

CITY OF GRAPEVINE
Chapter 7, Buildings and Construction,
Article IX, Fuel Gas Code

ARTICLE IX. INTERNATIONAL FUEL GAS CODE*

***Editor's note:** Ord. No. 2005-15, § 7, adopted March 1, 2005, added new provisions to this chapter as Art. IX, §§ 7-180--7-185, and renumbered former Art. IX, §§ 7-180--7-187, Art. X, §§ 7-201--7-204, Art. XI, § 7-215, and Art. XII, §§ 7-230--7-237, 7-240--7-247, as Art. X, §§ 7-186--7-203, Art. XI, §§ 7-207--7-216, Art. XII, § 7-221, and Art. XIII, §§ 7-236--7-243, 7-246--7-253.

Sec. 7-180. Short title.

This article shall be known as the "Grapevine Fuel Gas Code" and is to be cited as such.

(Ord. No. 2005-15, § 7, 3-1-05; Ord. No. 2007-36, § 7, 7-17-07)

Sec. 7-181. Fuel gas code adopted.

- (a) There is hereby adopted by the City of Grapevine, Texas, the "2006 International Fuel Gas Code" as published by the International Code Council, with the exception of such sections thereof as are hereinafter deleted, modified or amended and the same is hereby adopted and incorporated herein as if the same was copied in full herein, and the provisions thereof shall be the building regulations within the corporate limits of the City of Grapevine, Texas.
- (b) A copy of the "2006 International Fuel Gas Code" shall be maintained by the office of the city secretary.

(Ord. No. 2005-15, § 7, 3-1-05; Ord. No. 2007-36, § 7, 7-17-07)

Sec. 7-182. Conflict with other regulations.

When a conflict exists between this code and state law, the most restrictive requirement shall prevail, when a conflict exists between this code and other codes or ordinances adopted by the city, the most restrictive shall apply.

(Ord. No. 2005-15, § 7, 3-1-05)

Sec. 7-183. Work to be performed by licensed and registered plumber.

All work regulated by this code shall be performed by State of Texas licensed plumbers that are registered with the city in accordance with Article VIII of this code, unless exempted herein or by state law. All work regulated by this code is subject to all codes and ordinances relating to plumbing.

(Ord. No. 2005-15, § 7, 3-1-05)

Sec. 7-184. Fuel gas installation or maintenance by homeowner.

Nothing in this code shall prevent a homeowner from installing or maintaining fuel gas systems within the property boundaries of his homestead, providing that the owner files with the building inspection department adequate plans and specifications; satisfies the building official as to his ability to install fuel gas systems; and such work is done by himself and used exclusively by him and his family. Such privilege does not convey the right to violate any of the provisions of this code, nor is it to be construed as exempting any such property owner from obtaining a permit, paying the required fees and obtaining all required inspections.

(Ord. No. 2005-15, § 7, 3-1-05)

Sec. 7-185. Amendments to fuel gas code.

[The fuel gas code adopted herein is amended as follows:]

Section 101(IFGC) General is hereby amended to read as follows:

Section 101.1 Title. These regulations shall be known as the Fuel Gas Code of The City of Grapevine, hereinafter referred to as "this code".

Section 102.8 Referenced codes and standards is hereby amended to read as follows:

Section 102.8 Referenced codes and standards. The codes and standards referenced herein shall be those that are listed in Chapter 15 unless amended elsewhere and such codes and standards shall be considered as 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.

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

Where there arises a conflict between this code and state law, or a conflict between this code and any other code or ordinance adopted by the city, the most restrictive

requirement shall prevail. All references to the International Existing Building Code are hereby deleted.

All references to the International Building Code shall mean the building code adopted by the city.

All references to the International Plumbing Code shall mean the plumbing code adopted by the city.

All references to the International Mechanical Code shall mean the mechanical code adopted by the city.

All references to the International Residential Code shall mean the residential code adopted by the city.

All references to the International Energy Conservation Code shall mean the energy code and any amendments adopted by the city and/or state law.

All references to the existing International Existing Building Code shall be replaced with the words "existing building provisions of the construction codes adopted by the city".

All references to the International Fire Code shall be replaced with the words "fire code adopted by the city".

Section 106(IFGC) Permits is hereby amended by the addition of Section 106.4.2.1 to read as follows:

Section 106.4.2.1 Time limitation of application is hereby added to read as follows:

Section 106.4.2.1 Time limitation of application. Applications for which no permit is issued within 180 days following the date of application shall expire by limitation, and plans and other data submitted for review may thereafter be returned to the applicant or destroyed by the Building Official. The Building Official may extend the time for action by the applicant for a period not exceeding 180 days on request by the applicant showing that circumstances beyond the control of the applicant have prevented action from being taken. No application shall be extended more than once. In order to renew action on an application after expiration, the applicant shall resubmit plans and pay a new plan review fee.

Section 106.4.3 Expiration is hereby amended to read as follows:

Section 106.4.3 Expiration. Every permit issued by the building official under the provisions of this code shall expire by limitation and become null and void if the building or work authorized by such permit is not commenced and an inspection requested within 180 days from the date of such permit, or if the building or work authorized by such permit is suspended or abandoned at any time after the work is commenced for a

period of 180 days or if more than 180 days pass between any two inspections of the building or work, including the final inspection. Inspections requested and/or performed on work which is not complete shall not constitute an inspection for the purposes of this section. In the event of an expired permit, before such work can be recommenced, and/or inspections requested, a new permit shall be first obtained to do so, and the fee therefor shall be one-half the amount required for a new permit for such work, provided no changes have been made or will be made in the original plans and specifications for such work; and provided further that such permit has not expired for more than 30 days. In order to renew action on a permit more than 30 days after expiration, the permittee shall pay a new full permit fee. The building official shall have the sole discretion, except as otherwise provided herein, to extend permits and inspection deadlines for projects of an unusually large scope. Any building or work subject to a permit which has expired for a period of more than 30 days shall be declared a nuisance in accordance with Chapter 7, Article II, and/or Chapter 12, Article VI of the Grapevine Code of Ordinances.

Section 106.5.1 Work commencing before permit issuance is hereby deleted in its entirety and replaced with the following:

Section 106.5.1 Investigation, Fees, work without permit. Whenever any work for which a permit is required by this code has been commenced without first obtaining said permit, a special investigation shall be made before a permit may be issued for such work. An investigation fee, in addition to the permit fee, shall be collected whether or not a permit is then or subsequently issued. The investigation fee shall be equal to the amount of the permit fee required by this code. The minimum investigation fee shall be the same as the minimum permit fee set forth in the fee schedule adopted by the City. The payment of such investigation fee shall not exempt any person from compliance with all other provisions of this code nor from any penalty prescribed by law.

Section 106.5.2 Fee schedule. The fees for work shall be as indicated in the following schedule, attached hereto as Exhibit "C".

See Attached: [Exhibit C](#)

Section 106.5.3 Fee refunds is hereby amended to read as follows:

Section 106.5.3 Fee refunds. The code official shall authorize the refunding of fees as follows:

1. The full amount of any fee paid hereunder which was erroneously paid or collected.
2. Not more than eighty (80) percent of the permit fee paid when no work has been done under a permit issued in accordance with this code.
3. Not more than eighty (80) percent of the plan review fee paid when an application for a permit for which a plan review fee has been paid is withdrawn or canceled before any plan review effort has been expended.

The code official shall not authorize the refunding of any fee paid, except upon written application filed by the original permittee not later than 180 days after the date of the fee payment.

Section 106.5 Fees is hereby amended by the addition of a new Section 106.5.4, Reinspection fees to read as follows:

Section 106.5.4 Reinspection fees. A reinspection fee may be assessed for each inspection or reinspection when such portion of work for which inspection is called is not complete or when corrections called for are not made.

This subsection is not to be interpreted as requiring reinspection fees the first time a job is rejected for failure to comply with the requirements of this code, but as controlling the practice of calling for inspections before the job is ready for such inspection or reinspection.

Reinspection fees may be assessed when the inspection record card is not posted or otherwise available on the work site, the approved plans are not readily available to the inspector, for failure to provide access on the date for which inspection is requested, or for deviating from plans requiring the approval of the building official.

To obtain a reinspection, the applicant shall file an application therefor in writing on a form furnished for that purpose and pay the reinspection fee in accordance with the fee schedule adopted by the jurisdiction.

In instances where reinspection fees have been assessed, no additional inspection of the work will be performed until the required fees have been paid.

Section 108.4 Violation penalties is hereby amended to read as follows:

Section 108.4 Violation penalties. Any person who violates a provision of this code or fails to comply with any of the requirements thereof or who erects, constructs, alters or repairs a building or structure in violation of the approved construction documents or directive of the building official, or of a permit or certificate issued under the provisions of this code, shall be subject to punishment as provided in section 1-6 of the Code of Ordinances.

Section 109 (IFGC) Means of Appeal is hereby deleted in its entirety and amended to read as follows:

Section 109 (IFGC) Board of Appeals

Section 109.1 General. In order to hear and decide appeals of orders, decisions or determinations made by the building official relative to the application and interpretation of this code, there shall be and is hereby created a board of appeals. The board of

appeals shall be appointed by the City Council and shall hold office at its pleasure. The board shall adopt rules of procedure for conducting its business. This board shall consist of members and follow the procedures as prescribed in Section 7-4 of this chapter. This board shall be known as the Building Board of Appeals.

Section 109.2 Limitations on authority. An application for appeal shall be based on a claim that the true intent of this code or the rules legally adopted there under have been incorrectly interpreted, the provisions of this code do not fully apply or an equally good or better form of construction is proposed. The board shall have no authority to waive requirements of this code, nor make interpretations on the administrative provisions of this code.

Section 202 (IFGC) Definitions is hereby amended by the addition of the following:

APPLIANCE, UNVENTED. An appliance designed or installed in such a manner that the products of combustion are not conveyed by a vent or chimney directly to the outside atmosphere. Such appliances are hereby prohibited by this code.

Section 304.10 Louvers and grilles is hereby amended to read as follows:

Section 304.10 Louvers and grilles. The required size of openings . . . {bulk of paragraph unchanged} . . . to provide the free area specified. Where the design and free area are not known, it shall be assumed that wood louvers will have 25-percent free area and metal louvers and grilles will have 50-percent free area.

{Remainder of section unchanged}

Section 304.11 Combustion air ducts is hereby amended to read as follows:

Section 304.11 Combustion air ducts.

{Bulk of section to remain unchanged}

Exception 8 is hereby amended to read as follows:

8. Combustion air intake openings located on the exterior of a building shall have the lowest side of such openings located not less than 12 inches (305 mm) vertically from the adjoining grade level or the manufacturer's recommendation, wherever is more stringent.

Section 305.5 Private garages is hereby deleted in its entirety.

Section 305.7 Clearance from grade is hereby amended to read as follows:

Section 305.7 Clearances from grade. Equipment and appliances installed at grade level shall be supported on a level concrete slab or other approved material extending a

minimum of 3 inches (76 mm) above adjoining grade or shall be suspended a minimum of 6 inches (152 mm) above adjoining grade.

Section 306.3 Appliances in attics is hereby amended to read as follows:

Section 306.3 Appliances in attics. Attics containing appliances requiring access shall be provided . . . {bulk of paragraph unchanged} . . . from the opening to the equipment. The passageway shall have continuous unobstructed solid flooring not less than 30 inches (762 mm) wide. A level service space not less than 30 inches (762 mm) deep and 30 inches (762 mm) wide shall be present at the front or service side of the equipment. The clear access opening dimensions shall be a minimum of 20 inches by 30 inches (508 mm by 762 mm), or larger where such dimensions are not large enough to allow removal of the largest appliance. As a minimum, access to the attic space shall be provided by one of the following:

1. A permanent stair.
2. A pull down stair.
3. An access door from an upper floor level.

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

Exception 2 is hereby deleted in its entirety.

Section 306.5 Appliances on roofs or elevated structures as previously amended by the city is hereby deleted in its entirety.

Section 306.5.1 Sloped roofs is hereby amended by the addition of a new subparagraph *306.5.1.1. Catwalk* to read as follows:

Section 306.5.1.1 Catwalk. On roofs having slopes greater than 4 units vertical in 12 units horizontal, 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 the working platform at the appliance.

Section 306 Access and service space is hereby amended by the addition of a new subsection *306.7 water heaters above ground or floor* to read as follows:

Section 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 (2,438 mm) above the ground or floor level, it shall be made accessible by a stairway or permanent ladder fastened to the building.

306.7.1 Whenever the mezzanine or platform is not adequately lighted or access to a receptacle outlet is not obtainable from the main level, lighting and a receptacle outlet shall be provided in accordance with Section 306.3.1.

Section 401.5 Identification is hereby amended to read as follows:

Section 401.5 Identification. For other than black steel, exposed piping shall be identified by a yellow label marked "Gas" in black letters. The marking shall be spaced at intervals not exceeding 5 feet (1,524 mm). The marking shall not be required on pipe located in the same room as the equipment served.

Both ends of each section of medium pressure corrugated stainless steel tubing (CSST) 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"

Section 402.3 Sizing is hereby amended to read as follows:

Section 402.3 Sizing. Gas piping shall be sized in accordance with one of the following:

1. Pipe sizing tables or sizing equations in accordance with Section 402.4.
2. The sizing tables included in a listed piping system's manufacturer's installation instructions.
3. Other approved engineering methods.

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

Section 403.5.4 (IFGC) Corrugated stainless steel tubing is hereby amended to read as follows:

Section 403.5.4 (IFGC) Corrugated stainless steel tubing. Corrugated stainless steel tubing shall be tested and listed in compliance with the construction, installation and performance requirement of ANSI LCI/CSA 6.26, and the following requirements:

1. A current model code evaluation report must exist for the product.
2. Each element of the system (pipe and all fittings) must be properly labeled.

3. Complete installation instructions shall be on the jobsite at any time inspection may be performed.
4. Pressure regulators shall be installed in a ventilated attic or other nonhabitable space with direct ventilation to the exterior.
5. A shut off valve shall be installed ahead of the manifold and shut off valves shall be installed at the manifold for each branch.
6. Each branch shall be clearly labeled at the manifold as to which appliance it serves.

Section 404.6 Piping in solid floors is hereby amended to read as follows:

Section 404.6 Piping in solid floors. Piping in solid floors shall comply with Section 404.11.

Section 404.9 Minimum burial depth is hereby amended to read as follows:

Section 404.9 Minimum burial depth. Underground piping systems shall be installed a minimum depth of 18 inches (458 mm) below grade.

Section 406.4 Test pressure measurement is hereby amended to read as follows:

Section 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. For tests requiring a pressure of 5 psig, mechanical 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 10 psig, mechanical 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 30 psi.

Section 406.4.1 Test pressure. The test pressure to be used shall be not less than 1 1/2 times the working pressure and shall be not less than 5 psig, 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. 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 56 inches of water column pressure, 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 56 inches of water column, the test pressure shall be not less than one and one-half times the proposed maximum working pressure.

Section 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 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.

Section 409 (IFGC) Shutoff Valves is hereby amended by the addition of a new *subsection 409.1.4 valves in CSST installations* to read as follows:

Section 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 a 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.

Section 410.1 Pressure regulators is hereby amended by the addition of a second paragraph to read as follows:

Section 410.1 Pressure regulators.

{First paragraph unchanged}

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.

Section 614.6 Domestic clothes dryer ducts is hereby amended to read as follows:

Section 614.6 Domestic clothes dryer ducts. Exhaust ducts for domestic clothes dryers shall be constructed of metal and shall have a smooth interior finish. The exhaust duct shall be a minimum nominal size of 4 inches (102 mm) in diameter. The entire exhaust system shall be supported and secured in place. The male end of the duct at overlapped duct joints shall extend in the direction of airflow. Clothes dryer transition ducts used to connect the appliance to the exhaust duct system shall be metal and limited to a single length not to exceed 8 feet (2,438 mm) and shall be listed and labeled for the application. Transition ducts shall not be concealed within construction. The size of the duct shall not be reduced along its developed length nor at the point of termination.

Section 614.6.1 Maximum length is hereby amended to read as follows:

Section 614.6.1 Maximum length. The maximum length of a clothes dryer exhaust duct shall not exceed 25 feet (7,620 mm) from the dryer location to the outlet terminal with not more than two bends. When extra bends are installed, the maximum length of the duct shall be reduced 2.5 feet (762 mm) for each 45-degree (0.79 rad) bend and 5 feet (1,524 mm) for each 90-degree (1.6 rad) bend that occur after the first two bends, measuring in the direction of airflow.

{Exception is unchanged}

Section 621 (IFGC) Unvented Room Heaters is hereby deleted in its entirety.

Section 624.1.1 Installation requirements is hereby amended to read as follows:

Section 624.1.1 Installation requirements. The requirements for water heaters relative to access, sizing, relief valves, drain pans and scald protection shall be in accordance with the International *Plumbing Code*.

(Ord. No. 2005-15, § 7, 3-1-05; Ord. No. 2007-36, § 7, 7-17-07)

EXHIBIT "C"
CITY OF GRAPEVINE
MECHANICAL, ELECTRICAL, PLUMBING AND FUEL GAS
PERMIT FEES

TYPE OF OCCUPANCY	BUILDING AREA (SQ FT)	PERMIT FEES	AMOUNT DUE
I. R-3 SINGLE FAMILY, DUPLEX TOWNHOUSE, NEW CONSTRUCTION & ADDITIONS (PER UNIT) TOTAL SQ.FOOT UNDER ROOF _____	1 - 749 750 - 1,199 1,200 - 1,500 1,501 - 1,750 1,751 - 2,000 2,001 - 2,250 2,251 - 3,000 3,001 - 3,500 3,501 - 4,000 4,001 +	EACH TRADE \$ 33.25 \$ 49.88 \$ 63.18 \$ 76.48 \$ 83.13 \$ 89.78 \$ 96.43 \$ 103.08 \$ 109.73 \$ 120.37	\$ _____
II. A, E, I, R-1 HOTELS, APARTMENTS, DRINKING/DINING, EDUCATIONAL, ASSEMBLY, INSTITUTIONAL	1 - 500 501 - 100,000 100,001 - 500,000 500,001 +	EACH TRADE \$ 37.00 \$ 17.50+.035 \$ 3,500.00+.03 \$15,000.00+.02	PER SQUARE FOOT \$ _____
III. B, F, H, M, S, U OFFICE, RETAIL, WHOLESALE, GARAGES, FACTORIES, WORKSHOPS, SERVICE STATIONS, WAREHOUSE	1 - 500 501 - 50,000 50,001 - 100,000 100,001+	EACH TRADE \$ 37.00 \$ 32.00+ .01 \$ 182.00+ .007 \$ 582.00+ .003	PER SQUARE FOOT \$ _____
IV. ANY OCCUPANCY GROUP, ALTERATIONS, FINISH-OUTS, SHELL COMPLETIONS CONTRACT VALUATION OF WORK: \$ _____	<u>CONTRACT VALUATION OF WORK</u> 0- 500 501- 1,500 1,501- 3,000 3,001- 5,000 5,001- 50,000 50,001- 100,000 100,001- 500,000 500,000+	EACH TRADE \$ 37.00 \$ 45.00 \$ 57.00 \$ 72.00 \$ 27.00+ .009 \$ 127.00+ .007 \$ 327.00+ .005 \$ 1,327.00+ .003	PER DOLLAR VALUATION \$ _____
V. MISCELLANEOUS IRRIGATION SYSTEMS MOBILE HOME SERVICE TEMPORARY POLE SERVICE SWIMMING POOLS SIGN ELECTRIC		EACH TRADE \$ 37.00 \$ 37.00 \$ 37.00 \$ 37.00 \$ 37.00	\$ _____

OTHER INSPECTIONS AND FEES
INSPECTIONS OUTSIDE NORMAL BUSINESS HOURS (2HR MINIMUM).....\$42.00/HOUR*
REINSPECTION FEES..... \$42.00
PERMITS FOR WHICH NO FEE IS SPECIFICALLY INDICATED..... \$37.00
INSPECTIONS FOR WHICH NO FEE IS SPECIFICALLY INDICATED (1/2 HOUR MINIMUM).....\$42.00/HOUR
ADDITIONAL PLAN REVIEW REQUIRED BY CHANGES, ADDITIONS, OR REVISIONS TO
APPROVED PLANS.....\$42.00/HOUR
BUILDING PERMIT FEES FOR THE GRAPEVINE-COLLEYVILLE INDEPENDENT SCHOOL DISTRICT
SHALL BE 25% OF THE FEES ESTABLISHED IN THIS TABLE
FOR USE OF OUTSIDE CONSULTANTS FOR PLAN CHECKING AND INSPECTIONS, OR BOTH.....ACTUAL COSTS**

*OR THE TOTAL HOURLY COST TO THE JURISDICTION WHICHEVER IS GREATER.

**ACTUAL COSTS INCLUDE ADMINISTRATIVE AND OVERHEAD COSTS.