 74; ASTM A 888; CISPI 301
Concrete pipe	ASTM C14; ASTM C76; CAN/CSA A257.1M; CAN/CSA A257.2M
Copper or copper-alloy tubing	ASTM B 75; ASTM B 88;

(Type K or L)	ASTM B 251
Polyethylene (PE) plastic pipe (SDR-PR)	ASTM F 714
Polyvinyl chloride (PVC) plastic pipe in IPS diameters, including schedule 40, DR 22 (PS 200) and DR 24 (PS 140); with a solid, cellular core or composite wall	ASTM D 2665; ASTM F 891; ASTM F 1488
Polyvinyl chloride (PVC) plastic pipe in sewer and drain diameters, including PS 140 and PS 200; with a solid, cellular core or composite wall	ASTM F 891; ASTM F 1488; ASTM D 3034; CSA B182.2; CSA B182.4
Polyvinylidene fluoride (PVDF) plastic pipe	ASTM F 1673; CAN/CSA B181.3

51. The amendment of Section 702.5, Chemical waste system, to read as follows:

702.5 Chemical waste system. A chemical waste system shall be completely separated from the sanitary drainage system. The chemical waste shall be treated as required by the Water Resources Department before discharging to the sanitary drainage system. Separate drainage systems for chemical wastes and vent pipes shall be of an approved material that is resistant to corrosion and degradation for the concentrations of chemicals involved.

52. The addition of Section 712.5, Dual system, to read as follows:

712.5 Dual system. All sumps that receive the discharge of more than 10 fixture units, shall be provided with dual pumps or ejectors arranged to function independently and alternating between each pump or ejector per cycle. For storm drainage sumps and pumping systems, see Section 1113.

53. The amendment of the title of Section 714 to be as follows:

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54. The amendment of Section 714.1, Design of drainage system, to read as follows:

714.1 Design of drainage system. The sizing requirement for plumbing drainage systems shall be determined by approved design methods.

55. The amendment of Section 802.1.1, Food Handling, to read as follows:

802.1.1 Food Handling. Equipment and fixtures utilized for the storage, preparation and handling of food shall discharge through an indirect waste pipe by means of an air gap into a floor sink.

56. The amendment of Section 802.4, Standpipes, to read as follows:

802.4 Standpipes. Standpipes shall be individually trapped. Standpipes shall extend a minimum of 18 inches (457mm) and a maximum of 42 inches (1066mm) above the trap weir. Access shall be provided to all standpipe traps and drains for rodding. The p-trap on the standpipe for a washing machine shall not be installed below the floor.

57. The amendment of Section 803.2, Neutralizing device required for corrosive wastes, to read as follows:

803.2 Neutralizing device required for corrosive wastes. Corrosive liquids, spent acids or other harmful chemicals that destroy or injure a drain, sewer, soil or waste pipe, or create noxious or toxic fumes or interfere with sewage treatment processes, shall not be discharged into the plumbing system unless approved by the Water Resources Department and the Code Official. Such devices shall be automatically provided with a sufficient supply of diluting water or neutralizing medium so as to make the contents noninjurious before discharge into the drainage system. The nature of the corrosive or harmful waste and the method of its treatment or dilution shall be approved prior to installation.

58. The addition of Section 803.4, Backwash from swimming pools, to read as follows:

803.4 Backwash from swimming pools. Any backwash from a swimming pool shall discharge into the sanitary sewer system. An indirect connection shall be made by means of an air gap discharging into a tail piece with the opening installed a minimum of 6 inches (152 mm) above adjacent grade. A minimum size 3-inch (76 mm) p-trap installed not less than 12 inches (304 mm) below grade may connect to the yard cleanout riser by a sanitary tee fitting.

59. The amendment of Section 904.1, Roof extension, to read as follows:

904.1 Roof extension. All open vent pipes that extend through a roof shall be terminated at least six (6) inches (152mm) above the roof, except

that where a roof is to be used for any purpose other than weather protection, the vent extension shall be run at least 7 feet (2134mm) above the roof.

60. The deletion of exception 3 from Section 1002.1.

61. The deletion of Section 1002.10 in its entirety.

62. The amendment of Section 1003.2, Approval, to read as follows:

1003.2 Approval. All requirements regarding the size, type, location and listing of interceptors and/or separators shall be regulated by the Water Utilities Department. All installations of interceptors and/or separators shall be inspected by the code official.

63. The deletion of Sections 1003.3, 1003.4, 1003.5, 1003.6, 1003.7 and 1003.8 in their entirety.

64. The renumbering of Sections 1003.9 and 1003.10 to 1003.3 and 1003.4, respectively.

65. The addition of Section 1003.5, Test wells, to read as follows:

1003.5 Test wells. The size, type, location and listing of test wells shall be regulated by the Water Resources Department. A test well shall be installed on the outlet of each individual interceptor and/or separator. The installation of a test well shall include a retaining device as specified by the Water Resources Department. All installations of test wells shall be inspected by the code official.

66. The amendment of Section 1101.3, Prohibited drainage, to read as follows:

1101.3 Prohibited drainage. Storm water shall not be drained into sewers intended for sewage only or over sidewalks intended for public use.

67. The amendment of Section 1106.1, General, to read as follows:

1106.1 General. The size of the vertical conductors and leader, building storm drains, building storm sewers, and any horizontal branches of such drains or sewers shall be based on six (6) inches per hour rainfall rate.

68. The amendment of Section 1107.3, Sizing of secondary drains, to read as follows:

1107.3 Sizing of secondary drains. Secondary (emergency) roof drain systems shall be sized in accordance with Section 1106. 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.

69. The addition of Section 1202.2, Requirements for medical gas installations and installers, to read as follows:

1202.2 Requirements for medical gas installations and installers. All persons, firms or individuals must be registered with the City of Arlington as required by this code in order to install or alter medical gas installations. In order to be qualified to register as a medical gas installer, the Responsible Master Plumber must also hold a current Medical Gas Installation Endorsement as issued by the Texas State Board of Plumbing Examiners. All individuals installing and/or altering piping systems used to transport gases for medical purposes shall be a master or journeyman plumber that also holds a current Medical Gas Installation Endorsement as issued by the Texas State Board of Plumbing Examiners.

70. The addition of Section 1202.3, Testing and certification of medical gas systems, to read as follows:

1202.3 Testing and certification of medical gas systems. All testing and certification of medical gas piping systems shall be performed by an individual that is certified to do so. All testing and certification shall be done in accordance with NFPA 99C. A City of Arlington “Medical Gas Piping System Installation Compliance Certificate” and “Medical Gas Piping System Verification Certificate of Compliance” shall be submitted to the code official at or prior to requesting a final inspection.