ORDINANCE NO. 2016-086

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF GRAPEVINE, TEXAS AMENDING THE GRAPEVINE CODE OF ORDINANCES, CHAPTER 11, FIRE PROTECTION AND PREVENTION, RELATING TO THE ADOPTION OF THE 2015 INTERNATIONAL FIRE CODE AS PUBLISHED BY THE INTERNATIONAL CODE COUNCIL; PROVIDING AMENDMENTS TO SAME; REPEALING CONFLICTING ORDINANCES; PROVIDING A PENALTY NOT TO EXCEED TWO THOUSAND DOLLARS ($2,000.00); DECLARING AN EMERGENCY AND PROVIDING AN EFFECTIVE DATE

WHEREAS, the City of Grapevine has previously adopted model codes for fire protection and prevention issues through Chapter 11 of the Code of Ordinances, and

WHEREAS, the International Code Council has promulgated updated model codes, and recommends same for adoption by municipalities; and

WHEREAS, the City wishes to update its model codes, including appropriate amendments thereto; and

WHEREAS, all constitutional and statutory prerequisites for the approval of this Ordinance/Resolution have been met, including but not limited to the Open Meetings Act; and

WHEREAS, the City Council deems the adoption of this ordinance to be in the best interests of the health, safety, and welfare of the public.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF GRAPEVINE, TEXAS:

Section 1. That all matters stated hereinabove are found to be true and correct and are incorporated herein by reference as if copied in their entirety.

Section 2. That Chapter 11, Fire Protection and Prevention, Article III, Fire Code, Section 11-40, 11-44, 11-45, 11-46, Code Adopted; Amendments, of the City of Grapevine Code of Ordinances, is hereby repealed in its entirety and a new section shall be added to read as follows:

"Section 11-40. Code Adopted; Amendments:

(a) The City of Grapevine hereby adopts the 2015 Edition of the International Fire Code, including Appendix D, E. F, and G, published by the International Code Council, Inc., save and except such portions as are deleted or amended by this ordinance, and the same are hereby adopted and incorporated as fully as if set out at length herein. One (1) copy of the 2015 Edition of the International Fire Code shall be on file with the City Secretary. From the date on which this ordinance shall take effect, the provisions thereof shall be controlling within the limits of the City of Grapevine and its extraterritorial jurisdiction.

(b) Fire Code - Amendments

CHAPTER 1
SCOPE AND ADMINISTRATION

*Amend **Section 101.1 Title** to read as follows:*

101.1 Title. These regulations shall be known as the Grapevine Fire Code, hereinafter referred to as "this code."

SECTION 102
APPLICABILITY

*Amend **Section 102.1 Construction and design provisions no. 3** to read as follows:*

3. Existing structures, facilities and conditions when required in Chapter 11 or in specific sections of this code.

*Amend **Section 102.4 Application of Building Code*** to read as follows:

102.4 Application of Building Code. The design and construction of new structures shall comply with this code, and other codes and ordinances adopted by the City. Repairs, alterations and additions to existing structures shall comply with the codes and ordinances adopted by the City of Grapevine.

*Amend **Section 102.6 Historic buildings** to read as follows:*

102.6 Historic buildings. The construction, alteration, repair, enlargement, restoration, relocation or movement of existing buildings or structures that are designated as historic buildings when such buildings or structures do not constitute a distinct hazard to life or property shall be in accordance with the provisions of the Building Code adopted by the City. *(Remainder is unchanged.)*

*Amend **Section 102.7 Referenced codes and standards** by adding the following sentences to read:*

102.7 Referenced codes and standards. ... Whenever amendments have been adopted to the referenced codes and standards, each reference to said code and standard shall be considered to reference the amendments as well. Any reference to NFPA 70 or the ICC Electrical Code shall mean the Electrical Code as adopted by the City of Grapevine.

SECTION 103
DEPARTMENT OF FIRE PREVENTION

*Amend **Section 103.1 General** to read as follows:*

103.1. General. The fire prevention division is established within the jurisdiction under the direction of the FIRE CHIEF. The function of the division shall be the implementation, administration and enforcement of the provisions of this code.

SECTION 105
PERMITS

*Amend **Section 105.6.32 Open burning** to read as follows:*

105.6.32 Open burning. An operational permit is required for the kindling or maintaining of an open fire, recreational fire, or a fire on any public street, alley, road, or other public or private ground. Instructions and stipulations of the permit shall be adhered to.

Exceptions:

1. RECREATIONAL FIRES in approved overnight campgrounds or parks that are kindled in approved fire rings.

2. Cooking fires in approved cooking appliances, such as but not limited to, bar-b-que grills, propane fired portable cook tops, hibachis, etc. Such cooking fires shall be located in an approved location.

3. RECREATIONAL FIRES in approved portable or permanent outdoor fireplaces or fire pits.

*Amend by adding **Section 105.8 Required special permits** to read as follows:*

105.8.1 Cooking inside an assembly occupancy, exhibit hall, ballroom, or foyer/pre-function area. An operational permit is required to fry, deep fry, bake, grill,

or otherwise cause to be cooked any food substance by an exhibitor inside an exhibit hall, ballroom, or foyer/pre-function area of an assembly occupancy.

105.8.2 Security Gates. A construction permit is required to install or modify a security gate or gates across any fire apparatus access road and shall comply with Section 503.6 of this code.

SECTION 108
BOARD OF APPEALS

*Amend **Section 108.1 Board of Appeals established** to read as follows:*

108.1 Board of Appeals established. In order to hear and decide appeals of orders, decisions or determinations made by the Fire Code 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 Fire Code Official shall be an ex officio member of said board but shall have no vote on any matter before the board. The board shall adopt rules of procedure for conducting its business, and shall render all decisions and findings in writing to the appellant with a duplicate copy to the Fire Code Official. This board shall consist of members and follow the procedures as prescribed in this section. This board shall be known as the Building Board of Appeals as referenced in 7.3 and 7.4 of the Grapevine Code of Ordinances.

*Amend **Section 108.2 Limitations on authority** to read as follows:*

108.2 Limitations on authority. An application for appeal shall be based on a claim that the intent of this code or the rules legally adopted hereunder have been incorrectly interpreted, the provisions of this code do not fully apply, or an equivalent method of protection or safety 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 109
VIOLATIONS

*Amend **Section 109.4 Violation penalties** to read as follows:*

109.4 Violation penalties. Persons who shall violate a provision of this code or shall fail to comply with any of the requirements thereof or who shall erect, install, alter, repair or do work in violation of the approved construction documents or directive of the Fire Code Official, or of a permit or certificate used under provisions of this code, shall be guilty of a misdemeanor, and, upon conviction in the Municipal Court, shall be subject to a fine not to exceed two thousand ($2,000.00) dollars for each offense,

and each day that a violation continues after due notice has been served shall be deemed a separate offense.

SECTION 111
STOP WORK ORDER

*Amend **Section 111.4 Failure to comply** to read as follows:*

111.4 Failure to comply. Any person who shall continue any work after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be liable to a fine of not more than two thousand ($2,000.00) dollars.

SECTION 113
FEES

*Amend **Section 113 Fees** amend to read by adding the following sentence:*

113.1 Fees. Inspections, Standby/Fire Watch activities shall be assessed fees as identified in the Schedule of Fees in Table 113.1A.

*Amend **Section 113.2 Reinspection fee** to read as follows:*

Section 113.2 Reinspection fee. 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 for failure to provide access on the date for which inspection is requested, or for deviating from plans requiring the approval of the Fire Code Official. To obtain a reinspection, the applicant shall file a reinspection request in writing and pay the reinspection fee in accordance with Table 113.1A or as set forth in 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.

Schedule of Fees
(Table 113.1A)

1.	Inspections outside of normal business hours	$45.00 per hour* (minimum charge – two hours)
2.	Reinspection fees assessed under provisions of Section 113.6	$45.00 per hour* (minimum charge – two hours)
3.	For use of outside consultants for plan checking and inspections, or both.	actual costs**
4.	FD Fire Watch/Standby – Person only, No Equipment	$45.00 per hour* (minimum charge – two hours)
5.	FD Fire Watch/Standby – Personnel with Equipment	Contract Agreement must be in place or as approved by the FIRE CHIEF

* Or the total hourly cost of the jurisdiction, whichever is the greatest. This cost shall include supervision, overhead, equipment, hourly wages and fringe benefits of the employees involved.

**Actual costs include administrative and overhead costs.

CHAPTER 2
DEFINITIONS

*Amend **Section 202 General Definitions** to read as follows by adding:*

(B) AMBULATORY CARE FACILITY. Buildings or portions thereof used to provide medical, surgical, psychiatric, nursing, or similar care on a less than 24 hour basis to persons who are rendered incapable of self-preservation by the services provided. This group may include but not be limited to the following:
Dialysis centers
Procedures involving sedation
Surgery centers
Colonic centers
Psychiatric centers

ATRIUM. An opening connecting three or more stories...*remaining text is unchanged.*

FIRE AREA. The aggregate floor area of a building, regardless of firewalls, fire barriers, fire partitions, or demising walls. For the purpose of calculating fire sprinkler requirements the total building will be considered one fire area.

FIRE CHIEF. The chief officer of the fire department serving the jurisdiction is the authority charged with the administration and enforcement of the code.

FIRE CODE OFFICIAL. The FIRE CHIEF, or other designated authority charged with the administration and enforcement of the code or a duly authorized representative.

FLOOR AREA. The aggregate floor area under roof or when no walls are present the horizontal projection of the roof regardless of firewalls, fire barriers, fire partitions, or demising walls. For the purpose of calculating fire sprinkler requirements the total building under roof will be considered one floor area.

FIREWATCH. A temporary measure intended to ensure continuous and systematic surveillance of a building or portion thereof by one or more qualified individuals or Fire Department standby personnel when required by the Fire Code Official, for the purposes of identifying and controlling fire hazards, detecting early signs of unwanted fire, raising an alarm of fire and notifying the fire department.

FIRE ZONE. Any area designated by the fire code official for the purpose of gaining access to fire protection equipment or connections.

HIGH-PILED COMBUSTIBLE STORAGE. ...*add second paragraph to read as follows:* Any building classified as a group S Occupancy or Speculative Building exceeding 6,000 square feet that has a clear height in excess of 14 feet, making it possible to be used for storage in excess of 12 feet, shall be considered to be high-piled storage. When a specific product cannot be identified, a fire protection system and life safety features shall be installed as for Class IV commodities, to the maximum pile height.

HIGH RISE. A building having floors used for human occupancy and/or storage located more than 55 feet above the lowest level of the fire department vehicle access, or four or more stories in height whichever is more restrictive, and all hotel and motel occupancies regardless of height.

LIGHT DUTY METAL CHAIN. A chain with the maximum diameter of metal in the chain links being one-quarter (1/4) inch, and does not mean high-test proof, coil chain and other than tempered chain, regardless of size.

MAIN GATE. A security gate located on private property where more than one (1) security gate exists. The owner shall designate in writing to the fire department the main gate.

OUTDOOR FIRE PIT. A place, structure or appliance that is designed and approved for the burning of fuel gas or combustible material that does not have a flue, chimney or duct and the combustion gases are emitted directly into the atmosphere.

PERMANENT OUTDOOR FIREPLACE. A fireplace designed and installed fixed to the ground and to operate off of fuel gas or solid-fuel that may be constructed of steel, concrete, clay or other noncombustible material. An outdoor fireplace may be open in design, or may be equipped with a small hearth opening and a short chimney or chimney opening in the top.

REPAIR GARAGE. A building, structure or portion thereof used for servicing or repairing motor vehicles. This occupancy shall also include garages involved in minor repair, modification and servicing of motor vehicles for items such as lube changes, inspections, windshield repair or replacement, shocks, minor part replacement and other such minor repairs.

SECURITY GATE. As used herein, a security gate shall be any device located on private property which prohibits access of motor vehicles. It includes, but is not limited to, a metal or wood swing railing extended across a street, private drive or fire lane, which will only be opened by a human operator situated on the premises or by remote control or both.

SELF SERVICE STORAGE FACILITY. Real property designed and used for the purpose of renting or leasing individual storage spaces to customers for the purpose of storing and removing personal property on a self-service basis.

STANDBY PERSONNEL. Qualified fire service personnel, approved by the Fire Code Official. When utilized, the number required shall be as directed by the Fire Code Official. Charges for utilization may be assessed as identified in the Fee Table 113.1A.

CHAPTER 3
GENERAL REQUIREMENTS

SECTION 307
OPEN BURNING, RECREATIONAL FIRES AND PORTABLE OUTDOOR FIREPLACES

*Amend **Section 307.3 Extinguishment authority** to read as follows:*

307.3 Extinguishment authority. Where open burning creates or adds to a hazardous, objectionable or offensive situation, or a required permit for open burning has not been obtained, the FIRE CHIEF or their designee is authorized to order the extinguishment of the open burning operation.

*Amend **Section 307.4 Location** to read as follows:*

307.4 Location. The location for open burning, shall not be less than 300 feet (91 440 mm) from any structure, and provisions shall be made to prevent the fire from spreading to within 300 feet (91 440 mm) of any structure.

Exceptions:
1. {Exceptions remain the same.}

*Amend **Section 307.4.1 Bonfires** to read as follows:*

307.4.1 Bonfires. Bonfires are prohibited in the City of Grapevine.

Explanation: This amendment is existing and for obvious reasons, bonfires have a large risk for injury and containing fire brands and flying embers is challenging. As such, bonfires are prohibited.

*Amend **Section 307.4.2 Recreational fires** to read as follows:*

307.4.2 Recreational fires. Recreational fires are prohibited unless conducted in an outdoor fireplace, fire pit or other approved device or appliance designed for such purpose and located at least 25 feet from a structure or combustible material. Conditions which could spread a fire to within 25 feet (7620 mm) shall be eliminated prior to ignition.

Exceptions:

2. PERMANENT OUTDOOR fire pits using fuel gas for recreational fires shall not be installed within 10 feet of structures or combustible material.
3. Outdoor fireplaces shall be no less than 8 feet from a structure.

*Amend **Section 307.4 Location** by adding **Section 307.4.4 Trench burns** to read as follows:*

307.4.4 Trench burns. Trench burns shall be conducted in air curtain trenches and in accordance with Section 307.2.

SECTION 308
OPEN FLAMES

*Amend **Section 308.1.6.2 Portable, fueled open-flame devices. Exception no. 3** to read as follows:*

Exceptions: Torches or flame-producing devices in accordance with Section 308.1.3.

SECTION 311
VACANT PREMISES

*Amend **Section 311.5 Placards** to read as follows:*

311.5 Placards. The FIRE CHIEF or his designee is authorized to require marking of any vacant or abandoned buildings or structures determined to be unsafe pursuant to Section 110 of this code relating to structural or interior hazards, as required by Section 311.5.1 through 311.5.5.

CHAPTER 5
FIRE SERVICE FEATURES

SECTION 5O1
GENERAL

*Amend **Section 501.4 Timing of installation** to read as follows:*

501.4 Timing of installation. When fire apparatus access roads or a water supply for fire protection is required to be installed for any structure or development, they shall be installed, tested, and approved prior to the time of which construction has progressed beyond completion of the foundation of any structure.

Exception: When approved alternative methods of protection are provided.

SECTION 502
DEFINITIONS

*Amend **Section 502.1 Definitions** to read as follows by adding:*

502.1 Definitions. The following terms are defined in Chapter 2.

LIGHT DUTY METAL CHAIN
MAIN GATE
OWNER
SECURITY GATE

SECTION 503
FIRE APPARATUS ACCESS ROADS

*Amend **Section 503.2.1 Dimensions** to read as follows:*

503.2.1 Dimensions. Fire apparatus access roads shall have an unobstructed width of not less than 24 feet, except for approved security gates in accordance with Section 503.6, and an unobstructed vertical clearance of not less than 13 feet 6 inches (4115 mm). Fire lanes located next to buildings with floors higher than 48 feet shall be required to have an unobstructed fire lane width of no less than 35 feet and shall be no farther than 35 feet from the base of the building.

*Amend **Section 503.2.3 Surface** to read as follows:*

503.2.3 Surface. Facilities, buildings or portions of buildings hereafter constructed as required in Section 503.1.1 shall be accessible to fire department apparatus by way of an approved fire apparatus access road with an asphalt, concrete or other approved surface capable of supporting the imposed load of fire apparatus weighing at least 95,000 pounds (34 050 kg) so as to provide all weather driving capabilities.

*Amend **Section 503.2.7 Grade** to read as follows:*

503.2.7 Grade. Fire apparatus access roads shall not exceed 7 percent in grade.

Exception: Grades steeper than 7 percent as approved by the FIRE CHIEF.

*Amend **Section 503.3 Marking** to read as follows:*

503.3 Marking. Fire lanes are required to be identified by approved striping or signs and shall remain legible at all times to identify such roads and prohibit the obstruction thereof. If striping of the fire lane is not feasible, approved signs may be used in accordance with this section. Where a curb is available, the striping shall be on the vertical face of the curb.

1. Striping – Fire apparatus access roads (fire lanes) shall be marked by painted lines of red paint, six inches in width to show the boundaries of the lane. The words "FIRE LANE, NO PARKING, TOW AWAY ZONE" shall appear in four inch white letters with a one inch stroke centered on the red stripe at no more than 25 foot intervals.

2. Signs – If signs are used, the signs shall read "FIRE LANE NO PARKING TOW AWAY ZONE" and shall be 12 inches wide by 18 inches high. Signs shall be painted on a white sign with red letters and a red border, using not less than 2 inch lettering. Signs shall be permanently affixed to a stationary post and the bottom of the sign shall be six feet six inches above finish grade. Signs shall be

spaced no more than 50 feet apart. Signs may be installed on permanent buildings or walls or as approved by the Fire Code Official.

*Amend **503.6 Security gates** to read as follows by adding:*

503.6.1 Minimum requirements. Security gates and gates securing fire apparatus access roads shall meet the following criteria:

1. The minimum gate width shall not be less than 24 feet.

2. Gates shall be of the swinging or sliding type.

3. Construction of gates shall be of materials that allow manual operation by one person.

4. Gate components shall be maintained in an operative condition at all times and replace or repaired when defective.

5. Electric gates shall be equipped with a means of opening the gate by fire department personnel for emergency access by the means of a KNOX brand key switch. Emergency opening devices shall be approved by the fire code official.

6. Electric gates may also be required to be equipped with a specialized automatic opening system as specified by the fire code official.

7. A manual means of releasing an electric gate shall be made available. A separate manual release box shall be installed on all electrical gates and secured with a KNOX padlock on the exterior side of the gate.

8. Manual opening gates that are to be locked shall be equipped with a KNOX padlock to allow emergency access by the fire department.

9. Locking device specifications shall be submitted for approval by the fire code official.

503.6.2 Main Gates

1. Main gates shall be located at least thirty (30) feet back from the inside edge of the sidewalk, or forty (40) feet from the edge of the public way.

2. All main gates shall be electrically operated with a manual disconnect in case of power failure. The manual disconnect is to be placed in a weather tight box, with a piano type hinge on one side and a KNOX BOX padlock and hasp on the other side.

3. All main gates shall open with the fire department KNOX key-operated switch. The KNOX key-operated switch shall be provided and install by the owner. The key-operated switch is to be located ten (10) feet from the gate, on the left side of the approach, placed on a pedestal with the key switch facing the fire lane. The key switch shall be no closer than four (4) feet six (6) inches or no farther than five (5) feet six (6) inches from the ground.

4. When a security gate is installed with a median, the entry side of the gate shall have a minimum opening and driving surface of twenty (20) feet.

SECTION 506
KEY BOXES

*Amend **Section 506.1 Where required** to read as follows:*

506.1 Where required. Where access to or within a structure or an area is restricted because of secured openings or where immediate access is necessary for life-saving or fire-fighting purposes, the fire code official is authorized to require a key box to be installed in an approved location. The key box shall be manufactured by the KNOX Company and shall contain keys to gain necessary access as required by the fire code official. The Fire Code Official is also authorized to require specialized automatic opening systems as needed. The specialized systems shall be compatible with the fire department.

SECTION 507
FIRE PROTECTION WATER SUPPLIES

*Amend **Section 507.4 Water supply test** to read as follows by adding:*

507.4 Water supply test ... The water supply test used for hydraulic calculation of fire protection systems shall have been conducted within one year of the fire protection system plan submittal.

*Amend **Section 507.5.1 Where required** to read as follows:*

507.5.1 Where required. The fire hydrants shall be installed at the location directed by the city engineer or as directed by the Fire Code Official. Unless approved by the city engineer and the Fire Code Official, fire hydrants shall have a maximum spacing of 500 feet in residential areas and 300 feet in commercial or mercantile areas. They shall be set truly vertical and securely braced with concrete blocks until self-standing, and shall be surrounded with a minimum of seven cubic feet of washed gravel or stone. Installation details are to be shown on the plans.

Fire hydrants shall be installed according to the Grapevine Code of Ordinances.

*Amend **Section 507.5.4 Obstruction** to read as follows:*

507.5.4 Obstruction. Unobstructed access to fire hydrants shall be maintained at all times. Posts, fences, vehicles, growth, trash, storage and other materials or objects shall not be placed or kept near fire hydrants, fire department inlet connections or fire protection system control valves in a manner that would prevent such equipment or fire hydrants from being immediately discernible. The fire department shall not be deterred or hindered from gaining immediate access to fire protection equipment or fire hydrants.

SECTION 509
FIRE PROTECTION AND UTILITY EQUIPMENT IDENTIFICATION AND ACCESS

*Amend **Section 509.1 Identification** by adding **Section 509.1.2 Sign requirements** to read as follows:*

509.1.2 Sign requirements. Unless more stringent requirements apply, new lettering for signs required by this section shall have a minimum height of two (2) inches when located inside a building and four (4) inches when located outside, or as approved by the Fire Code Official. The letters shall be of a color that contrasts with the background.

CHAPTER 6
BUILDING SERVICES AND SYSTEMS

SECTION 603
FUEL-FIRED APPLIANCES

*Amend **Section 603.3.2.1 Exception** to read as follows:*

603.3.2.1 Exception. The aggregate capacity limit shall be permitted to be increased to 3,000 gallons (11,356L) in accordance with all requirements of Chapter 57. *(Delete remainder of Exception.)*

*Amend **Section 603.3.2.2 Restricted use and connection** to read as follows:*

603.3.2.2 Restricted use and connection. Tanks installed in accordance with Section 603.3.2 shall be used only to supply fuel oil to fuel-burning equipment installed in accordance with Section 603.3.2.4. Connection between tanks and equipment supplied by such tanks shall be made using closed piping systems.

CHAPTER 8
INTERIOR FINISH, DECORATIVE MATERIALS AND FURNISHINGS

SECTION 807
DECORATIVE MATERIALS OTHER THAN DECORATIVE VEGETATION IN NEW AND EXISTING BUILDINGS

*Amend **Section 807.5.2.2 Artwork in corridors** by adding an exception to read as follows:*

Exception: Wall decorations of children's art work and teaching materials shall be limited to single dimension wall hangings not to exceed 50 percent of the wall area if the corridor is protected by an automatic sprinkler system installed according to Section 903.3.1.1.

CHAPTER 9
FIRE PROTECTION SYSTEMS

SECTION 901
GENERAL

*Amend **Section 901.2 Construction documents** to read as follows by adding:*

901.2 Construction documents... Approved plans shall be on site at all times during construction, inspections and testing.

*Amend **Section 901.4.3 Fire areas** to read as follows:*

901.4.3 Fire areas. Fire areas are the aggregate floor area of a building regardless of fire walls, fire barriers, fire partitions, or demising walls. For purposes of calculating fire protection system requirements the total building will be considered one structure.

*Add **Section 901.6.3 False alarms and nuisance alarms** to read as follows:*

901.6.3 False alarms and nuisance alarms. False alarms and nuisance alarms shall not be given, signaled, transmitted, caused or permitted to be given, signaled or transmitted in any manner.

*Amend **Section 901.7 Systems out of service** to read as follows:*

901.7 Systems out of service. Where a required fire protection system is out of service or in the event of an excessive number of activations, the fire department and the FIRE CHIEF shall be notified immediately and, where required by the FIRE CHIEF, the building shall either be evacuated or an approved fire watch shall be provided for

all occupants left unprotected by the shut down until the fire protection system has been returned to service. (*Remaining text is unchanged.)*

SECTION 903
AUTOMATIC SPRINKLER SYSTEMS

*Amend **Section 903.2 Where required** to read as follows:*

903.2 Where required. Approved automatic sprinkler systems in new buildings and structures shall be provided in the locations described in this section.

Exception: Spaces or areas in telecommunications buildings used exclusively for telecommunications equipment, associated electrical power distribution equipment, batteries and standby engines, provided those spaces or areas are equipped throughout with an automatic smoke detection system in accordance with Section 907.2 and are separated from the remainder of the building with a fire-resistance rating of not less than 1 hour fire barriers constructed in accordance with Section 706 of the *International Building Code* or not less than 2 hour horizontal assemblies constructed in accordance with Section 711 of the *International Building Code*, or both.

Approved automatic sprinkler systems shall be installed in all stories of buildings three or more stories in height including Group R, Division 3, Private Dwelling Units.

903.2.1.1 Group A-1. An automatic sprinkler system shall be provided for Group A-1 occupancies where one of the following conditions exist:

1. The FLOOR AREA, regardless of fire rated separations, exceeds 6,000 square feet;
2. The FLOOR AREA has an occupant load of 300 or more;
3. The FLOOR AREA is located on a floor other than the level of exit discharge; or
4. The FLOOR AREA contains a multi-theater complex.

903.2.1.2 Group A-2. An automatic sprinkler system shall be provided for Group A-2 occupancies where one of the following conditions exists:

1. The FLOOR AREA exceeds 5,000 square feet (465 M^2);
2. The FLOOR AREA is located on a floor other than the level of exit discharge; or
3. The FLOOR AREA has an occupant load of 100 or more.

903.2.1.3 Group A-3. An automatic sprinkler system shall be provided for Group A-3 occupancies where one of the following conditions exists:

1. The FLOOR AREA, including mezzanines, regardless of fire rated separations, exceeds 6,000 square feet;
2. The FLOOR AREA has an occupant load of 300 or more; or

3. The FLOOR AREA is located on a floor other than the level of exit discharge.

Exception: Areas used exclusively as swimming pool participant sports areas where the main floor area is located at the same level as the level of exit discharge of the main entrance and exit.

903.2.1.4 Group A-4. An automatic sprinkler system shall be provided for Group A-4 occupancies where one of the following exists:

1. The FLOOR AREA, including mezzanines, regardless of fire rated separations, exceeds 6,000 square feet;
2. The FLOOR AREA has an occupant load of 300 or more; or
3. The FLOOR AREA is located on a floor other than the level of exit discharge.

Exception: Areas used exclusively as swimming pool participant sports areas where the main floor area is located at the same level as the level of exit discharge of the main entrance and exit.

903.2.2.3 Group B. An automatic sprinkler system shall be provided throughout all buildings containing a Group B occupancy where one of the following exists:

1. The FLOOR AREA, including mezzanines, regardless of fire separation, exceeds 6,000 square feet; or
2. The Group B FLOOR AREA is located three or more stories above grade.

903.2.3 Group E. An automatic sprinkler system shall be provided for Group E occupancies as follows:

1. Throughout all Group E occupancies with a FLOOR AREA, including mezzanines, regardless of fire rated separations, greater than 6,000 square feet in area.
2. Throughout every portion of educational buildings below the level of exit discharge.

903.2.4 Group F. An automatic sprinkler system shall be provided throughout all buildings containing a Group F occupancy where one of the following conditions exists:

1. The FLOOR AREA, including mezzanines, regardless of fire rated separations, exceeds 6,000 square feet; or
2. The FLOOR AREA is located three or more stories above grade plane.
3. A Group F occupancy used for the manufacture of upholstered furniture or mattresses exceeds 2,500 square feet.

903.2.4.1 Woodworking operations. An automatic sprinkler system shall be provided throughout all Group F occupancy gross FLOOR AREAS that contain

woodworking operations in excess of 2,500 square feet in area (232 m^2) which generate finely divided combustible waste or which use finely divided combustible materials.

903.2.6 Group I. An automatic sprinkler system shall be provided throughout buildings with a Group I FLOOR AREA.

Exception:

1. An automatic sprinkler system installed in accordance with Section 903.3.1.2 shall be allowed in Group I-1 facilities.

903.2.7 Group M. An automatic sprinkler system shall be provided throughout buildings containing a Group M occupancy where one of the following conditions exists:

1. The FLOOR AREA, including mezzanines, regardless of fire rated separations exceeds 6,000 square feet;
2. The FLOOR AREA is located three or more stories above grade plane.

903.2.8. Group R. An automatic sprinkler system installed in accordance with Section 903.3 shall be provided throughout all buildings with a Group R FLOOR AREA.

Exception: Group R3 occupancies that do not exceed 6,000 square feet.

(Remainder is unchanged.)

903.2.9 Group S. An automatic sprinkler system shall be provided throughout all buildings containing a Group S occupancy where one of the following conditions exists:

1. The FLOOR AREA, including mezzanines, regardless of fire rated separations exceeds 6,000 square feet;
2. The FLOOR AREA is located three or more stories above grade plane; or
3. The Group S occupancy is used as an open or enclosed parking garage.

903.2.9.1 Repair garages. An automatic sprinkler system shall be provided throughout all buildings that contain a repair garage or any building used as repair garages when the fire area of the building exceeds 6,000 square feet regardless of fire rated separations. All buildings with a repair garage servicing vehicles in a basement shall be provided with a fire sprinkler system.

Amend ***Section 903.2.9.3 Self-service storage facility*** *delete the exception to read as follows:*

903.2.9.3 Self-service storage facility. An automatic sprinkler system shall be installed throughout all self-storage facilities:

Amend ***903.2.9.10 Group S-2*** *by deleting in its entirety.*

Amend ***Section 903.2.11.3 High rise buildings*** *to read as follows:*

903.2.11.3 High rise buildings. An automatic sprinkler system shall be installed throughout buildings with a floor level that meet the definition of a high rise as defined in this code.

Add ***Sections 903.2.11.7 High-piled combustible storage*** *and* ***903.2.11.8 Spray booths and rooms*** *to read as follows:*

903.2.11.7 High-piled combustible storage. For any building with a clear height exceeding 12 feet (4,572 mm), see Chapter 32 to determine if those provisions apply.

903.2.11.8 Spray booths and rooms. New and existing spray booths and spraying rooms shall be protected by an approved fire-extinguishing system.

Amend by adding ***Section 903.2.11.9 Required in all occupancies in the 300 and 400 blocks of South Main Street*** *to read as follows:*

903.2.11.9. Required in all occupancies in the 300 and 400 blocks of South Main Street.

1. Approved automatic sprinkler system shall be provided in all buildings and structures, both new and existing, in the 300 and 400 blocks of South Main Street, in the City of Grapevine, Texas.

2. Buildings and structures in the 300 and 400 blocks of South Main Street in the City of Grapevine, Texas that are already existing on the date of passage of this ordinance must comply with this requirement within six (6) months after the passage of this ordinance.

3. Owners of buildings and structures in the 300 and 400 blocks of South Main Street in the City of Grapevine, Texas that are already existing on the date of passage of this ordinance shall be eligible to participate in a Cost Sharing Program with all requirements of that program and agree to Participate no later than December 21, 2007. Such cost share agreement may allow for a revised fire sprinkler connection fee different from the fee required by the Grapevine Code of Ordinances, Chapter 25, Utilities and Services, Section 25-28 (4)b.

4. Regardless of whether owners of the above described buildings participate in the cost sharing program, the requirement to provide sprinkler systems shall apply.

*Amend **Section 903.3 Installation requirements** adding a paragraph to read as follows:*

Buildings required to be sprinklered per Section 903 shall have a hydraulically designed sprinkler system that meets all the requirements of the Fire Code and Building Code. Standpipes may be combined with the sprinkler system.

*Amend **Section 903.3.1.1.1 Exempt locations** to read as follows:*

903.3.1.1.1 Exempt locations. When approved by the Fire Code Official, automatic sprinklers shall not be required in the following rooms or areas where such rooms or areas are protected with an approved automatic fire detection system in accordance with Section 907.2 that will respond to visible or invisible particles of combustion. Sprinklers shall not be omitted from any room merely because it is damp, of fire-resistance-rated construction or contains electrical equipment.

1. Any room where the application of water, or flame and water, constitutes a serious life or fire hazard.

2. Any room or space where sprinklers are considered undesirable because of the nature of the contents, when approved by the Fire Code Official.

3. Generator and transformer rooms separated from the remainder of the building by walls and floor/ceiling or roof/ceiling assemblies having a fire-resistance rating of not less than 2 hours.

4. Elevator machine rooms, machinery spaces, and hoistways other than pits where such sprinklers would not necessitate shunt trip requirements under any circumstances.

*Amend **Section 903.3.1.2.3 Attics and attached garages** to read as follows by adding:*

903.3.1.2.3 Attics and attached garages. Sprinkler protection is required in attic spaces of R1 and R2 buildings two or more stories in height and attached garages of R1 and R2 occupancies.

*Amend **Section 903.3.1.3 NFPA 13D sprinkler systems** to read as follows:*

903.3.1.3 NFPA 13D sprinkler systems. Automatic sprinkler systems installed in one and two family dwellings, Group R3 or Group R4 Condition 1 and townhouses shall be permitted to be installed throughout in accordance with NFPA 13D or in accordance with state law.

Amend ***Section 903.3.5 Water Supplies*** *by adding a second paragraph to read as follows:*

Water supply as required for such systems shall be provided in conformance with the supply requirements of the respective standards; however, every water based fire protection system shall be designed with not less than a 10 p.s.i. safety factor.

Amend ***Section 903.4 Water supplies*** *by adding a second paragraph after the exceptions to read as follows:*

Sprinkler and standpipe system water-flow detectors shall be provided for each floor. Each floor shall be equipped with a floor isolation valve that includes this water flow detector. Activation of the sprinkler system shall cause an alarm upon detection of water flow for more than 45 seconds indicating the appropriate floor on the fire alarm control panel. All control valves in the sprinkler and standpipe systems except for fire department hose connection valves shall be electrically supervised to initiate a supervisory signal at the central station upon tampering.

SECTION 905
STANDPIPE SYSTEMS

Amend ***Section 905.2 Installation standards*** *to read as follows*

905.2 Installation standards. Standpipe systems shall be installed in accordance with this section and NFPA 14. Manual dry standpipe systems shall be supervised with a minimum of 10 psig and a maximum of 40 psig air pressure with a high/low alarm.

Amend ***Section 905.9 Valve supervision*** *by adding a second paragraph after the exceptions to read as follows:*

Sprinkler and standpipe system water-flow detectors shall be provided for each floor. Each floor shall be equipped with a floor isolation valve that includes this water flow detector. Activation of the sprinkler system shall cause an alarm upon detection of water flow for more than 45 seconds indicating the appropriate floor on the fire alarm control panel. All control valves in the sprinkler and standpipe systems except for fire department hose connection valves shall be electrically supervised to initiate a supervisory signal at the central station upon tampering.

SECTION 907
FIRE ALARM AND DETECTION SYSTEMS

Add ***Section 907.1.4 Design standards*** *to read as follows:*

907.1.4 Design standards. All alarm systems, new or replacement shall be addressable fire detection systems. Alarm systems serving more than 20 smoke detectors shall be analog addressable fire detection systems.

Exception: Existing systems need not comply unless the total building remodel or expansion initiated after the effective date of this code, as adopted, exceeds 30% of the building. When cumulative building remodel or expansion exceeds 50% of the building, the fire alarm system shall be brought into compliance with this code within 18 months of permit application.

*Amend **Section 907.2.3 Group E** to read as follows:*

907.2.3 Group E. A manual fire alarm system that initiates the occupant notification signal utilizing an emergency voice/alarm communication system meeting the requirements of Section 907.5.2.2 and installed in accordance with Section 907.6 shall be installed in Group E educational occupancies. When automatic sprinkler systems or smoke detectors are installed, such systems or detectors shall be connected to the building fire alarm system. An approved smoke detection system shall be installed in new Group E day care occupancies. Unless separated by a minimum of 100' open space, all buildings, whether portable buildings or the main building, will be considered one building for alarm occupant load consideration and interconnection of alarm systems.

Exceptions:

1. A manual fire alarm system is not required in Group E educational and day care occupancies with an occupant load of less than 50 when provided with an approved automatic sprinkler system.
   1.1. Residential In-Home day care with not more than 12 children may use interconnected single station detectors in all habitable rooms. (For care of more than five children 2 1/2 or less years of age, see Section 907.2.6.)

No change to remainder of section.

*Amend **Section 907.2.13 High-rise buildings** to read as follows:*

907.2.13 High-rise buildings. High rise buildings shall be provided with an automatic fire alarm system in accordance with Section 904.2.13.1, a fire department communication system in accordance with Section 907.2.13.2 and an emergency voice/alarm communications system in accordance with Section 907.5.2.2.

*Amend **Section 907.2.13 High-Rise Buildings, Exception no. 3** to read as follows:*

Buildings with an occupancy in Group A-5 in accordance with Section 303.1 of the *International Building Code*, when used for open air seating; however, this exception

does not apply to accessory uses including, but not limited to, sky boxes, restaurants and similarly enclosed areas.

*Amend **Section 907.6.1 Wiring** to read as follows by adding the sentence:*

907.6.1 Wiring. All fire alarm systems shall be installed in such a manner that the failure of any single alarm-actuating or alarm-indicating device will not interfere with the normal operation of any other such devices.

*Amend **Section 907.6.3 Initiating device identification** by deleting all four exceptions.*

SECTION 910
SMOKE AND HEAT REMOVAL

*Amend **Section 910.3.4 Smoke and heat vent operation** to read as follows by adding the sentence:*

910.3.4 Smoke and heat vent operation. The automatic operating mechanism of the smoke and heat vents shall operate at a temperature rating of at least 100 degrees F (approximately 38 degrees Celsius) greater than the temperature rating of the sprinklers installed.

SECTION 913
FIRE PUMPS

*Amend **Section 913.1 General** to read as follows and add a second paragraph:*

913.1 General. Where provided, fire pumps shall be installed in accordance with this section and NFPA 20. All structures required to have a fire pump shall not share piping or fire pumps with other structures.

When located on the ground level at an exterior wall, the fire pump room shall be provided with an exterior fire department access door that is not less than 3 feet in width and 6 feet - 8 inches in height, regardless of any interior doors that are provided. A key box shall be provided at this door, as required by Section 506.1.

Exception: When it is necessary to locate the fire pump room on other levels or not at an exterior wall, the corridor leading to the fire pump room access from the exterior of the building shall be provided with equivalent fire resistance as that required for the pump room, or as approved by the FIRE CHIEF. Access keys shall be provided in the key box as required by Section 506.1.

CHAPTER 10
MEANS OF EGRESS

*Amend **Sections 1001 through 1029** replace all references to Fire Code Official with Building Official.*

*Amend **Section 1010.1.9.8 Sensor release of electronically locked egress doors** to read as follows:*

1010.1.9.8. Sensor release of electrically locked egress doors. In fully sprinklered buildings the entrance doors in a means of egress in buildings shall meet the requirements of 1010.1.9.8. (*Remainder of section unchanged.)*

*Amend **Section 1023.11 Smokeproof enclosures** to read as follows:*

1023.11 Smokeproof enclosures. In buildings required to comply with Section 403 or 405 of the *International Building Code*, each of the exits of a building that serves stories where any floor surface is located more than 55 feet above the lowest level of fire department access shall be a smoke proof enclosure in accordance with Section 909.20 of the *International Building Code*.

*Amend **Section 1031.3 Obstructions** to read as follows:*

1031.3 Obstructions. A means of egress shall be free from obstructions that would prevent its use, including the accumulation of snow and ice and any other equipment, vehicle, device or appliance where its presence would obstruct or render the exit hazardous, such as but not limited to; motorcycles, gasoline and propane gas fueled equipment, bar-b-que grills, combustible and noncombustible storage, etc.

CHAPTER 11
CONSTRUCTION REQUIREMENTS FOR EXISTING BUILDINGS

*Amend **Section 1103.5 Sprinkler systems** to read as follows by adding:*

1103.5.4 Spray booths and rooms. Existing spray booths and spray rooms shall be protected by an approved automatic fire-extinguishing system in accordance with Section 2404.

1103.5.5 Expanded existing buildings. An automatic sprinkler system shall be installed throughout all buildings that are enlarged to be 6,000 square feet or greater. For the purpose of fire sprinklers, fire walls shall not be used to define separate buildings.

Exception: Existing buildings or occupancy need not comply unless the total building expansion or alteration affects 30% of the total building square footage.

*Amend **Section 1103.7 Fire alarm system** to read as follows by adding:*

1103.7.8 Fire alarm system design standards. Where an existing fire alarm system is upgraded or replaced, the devices shall be addressable. Fire alarm system utilizing more than 20 smoke and/or heat detectors shall have analog initiating devices.

Exception: Existing systems need not comply unless the total building, or fire alarm system, alteration or expansion exceeds 30% of the building square footage. When cumulative building, or fire alarm system, alteration or expansion initiated after the date of original fire alarm panel installation exceeds 50% of the building, or fire alarm system, the fire alarm system must comply within 18 months of permit application.

CHAPTER 24
FLAMMABLE FINISHES

*Amend **Section 2401.2 Non-applicability** by deleting this section.*

CHAPTER 31
TENTS, CANOPIES AND OTHER MEMBRANE STRUCTURES

*Amend **Section 3103.8.3 Location of structures in excess of 15,000 square feet in area** to read as follows:*

3103.8.3 Location of structures in excess of 15,000 square feet in area. Membrane structures having an area of 15,000 square feet (1,394 m^2) or more shall be located not less than 20 feet from any other tent or structure as measured from the sidewall of the tent or membrane structure unless joined together by a corridor.

CHAPTER 36
MARINAS

*Amend **Section 3604.2 Standpipes** to read as follows by adding an exception:*

3604.2 Standpipes.

Exception: Existing marinas with approved fire protection provided by at least two mobile fire pumps with firefighting equipment kept in approved locations. New marinas shall be equipped with Standpipes per Section 3604.2.

CHAPTER 56
EXPLOSIVES AND FIREWORKS

*Amend **Section 5601.1.3 Fireworks** to read as follows:*

5601.1.3 Fireworks. The possession, manufacture, storage, sale, handling and use of fireworks are prohibited.

Exceptions:

1. When approved by the FIRE CHIEF for fireworks displays, the storage and handling of necessary fireworks as provided for in Sections 5604 and 5608.

2. The use of fireworks for approved displays as permitted in Section 5608.

CHAPTER 57
FLAMMABLE AND COMBUSTIBLE LIQUIDS

*Amend Section **5704.2.11.4 Leak prevention** to read as follows by adding:*

5704.2.11.4 Leak prevention. Leak prevention for underground tanks shall comply with Sections 5704.2.11.4.1 through 5704.2.11.4.2. An approved method of secondary containment shall be provided for underground tank and piping systems.

*Amend **Section 5706.2.8 Dispensing from tank vehicles** to read as follows:*

5706.2.8.2 Mobile tank vehicles. It shall be unlawful for any person, to sell or dispense fuel from a mobile tank vehicle for purposes of retail sales such as a service station.

APPENDIX D FIRE APPARATUS ACCESS ROADS

*Amend **Section D102.1 Access and loading** to read as follows:*

D102.1 Access and loading. Facilities, buildings or portions of buildings hereafter constructed shall be accessible to fire department apparatus by way of an approved fire apparatus access road with an asphalt, concrete or other approved all weather driving surface capable of supporting the imposed load of fire apparatus weighing at least 95,000 pounds.

*Amend **Section D103.2 Grade** to read as follows:*

D103.2 Grade. Fire apparatus access roads shall not exceed 7 percent in grade.

Exception: Grades steeper than 7 percent as approved by the FIRE CHIEF.

Amend ***Table D103.4 Requirements for dead-end fire apparatus access roads*** *to read as follows:*

Access road length of 0-150 feet, change width column from 20 to 24.
Access road length of 151-500 feet, change width column from 20 to 35.
Access road length of 501-750 feet, change the width column from 26 to 35.

(The rest of the table remains unchanged.)

Amend ***Section D103.5 Fire apparatus access road gates no. 1*** *to read as follows:*

1. The minimum gate width shall be 20 feet (6,096 mm) where there are two or more lanes with or without a divider or median. The width shall be no less than 24 feet where there is only one lane of travel.

Section 3. Any person violating any of the provisions of this ordinance shall be deemed guilty of a misdemeanor and upon conviction thereof shall be fined in a sum not to exceed Two Thousand Dollars ($2,000.00) for each offense and a separate offense shall be deemed committed each day during or on which an offense occurs or continues.

Section 4. All ordinances or any parts thereof in conflict with the terms of this ordinance shall be and hereby are deemed repealed and of no force or effect.

Section 5. If any section, subsection, sentence, clause or phrase of this ordinance shall for any reason be held to be invalid, such decision shall not affect the validity of the remaining portions of this ordinance.

Section 6. The fact that the present ordinances and regulations of the City of Grapevine, Texas are inadequate to properly safeguard the health, safety, morals, peace and general welfare of the inhabitants of the City of Grapevine, Texas, creates undesirable conditions for the preservation of the public business, property, health, safety and general welfare of the public which requires that this ordinance shall become effective from and after the date of its passage, and it is accordingly so ordained.

PASSED AND APPROVED BY THE CITY COUNCIL OF THE CITY OF GRAPEVINE, TEXAS on this the 1st day of November, 2016.

APPROVED:

APPROVED:

William D. Tate
Mayor

ATTEST:

Tara Brooks
City Secretary

APPROVED AS TO FORM:

John F. Boyle, Jr.
City Attorney