

ORDINANCE NO. 15-045

AN ORDINANCE OF THE CITY OF GALVESTON, TEXAS, AMENDING CHAPTER 30, "PLUMBING AND GAS CODE", BY ADOPTING WITH MODIFICATIONS AND AMENDMENTS, THE "2012 INTERNATIONAL PLUMBING CODE"; UPDATING AND MAKING VARIOUS AMENDMENTS TO THE PLUMBING AND GAS CODE; PROVIDING FOR AN EFFECTIVE DATE OF JULY 1, 2015; MAKING VARIOUS FINDINGS AND PROVISIONS RELATED TO THE SUBJECT.

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**WHEREAS**, the City of Galveston is currently operating under the 2009 edition of the "International Plumbing Code" as amended and after reviewing this code, staff has noticed important differences between the contents of the 2009 edition and the 2012 edition; and,

**WHEREAS**, to be in compliance with the state and the Texas Commission on Environmental Quality ("TCEQ"), Staff recommends adopting, with certain amendments, the 2012 Edition of the International Plumbing Code; and

**WHEREAS**, the state requires each Texas municipality to adopt either the International Plumbing Code or the Uniform Plumbing Code as its standard plumbing code; and

**WHEREAS**, in order to keep current with the industry and technology, to make consistent the language in the code and to make typographical and grammatical corrections, staff recommends updating, in its entirety, the Plumbing and Gas Code of the City of Galveston; and,

**WHEREAS**, City Staff sent the recommendations to the Building Board of Adjustments and Appeals, which approved adopting the 2012 International Plumbing Code, with minor modifications; and,

**WHEREAS**, the City Council of the City of Galveston, Texas deems it in the public interest to amend The City Code by amending Chapter 30 "Plumbing and Gas", by adopting the 2012 International Plumbing Code, with modifications, and amending Chapter 30, "Plumbing and Gas Code" in its entirety, as detailed in Section 2 below.

**NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF GALVESTON, TEXAS:**

**SECTION 1.** The findings and recitations set out in the preamble to this Ordinance are found to be true and correct and they are hereby adopted by the City Council and made a part hereof for all purposes.

**SECTION 2.** Chapter 30, Plumbing and Gas Code of "The Code of the City of Galveston 1982, as amended" is hereby amended to read and provide as follows:

**Sec. 30-1. Title and Scope.**

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- (e) *Plumbing installation or maintenance by homeowners:* Nothing in this code shall prevent any homeowner from installing and maintaining plumbing within the owner's his own property boundaries provided that the owners shall files with the inspector approved plumbing plans and specifications, that satisfy the inspector as to the owner's his ability to perform such plumbing as plumbing work, and providing such the plumbing work is done by the owner himself and is used exclusively by the owner him or the owner's his family. Plumbing work must be and is done in compliance with the requirements of all applicable ordinances of the City of Galveston, and meet Chapter 1301.051 Subchapter B. Exemptions of The State of Texas Occupations Code (Homestead Exemption).

**Sec. 30-5. Application for permit**

- (a) (2) Installation, alteration or repair of plumbing assemblies. A permit shall be required for the construction, installation, alteration or repair of any plumbing installation as defined in section 30-1(c). Such permit shall be obtained from the ~~building official~~ Plumbing inspector's office prior to the commencement of work. Emergency repairs may be made prior to obtaining a permit.
- (3) No drainage, plumbing, gas or water supply systems, or part thereof, shall be installed, altered, removed or replaced without first securing a permit from the ~~building official~~ Plumbing inspector's office.
- (4) Special permits. Where additional plumbing fixtures are required, or alterations are to be made in or to existing installations which cannot be particularly construed in strict accordance with the provisions of this chapter, a special permit, in writing, may be issued by the ~~building official~~ Plumbing inspector. In no case shall such special permit be issued on any new work.

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- (c) *Application for permit:* Upon application from a state-licensed master plumber or a property owner having a homestead exemption in place with the Galveston County appraisal district to install storm and sanitary sewers and to install plumbing fixtures, appurtenances and appliances for drainage, gas, water and/or sewer lines, and upon the conditions and requirements of this code having been complied with, the ~~building official~~ plumbing inspector shall issue a permit card. No plumbing permit shall be issued until a building permit, if required, shall have first been issued.

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- (g) *Drawings and specifications:* Whenever in the opinion of the ~~building official~~ plumbing inspector, drawings and specifications are needed to show definitely the nature and character of the work for which the plumbing permit application is made, the applicant shall furnish such drawings and specifications. The drawings shall be drawn to scale, and shall be submitted in duplicate. If approved, one set shall be returned to the applicant, marked approved, and one set shall be retained and filed as permanent record in the office of the building official. The applicant's approved set shall remain on the job at all times. Information on the drawings, and in the specifications, shall be definitive (and this code shall not be cited in whole or in part nor shall the term, legal, or its equivalent be used as a substitute for specific information).
- (h) *Approval of plans and specifications:* Plans and specifications for work to be done shall be referred to the ~~building official~~ plumbing inspector who shall determine if such plans and specifications comply with the requirements of the ordinances of the city. If such plans and specifications are in accord with the provisions of ordinances of the city, he shall approve them.
- (i) *Field work shall comply with approved plans:* Any person, firm, corporation, or master plumber, who shall make any material variation in the work done under the approved plan, without first having submitted revised plans to the ~~building official~~ plumbing inspector for approval, and without having secured approval of such change in plans from the said ~~building official~~ plumbing inspector, shall be guilty of having violated the provisions of this code, and shall upon conviction be subject to the penalty provided in this code.

#### Sec. 30-6. Permits.

(a) *Action on application:*

- (1) If the ~~building official~~ plumbing inspector is satisfied with the work described in an application for permit and the drawings and specifications which may be filed therewith conform to the requirements of this code, and other pertinent laws and ordinances, and upon payment of the required fees, he shall issue a permit therefor to the applicant. If material changes are made after a permit is issued, the permit holder shall file an application for a revised permit to cover the work actually to be done.
- (2) If the application for permit and the drawings and the specifications which may be filed therewith describe work which does not conform to the requirements of this code, or other pertinent laws or ordinances, the ~~building official~~ plumbing inspector shall not issue a permit, but shall return the drawings to the applicant with his refusal to issue such a permit. Such refusal shall, when requested, be in writing and shall contain the reasons therefor.

- (b) *Conditions of the permit:* The ~~building official~~ plumbing inspector shall act upon an application for a permit with plans as filed, or as amended, without unreasonable or unnecessary delay. A permit issued shall be construed to be a license to proceed with the work and shall not be construed as authority to violate, cancel, alter, or set aside any of the provisions of this code, nor shall such issuance of a permit prevent the ~~building official~~ plumbing inspector from thereafter requiring correction of errors in plans, or in construction, or in violations of this code. Any permit issued shall become invalid unless the work authorized by it shall have been commenced within six (6) months after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of one year after the time work is commenced; provided, that for cause, one or more extensions of time for periods not exceeding ninety (90) days each, may be allowed in writing by the ~~building official~~ plumbing inspector.
- (c) *Revocation of permits:* The ~~building official~~ plumbing inspector shall revoke a permit or approval issued under provisions of this code, and ordinances of the city, when a false statement or misrepresentation of the material facts were used in the application, plans, or specifications on which the permit or approval was based. In all such cases the permit fee shall not be refunded.

**Sec. 30-7. Fees and deposits.**

- (a) General: No permit shall be valid until all fees required in this code shall have been paid; nor shall an amendment to a permit be approved until all additional fees, if any, shall have been paid to the ~~building official~~ plumbing inspector.

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**Sec. 30-8. Inspections and tests**

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- (f) *Testing of plumbing, drainage and vent systems*

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- (2) ~~Building official's~~ Plumbing inspector's authority. The ~~building official~~ plumbing inspector may require the removal of cleanouts, or plugs, or the unsealing of traps, to ascertain whether the test medium has reached all parts of the system.

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- (k) *Test of defective or insanitary plumbing:* Where there is reason to believe that the drainage and vent system of any house or building has become defective or insanitary; such drainage and vent system shall be subject to smoke or peppermint test if so directed by the ~~building official~~ plumbing inspector.
- (l) *Sewer and plumbing connection in houses or buildings moved or damaged by fire:* A house, building, or structure that has been moved from one site

to another, or changed from its original position, or that has been damaged by fire, shall be made to conform to the provisions of this code before again connecting to the sewer unless same has been inspected by the ~~building official~~ plumbing inspector prior to any additional plumbing work being installed. If, upon inspection, the old plumbing, water, or gas piping is found to be in good condition, the building official shall permit connection to the existing sewer, water, or gas supply

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#### **Sec. 30-22. Trenching, excavation and backfill**

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- (h) No rubber boots below ground or in a concealed location. Must be a full metal jacket type of band.

#### **Sec. 30-25. Protection of pipes.**

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- (d) All exposed domestic water piping must be insulated, taped and sealed per manufactures requirements (under structure or on outside of structure).

#### **Sec. 30-31. Condemned equipment.**

Any plumbing equipment condemned by the ~~building official~~ plumbing inspector because of wear, damage, defects, or sanitary hazards shall not be reused for plumbing purposes.

#### **Sec. 30-35. Connections to plumbing systems required**

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- (b) The plumbing system for each building or other structure shall be entirely separate and independent of every building drainage or plumbing system serving another building or structure, except that buildings or other structures on the same premises and under the same ownership may be connected to the same building sewer, except that where a building stands in the rear of another building or an interior lot and separate building sewer cannot be provided for the rear building through an alley, yard, or other open public space, the building drain of the front building may be connected to serve the rear building when such building drain of the front building is of size and in condition to serve both buildings and such dual use is approved by the ~~building official~~ plumbing inspector.

#### **Sec. 30-37. Private sewage disposal system.**

- (a) General. When a public sewer is not available for use, sewage and other building wastes facilities shall be connected to private sewage disposal system as directed by the sewerage ordinances of the city. The use of septic tanks, chemical toilets, privies, privy vaults or aerobic digesters may be permitted when approved by ~~the city~~ Galveston County Health District.

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**Sec. 30-41. Technical provisions adopted**

The ~~2009~~ 2012 International Plumbing Code as amended, hereinafter referred to as the "Plumbing Code of the City of Galveston" (Plumbing Code) copies of which have this day been exhibited to and approved by the city council and certified copies of which are on file in the respective offices of the city secretary and the building official of the city, is hereby adopted by reference and declared to be the code.

**Sec. 30-43. Specific provisions deleted and replaced.**

- (a) The following provisions of the ~~2009~~ 2012 International Plumbing Code are deleted: ~~Appendix A—Plumbing Permit Fee Schedule, Section 106.5.3—Expiration, Section 106.5.4—Extensions, and Section 106.6—Fees. They are replaced by the Galveston City Code, chapter 30, article I, section 30-5—Application for permit, Section 30-5—Permits, and Section 30-7—Fees and deposits. The following provisions of the 2012 International Plumbing Code and the International Residential Code are deleted: Chapter 13 and Section P3009 Gray Water Recycling Systems.~~
- (b) The ~~2009~~ 2012 International Plumbing Code Section 1003.3.2, "Food waste grinders" is deleted and replaced by the following:
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- (c) The ~~2009~~ 2012 International Plumbing Code Section 1104.2, "Combining storm with sanitary drainage" is deleted and replaced by the following:
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- (d) The ~~2009~~ 2012 International Plumbing Code Section 103, "Department of Plumbing Inspection": Title and all references to Department of Plumbing Inspection are replaced by Office of Plumbing Inspection.

**Sec. 30-45. Water piping; waste and vents; sewers.**

- (a) No air admittance valves allowed.
- (b) Tub and shower traps must be two (2) inches minimum.

- (c) ~~Under slab main sewer piping must be minimum of four (4) inches.~~
- (c)(d) No galvanized water pipe allowed for new installations. Galvanized water pipe repair or replacement for existing installations must have plumbing inspector's approval prior to beginning work. Galvanized can be used for shower (Head) risers only.
- (d)(e) Water piping inside building must be CPVC, copper or PEX with the correct ratings for use in attics or for chlorine and temperature.
- (e)(f) ~~Outside underground use of CPVC is allowed.~~
- (g) ~~Outside water piping not underground must be PVC (SCH 40) or copper (Type L).~~
- (h) ~~Penetrations through walls (e.g. hose bibs, water entry) must be copper or brass.~~
- (f) Roof flashing (if using the push thru type they must have a Rain Collar for water tight protection).
- (g) CPVC male & female adaptors must have a metal body / threads.
- (h) No plastic male/female adapters allowed on domestic water system at the water meter or on valves without a metal body/threads.
- (i) No galvanized or plastic roll strapping to be used for hanging plumbing systems
- (j) T/P valves must run to a safe location or outside and turn down 6' above ground they cannot discharge into water heater pan
- (k) Water heater drain pan lines must be 1" or larger
- (l) All exposed domestic water piping must be insulated. (Taped and sealed per manufactures requirements (under structure or on outside of structure).
- (m) No rubber boots (bands) below ground or in a concealed location must be at full metal jacket.

**Sec. 30-46. Recurring references—All gas line references.**

- (a) ~~Inside building. Schedule 40 or better Galvanized Pipe and Fittings required.~~
- (a b) Underground outside of building only. Schedule 40 or better Galvanized Pipe and Fittings, or Polyethylene gas piping with epoxy coated steel risers required, with tracer wire not less than 18AWG and the insulation type shall be suitable for direct burial.
- (b e) No gas piping allowed under any building slabs.
- (c d) No black piping allowed.
- (d e) Minimum one-inch size stubout at meter, ~~is required~~ and a gas approved shut off valve between gas meter and structure on gas system is required.

- (e) For gas testing, ~~high pressure~~ a diaphragm gauge at meter stubout is required for all gas finals. A #30 max. Spring gauge can be used for rough-in inspections only.
- (f) For gas turn on inspections (GTO's) all unused gas piping to be removed back to main and capped for gas test or a code approved valve must be installed and plugged at time of test.
- (g) All above ground gas piping will be either galvanized or (CSST) corrugated stainless steel with lighting resistant system that is certified to meet ANSI LC1-2005 & ANSI LC1-1024 Standards. (CSST) Cannot tie directly into the gas meter. If using CSST **must have plumbing inspector's approval prior to beginning work.** All CSST piping shall be identified by a yellow label marked "Gas" in black letters. The marking shall be spaced at intervals not exceeding 5 feet (1524mm).

**Sec. 30-48. Sewer depth.**

*The ~~2006~~ 2012 International Plumbing Code, Section ~~305.6.1~~, 305.4.1 "Sewer Depth" is hereby deleted and replaced by the following:*

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**Sec. 30-49. Roof extension.**

*The ~~2006~~ 2012 International Plumbing Code, Section 904.1, "Roof Extension", is hereby deleted and replaced by the following:*

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**Sec. 30-50. Connections to automatic fire sprinkler systems and standpipe systems**

*The ~~2006~~ 2012 International Plumbing Code, Section 608.16.4, "Connections to automatic fire sprinkler systems and standpipe systems" is hereby deleted and replaced by the following:*

The potable water supply to automatic fire sprinkler and standpipe systems shall be protected against backflow for all non-metered building fire systems by a Double Check Detector Assemblies (DCDA) or a Reduced Pressure Detector Assemblies (RPDA) with a city approved meter and transmitter, for metered lines by a double check-valve assembly (DC) or a reduced pressure principle backflow preventer (RP) depending on the degree of hazard whichever is determined by the Plumbing Inspector's office.

**Sec. 30-71. Use of galvanized pipe.**

The approved use of galvanized pipe is permitted only for (2") large size piping on commercial installations, not of use in residential structures.

**Sec. 30-72. Urinals.** shall be deleted in its entirety.

**Sec. 30-100. Trailer park plumbing and drainage systems-general.**

- (a) *Adherence to Code:* Trailer park plumbing and drainage systems shall be designed and installed in accordance with the provisions of this chapter and the technical requirements of the ~~2006~~ 2012 International Plumbing Code, except as explicitly noted in this division.

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**Sec. 30-158. Purpose and scope.**

- (a) The purpose of this article is to provide minimum standards and requirements for the safe installation, alteration and repair of consumer's gas piping and the installation of gas appliances. All such work performed within the corporate limits of the City of Galveston, Texas, shall conform to the requirements of the 2012 International Fuel Gas Code as amended and the 2012 International Mechanical Code as amended. ~~this article and to the specifications and requirements entitled "Installation of Consumer's Gas Piping and Gas Appliances" as contained in the Natural Gas Code of the City of Galveston. Copies of such code and requirements shall be kept on file in the office of the building official of the City of Galveston, Texas.~~
- (b) The requirements of this article shall not apply to the gas company's setting of meters, extending, relocating, removing, or repairing, its service lines, mains, or other facilities or for work having to do with its own gas system.
- (c) Nothing in this code shall prevent any homeowner from installing and maintaining the homeowner's his own natural gas piping and appliances within the homeowner's his own property boundaries where the homeowner he and the homeowner's his family reside or are domiciled and providing such natural gas piping and appliance installation or maintenance work is done by the owner himself and is used exclusively by the homeowner or the homeowner's his family and can satisfy the Plumbing Inspector as to the owner's ability to perform such gas work; and also meet Chapter 1301.051 Subchapter B. Exemptions of The State of Texas Occupations code (Homestead Exemption) and is done in compliance with the requirements of all applicable sections of this code and ordinances of the City of Galveston and has been fully inspected upon completion according to the standards of this chapter and the inspector finds that such piping or appliances will not endanger life or property.

**Sec. 30-163. Permits.**

- (a) No person shall install a gas conversion burner, floor furnace, central heating plant, vented recessed heater, water heater, or boiler, or install or alter consumer's gas piping, or convert existing piping to utilize natural gas without first obtaining a permit to do such work from the ~~building official~~ plumbing inspector; however, permits will not be required for setting or connecting other gas appliances, or for the repair of leaks in house piping unless the gas was shut off by the gas provider for a leak then a plumbing permit must be obtained and a gas pressure test will be required.
- (b) An application for a permit shall be on forms prescribed by the ~~inspector~~ plumbing inspector's office and shall state the exact location of the work and shall describe the materials or appliances intended to be used or installed, the premises and the ownership and occupancy or use thereof, and the exact work to be done, together with any plans, specifications or drawings as the ~~inspector~~ plumbing inspector's office may reasonably require.

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- (d) No deviation shall be made from the installation, alteration or repair described in the permit or application therefor without the written approval of the ~~inspector~~ having jurisdiction Plumbing inspector's office.

#### **Sec. 30-164. Inspections.**

- (a) Any work which has been done under a permit or for which a permit is required hereunder shall be inspected by the plumbing inspector to ensure compliance with the requirements of this code.
- (b) It shall be the duty of the person doing such work to notify the ~~inspector~~ plumbing inspector's office when such work is ready for inspection and a duly authorized person present for inspection. If the plumbing inspector finds that the work is improper, the person doing such work shall then pay a re-inspection fee and resubmit for test and inspection.
- (c) Rough piping inspection of all piping installation may be made by the plumbing inspector after piping covered by the permit has been installed, and before any such piping has been covered or concealed using a 30 pound max spring gauge.
- (d) Final piping inspection of all piping installations shall be made by the plumbing inspector after all piping covered by the permit has been installed and after all portions thereof, which are to be concealed by plastering or otherwise, have been so concealed and after any gas appliances have been attached thereto. A pressure check shall be made by the plumbing inspector as part of the final piping inspection of all newly installed consumers' gas piping systems and may be made in other instances at the discretion of the plumbing inspector. In any such test a

~~Mercury Column Gauge of eight (8) inches, or equivalent diaphragm gauge,~~ shall be used to test all consumers' gas piping designed to operate at a pressure of less than one pound per square inch. All tools, apparatus, labor and assistance required for the test of any piping shall be furnished by the installer of such piping.

#### **Sec. 30-165. Fees.**

- (a) The ~~total minimum~~ fee for inspection of consumer's gas piping at one location (including both rough and final piping inspection) shall be ~~three dollars (\$3.00) for one to twenty (20) outlets, inclusive, and fifteen cents (\$0.15) each for all additional outlets.~~ Twenty five dollars (\$25.00) for up to two floors (2) and twelve dollars (12) for each additional floor.
- ~~(b) The fee for inspecting conversion burners, floor furnaces, boilers, or central heating plants shall be one dollar and fifty cents (\$1.50) per each unit.~~
- ~~(c) The fee for inspecting vented recessed heaters shall be one dollar and fifty cents (\$1.50) for each unit.~~
- ~~(d-b) The fee for the reinspection of rejected work, after correction of defects noted, shall be five dollars (\$5.00) for each such return~~ fifty dollars (\$50.00) for the first failed inspection and \$200.00 dollars (\$200.00) for any additional failed inspection of the same type.
- ~~(e-c) The fee for inspecting work for which a permit is required and for which no permit has been obtained shall be twice the amount provided for above.~~
- ~~(f d) Any and all fees shall be paid by the person to whom the permit is issued.~~

#### **Sec. 30-166. Certificates of approval.**

The plumbing inspector shall issue a certificate of approval (Green Tag) at the completion of the work for which a permit for consumers' gas piping has been issued, if after inspection it is found that such work complies with the provisions of this article. An email of a passed inspection of a duplicate of each such certificate issued covering newly installed and existing consumers' gas piping shall be delivered (sent) to the gas company and shall constitute its authorization to commence gas service to such premises.

#### **Sec. 30-168. Scope.**

Under this division appear the fundamental code requirements which shall be observed during the installation of any consumer's gas piping and gas appliances to assure safety and consumer satisfaction. Responsibility for observing these requirements shall rest with the installing agency. This text represents basic code requirements of the ~~Southern Standard Building Code 2012 International Fuel Gas Code~~ governing the installation of consumer's gas piping and gas piping systems extending from the point of

delivery to the inlet connections of appliances, and the installation and operation of residential and commercial gas appliances. They are intended to cover the design, fabrication, installation, tests and operation of such systems for fuel gases such as natural gas, manufactured gas, or mixtures thereof. They are not intended to cover systems or portions of systems supplying equipment engineered, designed and installed for specific manufacturing, production, processing and power generating applications such as large and high pressure boilers, melting and treating furnaces, production ovens, etc., or for public utility piping in gas distribution and transmission systems, in gas compressing stations and in gas processing plants.

**Sec. 30-176. Required size of piping and outlets shall be deleted in its entirety and shall be replaced by reference to Chapter 4 (IFGC) International Fuel Gas Code, Sections 402.1 – 402.4(3.5).**

**Sec. 30-177. Materials.**

- (a) ~~Acceptable piping material and workmanship. Except as provided in section 30-185 and section 30-188(a),~~ Consumer's gas piping shall be galvanized welded and seamless steel pipe complying with one of the following standards: ASTM Standard A 120-61, ASME B 36.10, 10M, ASTM A 53/A53M, or ASTM A 106. All pipe fittings (except stop cocks or valves) shall be galvanized malleable iron ~~except that in size four (4) inch or larger, cast iron may be used. Where approved by the administrative authority, brass pipe in iron pipe sizes assembled with threaded fittings of the same materials may be used with gases not corrosive to such materials or (CSST) corrugated stainless steel with a lighting resistant system that is certified to meet ANSI LC1-2005 & ANSI LC1-1024 Standards, and shall be identified by a yellow label marked "Gas" in black letters. The marking shall be spaced at intervals not exceeding 5 feet (1524mm). With the~~ Plumbing Inspector's approval prior to beginning work.

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**Sec. 30-178. Pipe threads.**

- (a) *Specifications for pipe threads.* Pipe and fittings threads shall comply with the American Standard for Pipe Threads, ASME B1.20.1, A.S.A. B2.1-1945.
- (b) *Damaged threads or welds.* Pipe with threads which are stripped, chipped, corroded, or otherwise damaged shall not be used. If a weld opens or defects in lap or butt welded pipe are evidenced during the operation of cutting or threading or at any other time, that portion of the pipe shall not be used.
- (c) *Number of threads.* Piping shall be threaded in accordance with Table 403.9.2, 18.

~~Table 18 Specifications for Threaded Pipe shall be deleted in its entirety.~~

**Sec. 30-181. Gas shut-off valve.**

(a) *Accessibility of gas valves and types.* Manual gas valve is operated manually to control or shut off the supply of gas, must be AGA approved, ~~must have a lever handle and must be one of the following types:~~ and shall comply with the standard that is applicable for the pressure and application, in accordance with Section 409, Table 409.1.1.

~~(1) Plug and barrel type.~~

~~(2) Milwaukee butterball type or equal, U.L. listed, 386 R or equal if approved by plumbing inspector.~~

~~(3) Ball type with chrome plated ball, teflon seal, bronze casting, meeting ANSI z 2115, 1979 and ANSI z 2155, 1981.~~

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**Sec. 30-182. Test of piping for tightness.**

Before any system of gas piping is finally put in service, it shall be carefully tested to assure that it is gas tight. Where any part of the system is to be enclosed or concealed, this test (Rough - in) ~~should~~ must precede the work of closing in using a spring #30 psig max. gauge with 3-7 psig reading on gauge at the time of inspection and for a final inspection a calibrated diaphragm gauge. To test for tightness, the piping shall be filled with air or inert gas, but not with any other gas or liquid. In no case shall oxygen ever be used. Low pressure (not in excess of 0.5 lbs. per square inch) gas piping shall stand a pressure of at least 1 1/2 times the maximum working pressure but no less than 3 psig ~~eight (8) inches of mercury~~ measured with a calibrated diaphragm gauge manometer or slope gage for a period of not less than ten (10) minutes without showing any drop in pressure. Higher pressure piping must stand a pressure of at least ~~eight (8) inches of mercury,~~ 15 psig but never less than twice the maximum pressure to which the piping will be subjected in operation, for a period of not less than ~~ten (10) minutes~~ twenty four (24) hours without showing any drop in pressure.

**Sec. 30-185. Use of copper tubing.** ~~Shall be deleted in its entirety.~~

**Sec. 30-187. General.**

(a) *Appliances to comply with standard requirements.* Each gas appliance and accessory installed for domestic or commercial use shall comply with applicable American Standard Approval or Listing Requirements covering safe operation, substantial and durable construction and acceptable performance. Such compliance may be determined by the presence on the appliance or accessory of a label of a nationally recognized testing agency (The American Gas Association,

Inc., Laboratories are such a nationally recognized testing agency) acceptable to the ~~Southern Building Code Congress~~ 2012 International Fuel Gas Code as amended, qualified and equipped to perform the tests necessary to determine such compliance and maintaining an adequate periodic inspection of current production models, and whose label on the appliance or accessory states that it complies with national safety requirements. Such compliance may also be determined by the listing of the appliance or accessory in a list published by such nationally recognized testing agency, which states that the appliance or accessory complies with national safety requirements.

In cases where no applicable American Standard Approval or Listing Requirements have been developed for a given class of appliance or accessory, approval of the administrative authority shall be obtained before the appliance or accessory is installed.

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**Sec. 30-188. Appliance connections to house piping inside of building.** Shall be amended to read and provide as follows:

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(c) *Installation of gas-fired water heaters.* Gas-fired water heater installation shall be permitted in attics, with the following stipulations:

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(6) An emergency pan, with a ~~three-fourths inch~~ one inch minimum (1") drain, to point of discharge, to be installed.

(7) Relief valves must run to a safe location determined by the plumbing inspector or outside and turned down 6" above ground they cannot discharge into water heater pan.

**Secs. 30-189 to 203. -DIVISION 5. INSTALLATION REQUIREMENTS FOR SPECIFIC APPLIANCES** shall be deleted in its entirety and shall be replaced by reference to Chapter to Chapter 6 (IFGC) International Fuel Gas Code, Sections 601-708, Chapter 19 (IBC) 2012 International Building Code, Sections M1901- M1904.1 & (IMC) 2012 International Mechanical Code.

**Secs. 30-203.1 to 209. - DIVISION 6. VENTING APPLIANCES** shall be deleted in its entirety and shall be replaced by reference to Chapter 5 (IFGC) 2012 International Fuel Code, Sections 501-506 and Chapter 18 (IBC) 2012 International Building Code, Sections M1801.1- M1805 & (IMC) 2012 International Mechanical Code.

**Secs. 30-209.1 to 215. DIVISION 7. PROCEDURES TO BE FOLLOWED TO PLACE AN APPLIANCE IN OPERATION** shall be deleted in its entirety and shall be replaced by reference to Chapter 4 (IFGC) International Fuel Code, Sections 406.6.4 - 406.7.4.

**Sec. 30-228. Requirements**

All new construction and/or repairs or construction involving plumbing renovation within the city limits shall meet the following plumbing specifications.

Refer to 2012 International Plumbing Code as amended, Section 604

~~The Water Saving Performance Standards established by the American National Standards Institute or the following standards, whichever are more restrictive, shall apply to fixtures in any new buildings or structures or portions thereof and additions to existing buildings which have facilities or shelter for residential use, public assembly, commercial, business and institutional establishments:~~

- ~~(1) For a sink or lavatory faucet or a faucet aerator, maximum flow may not exceed two and two tenths (2.2) gallons of water per minute at a pressure of sixty (60) pounds per square inch when tested according to testing procedures adopted by the Texas Natural Resource Conservation Commission;~~
- ~~(2) For a shower head, maximum flow shall not exceed two and seventy five hundredths (2.75) gallons of water per minute at a constant pressure over eighty (80) pounds per square inch when tested according to testing procedures adopted by the Texas Natural Resource Conservation Commission;~~
- ~~(3) For a urinal and the associated flush valve, if any, maximum flow may not exceed an average of one (1) gallon of water per flushing when tested according to the hydraulic performance requirements adopted by the Texas Natural Resource Conservation Commission;~~
- ~~(4) For a toilet, maximum flow may not exceed an average of one and six tenths (1.6) gallons of water per flushing when tested according to the hydraulic performance requirements adopted by the Texas Natural Resource Conservation Commission;~~
- ~~(5) For a wall-mounted toilet that employs a flushometer or flush valve, maximum flow may not exceed an average of two gallons of water per flushing or the flow rate established by the American National Standards Institute for ultra low flush toilets, whichever is lower; and~~
- ~~(6) A drinking water fountain must be self-closing.~~

**Sec. 30-229. Exceptions.**

That the standards in section 30-228 shall not apply to hospitals, laboratories, and any application where health and safety are dependent upon particular water flow rates. The building official shall determine whether application requires exception to these standards. In addition, the standards in section 30-228 shall not apply to:

- (1) A fixture, such as a safety shower or aspirator faucet, that, because of the fixture's specialized function, cannot meet the standards provided by said section;
- (2) A fixture originally installed before January 1, 1992, ~~that is removed and reinstalled in the same building on or after that date; or~~
- (3) ~~A fixture imported only for use at the importer's domicile.~~

**Sec. 30-230. Flow performance requirements.**

Fixture flow performance requirements shall be rated by data furnished by the equipment manufacturer or supplier ~~or certified under a~~ and be recognized by the 2012 International Plumbing Code certification program or rating procedure.

**ARTICLE VII. CROSS-CONNECTION CONTROL AND BACKFLOW PREVENTION**

**Sec. 30-234. Cross-Connection standards.**

- (a) City of Galveston is adopting a mandatory cross-connection program, in compliance with chapter 341, subchapter C, of the Texas Health & Safety Code, and section 290 of the rules and regulation of Texas water systems governed by the ~~Texas Natural Resource Conservation Commission~~ Texas Commission on Environmental Quality (TCEQ) and the 2012 International Plumbing Code. These state laws are a result of the Federal Safe Drinking Water Act.

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**Sec. 30-235. Definitions.**

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*Commission* shall mean the ~~Texas Natural Resource Conservation Commission (TNRCC)~~ Texas Commission on Environmental Quality (TCEQ).

\*\*\*

*General tester* shall mean a tester who is certified by the ~~Texas Natural Resource Conservation Commission~~ Texas Commission on Environmental Quality (TCEQ) to test backflow prevention assemblies on any domestic, commercial, industrial or irrigation service except fire-lines.

\*\*\*

*Tester* shall mean a person that is a certified backflow prevention assembly technician approved by and registered with the city and the ~~TNRCC~~ TCEQ.

~~TNRCC~~ TCEQ shall mean the ~~Texas Natural Resource Conservation Commission~~ Texas Commission on Environmental Quality.

\*\*\*

**Sec. 30-239. Protection required; installation.**

The backflow prevention assembly protection which is required under this ordinance shall be any of the duly nationally recognized and authorized backflow prevention assemblies listed in ~~a Southern Standard Plumbing Code,~~ the 2012 International Plumbing Code as amended or as determined by the regulatory authority. Each backflow prevention assembly must have been approved by the ~~regulatory authority~~ plumbing inspector's office prior to installation. Failure to obtain such approval prior to installation of the backflow prevention assembly may result in the backflow prevention assembly failing to meet final approval by the ~~regulatory authority~~ plumbing inspector's office. The plumbing inspector shall determine the type and location of backflow assembly to be installed within the area served by the city. The assembly will be required in each of the following circumstances, but in no way limited to the following circumstances:

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**Sec. 30-240. Testing of assemblies.**

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(f) All results from assembly testing by a certified backflow prevention assembly tester shall be placed on a numbered City of Galveston Backflow Prevention Assembly Certified Test and Maintenance Report form that is provided by the city.

**Sec. 30-243. Customer service inspection.**

(a) Pursuant to ~~TNRCC Water System Regulations,~~ TCEQ chapter 290 Subchapter D (J) a customer service inspection for cross-connection control shall be completed by the Plumbing Inspector, Water Supply Protection Specialists licensed by the Texas State Board of Plumbing Examiners (TSBPE) or a Customer service inspectors who have completed a commission-approved course (TCEQ), passed an examination administered by the executive director, and hold current professional license as a customer service inspector prior to providing continuous water service in each of the following circumstances.

\*\*\*

**Sec. 30-244. Installation guidelines and requirements for backflow prevention assemblies.**

(a) *General.* To ensure proper operation and accessibility of all backflow prevention assemblies, the following guideline shall apply to the installation of these assemblies. No backflows are allowed to be installed below grade or in a vault.  
(1) Backflow prevention assemblies shall be installed in accordance with the current ~~TNRCC-TCEQ~~ rule and these regulations. The assembly installer must obtain the required plumbing permits and have the installation inspected by the city.

\*\*\*

- (b) Reduced pressure principle *backflow prevention assemblies (RPs)* shall be utilized at premises where a substance is handled that would be hazardous to health if introduced into the potable water system. The RP is normally used in locations where an air gap is impractical. The RP shall be effective against both-siphonage and backpressure.

(2) RPs are to be installed above ground only. ~~typically installed above grade in well drained areas, but may be installed below grade (ground level) if a bore-sight drain to daylight is provided. The drain shall be of adequate capacity to carry the full rated flow of the assembly and shall be screened on both ends.~~

\*\*\*

- (c) Reduced *pressure principle detector prevention assemblies (RPDA)* shall be utilized in all installations requiring a reduced pressure principle backflow prevention assembly and detector metering and having a meter and transmitter approved by the plumbing inspector's office.

\*\*\*

- (d) *Double check valve backflow prevention assemblies (DC)* shall be utilized at premises where a substance is handled that would be objectionable but not hazardous to health if introduced into the potable water system.

(2) The assembly shall be readily accessible with adequate room for testing and maintenance. ~~DCs may be installed below grade, providing all test cocks are fitted with brass pipe plugs. All vaults shall be well drained, constructed of suitable material, and sized for appropriate clearances. In no event shall the vault be deeper than 3 inches below grade.~~

- (3) Vertical installations of DCs are allowed only on sizes up to and including 4 inches that meet the following requirement:
- a. Internally spring-loaded check valves.
  - b. Flow is upward through assembly.
  - c. Manufacturer states their assembly has been certified and tested that it can be used in a vertical position.

\*\*\*

- (e) *Double check deflector backflow prevention assemblies (DCDA)* shall be utilized in all installations requiring a double check valve assembly and detector metering, having a meter and transmitter approved by the plumbing inspector's office.

\*\*\*

**Sec. 30-248. Responsibilities of property owner.**

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~~(b) Certified backflow prevention assembly tester shall comply with the following requirements:~~

- ~~(1) Annually register with the city and pay the required fee.~~
- ~~(2) Maintain testing equipment in proper working condition/calibration.~~
- ~~(3) Maintain the design or operation characteristics of an assembly.~~
- ~~(4) Ensure that devices are tested according to accepted industry practice and TNRCC regulations.~~
- ~~(5) Enter required testing data, including test gauge serial numbers, on cross-connection test forms of the city.~~
- ~~(6) Report test results to the city within thirty (30) days of testing.~~
- ~~(7) Provide a copy of the completed test report to the property owners and/or persons in charge of any premises.~~
- ~~(8) Maintain testing and/or repair records for a minimum of three (3) years.~~

**Sec. 30-249. Back-flow prevention assembly tester certification—Registration required and Responsibilities.**

Only approved ~~TNRCC~~ TCEQ licensed backflow prevention assembly testers can test backflow prevention assemblies in the city. Testers must register annually with the city, provide proof of ~~TNRCC~~ TCEQ certification, and provide proof that testing equipment is able to maintain a calibration of plus or minus 0.2 psi accuracy and pay an annual nonrefundable, tester registration fee.

**Sec. 30-250 "Compliance for lawn irrigation" shall be deleted in its entirety.**

**Sec. 30-252. Enforcement.**

\*\*\*

(c) *Violations.*

- (9) A person commits an offense by testing backflow prevention assembly without being certified by the ~~TNRCC~~ TCEQ.

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**Sec. 30-253. Cross-connection control and prevention fees.**

- (1) *Backflow Prevention Assembly Registration Fees:* There is an annual nonrefundable registration fee for each nonresidential backflow prevention assembly device as established by City Council ~~of twenty five dollars (\$25.00)~~ per each separate device.
- (2) *Certified Backflow Prevention Assembly Tester Registration Fee:* Annual registration fee for approved testers shall be a nonrefundable fee as established by City Council ~~of fifty dollars (\$50.00)~~.

- (3) *A Fee and Deposit for Fire Hydrant Meter With Backflow Prevention Device:* There shall be a fee and deposit as established by City Council of ~~eighty five dollars (\$85.00) with a six hundred dollar (\$600.00) deposit.~~ The ~~six hundred dollar (\$600.00)~~ deposit will be refund when the meter is no longer needed. ~~The refund will then be made within the next thirty (30) to sixty (60) days.~~ The fire hydrant meter with backflow assembly will be installed and padlocked to a single fire hydrant by city personnel.

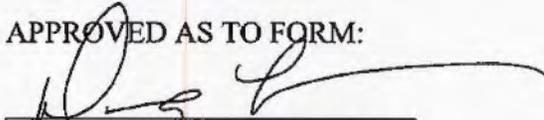
**SECTION 3.** It is hereby declared to be the intention of the City Council that the sections, paragraphs, sentences, clauses and phrases of this Ordinance are severable and, if any phrase, clause, sentence, paragraph or section of this Ordinance should be declared invalid by the final judgment or decree of any court of competent jurisdiction, such invalidity shall not affect any of the remaining phrases, clauses, sentences, paragraphs and sections of this Ordinance.

**SECTION 4.** All Ordinances or parts thereof in conflict herewith are repealed to the extent of such conflict only.

**SECTION 5.** In accordance with the provisions of Sections 12 and 13 of Article II of the City Charter this Ordinance has been publicly available in the office of the City Secretary for not less than 72 hours prior to its adoption; that this Ordinance may be read and published by descriptive caption only.

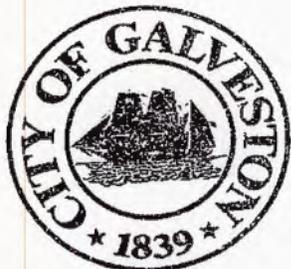
**SECTION 6.** This Ordinance shall be and become effective on July 1, 2015 after its adoption and publication in accordance with the provisions of the Charter of the City of Galveston.

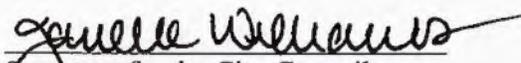
APPROVED AS TO FORM:

  
DONNA M. FAIRWEATHER  
ASSISTANT CITY ATTORNEY

I, Janelle Williams, Secretary of the City Council of the City of Galveston, do hereby certify that the foregoing is a true and correct copy of an Ordinance adopted by the City Council of the City of Galveston at its regular meeting held on June 11, 2015, as the same appears in records of this office.

IN TESTIMONY WHEREOF, I subscribe my name hereto officially under the corporate seal of the City of Galveston this 15 day of June, 2015.



  
Secretary for the City Council  
Of the City of Galveston