

**Ordinance No. 22-\_\_\_\_\_**

**An ordinance amending the “Plumbing” Chapter of the Code of the City of Arlington, Texas, 1987, through the amendment of Article I, General Provisions, relative to adopting the 2021 Edition of the International Plumbing Code and the 2021 Edition of the International Fuel Gas Code; adopting local amendments and associated appendices; providing for a fine of up to \$2,000 for each violation; providing this ordinance be cumulative; and providing for severability, governmental immunity, injunctions, publication, and an effective date**

WHEREAS, after receipt of public comment in accordance with Section 214.217 of the Texas Local Government Code, and upon the advice and recommendation of the Mechanical and Plumbing Board of Appeals, the City Council finds that it is in the public interest to adopt the 2021 Editions of the International Plumbing Code and the International Fuel Gas Code for the preservation of public safety and the general welfare of its citizens; NOW, THEREFORE,

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF ARLINGTON, TEXAS:

1.

That the “Plumbing” Chapter of the Code of the City of Arlington, Texas, 1987, as amended, **Article I, General Provisions, Sections 1.01 through 1.06**, are hereby repealed and replaced in their entirety and shall hereafter read as follows:

**ARTICLE I**

**GENERAL PROVISIONS**

**Section 1.01 Designation of Code**

The provisions of this Chapter, including the adopted portions of the International Plumbing Code and the International Fuel Gas Code, as amended, are hereby designated the Plumbing Code of the City of Arlington, also referred to in this Chapter as “the Code” or “this Code”.

### **Section 1.015 Electronic Submittal of Final Plans and Other Documents**

Final plans or other documents required to be submitted under this Chapter and that will be archived must be submitted in an electronic format specified by the Building Official as a condition to issuance of any type of permit, approval, or other action related to the final plans or documents. The Building Official shall provide a schedule indicating which documents must be provided electronically, at which point during the approval process, and other information as necessary to implement an electronic archiving program.

### **Section 1.02 Adoption of Code; Conflicts**

- A. The International Plumbing Code, 2021 Edition, referred to in this Chapter as the “IPC” and the International Fuel Gas Code, 2021 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 Building Official.
- B. In the event of a conflict between the adopted provisions of the IPC and IFGC and other provisions of this Chapter, the other (non-IPC and non-IFGC) provisions of this Chapter shall be controlling.

### **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.

### **Section 1.04 Scope**

- 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.

- B. This ordinance shall not be applied to work done by the employees of the City in the scope of their employment or other companies furnishing water in the laying of water mains and services and City sewer mains and services, or to the installation of gas distributing mains and services in the streets and alleys by employees of the gas distributing company, or any work performed by such gas distributing company on any piping or connection up to and including the outlet connections of the service meter. Nothing in this Code shall be construed as prohibiting an individual from negotiating with the gas company for the repairs, replacements, or installation of yard or service lines (that line carrying the unmeasured gas) on his/her premises or as requiring a license or bond from any gas company. Such work shall be performed by qualified employees of the gas company in accordance with all State and Federal regulations.
- C. If any section, subsection, sentence, clause or phrase of this code is for any reason held to be unconstitutional, such decision shall not affect the validity of the remaining portions of this code.

### **Section 1.05 Amendments, Additions and Deletions – IPC**

The adoption by reference of the International Plumbing Code, as provided in Section 1.02 hereof, is made subject to the following terms and is modified and amended as follows:

- A. By the addition thereto of Article II, et seq. of this Chapter.
- B. By the amendment of the following sections of the International Plumbing Code:
  - 1. Adoption of Appendix C, entitled **Structural Safety**.
  - 2. The deletion of Section 101, entitled **SCOPE AND GENERAL REQUIREMENTS**, in its entirety.
  - 3. The amendment of Section 102.8, entitled **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 15 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 National Electrical Code (NEC) 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, entitled **Creation of agency**, by retitling and amending the section to read as follows.

#### **103.1 General.**

The executive official in charge of plumbing inspection shall be the Code Official, also known as the Building Official or Administrative Authority.

5. The amendment of Section 104.4, entitled **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, or if no owner or other person having charge or control of the building or premises can be located, the Code Official shall have recourse to every remedy provided by law to secure entry.

6. The amendment of Section 106.1, entitled **Where 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, entitled **By whom application is made**, in its entirety.

8. The amendment of Section 106.5, entitled **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 have been paid in full, a permit shall be issued.

9. The amendment of Section 106, entitled **PERMITS**, to add Section 106.6, et seq, which shall 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 deletion of Section 109, entitled **FEES**, in its entirety.
11. The amendment of Section 112.1, entitled **General**, by adding an exception which shall 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.

12. The amendment of Section 112.4, entitled **Testing**, to read as follows:

**112.4 Testing.**

Plumbing work and systems shall be tested as required in Section 312 and in accordance with Sections 112.4.1 through 112.4.3. Tests shall be made by the permit holder and may be observed by the code official.

13. The deletion of Section 113, **MEANS OF APPEALS**, in its entirety.

14. The deletion of Section 114, **BOARD OF APPEALS**, in its entirety.
15. The amendment of Section 115.2, entitled **Notice of violation**, to read as follows:

**115.2 Notice of violation.**

The Code Official is authorized to serve a notice of violation or order to the person responsible for the erection, installation, alteration, extension, repair, removal or demolition of plumbing work in violation of the provisions of this Chapter, or in violation of a detail statement or the approved construction documents thereunder, or in violation of a permit or certificate issued under the provisions of this Chapter. Such order shall direct the discontinuance of the illegal action or condition and the abatement of the violation.

16. The deletion of Section 115.3, entitled **Prosecution of violation**, in its entirety.
17. The amendment of Section 115.4, entitled **Violation penalties**, to read as follows:

**115.4 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 plumbing work or other work or cause or permit the same to be done in violation of this Chapter. When not otherwise specified, each day that prohibited conditions are maintained shall constitute a separate offense.

If the definition of an offense under this Chapter does not prescribe a culpable mental state, then a culpable mental state is not required. Such offense shall be punishable by a fine not to exceed Five Hundred Dollars and No Cents (\$500.00). Although not required, if a culpable mental state is in fact alleged in the charge of the offense and the offense governs fire safety, zoning, or public health and sanitation, including dumping of refuse, such offense shall be punishable by a fine not to exceed Two Thousand Dollars and No Cents (\$2,000.00).

If the definition of an offense under this Chapter prescribes a culpable mental state and the offense governs fire safety, zoning, or public health and sanitation, including dumping of refuse, then a culpable mental state is required and the offense shall be punishable by a fine not to exceed Two Thousand Dollars and No Cents (\$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.

18. The amendment of Section 115.5, entitled **Abatement of Violation**, by retitling and amending the section to read as follows:

**115.5 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.

19. The deletion of Section 116, entitled **STOP WORK ORDER**, in its entirety.
20. The amendment of Section 202, entitled **GENERAL DEFINITIONS**, by amending the definition of “Code Official” and adding new definitions, which shall 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.

21. The amendment of Section 305.1, entitled **Protection against contact**, to read as follows:

**305.1 Protection against contact.**

Metallic piping, except for cast iron, ductile iron and galvanized steel, shall not be placed in direct contact with steel framing members, concrete or cinder walls and floors or other masonry. Metallic piping shall not be placed in direct contact with corrosive soil. Where sheathing is used to prevent direct contact, the sheathing shall have a thickness of not less than 0.008 inch (8 mil) (0.203 mm) and the sheathing shall be made of approved material. Where sheathing protects piping that penetrates concrete or masonry walls or floors, the sheathing shall be installed in a manner that allows movement of the piping within the sheathing.

22. The amendment of Section 305.4, entitled **Freezing**, to read as follows:

**305.4 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 unless approved per manufacturer. Water service piping shall be not less than 12 inches (305 mm) deep or less than 6 inches (152 mm) below the frost line.

23. The amendment of Section 305.4.1, entitled **Sewer depth**, to read as follows:

**305.4.1 Sewer depth.**

Building sewers shall be a minimum of 12 inches (304 mm) below grade.

24. The amendment of Section 306, entitled **TRENCHING, EXCAVATION AND BACKFILL**, by adding Section 306.2.4, entitled **Plastic sewer and DWV piping installation**, which shall read as follows:

**306.2.4 Plastic sewer and DWV piping installation.**

Plastic sewer and DWV piping installed underground shall be installed in accordance with the manufacturer's installation instructions. Trench width shall be controlled to not exceed the outside the pipe diameter plus 16 inches or in a trench which has a controlled width equal to the nominal diameter of the diameter of the piping multiplied by 1.25 plus 12 inches. The piping shall be bedded in 4 inches of granular fill and then backfilled compacting the side fill in 6-inch layers on each side of the piping. The compaction shall be to minimum of 85 percent standard proctor density and extend to a minimum of 6 inches above the top of the pipe.

25. The amendment of Section 312.10.1, entitled **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.

26. The amendment of Section 312.10.2, entitled **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 Services 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

27. The amendment of Section 314.2.1, entitled **Condensate disposal**, to read as follows:

**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.

28. The amendment of Section 403.2, entitled **Separate facilities**, by deleting Exception 6, in its entirety.
29. The amendment of Section 403, entitled **MINIMUM PLUMBING FACILITIES**, by adding Section 403.7, et seq., which shall read as follows:

**403.7 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.

**403.7.1 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.

**403.7.2 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.

30. The amendment of Section 413.4, entitled **Public laundries and central washing facilities**, by retitling and amending to read as follows:

**413.4 Required location for floor drains**

Public laundries and central washing facilities. Floor drains shall be installed in the following areas:

1. In public laundries and in the central washing facilities of multiple family dwellings, the rooms containing automatic clothes washers shall be provided with 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.
  2. Commercial kitchens. In lieu of floor drains in commercial kitchens, the Code Official may accept floor sinks.
  3. Public restrooms.
31. The amendment of Section 417, entitled **GARBAGE CAN WASHERS**, by adding Section 417.3, entitled **Rainwater**, which shall read as follows:

**417.3 Rainwater.**

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

32. The amendment of Section 424, entitled **URINALS**, by adding Section 424.3, entitled **Surrounding material**, to read as follows:

**424.3 Surrounding material.**

Wall and floor space to 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.

33. The amendment of Section 502.3, entitled **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 be not less than 30 inches (762 mm) in height and 22 inches (559 mm) in width 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) in width. A level service space of not less than 30 inches (762 mm) in length and 30 inches (762 mm) in width shall be present at the front or service side of the water heater. The clear access opening dimensions shall be not less than 20 inches by 30 inches (508 mm by 762 mm) where such dimensions are large enough to allow removal of the water heater. A walkway to an appliance shall be rated as a floor as approved by the building official. As a minimum, for access to the attic space, provide one of the following:

1. A permanent stair.
2. A pull down stair with a minimum 300 lb (136 kg) capacity.
3. An access door from an upper floor level.
4. Access Panel may be used in lieu of items 1, 2, and 3 with prior approval of the code official due to building conditions.

**Exceptions:**

1. The passageway and level service space are not required where the appliance is capable of being serviced and removed through the required opening.
  2. Where the passageway is not less than 6 feet high (1829 mm) for its entire length, the passageway shall not be limited in length.
34. The amendment of Section 502, entitled **INSTALLATION**, by adding Section 502.3.1, entitled **Electrical requirements**, which shall 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.

35. The amendment of Section 502, entitled **INSTALLATION**, by adding Section 502.6, entitled **Water heaters above ground or floor**, which shall read as follows:

**502.6 Water heaters above ground or floor.**

When the attic, roof, 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 maximum 10-gallon water heater (or larger with approval) is capable of being accessed through a lay-in ceiling and the water heater installed is not more than ten (10) feet (3048 mm) above the ground or floor level and may be reached with a portable ladder.

36. The amendment of Section 502, entitled **INSTALLATION**, by adding Section 502.7, entitled **Illumination and electrical outlet requirements**, which shall 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.

37. The amendment of Section 608.17.5, entitled **Connection to lawn irrigation systems**, to read as follows:

**608.17.5 Connections to lawn irrigation systems.**

The potable water supply 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 principal 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 principal backflow preventer.

38. The amendment of Section 703.6, entitled **Combined sanitary and storm public sewer**, by deleting in its entirety.

39. The amendment of Section 704, entitled **DRAINAGE PIPING INSTALLATION**, by adding Section 704.5, entitled **Single stack fittings**, to read as follows:

**704.5 Single stack fittings.**

Single stack fittings with internal baffle, PVC schedule 40 or cast-iron single stack shall be designed by a registered engineer and comply to a national recognized standard.

40. The amendment of Section 712, entitled **SUMPS AND EJECTORS**, by adding Section 712.4.3, entitled **Dual Pump System**, to read as follows:

**712.4.3 Dual Pump System.**

All sumps shall be automatically discharged and, when in any “public use” occupancy where the sump serves more than 10 fixture units, shall be provided with dual pumps or ejectors arranged to function independently in case of overload or mechanical failure. For storm drainage sumps and pumping systems, see Section 1113.

41. The amendment of Section 713, entitled **COMPUTERIZED DRAINAGE DESIGN**, to retitle Section 713 as **ENGINEERED COMPUTERIZED DRAINAGE DESIGN**.

42. The amendment of Section 713.1, entitled **Design of drainage system**, to read as follows:

**713.1 Design of drainage system.**

The sizing, design and layout of the drainage system shall be permitted to be designed by a registered engineer using approved computer design methods.

43. The amendment of Section 802.4.3, entitled **Standpipes**, to read as follows:

**802.4.3 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.

44. The amendment of Section 803, entitled **SPECIAL WASTES**, by adding Section 803.3, entitled **Backwash from swimming pools**, to read as follows:

**803.3 Backwash from swimming pools.**

Any backwash from a swimming pool shall discharge into the sanitary sewer system or other approved methods as allowed by the Texas Commission on Environmental Quality and the administrative authority. 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.

45. The amendment of Section 903, entitled **VENT TERMINALS**, by retitling and amending the section to read as follows:

**SECTION 903  
ROOF EXTENSIONS**

**903.1 Roof extension**

**903.1.1 Roof extension unprotected.**

Open vent pipes that extend through a roof shall terminate not less than six (6) inches (152 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 roof.

46. The amendment of Section 1003.2, entitled **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.

47. The amendment of Section 1003, entitled **INTERCEPTORS AND SEPARATORS**, by adding Section 1003.11, entitled **Test wells**, to read as follows:



**1003.11 Test wells.**

The size, type, location and listing of test wells shall be regulated by the Water Resources Division of the Water Utilities 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 Services Division of the Water Utilities Department. All installations of test wells shall be inspected by the code official.

- 48. The amendment of Section 1109, entitled **COMBINED SANITARY AND STORM PUBLIC SEWER**, by deleting in its entirety.
- 49. The amendment of Section 1202.1, entitled **Nonflammable medical gases**, by deleting Exceptions 1 and 2.
- 50. The amendment of Section 1202, entitled **MEDICAL GASES**, by adding Section 1202.2, entitled **Requirements for medical gas installations and installers**, which shall 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.

- 51. The amendment of Section 1202, entitled **MEDICAL GASES**, by adding Section 1202.3, entitled **Testing and certification of medical gas systems**, which shall 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.

## **Section 1.06 Amendments, Additions and Deletions - IFGC**

The adoption by reference of the International Fuel Gas Code, as provided in Section 1.02, is made subject to the following terms and is modified and amended as follows:

- A. By the addition of Article II, et seq., of this Chapter.
- B. By the amendment of the following sections of the IFGC:
  - 1. The adoption of IFGC Appendices A, B and C.
  - 2. The deletion of IFGC Section 101.1, entitled **Title**, and Section 101.4, entitled **Purpose**, in their entirety.
  - 3. The amendment of IFGC Section 102.8, entitled **Referenced codes and standards**, to read as follows:

### **102.8 Referenced codes and standards.**

The codes and standards referenced herein shall be those that are listed in Chapter 8 and such codes, when specifically adopted, and standards shall be considered part of the requirements of this code to the prescribed extent of each such reference. Where differences occur between provisions of this code and the referenced standards, 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 National Electrical Code (NEC) 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 instructions shall apply.

- 4. The amendment of Section 103.1, entitled **General**, to read as follows:

### **103.1 General.**

The executive official in charge of fuel gas inspection shall be known as the Code Official.

- 5. The deletion of Section 103.2, entitled **Appointment**, in its entirety.

- 6. The amendment of Section 104.1, entitled **General**, to read as follows:

### **104.1 General.**

The code official shall enforce all of the provisions of the ordinance governing the fuel gas piping and shall act on any question relative to the

installation, alteration, repair, maintenance or operation of systems, except as otherwise specifically provided for by statutory requirements or as provided for in Sections 104.2 through 104.7.

7. The amendment of Section 104.2, entitled **Applications and permits**, et seq., to read as follows:

**104.2 Applications and permits.**

A separate permit shall be obtained for each building or structure under the conditions stated in Article III, Section 3.01, et.seq., of this Chapter.

**104.2.1** A person commits an offense if he/she allows another to do or cause to be done any work under a permit other than the permittee or an employee of the permittee.

**104.2.2** After issuing a permit or granting approval of plans and specifications, the code official shall remain empowered to:

**104.2.2.1** Require the correction of errors in plans and specifications,

**104.2.2.2** Prevent the commencement or continuation of construction operations conducted under such plans and specifications when such operations are in violation of this Chapter or other ordinance.

**104.2.3** Every permit issued under this Chapter shall expire by limitation and become null and void if the work is suspended or abandoned for a period of one hundred eighty (180) days.

8. The amendment of Section 104.4, entitled **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, or if no owner or other

person having charge or control of the building or premises can be located, the Code Official shall have the recourse to every remedy by law to secure entry.

9. The amendment of Section 106, entitled **PERMITS**, by adding Section 106.6, entitled **Fees**, which shall read as follows:

**106.6 Fees.**

The standard for fee administration shall be as stated in IPC Section 106.6, as amended.

10. The deletion of Section 109, entitled **FEES**, in its entirety.
10. The deletion of Section 113, entitled **MEANS OF APPEAL**, in its entirety.
11. The deletion of Section 114, entitled **BOARD OF APPEAL**, in its entirety.
11. The amendment of Section 115.2, entitled **Notice of violation**, to read as follows:

**115.2 Notice of violation.**

The Code Official is authorized to serve a notice of violation or order to the person responsible for the erection, installation, alteration, extension, repair, removal or demolition of work in violation of the provisions of this Chapter, or in violation of a detail statement or the approved construction documents thereunder, or in violation of a permit or certificate issued under the provisions of this Chapter. Such order shall direct the discontinuance of the illegal action or condition and the abatement of the violation.

12. The deletion of Section 115.3, entitled **Prosecution of violation**, in its entirety.
13. The amendment of Section 115.4, entitled **Violation penalties**, to read as follows:

**115.4 Violation penalties.**

The provisions for violations of this code shall be as specified in IPC Section 115.4 at Section 1.05 of this Chapter.

14. The amendment of Section 115.5, entitled **Stop work orders**, to read as follows:

**115.5 Stop work orders.**

The provisions for stop work orders shall be the same as Section 115.5 of the International Plumbing Code, as amended by this Chapter.

15. The amendment of Section 115.6, entitled **Abatement of violation**, to read as follows:

**115.6 Abatement of violation.**

A fuel gas piping system found by the Code Official to be in violation of the Chapter is hereby declared to be a nuisance. The Code Official shall be empowered to abate such nuisances in the manner provided by Article IV of the “Nuisance” Chapter of the Code of the City of Arlington.

16. The deletion of Section 116, entitled **STOP WORK ORDER**, in its entirety.

17. The amendment of Section 306.3, entitled **Appliances in attics**, to read as follows:

**306.3 Appliances in attics.**

Attics containing appliances shall be provided with an opening and unobstructed passageway large enough to allow removal of the largest appliance. The passageway shall be not less than 30 inches (762 mm) in height and 22 inches (559 mm) in width and not more than 20 feet (6096 mm) in length when measured along the centerline of the passageway from the opening to the appliance. The passageway shall have continuous solid flooring not less than 24 inches (610 mm) in width. A level service space of not less than 30 inches (762 mm) in length and 30 inches (762 mm) in width shall be present at the front or service side of the appliance. The clear access opening dimensions shall be not less than 20 inches by 30 inches (508 mm by 762 mm) where such dimensions are large enough to allow removal of the largest appliance. A walkway to an appliance shall be rated as a floor as approved by the building official. As a minimum, for access to the attic space, provide one of the following:

1. A permanent stair.
2. A pull down stair with a minimum 300 lb (136 kg) capacity.
3. An access door from an upper floor level.
4. Access Panel may be used in lieu of items 1, 2, and 3 with prior approval of the code official due to building conditions.

**Exceptions:**

1. The passageway and level service space are not required where the appliance is capable of being serviced and removed through the required opening.

2. Where the passageway is not less than 6 feet (1829 mm) high and 22 inches (559 mm) wide for its entire length, the passageway shall be not greater than 50 feet (15 250 mm) in length.
18. The amendment of Section 306.5, entitled **Equipment and Appliances on Roofs or Elevated Structures**, to read as follows:

**306.5 Equipment and Appliances on Roofs or Elevated Structures.**

Where equipment requiring access or appliances are located on an elevated structure or the roof of a building such that personnel will have to climb higher than 16 feet (4877 mm) above grade to access, an interior or exterior means of access shall be provided. Exterior ladders providing roof access need not extend closer than 12 feet (2438 mm) to the finish grade or floor level below and shall extend to the equipment and appliances' level service space. Such access shall not require climbing over obstructions greater than 30 inches (762 mm) in height or walking on roofs having a slope greater than four units vertical in 12 units horizontal (33-percent slope). Such access shall not require the use of portable ladders. Where access involves climbing over parapet walls, the height shall be measured to the top of the parapet wall.

19. The amendment of Section 306.5.1, entitled **Sloped Roofs**, to read as follows:

**306.5.1 Sloped Roofs.**

Where appliances, equipment, fans or other components that require service are installed on a roof having a slope of three units vertical in 12 units horizontal (25-percent slope) or greater and having an edge more than 30 inches (762 mm) above grade at such edge, a catwalk at least 16 inches in width with substantial cleats spaced not more than 16 inches apart shall be provided from the roof access to a level platform at the appliance. The level platform shall be provided on each side of the appliance to which access is required for service, repair or maintenance. The platform shall be not less than 30 inches (762 mm) in any dimension and shall be provided with guards. The guards shall extend not less than 42 inches (1067 mm) above the platform, shall be constructed so as to prevent the passage of a 21-inch-diameter (533 mm) sphere and shall comply with the loading requirements for guards specified in the International Building Code. Access shall not require walking on roofs having a slope greater than four units vertical in 12 units horizontal (33-percent slope). Where access involves obstructions greater than 30 inches (762 mm) in height, such obstructions shall be provided with ladders installed in accordance with Section 306.5 or stairways installed in accordance with the requirements specified

in the International Building Code in the path of travel to and from appliances, fans or equipment requiring service.

20. The amendment of Section 306, entitled **ACCESS AND SERVICE SPACE**, by adding Section 306.7, entitled **Water heaters above ground or floor**, which shall read as follows:

**306.7 Water heaters above ground or floor.**

When the attic, roof, 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.

21. The amendment of Section 401.5, entitled **Identification**, by adding a second paragraph, which shall read as follows:

Both ends of each section of medium pressure gas piping shall identify its operating gas pressure with an *approved* tag. The tags are to be composed of aluminum or stainless steel and the following wording shall be stamped into the tag:

"WARNING  
1/2 to 5 psi gas pressure  
Do Not Remove"

22. The amendment of Section 401.7, entitled **Piping meter identification requirements**, to read as follows:

**401.7 Piping meter identification requirements.**

Piping from multiple meter installations shall be marked with aluminum, brass or stainless steel tags indicating address served so the piping system supplied by each meter is readily identifiable.

23. The amendment of Section 402.3, entitled **Sizing**, by adding an exception to read as follows:

**Exception:** Corrugated stainless steel tubing (CSST) shall be a minimum of 1/2".

24. The amendment of Section 404, entitled **PIPING SYSTEM INSTALLATION**, by adding Section 404.5.1, entitled **Additional protection of CSST piping**, which shall read as follows:

**404.5.1 Additional protection of CSST piping.**

Where Corrugated Stainless Steel Tubing (CSST) piping is installed in exterior wall cavities, insulated wall cavities and/or insulated

roof/ceiling assemblies, the CSST piping must be protected for its entire length with flexible metal conduit (per the UL-1 Standard or its equivalent), Schedule 40 steel pipe, or approved strike plates. The additional protection must extend a minimum of 18 inches (457.2 mm) beyond where the CSST piping exits the wall cavities and/or the roof/ceiling assemblies

25. The amendment of Section 404.12, entitled **Minimum burial depth**, to read as follows:

**404.12 Minimum burial depth.**

Underground piping systems shall be installed a minimum depth of 18 inches (458 mm) top of pipe below grade.

26. The amendment of Section 404.12.1, **Individual outdoor appliances**, by deleting it in its entirety.

26. The amendment of Section 406.1, entitled **General**, to read as follows:

**406.1 General.**

Prior to acceptance and initial operation, all piping installations shall be inspected and pressure tested to determine that the materials, design, fabrication, and installation practices comply with the requirements of this code. The permit holder shall make the applicable tests prescribed in Sections 406.1.1 through 406.1.5 to determine compliance with the provisions of this code. The permit holder shall give reasonable advance notice to the code official when the piping system is ready for testing. The equipment, material, power and labor necessary for the inspections and test shall be furnished by the permit holder and the permit holder shall be responsible for determining that the work will withstand the test pressure prescribed in the following tests.

27. The amendment of Section 406, entitled **INSPECTION, TESTING AND PURGING**, by amending Section 406.4, entitled **Test pressure measurement**, et seq., which shall read as follows:

**406.4 Test pressure measurement.**

Test pressure shall be measured with a monometer or with a pressure-measuring device designed and calibrated to read, record, or indicate a pressure loss caused by leakage during the pressure test period. The source of pressure shall be isolated before the pressure tests are made. Mechanical gauges used to measure test pressures shall have a range such that the highest end of the scale is not greater than five times the test pressure. Spring type gauges do not meet the requirement of a calibrated gauge.



#### **406.4.1 Test pressure.**

The test pressure to be used shall be no less than 1 1/2 times the proposed maximum working pressure, but no less than 3 3 psig (20 kPa gauge), or at the discretion of the Code Official, the piping and valves may be tested at a pressure of at least six (6) inches (152 mm) of mercury, measured with a manometer or slope gauge, irrespective of design pressure. Where the test pressure exceeds 125 psig (862 kPa gauge), the test pressure shall not exceed a value that produces a hoop stress in the piping greater than 50 percent of the specified minimum yield strength of the pipe. For tests requiring a pressure of 3 psig, diaphragm gauges shall utilize a dial with a minimum diameter of three and one half inches (3 1/2"), a set hand, 1/10 pound incrementation and pressure range not to exceed 15 psi for tests requiring a pressure of 3 psig. For tests requiring a pressure of 10 psig, diaphragm gauges shall utilize a dial with a minimum diameter of three and one-half inches (3 1/2"), a set hand, a minimum of 2/10 pound incrementation and a pressure range not to exceed 50 psi. For welded piping, and for piping carrying gas at pressures in excess of fourteen (14) inches water column pressure (3.48 kPa) (1/2 psi) and less than 200 inches of water column pressure (52.2 kPa) (7.5 psi), the test pressure shall not be less than ten (10) pounds per square inch (69.6 kPa). For piping carrying gas at a pressure that exceeds 200 inches of water column (52.2 kPa) (7.5 psi), the test pressure shall be not less than one and one-half times the proposed maximum working pressure.

Diaphragm gauges used for testing must display a current calibration and be in good working condition. The appropriate test must be applied to the diaphragm gauge used for testing.

#### **406.4.2 Test duration.**

Test duration shall be held for a length of time satisfactory to the Code Official, but in no case for less than fifteen (15) minutes. For welded piping, and for piping carrying gas at pressures in excess of fourteen (14) inches water column pressure (3.48 kPa), the test duration shall be held for a length of time satisfactory to the Code Official, but in no case for less than thirty (30) minutes.

30. The amendment of Section 409.1, entitled **General**, by adding Section 409.1.4, entitled **Valves in CSST installations**, which shall read as follows:

#### **409.1.4 Valves in CSST installations.**

Shutoff valves installed with corrugated stainless steel (CSST) piping systems shall be supported with an approved termination fitting, or equivalent support, suitable for the size of the valves, of adequate strength and quality, and located at intervals so as to

prevent or damp out excessive vibration but in no case greater than 12-inches from the center of the valve. Supports shall be installed so as not to interfere with the free expansion and contraction of the system's piping, fittings, and valves between anchors. All valves and supports shall be designed and installed so they will not be disengaged by movement of the supporting piping.

31. The amendment of Section 410.1, entitled **Pressure regulators**, by adding a second paragraph and an exception which shall read as follows:

Access to regulators shall comply with the requirements for access to appliances as specified in Section 306.

**Exception:** A passageway or level service space is not required when the regulator is capable of being serviced and removed through the required attic opening.

32. The amendment of Section 621.2, entitled **Prohibited use**, to read as follows:

**621.2 Prohibited use.**

One or more unvented room heaters shall not be used as the sole source of comfort heating in a dwelling unit.

**Exception:** Existing approved unvented heaters may continue to be used in dwelling units, in accordance with the code provisions in effect when installed, when approved by the Code Official unless an unsafe condition is determined to exist as described in Section 108.7.

2.

Any person, firm, corporation, agent or employee thereof who violates any of the provisions of this ordinance shall be guilty of a misdemeanor and upon conviction thereof shall be fined an amount not to exceed Two Thousand Dollars and No Cents (\$2,000.00) for each offense. Each day that a violation is permitted to exist shall constitute a separate offense.

3.

This ordinance shall be and is hereby declared to be cumulative of all other ordinances of the City of Arlington; and this ordinance shall not operate to repeal or affect any of such other ordinances except insofar as the provisions thereof might be inconsistent or in conflict with the provisions of this ordinance, in which event such conflicting provisions, if any, in such other ordinance or ordinances are hereby repealed.

4.

If any section, subsection, sentence, clause or phrase of this ordinance is for any reason held to be unconstitutional, such holding shall not affect the validity of the remaining portions of this ordinance.

5.

All of the regulations provided in this ordinance are hereby declared to be governmental and for the health, safety and welfare of the general public. Any member of the City Council or any City official or employee charged with the enforcement of this ordinance, acting for the City of Arlington in the discharge of his/her duties, shall not thereby render himself/herself personally liable; and he/she is hereby relieved from all personal liability for any damage that might accrue to persons or property as a result of any act required or permitted in the discharge of his/her said duties.

6.

Any violation of this ordinance can be enjoined by a suit filed in the name of the City of Arlington in a court of competent jurisdiction, and this remedy shall be in addition to any penal provision in this ordinance or in the Code of the City of Arlington.

7.

The caption and penalty clause of this ordinance shall be published in a newspaper of general circulation in the City of Arlington, Texas, in compliance with the provisions of Article VII, Section 15, of the City Charter. Further, this ordinance may be published in pamphlet form and shall be admissible in such form in any court, as provided by law.

8.

This ordinance shall become effective thirty days after adoption.

PRESENTED AND GIVEN FIRST READING on the \_\_\_\_\_ day of \_\_\_\_\_, 2022, at a regular meeting of the City Council of the City of Arlington, Texas; and GIVEN SECOND READING, passed and approved on the \_\_\_\_\_ day of \_\_\_\_\_, 2022, by a vote of \_\_\_\_\_ ayes and \_\_\_\_\_ nays at a regular meeting of the City Council of the City of Arlington, Texas.

ATTEST:

\_\_\_\_\_  
JIM R. ROSS, Mayor

\_\_\_\_\_  
ALEX BUSKEN, City Secretary

APPROVED AS TO FORM:  
MOLLY SHORTALL, City Attorney

BY \_\_\_\_\_