

ORDINANCE NO. 4464

AN ORDINANCE OF THE CITY OF RICHARDSON, TEXAS, AMENDING THE CODE OF ORDINANCES OF THE CITY OF RICHARDSON, TEXAS, BY AMENDING CHAPTER 6, ARTICLE II, BY AMENDING SECTIONS 6-27 AND 6-28, TO ADOPT THE INTERNATIONAL BUILDING CODE, 2021 EDITION, TOGETHER WITH APPENDIX D AND AMENDMENTS THERETO; BY AMENDING SECTIONS 6-30 AND 6-31, TO ADOPT THE INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, 2021 EDITION AND AMENDMENTS THERETO; BY AMENDING SECTIONS 6-33 AND 6-34, TO ADOPT THE INTERNATIONAL ENERGY CONSERVATION CODE, 2021 EDITION, AND AMENDMENTS THERETO; BY AMENDING ARTICLE V, SECTIONS 6-237 AND 6-238, TO ADOPT THE INTERNATIONAL FUEL GAS CODE, 2021 EDITION, WITH APPENDIX A AND AMENDMENTS THERETO; BY AMENDING ARTICLE VI, SECTIONS 6-262 AND 6-263, TO ADOPT THE INTERNATIONAL MECHANICAL CODE, 2021 EDITION AND AMENDMENTS THERETO; BY AMENDING ARTICLE VII, SECTIONS 6-287 AND 6-288, TO ADOPT THE INTERNATIONAL PLUMBING CODE, 2021 EDITION, TOGETHER WITH APPENDICES C AND E AND AMENDMENTS THERETO; BY AMENDING ARTICLE II-A, SECTIONS 6-45 AND 6-46 TO ADOPT THE INTERNATIONAL EXISTING BUILDING CODE, 2021 EDITION, AND AMENDMENTS THERETO; BY AMENDING ARTICLE II-B, SECTIONS 6-46 AND 6-47 TO ADOPT THE INTERNATIONAL SWIMMING POOL AND SPA CODE, 2021 EDITION AND AMENDMENTS THERETO; PROVIDING A SAVINGS CLAUSE; PROVIDING A SEVERABILITY CLAUSE; PROVIDING A PENALTY OF A FINE NOT TO EXCEED THE SUM OF TWO THOUSAND DOLLARS (\$2,000.000) FOR EACH OFFENSE; AND PROVIDING AN EFFECTIVE DATE.

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

SECTION 1. That the Code of Ordinances of the City of Richardson, Texas, be, and the same is hereby amended by amending Chapter 6, Article II, Sections 6-27 and 6-28, in part, to read as follows:

“Sec. 6-27. - Adopted.

There is hereby adopted by the City of Richardson, Texas, the International Building Code, 2021 Edition, together with Appendix D and amendments, a copy of which is on file in the City Secretary’s Office and made a part of this Article for all purposes, the same as if copied in full herein, with the exception of such sections thereof as are hereinafter deleted, modified or amended.”

“Sec. 6-28. - Amendments.

The following sections of the International Building Code, 2021 Edition, together with Appendix D and amendments, are hereby amended to read as follows:

Section [A] 101.1 of the International Building Code, 2021 Edition, is amended to read as follows:

“[A] 101.1 Title. These regulations shall be known as the Building Code of Richardson, Texas, hereinafter referred to as “this code.”

Section [A] 101.4 of the International Building Code, 2021 Edition, is amended to read as follows:

“[A] 101.4 Referenced codes. The other codes listed in Subsections [A] 101.4.1 through [A] 101.4.8 and referenced elsewhere in this code, when specifically adopted, shall be considered part of the requirements of this code to the prescribed extent of each such reference. 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 Electrical Code shall mean the Electrical Code as adopted.”

Section [A] 101.4.4 of the International Building Code, 2021 Edition, is amended to read as follows:

“[A] 101.4.4 Property maintenance. The provisions of the City of Richardson Code of Ordinances, Chapter 6, Article VIII, Property Maintenance, shall apply to existing structures and premises; equipment and facilities; light, ventilation, space heating, sanitation, life and fire safety, hazards; responsibilities of owners, operators and occupants; and occupancy of existing premises and structures. All references to the International Property Maintenance Code shall hereafter read the City of Richardson Code of Ordinances, Chapter 6, Article VIII, Property Maintenance.”

Section [A] 101.4 of the International Building Code, 2021 Edition, is amended by adding Subsection [A] 101.4.8 to read as follows:

“[A] 101.4.8 Electrical. The provisions of the Electrical Code shall apply to the installation of electrical systems, including alterations, repairs, replacement, equipment, appliances, fixtures, fittings and appurtenances thereto.”

Section [A] 103.1 of the International Building Code, 2021 Edition, is amended to read as follows:

“Section [A] 103.1 – Creation of enforcement agency. The City of Richardson Building Inspection Department {remainder of text unchanged}.”

Section [A] 104.2.1 of the International Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section [A] 104.10.1 of the International Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section [A] 105.2 of the International Building Code, 2021 Edition, is amended by amending Building, item 1 to read as follows, and deleting Building, items 2 through 6, 10 and 13.

“[A] 105.2 Work exempt from permit.

1. Building: One-story detached accessory structures used as tool and storage sheds, playhouses and similar uses, provided the roof area does not exceed 40 square feet (3.71 m²).”

Section [A] 110.3.6 of the International Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section [A] 110.6 of the International Building Code, 2021 Edition, is amended by adding Subsections [A] 110.6.1 and [A] 110.6.2 to read as follows:

“[A] 110.6.1 Reinspection. Where any work or installation does not pass any initial inspection, the necessary corrections shall be made so as to achieve compliance with this code. The work or installation shall then be resubmitted to the code official for reinspection.”

“[A] 110.6.2 Subsequent reinspection. Where any work or installation does not pass a reinspection, the necessary corrections shall be made so as to achieve compliance with this code. The work or installation shall then be resubmitted to the code official for a subsequent reinspection. A fee shall be paid to the Building Inspection Department prior to each subsequent reinspection.”

Section [A] 113.1 of the International Building Code, 2021 Edition, is hereby amended to read as follows:

“[A] 113.1 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 adjustment. The board of adjustment shall be appointed and shall hold office in accordance with the City of Richardson Code of Ordinances, Appendix A – Comprehensive Zoning Ordinance of 1956, Article XXV. – Board of Adjustment. {all remaining sections deleted}.”

Section [A] 116 of the International Building Code, 2021 Edition, is amended by deleting Subsections [A] 116.2 through [A] 116.5 and by amending Subsection [A] 116.1 to read as follows:

“[A] 116.1 Unsafe conditions. Structures or existing equipment which are or hereafter become unsafe, unsanitary or deficient because of inadequate means of egress facilities, inadequate light and ventilation, or which constitute a fire hazard, or are otherwise dangerous to human life or the public welfare, or which involve illegal or improper occupancy or inadequate maintenance, or which are an urban nuisance, shall be deemed an unsafe condition. Unsafe structures are hereby declared illegal and shall be abated in accordance with the provisions of the City of Richardson Code of Ordinances, Chapter 6, Article VIII, Property Maintenance, as amended.”

Section 202 of the International Building Code, 2021 Edition, is amended by adding or amending the following definitions to read as follows:

“AISLE CONTAINMENT SYSTEM. A system of physical barriers and doors that separates cold supply airflow from hot exhaust airflow. Such systems are typically used to cool data center electronic equipment. There are two types of aisle containment systems, hot and cold.”

“ASSISTED LIVING FACILITIES. A building or part thereof housing persons, on a 24-hour basis, who because of age, mental disability, or other reasons, live in a supervised residential environment which provides personal care services. The occupants are capable of responding to an emergency situation without physical assistance from staff.”

“[F] FIREWORKS. Any composition or device for the purpose of producing a visible or an audible effect for entertainment purposes by combustion, deflagration, detonation, and/or activated by ignition with a match or other heat producing device that meets the definition of 1.3G fireworks, 1.4G fireworks, or sparklers. {remainder of text unchanged}.”

“[F] HIGH-PILED COMBUSTIBLE STORAGE: Storage of combustible materials in closely packed piles or combustible materials on pallets, in racks or on shelves where the top of storage is greater than 12 feet (3658 mm) in height. Where required by the fire code official, high-piled combustible storage also includes certain high-hazard commodities, such as rubber tires, Group A plastics, flammable liquids, idle pallets, and similar commodities, where the top of storage is greater than 6 feet (1829 mm) in height.

Any building classified as a group S Occupancy or Speculative Building exceeding 6,000 sq. ft. 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.”

“SPECIAL INSPECTOR. A qualified person employed or retained by an approved agency who shall prove to the satisfaction of the registered design professional in responsible charge and the Building Official as having the competence necessary to inspect a particular type of construction requiring special inspection.”

Section [F] 403.3 of the International Building Code, 2021 Edition is amended to read as follows:

“[F] 403.3 Automatic sprinkler system. {remainder of text unchanged}.”

Exception: 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 [F] 907.2 that will respond to visible or invisible particles of combustion. Sprinklers shall not be omitted from a 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, under the direct control of a public utility, 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, and machinery spaces, and hoistways, other than pits where such sprinklers would not necessitate shunt trip requirements under any circumstances.”

Section [F] 403.3.2 of the International Building Code, 2021 Edition is amended to read as follows:

“[F] 403.3.2 Water supply to required fire pumps. In buildings that are more than 120 feet (36.5 m) in building height, required fire pumps shall be supplied by connections to no fewer than two water mains located in different streets. Separate supply piping shall be provided between each connection to the water main and the pumps. Each connection and the supply piping between the connection and the pumps shall be sized to supply the flow and pressure required for the pumps to operate.

Exception: Two connections to the same main shall be permitted provided that the main is valved such that an interruption can be isolated so that the water supply will continue without interruption through not fewer than one of the connections.”

Section 404.10 of the International Building Code, 2021 Edition, is amended to read as follows:

“404.10 Exit stairways in an atrium. Where an atrium contains an exit access stairway all the following shall be met {remainder of text unchanged}.”

Section [F] 502.1 of the International Building Code, 2021 Edition, is amended to read as follows:

“[F] 502.1 Address identification. New and existing buildings shall be provided with approved address identification. The address identification shall be legible and placed in a position that is visible from the street or road fronting the property. Address identification characters shall contrast with their background. Address numbers shall be Arabic numbers or alphabetical letters. Numbers

shall not be spelled out. Each character shall be not less than 6 inches (152.4 mm) high with a minimum stroke width of 1/2 inch (12.7 mm). Where required by the fire code official, address numbers shall be provided in additional approved locations to facilitate emergency response. Where access is by means of a private road, buildings do not immediately front a street, and/or the building cannot be viewed from the public way, a monument, pole or other sign with approved 6 inch (152.4 mm) height building numerals or addresses and 4 inch (101.6 mm) height suite/apartment numerals of a color contrasting with the background of the building or other approved means shall be used to identify the structure. Numerals or addresses shall be posted on a minimum 20 inch (508 mm) by 30 inch (762 mm) background on border. Address identification shall be maintained.

Exception: R-3 Single Family occupancies shall have approved numerals of a minimum 3½ inches (88.9 mm) in height and a color contrasting with the background—clearly visible and legible from the street fronting the property and rear alleyway where such alleyway exists.”

Table 506.2; footnote i of the International Building Code, 2021 Edition, is hereby deleted and is of no force or effect.

Section 708.4.2, Exception 1 of the International Building Code, 2021 Edition, is amended to read as follows:

“708.4.2 Fireblocks and draftstops in combustible construction. {remainder of text unchanged}.

Exceptions:

1. Buildings equipped with an automatic sprinkler system installed throughout in accordance with Section [F] 903.3.1.1, or in accordance with Section [F] 903.3.1.2 provided that sprinkler protection is provided in the space between the top of the fire partition and the underside of the floor or roof sheathing, deck or slab above as required for systems complying with Section [F] 903.3.1.1. Portions of buildings containing concealed spaces filled with noncombustible insulation as permitted for sprinkler omission shall not apply to this exception for draftstopping.
2. Through 5. {remainder of text unchanged}.”

Section 718.3 of the International Building Code, 2021 Edition, is amended to read as follows:

“718.3 Draftstopping in floors. {remainder of text unchanged}.

Exception: Buildings equipped throughout with an automatic sprinkler system in accordance with Section [F] 903.3.1.1 and provided that in combustible construction, sprinkler protection is provided in the floor space.”

Section 718.4 of the International Building Code, 2021 Edition, is amended to read as follows:

“718.4 Draftstopping in attics. {remainder of text unchanged}.

Exception: Buildings equipped throughout with an automatic sprinkler system in accordance with Section [F] 903.3.1.1 and provided that in combustible construction, sprinkler protection is provided in the attic space.”

Section [F] 902.1 of the International Building Code, 2021 Edition is amended to read as follows:

“[F] 902.1 Pump and riser room requirements. A dedicated fire sprinkler riser room, or a room dedicated only to building systems, shall be provided for the main fire sprinkler riser and the fire alarm control panel that supervises the fire sprinkler system. {remainder of text unchanged}.”

Section [F] 902.1.1 of the International Building Code, 2021 Edition is amended to read as follows:

“[F] 902.1.1 Access. Rooms containing the main automatic sprinkler system riser(s), and/or fire pumps and controllers, shall be provided with an exterior access door. The door shall be locked, and access keys shall be placed in an approved key box at the exterior access door, as required by the International Fire Code, Section 506.”

Section [F] 902.1.2 of the International Building Code, 2021 Edition is amended to read as follows:

“[F] 902.1.2 Marking access doors. Access doors for automatic sprinkler system riser rooms and fire pump rooms shall be labeled with approved signs.”

Section [F] 903.2 of the International Building Code, 2021 Edition, is amended to read as follows:

“[F] 903.2 Where required. An automatic sprinkler system shall be installed:

1. In new buildings: Throughout new buildings with an area of 5,000 square feet or greater. For the purpose of this provision, fire areas shall not define separate buildings.
2. In existing buildings:
 - a. Throughout new areas of 5,000 square feet or more when fire wall(s) or fire barrier(s) separate the existing from the new construction, or, throughout the entire building when such fire separation is not present. For the purposes of this provision, fire areas shall not define separate buildings within the new construction, OR
 - b. If the cumulative area of the building with a new addition exceeds the areas indicated in [F] 903.2.1 through [F] 903.2.12, regardless of separation, those sections apply, OR
 - c. Change of use / occupancy classification, sprinklers shall comply with [F] 903.2.1 through [F] 903.2.12.

3. In locations described in Sections [F] 903.2.1 through [F] 903.2.12.

Exceptions:

1. Open parking garages in compliance with Section 406.5 of the International Building Code;
2. Patios complying with all the following:
 - a. Non-combustible construction; and,
 - b. No combustible materials, including furnishings, are stored or used on the patio; and,
 - c. Openings on at least two opposite sides of the patio. The openings shall be minimum 20% of the area of the patio perimeter walls on each of the opposite sides.

Automatic Sprinklers shall not be installed in elevator machine rooms, elevator machine spaces, and elevator hoistways, other than pits where such sprinklers would not necessitate shunt trip under any circumstances. Storage shall not be allowed within the elevator machine room. Signage shall be provided at the entry doors to the elevator machine room indicating “ELEVATOR MACHINERY – NO STORAGE ALLOWED.”

Section [F] 903.2.11 of the International Building Code, 2021 Edition, is amended to add Subsections [F] 903.2.11.7 and [F] 903.2.11.8 to read as follows:

“**[F] 903.2.11.7 High-Piled Combustible Storage.** For any building with a clear height exceeding 12 feet (4572 mm). Reference Chapter 32 of the International Fire Code to determine applicable provisions.”

“**[F] 903.2.11.8 Spray Booths and Rooms.** New and existing spray booths and spraying rooms shall be protected by an approved automatic fire-extinguishing system.”

Section [F] 903.3.1.1.1 of the International Building Code, 2021 Edition, is amended to read as follows:

“**[F] 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 [F] 907.2 that will respond to visible or invisible particles of combustion. Sprinklers shall not be omitted from a 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, under the direct control of a public utility, 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, and machinery spaces, and hoistways, other than pits where such sprinklers would not necessitate shunt trip requirements under any circumstances.”

Section [F] 903.3.1.2.2 of the International Building Code, 2021 Edition, is amended to read as follows:

“**[F] 903.3.1.2.2 Corridors and balconies.** Sprinkler protection shall be provided in all corridors and for all balconies.”

Section [F] 903.3.1.2.3 of the International Building Code, 2021 Edition, is amended to read as follows:

“**[F] 903.3.1.2.3 Attics and Attached Garages.** Sprinkler protection is required in attic spaces of buildings two or more stories in height, in accordance with NFPA 13 and/or NFPA 13R requirements, and in attached garages or in accordance with state law.”

Section [F] 903.3.1.3 of the International Building Code, 2021 Edition, is amended to read as follows:

“**[F] 903.3.1.3 NFPA 13D Sprinkler Systems.** Automatic sprinkler systems installed in one- and two-family dwellings; Group R-3; Group R-4, Condition 1; and townhouses shall be permitted to be installed throughout in accordance with NFPA 13D or in accordance with state law.”

Section [F] 903.3.1 of the International Building Code, 2021 Edition, is amended to add Subsections [F] 903.3.1.4, [F] 903.3.1.4.1 and [F] 903.3.1.4.2 to read as follows:

“**[F] 903.3.1.4 Freeze protection.** Freeze protection systems for automatic fire sprinkler systems shall be in accordance with the requirements of the applicable referenced NFPA standard and this section.”

“**[F] 903.3.1.4.1 Attics.** Only dry-pipe, pre-action, or listed antifreeze automatic fire sprinkler systems shall be allowed to protect attic spaces.

Exception: Wet-pipe fire sprinkler systems shall be allowed to protect non-ventilated attic spaces where:

1. The attic sprinklers are supplied by a separate floor control valve assembly to allow ease of draining the attic system without impairing sprinklers throughout the rest of the building, and
2. Adequate heat shall be provided for freeze protection as per the applicable referenced NFPA standard, and

3. The attic space is a part of the building's thermal, or heat, envelope, such that insulation is provided at the roof deck, rather than at the ceiling level.”

“**[F] 903.3.1.4.2 Heat trace/insulation.** Heat trace/insulation shall only be allowed where approved by the fire code official for small sections of large diameter water-filled pipe.”

Section [F] 903.3.5 of the International Building Code, 2021 Edition, is amended to read as follows:

“**[F] 903.3.5 Water Supplies.** Water supplies for automatic sprinkler systems shall comply with this section and the standards referenced in Section [F] 903.3.1. The potable water supply shall be protected against backflow in accordance with the requirements of this section, TCEQ Rules, and the International Plumbing Code. For connections to public waterworks systems, the water supply test used for design of fire protection systems shall be adjusted to account for seasonal and daily pressure fluctuations based on information from the water supply authority and as approved by the fire code official.

Water supplies for such systems shall be provided in conformance with the supply requirements of the respective NFPA standards; however, every water-based fire protection system shall be designed with a minimum 5 psi safety factor, unless otherwise approved. Reference the International Fire Code, Section [F] 507.4 for additional design requirements.”

Section [F] 903.3.5 of the International Building Code, 2021 Edition, is amended to add Subsection [F] 903.3.5.3 to read as follows:

“**[F] 903.3.5.3. Backflow prevention valve location.** Backflow prevention valves shall be in a fire sprinkler riser room, fire pump room, or other approved indoor location.”

Section [F] 903.4 of the International Building Code, 2021 Edition, is amended to read as follows:

“**[F] 903.4 Sprinkler system supervision and alarms.** Valves controlling the water supply for automatic sprinkler systems, pumps, tanks, water levels and temperatures, critical air pressures and waterflow switches on all sprinkler systems shall be electrically supervised by a listed fire alarm control unit.

Exceptions:

1. Automatic sprinkler systems protecting one- and two-family dwellings;
2. Limited area sprinkler systems in accordance with Section [F] 903.3.8;
3. Automatic sprinkler systems installed in accordance with NFPA 13R where a common supply main is used to supply both domestic water and the automatic sprinkler system, and a separate shutoff valve for the automatic sprinkler system is not provided;
4. Jockey pump control valves that are sealed or locked in the open position;

5. Control valves to commercial kitchen hoods, paint spray booths or dip tanks that are sealed or locked in the open position;
6. Valves controlling the fuel supply to fire pump engines that are sealed or locked in the open position;
7. Trim valves to pressure switches in dry, pre-action and deluge sprinkler systems that are sealed or locked in the open position.

Sprinkler and standpipe system water-flow detectors shall be provided for each floor tap to the sprinkler system and shall cause an alarm upon detection of constant water flow between 45-60 seconds. 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 [F] 903.4.2 of the International Building Code, 2021 Edition, is amended to read as follows:

“**[F] 903.4.2 Alarms.** An approved audible device, located on the exterior of the building in an approved location, shall be connected to each automatic sprinkler system. Such sprinkler waterflow alarm devices shall be activated by waterflow equivalent to the flow of a single sprinkler of the smallest orifice size installed in the system. Where a fire alarm system is installed, actuation of the automatic sprinkler system shall actuate the building fire alarm system.

The alarm device required on the exterior of the building shall be a weatherproof horn/strobe notification appliance with a minimum 75 candela strobe rating. The device shall be located on the exterior of the building, in an approved location, to identify the primary emergency access to the fire sprinkler riser room, or as otherwise approved.”

Section [F] 904.2.1 of the International Building Code, 2021 Edition, is hereby deleted and is of no force or effect.

Section [F] 903.4 of the International Building Code, 2021 Edition, is amended to add Subsections [F] 903.4.4, [F] 903.4.5 and [F] 903.4.6 to read as follows:

“**[F] 903.4.4 Group R-2 riser security.** Fire sprinkler riser room access doors of group R-2 buildings shall be secured to prevent unauthorized access.”

“**[F] 903.4.5 Dedicated function fire alarm system [“sprinkler waterflow and supervisory system”] control panel location.** In fire sprinklered buildings, the dedicated function fire alarm system [“sprinkler waterflow and supervisory system”] control panel shall be located at the main fire sprinkler riser room, unless otherwise approved. A remote annunciator may also be required to facilitate Fire Department response.”

“**[F]903.4.6 Riser room access.** Main fire sprinkler riser rooms shall have an exterior fire department access door not less than 3 ft. in width and 6 ft. – 8 in. in height, regardless of any interior doors that are provided.”

Section [F] 904.3.5 of the International Building Code, 2021 Edition, is amended to read as follows:

“[F] 904.3.5 Monitoring. Where a building fire alarm system, or a “sprinkler waterflow and supervisory system”, is installed, automatic fire-extinguishing systems shall be monitored by the building fire alarm system, or “sprinkler waterflow and supervisory system.”

Section [F] 904.13.1 of the International Building Code, 2021 Edition, is amended to read as follows:

“[F] 904.13.1 Manual system operation. A manual actuation device shall be located at or near a means of egress from the cooking area not less than 10 feet (3048 mm) and not more than 20 feet (6096 mm) from the kitchen exhaust system, unless otherwise approved. The manual actuation device shall be installed not more than 48 inches (1200 mm) nor less than 42 inches (1067 mm) above the floor and shall clearly identify the hazard protected. The manual actuation shall require a maximum force of 40 pounds (178 N) and a maximum movement of 14 inches (356 mm) to actuate the fire suppression system.

Exception: Automatic sprinkler systems shall not be required to be equipped with manual actuation means.”

Section [F] 905.2 of the International Building Code, 2021 Edition, is amended to read as follows:

“[F] 905.2 Installation standard. 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.”

Section [F] 905.3.1 of the International Building Code, 2021 Edition, is amended to read as follows:

“[F] 905.3.1 Height. Class III standpipe systems shall be installed throughout buildings where any of the following conditions exist:

1. Four or more stories are above or below grade plane.
2. The floor level of the highest story is located more than 30 feet (9144 mm) above the lowest level of the fire department vehicle access.
3. The floor level of the lowest story is located more than 30 feet (9144 mm) below the highest level of fire department vehicle access.

Exceptions:

1. Class I standpipes are allowed in buildings equipped throughout with an automatic sprinkler system in accordance with Section [F] 903.3.1.1 or [F] 903.3.1.2.
2. Class I standpipes are allowed in Group B and E occupancies.

3. Class I manual standpipes are allowed in open parking garages where the highest floor is located not more than 150 feet (45 720 mm) above the lowest level of fire department vehicle access.
4. Class I manual dry standpipes are allowed in open parking garages that are subject to freezing temperatures, provided that the hose connections are located as required for Class II standpipes in accordance with Section [F] 905.5.
5. Class I standpipes are allowed in basements equipped throughout with an automatic sprinkler system.
6. Class I standpipes are allowed in buildings where occupant-use hose lines will not be utilized by trained personnel or the fire department.
7. In determining the lowest level of fire department vehicle access, it shall not be required to consider either of the following:
 - a. Recessed loading docks for four vehicles or less.
 - b. Conditions where topography makes access from the fire department vehicle to the building impractical or impossible.”

Section [F] 905.3 of the International Building Code, 2021 Edition, is amended to add Subsection [F] 905.3.9 to read as follows:

“[F] 905.3.9 Buildings exceeding 10,000 sq. ft. In buildings exceeding 10,000 square feet in area per story and where any portion of the building’s interior area is more than 200 feet (60960 mm) of travel, vertically and horizontally, from the nearest point of fire department vehicle access, Class I automatic wet or manual wet standpipes shall be provided. For the purpose of this provision, fire areas shall not define separate buildings.

Exceptions:

1. Automatic dry, semi-automatic dry, and manual dry standpipes are allowed as provided for in NFPA 14 where approved by the fire code official;
2. R-2 occupancies of four stories or less in height having no interior corridors.”

Section [F] 905.4 of the International Building Code, 2021 Edition, is amended to read as follows:

“[F] 905.4 Location of Class I standpipe hose connections. Class I standpipe hose connections shall be provided in all of the following locations:

1. In every required exit stairway, a hose connection shall be provided for each story above and below grade plane. Hose connections shall be located at an intermediate landing between stories, unless otherwise approved by the fire code official.

Exception: {deleted}.

2. On each side of the wall adjacent to the exit opening of a horizontal exit.

Exception: Where floor areas adjacent to a horizontal exit are reachable from an interior exit stairway hose connection by a 30-foot (9144 mm) hose stream from a nozzle attached to 100 feet (30 480 mm) of hose, a hose connection shall not be required at the horizontal exit.

3. In every exit passageway, at the entrance from the exit passageway to other areas of a building.

Exception: Where floor areas adjacent to an exit passageway are reachable from an exit stairway hose connection by a 30-foot (9144 mm) hose stream from a nozzle attached to 100 feet (30 480 mm) of hose, a hose connection shall not be required at the entrance from the exit passageway to other areas of the building.

4. In covered mall buildings, adjacent to each exterior public entrance to the mall and adjacent to each entrance from an exit passageway or exit corridor to the mall. In open mall buildings, adjacent to each public entrance to the mall at the perimeter line and adjacent to each entrance from an exit passageway or exit corridor to the mall.
5. Where the roof has a slope less than four units vertical in 12 units horizontal (33.3-percent slope), each standpipe shall be provided with a hose connection, except that the most demanding standpipe shall be provided with a two-way hose connection, located to serve the roof or at the highest landing of an interior exit stairway with stair access to the roof provided in accordance with Section 1011.12, or as otherwise approved by the fire code official.
6. Where the most remote portion of a non-sprinklered floor or story is more than 150 feet (45 720 mm) from a hose connection or the most remote portion of a sprinklered floor or story is more than 200 feet (60 960 mm) from a hose connection, the fire code official is authorized to require that additional hose connections be provided in approved locations.
7. When required by this Chapter, standpipe connections shall be placed adjacent to all required exits to the structure and at maximum two hundred feet (200') intervals along major corridors thereafter, or as otherwise approved by the fire code official."

Section [F] 905.4 of the International Building Code, 2021 Edition, is amended to add Subsection [F] 905.4.3 to read as follows:

“[F] 905.4.3 Identification and clearance. Standpipe hose valve connection locations shall be clearly identified in the following manner:

1. In parking garages, a blue reflective driveway marker shall be placed in the center of the driveway in line with the center of the standpipe connection.
2. When the connection is on a wall the pipe shall be painted red from floor to ceiling, or minimum 10-feet high, whichever is less.

3. The fire code official may require additional signs and/or markings to clearly identify standpipe locations.
4. In garages and driveways, a minimum 36-inch wide, permanently marked, clear path shall be provided in front of standpipe hose connections and shall extend from the center of the connection to the aisle or driveway from which it can be accessed. Vehicle impact protection complying with the International Fire Code, Section 312 shall be provided where damage from a vehicle can occur.”

Section [F] 905.8 of the International Building Code, 2021 Edition, is amended to read as follows:

“**[F] 905.8 Dry standpipes.** Dry standpipes shall not be installed.

Exception: Where subject to freezing and in accordance with NFPA 14. Additionally, 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 supervisory alarm.”

Section [F] 905.9 of the International Building Code, 2021 Edition, is amended to read as follows:

“**[F] 905.9 Valve supervision.** Valves controlling water supplies shall be supervised in the open position so that a change in the normal position of the valve will generate a supervisory signal at the supervising station required by Section [F] 903.4. Where a fire alarm system is provided, a signal shall be transmitted to the control unit.

Exceptions:

1. Valves to underground key or hub valves in roadway boxes provided by the municipality or public utility do not require supervision.
2. Valves locked in the normal position and inspected as provided in this code in buildings not equipped with a fire alarm system.

Sprinkler and standpipe system water-flow detectors shall be provided for each floor tap to the sprinkler system and shall cause an alarm upon detection of water flow for 45-60 seconds. 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 [F] 906.1 of the International Building Code, 2021 Edition, is amended to read as follows:

“**[F] 906.1 Where required.** Portable fire extinguishers shall be installed in all of the following locations:

1. In new and existing Group A, B, E, F, H, I, M, R-1, R-2, R-4 and S occupancies.

Exceptions:

1. In Group R-2 occupancies, portable fire extinguishers shall be required only in locations specified in Items 2 through 6 where each dwelling unit is provided with a portable fire extinguisher having a minimum rating of 1-A:10-B:C.
2. In Group E occupancies, portable fire extinguishers shall be required only in locations specified in Items 2 through 6 where each classroom is provided with a portable fire extinguisher having a minimum rating of 2-A:20-B:C.
2. Within 30 feet (9144 mm) distance of travel from commercial cooking equipment and from domestic cooking equipment in Group I-1; I-2, Condition 1; and R-2 college dormitory occupancies.
3. In areas where flammable or combustible liquids are stored, used or dispensed.
4. On each floor of structures under construction, except Group R-3 occupancies, in accordance with the International Fire Code, Section 3316.1.
5. Where required by the sections indicated in Table [F] 906.1.
6. Special-hazard areas, including but not limited to laboratories, computer rooms and generator rooms, where required by the fire code official.

Exception: Portable fire extinguishers are not required at normally unmanned Group U occupancy buildings or structures where a portable fire extinguisher suitable to the hazard of the location is provided on the vehicle of visiting personnel.”

Section [F] 907.1 of the International Building Code, 2021 Edition, is amended to add Subsection [F] 907.1.4 to read as follows:

“**[F] 907.1.4 Design standards.** Where a new fire alarm system is installed, the devices shall be addressable. Fire alarm systems utilizing more than 20 smoke detectors shall have analog initiating devices.”

Section [F] 907.1 of the International Building Code, 2021 Edition, is amended to add Subsection [F] 907.1.5 to read as follows:

“**[F] 907.1.5 Fire alarm control panel location.** In fire sprinklered buildings, the fire alarm control panel shall be located at the main fire sprinkler riser room, unless otherwise approved. A remote annunciator may also be required to facilitate Fire Department response.”

Section [F] 907.2.1 of the International Building Code, 2021 Edition, is amended to read as follows:

“**[F] 907.2.1 Group A.** A manual fire alarm system that activates the occupant notification system in accordance with Section [F] 907.5 shall be installed in Group A occupancies having an occupant load of 300 or more persons, or where the occupant load is more than 100 persons above or below

the lowest level of exit discharge. Group A occupancies not separated from one another in accordance with Section 707.3.10 shall be considered as a single occupancy for the purposes of applying this section. Portions of Group E occupancies occupied for assembly purposes shall be provided with a fire alarm system as required for the Group E occupancy.

Exception: Manual fire alarm boxes are not required where the building is equipped throughout with an automatic sprinkler system installed in accordance with Section [F] 903.3.1.1 and the occupant notification appliances will activate throughout the notification zones upon sprinkler water flow.

Activation of fire alarm notification appliances shall:

1. Cause illumination of the means of egress with light of not less than 1 foot-candle (11 lux) at the walking surface level, and
2. Stop any conflicting or confusing sounds and visual distractions.”

Section [F] 907.2.3 of the International Building Code, 2021 Edition, is amended to read as follows:

“[F] 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 [F] 907.5.2.2 and installed in accordance with Section [F] 907.6 shall be installed in Group E occupancies. Where automatic sprinkler systems or smoke detectors are installed, such systems or detectors shall be connected to the building fire alarm system.

Exceptions:

1. A manual fire alarm system is not required in Group E educational and day care occupancies with an occupant load of 50 or less.
2. Emergency voice/alarm communication systems meeting the requirements of Section [F] 907.5.2.2 and installed in accordance with Section [F] 907.6 shall not be required in Group E occupancies with occupant loads of 100 or less provided that activation of the manual fire alarm system initiates an approved occupant notification signal in accordance with Section [F] 907.5.
3. Manual fire alarm boxes shall not be required in Group E occupancies where all the following apply:
 1. Interior corridors are protected by smoke detectors.
 2. Auditoriums, cafeterias, gymnasiums and similar areas are protected by heat detectors or other approved detection devices.
 3. Shops and laboratories involving dusts or vapors are protected by heat detectors or other approved detection devices.

4. Manual activation is provided from a normally occupied location.
4. Manual fire alarm boxes shall not be required in Group E occupancies where all the following apply:
 1. The building is equipped throughout with an approved automatic sprinkler system installed in accordance with Section [F] 903.3.1.1.
 2. The emergency voice/alarm communication system will activate on sprinkler water flow.
 3. Manual activation is provided from a normally occupied location.
 4. Residential in-home day care with not more than 12 children shall have interconnected single station smoke alarms in all habitable rooms. (For care of more than five children 2-1/2 or less years of age, see Section [F] 907.2.6.)"

Section [F] 907.4.2 of the International Building Code, 2021 Edition, is amended to add Subsection [F] 907.4.2.7 to read as follows:

“[F] 907.4.2.7 Type. Manual alarm initiating devices shall be an approved double action type.”

Section [F] 907.5.2.2.3 of the International Building Code, 2021 Edition, is amended to read as follows:

“[F] 907.5.2.2.3 Alternative uses. The emergency voice/ alarm communication system shall be allowed to be used for other announcements, provided that the manual fire alarm use takes precedence over any other use, unless approved by the fire code official.”

Section [F] 907.5.2.3 of the International Building Code, 2021 Edition, is amended to read as follows:

“[F] 907.5.2.3 Visible alarms. Visible alarm notification appliances shall be provided in accordance with Sections [F] 907.5.2.3.1 through [F] 907.5.2.3.3.

Exceptions:

1. When approved by the fire code official, visible alarm notification appliances are not required in alterations, except where an existing fire alarm system is upgraded or replaced, or a new fire alarm system is installed.
2. Visible alarm notification appliances shall not be required in exits as defined in Chapter 2.
3. Visible alarm notification appliances shall not be required in elevator cars.
4. Visual alarm notification appliances are not required in critical care areas of Group I-2 Condition 2 occupancies that comply with Section [F] 907.2.6, Exception 2.

5. A visible alarm notification appliance installed in a nurse's control station or other continuously attended staff location in a Group I-2, Condition 2 suite shall be an acceptable alternative to the installation of visible alarm notification appliances throughout the suite or unit in Group I-2, Condition 2 occupancies that are in compliance with Section [F] 907.2.6, Exception 2."

Section [F] 907.6.1 of the International Building Code, 2021 Edition, is amended to add Subsection [F] 907.6.1.1 to read as follows:

“[F] 907.6.1.1 Wiring installation. All fire alarm systems shall be installed in such a manner that a failure of any single initiating device or single open in an initiating circuit conductor will not interfere with the normal operation of other such devices. All signaling line circuits (SLC) shall be installed in such a way that a single open will not interfere with the operation of any addressable devices (Class A). Outgoing and return SLC conductors shall be installed in accordance with NFPA 72 requirements for Class A circuits and shall have a minimum of four feet separation horizontal and one foot vertical between supply and return circuit conductors. The initiating device circuit (IDC) from a signaling line circuit interface device may be wired Class B, provided the distance from the interface device to the initiating device is ten feet or less.”

Section [F] 907.6.3 of the International Building Code, 2021 Edition, is amended to read as follows:

“[F] 907.6.3 Initiating device identification. The fire alarm system shall identify the specific initiating device address, location, device type, floor level where applicable and status including indication of normal, alarm, trouble and supervisory status, as appropriate.

Exception: Fire alarm devices that are replacing existing equipment.”

Section [F] 907.6.6 of the International Building Code, 2021 Edition, is amended to read as follows:

“[F] 907.6.6 Monitoring. Fire alarm systems required by this chapter or by the International Fire Code shall be monitored by an approved supervising station in accordance with NFPA 72. Reference [F] 907.6.3 for the required information transmitted to the supervising station.

Exception: Monitoring by a supervising station is not required for:

1. Single- and multiple-station smoke alarms required by Section [F] 907.2.10.
2. Smoke detectors in Group 1-3 occupancies.
3. Automatic sprinkler systems in one- and two-family dwellings.”

Section [F] 910.2 of the International Building Code, 2021 Edition, is amended to read as follows:

“[F] 910.2 Where Required. Smoke and heat vents or a mechanical smoke removal system shall be installed as required by Sections [F] 910.2.1 and [F] 910.2.2.

Exceptions:

1. Frozen food warehouses used solely for storage of Class I and II commodities where protected by an approved automatic sprinkler system.
2. Only manual smoke and heat removal shall be required in areas of buildings equipped with early suppression fast-response (ESFR) sprinklers. Automatic smoke and heat removal is prohibited.
3. Only manual smoke and heat removal shall be required in areas of buildings equipped with control mode special application sprinklers with a response time index of $50 (m \times S)^{1/2}$ or less that are listed to control a fire in stored commodities with 12 or fewer sprinklers. Automatic smoke and heat removal is prohibited.”

Section [F] 910.3.4 of the International Building Code, 2021 Edition, is amended to read as follows:

“[F] **910.3.4 Vent operation.** Smoke and heat vents shall be capable of being operated by approved automatic and manual means. Automatic operation of smoke and heat vents shall conform to the provisions of Sections [F] 910.3.4.1 through [F] 910.3.4.2.”

Section [F] 910.3.4 of the International Building Code, 2021 Edition, is amended to add Subsections [F] 910.3.4.1 and [F] 910.3.4.2 to read as follows:

“[F] **910.3.4.1 Sprinklered buildings.** Where installed in buildings equipped with an approved automatic sprinkler system, smoke and heat vents shall be designed to operate automatically. The automatic operating" mechanism of the smoke and heat vents shall operate at a temperature rating at least 100 degrees F (approximately 38 degrees Celsius) greater than the temperature rating of the sprinklers installed.

Exception: Manual only systems per Section [F] 910.2.”

“[F] **910.3.4.2 Non-sprinklered Buildings.** Where installed in buildings not equipped with an approved automatic sprinkler system, smoke and heat vents shall operate automatically by actuation of a heat-responsive device rated at between 100°F (56°C) and 220°F (122°C) above ambient.

Exception: Listed gravity-operated drop out vents.”

Section [F] 910.4.3.1 of the International Building Code, 2021 Edition, is amended to read as follows:

“[F] **910.4.3.1 Makeup air.** Makeup air openings shall be provided within 6 feet (1829 mm) of the floor level. Operation of makeup air openings shall be automatic. The minimum gross area of makeup air inlets shall be 8 square feet per 1,000 cubic feet per minute (0.74 m² per 0.4719 m³/s) of smoke exhaust.”

Section [F] 912.2 of the International Building Code, 2021 Edition, is amended to read as follows:

“**[F] 912.2 Location.** With respect to hydrants, driveways, buildings and landscaping, fire department connections shall be so located that fire apparatus and hose connected to supply the system will not obstruct access to the buildings for other fire apparatus unless approved. The location of fire department connections shall be approved by the fire code official.”

Section [F] 912.2.2 of the International Building Code, 2021 Edition, is amended to read as follows:

“**[F] 912.2.2 Existing buildings.** On existing buildings, wherever the fire department connection is not visible to approaching fire apparatus, the fire department connection shall be indicated by an approved sign mounted on the street front or on the side of the building. Such sign shall have the letters “FDC” not less than 6 inches (152 mm) high and words in letters not less than 2 inches (51 mm) high or an arrow to indicate the location. Such signs shall be subject to the approval of the fire code official.

On existing buildings, the fire department connection may be wall-mounted.”

Section [F] 912.2 of the International Building Code, 2021 Edition, is amended to add Subsection [F] 912.2.3 to read as follows:

“**[F] 912.2.3 Hydrant distance.** An approved fire hydrant shall be located between 35 and 135 feet of the fire department connection, measured along an approved route [as the fire hose is laid] along an unobstructed path.”

Section [F] 912 of the International Building Code, 2021 Edition, is amended to add Subsection [F] 912.7 to read as follows:

“**[F] 912.7 Missing caps.** The piping between the Fire Department Connection (FDC) and the standpipe shall be backflushed or inspected by approved camera when foreign material is present or when caps are missing, and hydrostatically tested for all FDC’s on any type of standpipe system. Hydrostatic testing shall also be conducted in accordance with NFPA 25 requirements for the different types of standpipe systems; If the FDC is not already provided with approved caps, the contractor shall install such caps for all FDC’s as required by the fire code official.”

Section [F] 913.2.1 of the International Building Code, 2021 Edition, is amended to read as follows:

“**[F] 913.2.1 Protection of fire pump rooms.** [remainder of text unchanged].

The fire pump room shall have an exterior fire department access door not less than 3 ft. in width and 6 ft.-8 in. in height, regardless of any interior doors that are provided. Access keys shall be placed in an approved key box at the exterior access door, as required by the International Fire Code, Section 506.”

Exceptions: {remainder of text unchanged}.”

Section [F] 913 of the International Building Code, 2021 Edition, is amended to add Subsection [F] 913.6 to read as follows:

“[F] 913.6 Minimum suction pressure. Where fire pumps are employed, the minimum suction pressure shall not be less than 20 psi at 150% of rated pump capacity.”

Section 1009.1 of the International Building Code, 2021 Edition, is amended to add Exception 3 to read as follows:

“1009.1 Accessible means of egress. {remainder of section unchanged}.

Exceptions:

1. through 2. {remainder of text unchanged}.
3. Buildings regulated under State Law and built in accordance with State registered plans, including any variances or waivers granted by the State, shall be deemed to be in compliance with the requirements of Section 1009.”

Section 1009.8 of the International Building Code, 2021 Edition, is amended to add Exception 7 to read as follows:

“1009.8 Two-way communication. {remainder of section unchanged}.

Exceptions:

1. through 6. {remainder of text unchanged}.
7. Buildings regulated under State Law and built in accordance with State registered plans, including variances or waivers granted by the State, shall be deemed to be in compliance with the requirements of Section 1009 and Chapter 11.”

Section 1009.8.1 of the International Building Code, 2021 Edition, is amended to read as follows:

“1009.8.1 System requirements. Two-way communication systems shall provide two-way communication between each required location and an approved constantly attended central control point or other approved location. A connection shall occur within 60 seconds of activation. The address and location shall be automatically identified. The two-way communication system shall include both audible and visible signals.”

Section 1020.2 of the International Building Code, 2021 Edition, is amended to add Exception 6 to read as follows:

“Exceptions:

1. through 5. {remainder of text unchanged}.

6. In unsprinklered group B occupancies, corridor walls and ceilings need not be of fire-resistant construction within a single tenant space when the space is equipped with approved automatic smoke-detection within the corridor. The actuation of any detector must activate self-annunciating alarms audible in all areas within the corridor. Smoke detectors must be connected to an approved automatic fire alarm system where such system is provided.”

Section 1030.1.1.1 of the International Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section 1101.1 of the International Building Code, 2021 Edition, is amended to add an Exception to read as follows:

“**1101.1 Scope.** {remainder of text unchanged}.

Exception: Components of projects regulated by and registered with Architectural Barriers Division of Texas Department of Licensing and Regulation shall be deemed to be in compliance with the requirements of this chapter.”

Table 1505.1 of the International Building Code, 2021 Edition, is amended by deleting footnotes b and c.

Section [BF] 1505.7 of the International Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section 1809.5.1 of the International Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section 1907.1 of the International Building Code, 2021 Edition, is amended by amending the first sentence to read as follows:

“**1907.1 General.** The thickness of concrete floor slabs supported directly on the ground shall not be less than 4 inches unless designed by a registered professional engineer. {remainder of text unchanged}.”

Section [F] 2702 of the International Building Code, 2021 Edition, is amended to add Subsection [F] 2702.5 to read as follows:

“**[F] 2702.5 Designated critical operations areas (DCOA).** In areas within a facility or site requiring continuous operation for the purpose of public safety, emergency management, national security or business continuity, the power systems shall comply with NFPA 70, Article 708.”

Section [P] 2901.1 of the International Building Code, 2021 Edition, is amended by adding a final sentence to read as follows:

“**[P] 2901.1 Scope.** {remainder of text unchanged}. The provisions of this Chapter are meant to work in coordination with the provisions of Chapter 4 of the International Plumbing Code. Should

any conflicts arise between the two chapters, the Building Official shall determine which provision applies.”

Section [P] 2902.1 of the International Building Code, 2021 Edition, is amended by adding a second paragraph to read as follows:

“**[P] 2902.1 Minimum plumbing fixtures.** {remainder of text unchanged}.

In other than E Occupancies, the minimum number of fixtures in [P] Table 2902.1 may be lowered, if requested in writing, by the applicant stating reasons for a reduced number and approved by the Building Official.”

Section 3002.1 of the International Building Code, 2021 Edition, is amended by adding Exceptions 1 and 2 to read as follows:

“**3002.1 Hoistway enclosure protection.** {remainder of text unchanged}.

Exceptions:

1. Elevators completely located within atriums shall not require hoistway enclosure protection.
2. Elevators in open or enclosed parking garages that serve only the parking garage, shall not require hoistway enclosure protection.”

Section 3005.4 of the International Building Code, 2021 Edition, is amended to read as follows:

“**3005.4 Machine rooms, control rooms, machinery spaces and control spaces.** Elevator machine rooms, control rooms, control spaces and machinery spaces shall be enclosed with fire barriers constructed in accordance with Section 707 or horizontal assemblies constructed in accordance with Section 711, or both.

Exceptions:

1. Elevator machine rooms, control rooms, machinery spaces and control spaces completely located within atriums shall not require enclosure protection.
2. Elevator machine rooms, control rooms, machinery spaces and control spaces in open or enclosed parking garages that serve only the parking garage, shall not require enclosure protection.”

Section 3005.5 of the International Building Code, 2021 Edition, is amended to read as follows:

“**3005.5 Shunt trip.** Shunt trips shall not be installed in elevator machine rooms, machinery spaces and hoistways unless approved by the fire code official.”

Section 3007.3 of the International Building Code, 2021 Edition, is amended to read as follows:

“3007.3 Water protection. Water from the operation of an automatic sprinkler system outside any lobby shall be prevented from infiltrating into the hoistway enclosure in accordance with an approved method.”

Section 3008.3 of the International Building Code, 2021 Edition, is amended to read as follows:

“3008.3 Water Protection. Water from the operation of an automatic sprinkler system outside any lobby shall be prevented from infiltrating into the hoistway enclosure in accordance with an approved method.”

Section 3106 of the International Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section 3107 of the International Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section 3109 of the International Building Code, 2021 Edition, is hereby deleted and is of no force and effect.”“

SECTION 2. That the Code of Ordinances of the City of Richardson, Texas, be, and the same is hereby amended by amending Chapter 6, Article II, Sections 6-30 and 6-31, in part, to read as follows:

“Sec. 6-30. - Adopted.

There is hereby adopted by the City of Richardson, Texas, the International Residential Code for One- and Two-Family Dwellings, 2021 Edition and amendments, a copy of which is on file in the City Secretary’s Office and made a part of this Article for all purposes, the same as if copied in full herein, with the exception of such sections thereof as are hereinafter deleted, modified or amended.”

“Sec. 6-31. - Amendments.

The following sections of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition and amendments, are hereby amended to read as follows:

Section R101.1 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended to read as follows:

“R101.1 Title. These regulations shall be known as the One- and TwoFamily Dwelling Building Code of Richardson, Texas, hereinafter referred to as “this code.”

Section R102.4 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended to read as follows:

“R102.4 Referenced codes and standards. The codes, when specifically adopted, and standards referenced in this code shall be considered part of the requirements of this code to the prescribed extent of each such reference and as further regulated in Sections R102.4.1 and R102.4.2. 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 made to NFPA 70 or the Electrical Code shall mean the Electrical Code as adopted.”

Section R102.7 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended to read as follows:

“R102.7 Existing structures. The legal occupancy of any structure existing on the date of adoption of this code shall be permitted to continue without change, except as in specifically covered in this code, the City of Richardson Code of Ordinances, Chapter 6, Article VIII Property Maintenance, or the International Fire Code, or as deemed necessary by the building official for the general safety and welfare of the occupants and the public.”

Section R104.10.1 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is hereby deleted and is of no force and effect.

Section R105.1 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended to read as follows:

“R105.1 Required. Any owner or authorized agent who intends to construct, enlarge, alter, repair, move, demolish, or change the occupancy of a building or structure; or to erect, install, enlarge, alter, repair, remove, convert or replace any electrical, gas, mechanical or plumbing system; the installation of which is regulated by this code, or to install concrete pavement, or to cause any such work to be done, shall first make application to the building official for a permit, shall comply with applicable state and local rules and regulations concerning licensing and registration, and obtain the required permit.”

Section R105.2 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended by amending Building, items 1 and 10, and deleting Building, items 2 through 5, to read as follows:

“Building:

1. One-story detached accessory structures used as tool and storage sheds, playhouses, and similar uses, provided the floor area does not exceed 40 square feet (3.71 m²).
10. Decks not more than 30 inches above grade.”

Section R105.3.1.1 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is hereby deleted and is of no force and effect.

Section R105.5 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended to read as follows:

“R105.5 Expiration. Every permit issued shall become invalid unless the work authorized by such permit is commenced within 90 days after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of 90 days after the time the work is commenced. For work commenced under a building permit for fire repair and reconstruction, natural disaster repair and reconstruction, including catastrophic weather event; repair and reconstruction may include a remodel, a renovation, an addition and any type of new construction which involves the potential for a building being left open to the elements, the exterior building envelope shall be completed within 90 days of the start of construction. The building official is authorized to grant, in writing, one or more extensions of time, for periods not more than 60 days each. The extension shall be requested in writing and justifiable cause demonstrated.”

Section R105.5 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended by adding Subsection R105.5.1 to read as follows:

“R105.5.1 New permits required. A new permit must be obtained for any construction which is not completed in the allowable time period or extended as provided above. A new fee shall be required in connection with issuance of a new permit. The new fee shall be one-half the amount required for the original permit for such work, provided no changes have been made or will be made in the original plans and specifications for such work. A new permit must be obtained for any construction which has been suspended or abandoned for a period of more than 60 days. The permittee shall make a new application, resubmit plans for review, and pay a new full permit fee to resume work.”

Section R106.1.4 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is hereby deleted and is of no force and effect.

Section R109.4 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended by adding Subsections R109.4.1 and R109.4.2 to read as follows:

“R109.4.1 Reinspection. Where any work or installation does not pass any initial inspection, the necessary corrections shall be made so as to achieve compliance with this code. The work or installation shall then be resubmitted to the code official for reinspection.”

“R109.4.2 Subsequent reinspection. Where any work or installation does not pass a reinspection, the necessary corrections shall be made so as to achieve compliance with this code. The work or installation shall then be resubmitted to the code officer for a subsequent reinspection. A fee shall be paid to the Building Inspection Department prior to each subsequent reinspection.”

Section R110 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is hereby deleted and is of no force and effect.

Section R112.1 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended to read as follows:

“R112.1 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 adjustment. The board of adjustment shall be appointed and shall hold office in accordance with City of Richardson Code of Ordinances, Appendix A – Comprehensive Zoning Ordinance of 1956, Article XXV. – Board of Adjustment. {all remaining sections deleted}.”

Section R301; Table R301.2(1) of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended by deleting the Manual J Design Criteria and footnote n to read as follows:

GROUND SNOW LOAD	WIND DESIGN				SEISMIC DESIGN CATEGORY ^f	SUBJECT TO DAMAGE FROM			WINTER DESIGN TEMP ^g	ICE BARRIER UNDER-LAYMENT ^h	FLOOD HAZARDS ^f	AIR FREEZING INDEX ⁱ	MEAN ANNUAL TEMP ^j
	SPEED ^d (MPH)	Topographic Effects ^k	Special Wind Region ^l	Windborne Debris Zone ^m		Weathering ^a	Frost Line Depth ^b	Termite ^c					
lb/ft	115 (3 sec-gust) / 76 fastest mile	No	No	No	A	Moderate	6"	Very Heavy	22 ^g F	No	Local Code	150	64.9 ^j F

Section R302.1 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition is amended by adding Exception 6.

“R302.1 Exterior walls. {remainder of text unchanged}.

Exceptions:

1. through 5. {remainder of text unchanged}
6. Open, unenclosed structures when approved within adopted ordinances.”

Section R302.2.6 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition is amended by deleting Exception 6 and is of no force and effect.

Section R302.5.1 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended to read as follows:

“R302.5.1 Opening protection. Openings from a private garage directly into a room used for sleeping purposes shall not be permitted. Other openings between the garage and residence shall be equipped with solid wood doors not less than 13/8 inches (35 mm) in thickness, solid or honeycomb core steel doors not less than 13/8 inches (35 mm) thick, or 20-minute fire-rated doors.”

Section R303.3 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended to revise the Exception to read as follows:

“Exception: {remainder of text unchanged} Spaces containing only a water closet or water closet and a lavatory may be ventilated with an approved mechanical recirculating fan or similar device designed to remove odors from the air.”

Section R309.2 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is hereby amended by deleting the Exception and is of no force and effect.

Section R313 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is hereby deleted and is of no force or effect.

Section R322 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is hereby deleted and is of no force and effect.

Section R327.1 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended to read as follows:

“R327.1 General. The design and construction of pools and spas shall comply with the International Swimming Pool and Spa Code as amended and adopted. 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 made to NFPA 70 or the Electrical Code shall mean the Electrical Code as adopted.”

Section R327.1 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended to add Subsection R327.1.1 to read as follows:

“R327.1.1 Adjacency to structural foundations. Depth of the swimming pool and spa shall maintain a ratio of 1:1 measured from the nearest building foundation or footing of a retaining wall.

Exception: An engineered design by a Texas-registered engineer shall be submitted for approval.”

Section R401.2 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended to read as follows:

“R401.2 Requirements. {remainder of text unchanged}. Every foundation and/or footing, or any size addition to an existing post-tension foundation, regulated by this code shall be designed and sealed by a Texas-registered engineer.”

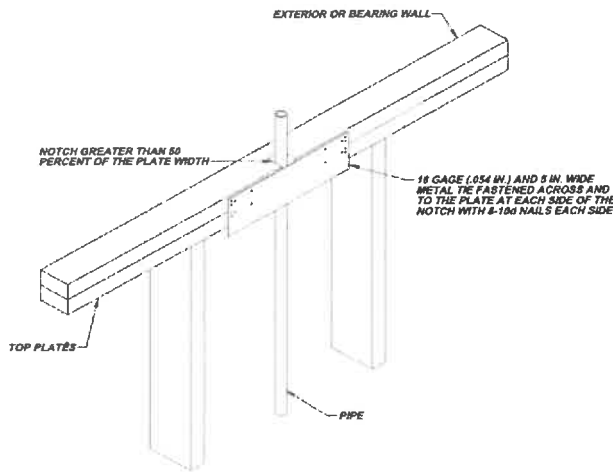
Section R403.1 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended by adding an Exception to read as follows:

“Exception: Support of one story detached accessory structures on pressure preservatively treated wood shall be permitted, provided the floor area does not exceed 150 square feet (13.9 m²) and the structure is properly anchored to accommodate all loads according to Section R301.”

Section R602.6.1 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended by replacing figure R602.6.1 and by amending the text to read as follows:

“R602.6.1 Drilling and notching of top plate. When piping or ductwork is placed in or partly in an exterior wall or interior load-bearing wall, necessitating cutting, drilling or notching of the top plate by more than 50 percent of its width, a galvanized metal tie not less than 0.054 inch thick (1.37 mm) (16 Ga) and 5 inches (127 mm) wide shall be fastened across and to the plate at each side of the opening with not less than eight 10d (0.148 inch diameter) having a minimum length of 1 ½ inches (38 mm) at each side or equivalent. Fasteners will be offset to prevent splitting of the top plate material. The metal tie must extend a minimum of 6 inches past the opening. See figure R602.6.1 {remainder of text unchanged}.”

Figure 602.6.1



Section R703.8.4.1 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended by adding Subsection R703.8.4.1.2 to read as follows:

“R703.8.4.1.2 Veneer ties for wall studs. In stud framed exterior walls, all ties shall be anchored to studs as follows:

1. When studs are 16 in (407 mm) o.c., stud ties shall be spaced no further apart than 24 in (737 mm) vertically starting approximately 12 in (381 mm) from the foundation; or
2. When studs are 24 in (610 mm) o.c., stud ties shall be spaced no further apart than 16 in (483 mm) vertically starting approximately 8 in (254 mm) from the foundation.”

Section R902.1 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended to read as follows:

“**R902.1 Roofing covering materials.** Roofs shall be covered with materials as set forth in Sections R904 and R905. Class A, B, or C roofing shall be installed. Class A, B and C roofing required by this section to be listed shall be tested in accordance with UL 790 or ASTM E 108. {remainder of text unchanged}.”

Section R904 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended by adding Subsection R904.5 to read as follows:

“**R904.5 Fire classification.** The minimum roof coverings installed on buildings shall be Class C. Unclassified wood shingles or shakes shall be permitted for repairs on existing unclassified wood shingle or shake roof coverings, if not more than 25 percent of the roof covering is replaced in any 12-month period.”

Chapter 11 – Energy Efficiency of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is hereby deleted and replaced with the following:

“**N1101.1 Scope.** This chapter regulates the energy efficiency for the design and construction of buildings regulated by this code.”

“**N1101.2 Compliance.** Compliance shall be demonstrated by meeting the requirements of the residential provisions of 2021 International Energy Conservation Code and referenced standards as amended and adopted. 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 made to NFPA 70 or the Electrical Code shall mean the Electrical Code as adopted.”

Section G2415.2 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended to add a second paragraph to read as follows:

“**G2415.2 CSST.** {remainder of text unchanged}.

Both ends of each end of medium pressure gas piping shall identify its operating gas pressure with an approved tag. The tags are to be composed of aluminum or stainless steel and the following wording shall be stamped into the tag: “WARNING: ½ to 5 psi gas pressure – DO NOT REMOVE.”

Section G2417.4 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended to read as follows:

“G2417.4 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.”“

SECTION 3. That Chapter 6, Article II of the Code of Ordinances of the City of Richardson, Texas, be, and the same is hereby amended in part by amending Sections 6-33 and 6-34 to read as follows:

“Sec. 6-33. - Adopted.

There is hereby adopted by the City of Richardson, Texas, the International Energy Conservation Code, 2021 Edition and amendments, a copy of which is on file in the City Secretary’s Office and made a part of this article for all purposes, the same as if copied in full herein, with the exception of such sections thereof as are hereinafter deleted, modified or amended.”

“Sec. 6-34. - Amendments.

The following sections of the International Energy Conservation Code, 2021 Edition and amendments, are hereby amended to read as follows:

Section C101.1 of the International Energy Conservation Code, 2021 Edition, is amended to read as follows:

“C101.1 Title. These provisions shall be known as the Richardson Energy Conservation Code, and shall be cited as such and will be referred to herein as “this code.”

Section R101.1 of the International Energy Conservation Code, 2021 Edition, is amended to read as follows:

“R101.1 Title. These provisions shall be known as the Richardson Energy Conservation Code, and shall be cited as such and will be referred to herein as “this code.”

Section C102.1 of the International Energy Conservation Code, 2021 Edition, is amended by adding Subsection C102.1.2 to read as follows:

“C102.1.2 Alternative compliance. A building certified by a national, state, or local accredited energy efficiency program and determined by the Energy Systems Laboratory to be in compliance with the energy efficiency requirements of this section may, at the option of the Code Official, be considered in compliance. The United States Environmental Protection Agency's Energy Star Program certification of energy code equivalency shall be considered in compliance.”

Section R102.1 of the International Energy Conservation Code, 2021 Edition, is amended by adding Subsection R102.1.2 to read as follows:

“R102.1.2 Alternative compliance. A building certified by a national, state, or local accredited energy efficiency program and determined by the Energy Systems Laboratory to be in compliance with the energy efficiency requirements of this section may, at the option of the Code Official, be considered in compliance. The United States Environmental Protection Agency's Energy Star Program certification of energy code equivalency shall be considered in compliance. Regardless of the program or the path to compliance, each 1- and 2-family dwelling shall be tested for air and duct leakage as prescribed in Section R402.4.1.2 and R403.3.3 respectively.”

Section C105.3 of the International Energy Conservation Code, 2021 Edition, is amended to add Subsection C105.3.1 read as follows:

“C105.3.1 Subsequent reinspection. Where any work or installation does not pass a reinspection, the necessary corrections shall be made so as to achieve compliance with this code. The work or installation shall then be resubmitted to the code officer for a subsequent reinspection. A fee shall be paid to the Building Inspection Department prior to each subsequent reinspection.”

Section C105.6 of the International Energy Conservation Code, 2021 Edition, is amended to add Subsection C105.6.1 read as follows:

“C105.6.1 Subsequent reinspection and testing. Where any work, installation or testing does not pass a reinspection, the necessary corrections shall be made so as to achieve compliance with this code. The work or installation shall then be resubmitted to the code officer for a subsequent reinspection and testing. A fee shall be paid to the Building Inspection Department prior to each subsequent reinspection and testing.”

Section R105.3 of the International Energy Conservation Code, 2021 Edition, is amended to add Subsection R105.3.1 read as follows:

“R105.3.1 Subsequent reinspection. Where any work or installation does not pass a reinspection, the necessary corrections shall be made so as to achieve compliance with this code. The work or installation shall then be resubmitted to the code officer for a subsequent reinspection. A fee shall be paid to the Building Inspection Department prior to each subsequent reinspection.”

Section R105.6 of the International Energy Conservation Code, 2021 Edition, is amended to add Subsection R105.6.1 read as follows:

“R105.6.1 Subsequent reinspection and testing. Where any work, installation or testing does not pass a reinspection, the necessary corrections shall be made so as to achieve compliance with this code. The work or installation shall then be resubmitted to the code officer for a subsequent reinspection and testing. A fee shall be paid to the Building Inspection Department prior to each subsequent reinspection and testing.”

Section C110.1 of the International Energy Conservation Code, 2021 Edition, is amended to read as follows:

“C110.1 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 adjustment. The board of adjustment shall be appointed and shall hold office in accordance with City of Richardson Code of Ordinances, Appendix A – Comprehensive Zoning Ordinance of 1956, Article XXV. – Board of Adjustment. {all remaining sections deleted}.”

Section R110.1 of the International Energy Conservation Code, 2021 Edition, is amended to read as follows:

“R110.1 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 adjustment. The board of adjustment shall be appointed and shall hold office in accordance with City of Richardson Code of Ordinances, Appendix A – Comprehensive Zoning Ordinance of 1956, Article XXV. – Board of Adjustment. {all remaining sections deleted}.”

Section C202 of the International Energy Conservation Code, 2021 Edition, is amended by adding the following definition:

“PROJECTION FACTOR. The ratio of the horizontal depth of the overhang, eave or permanently attached shading device, divided by the distance measured vertically from the bottom of the fenestration glazing to the underside of the overhang, eave or permanently attached shading device.”

Section R202 of the International Energy Conservation Code, 2021 Edition, is amended by adding the following definition:

“PROJECTION FACTOR. The ratio of the horizontal depth of the overhang, eave or permanently attached shading device, divided by the distance measured vertically from the bottom of the fenestration glazing to the underside of the overhang, eave or permanently attached shading device.”

Section R202 of the International Energy Conservation Code, 2021 Edition, is amended by adding the following definition:

“DYNAMIC GLAZING. Any fenestration product that has the fully reversible ability to change its performance properties, including U-factor, solar heat gain coefficient (SHGC), or visible transmittance (VT).”

Table C402.1.3 of the International Energy Conservation Code, 2021 Edition, is amended to read as follows:

Table C402.1.3 Insulation/Climate Zone 2 & 3

Climate Zone	Fenestration U-Factor ^{b,i}	Ceiling R-Value	Wood Frame Wall R-Value	Slab R-Value & Depth
2	0.40	42	13 or 0 + 10ci	0
3	0.32	42	19 or 13+3ci, 0+15ci	0

Table C402.1.4 of the International Energy Conservation Code, 2021 Edition, is amended to read as follows:

Table C402.1.4 Maximum Opaque Assembly/Climate Zone 2 & 3

Climate Zone	Fenestration U-Factor ^f	Ceiling U-Factor
2	0.40	0.29
3	0.32	0.29

Section C402.5.2, item 2 of the International Energy Conservation Code, 2021 Edition, is amended to read as follows:

“Section C402.5.2 Dwelling and sleeping unit enclosure testing. {remainder of text unchanged}.

1. {remainder of text unchanged}.
2. For buildings with eight or more testing units, the greater of seven units or 20 percent of the testing units in the building shall be tested, including a top floor unit, a ground floor unit, a middle floor unit, and a unit with the largest testing unit enclosure area. For each tested unit that exceeds the maximum air leakage rate, an additional three units shall be tested, including a mixture of testing unit types and locations.”

Section R402.4.1 of the International Energy Conservation Code, 2021 Edition, is amended to add Subsection R402.4.1.4 to read as follows:

“R402.4.1.4 Sampling options for R2 multifamily dwelling units. For buildings with eight or more testing units that must be tested as required by R402.4.1.2 or R402.4.1.3, the greater of seven units or 20 percent of the testing units in the building shall be tested, including a top floor unit, a ground floor unit, a middle floor unit, and a unit with the largest testing unit enclosure area. For

each tested unit that exceeds the maximum air leakage rate, an additional three units shall be tested, including a mixture of testing unit types and locations. Where buildings have fewer than eight testing units, each testing unit shall be tested.”

Section 403.3 of the International Energy Conservation Code, 2021 Edition, is amended to add Subsection R403.3.8 to read as follows:

“R403.3.8 Sampling options for R2 multifamily dwelling units. For buildings with eight or more testing units that must be tested as required by R403.3.5, the greater of seven units or 20 percent of the testing units in the building shall be tested, including a top floor unit, a ground floor unit, a middle floor unit, and a unit with the largest testing unit floor area. For each tested unit that exceeds the maximum duct leakage rate, an additional three units shall be tested, including a mixture of testing unit types and locations. Where buildings have fewer than eight testing units, each testing unit shall be tested.”

Section R403.6 of the International Energy Conservation Code, 2021 Edition, is amended to add Subsection R403.6.4 to read as follows:

“R403.6.4 Sampling options for R2 multifamily dwelling units. For buildings with eight or more testing units that must be tested as required by R403.6.3, the greater of seven units or 20 percent of the testing units in the building shall be tested, including a top floor unit, a ground floor unit, a middle floor unit, and a unit with the largest testing unit floor area. For each tested unit that does not meet the minimum ventilation rate, an additional three units shall be tested, including a mixture of testing unit types and locations. Where buildings have fewer than eight testing units, each testing unit shall be tested.”

Section R405.2, item 3 of the International Energy Conservation Code, 2021 Edition, is amended to read as follows:

“R405.2 Performance-based compliance. {remainder of text unchanged}

1. {remainder of text unchanged}.
2. {remainder of text unchanged}.
3. An annual energy cost that is less than or equal to the annual energy cost of the 2021 standard reference design or 8% less than the annual energy cost of the 2018 standard reference design. Energy prices shall be taken from a source approved by the code official, such as the Department of Energy, Energy Information Administration's State Energy Data System Prices and Expenditures reports. Code officials shall be permitted to require time-of-use pricing in energy cost calculations.

Exception: The energy use based on source energy expressed in Btu or Btu per square foot of conditioned floor area shall be permitted to be substituted for the energy cost. The source energy multiplier for electricity shall be 3.16. The source energy multiplier for fuels other than electricity shall be 1.1.”

Section R401.2.5 of the International Energy Conservation Code, 2021 Edition, is hereby deleted and is of no force or effect.

Section R402.4.6 of the International Energy Conservation Code, 2021 Edition, is amended to read as follows:

“R402.4.6 Electrical and communication outlet boxes (air-sealed boxes). Electrical and communication outlet boxes installed in the building thermal envelope shall be sealed to limit air leakage between conditioned and unconditioned spaces.”

Section R404.2 of the International Energy Conservation Code, 2021 Edition, is hereby deleted and is of no force or effect.

Section R408 of the International Energy Conservation Code, 2021 Edition, is hereby deleted and is of no force or effect.

Table R406.4 of the International Energy Conservation Code, 2021 Edition, is amended to read as follows:

TABLE R406.4 ¹

MAXIMUM ENERGY RATING INDEX

CLIMATE ZONE	ENERGY RATING INDEX
2	63
3	63

¹ This table is effective until August 31, 2022.

TABLE R406.4 ²

MAXIMUM ENERGY RATING INDEX

CLIMATE ZONE	ENERGY RATING INDEX
2	59
3	59

² This table is effective from September 1, 2022 to August 31, 2025.

TABLE R406.4³

MAXIMUM ENERGY RATING INDEX

CLIMATE ZONE	ENERGY RATING INDEX
2	57
3	57

³ This table is effective from September 1, 2025 to August 31, 2028.

TABLE R406.4⁴

MAXIMUM ENERGY RATING INDEX

CLIMATE ZONE	ENERGY RATING INDEX
2	55
3	55

⁴ This table is effective on or after September 1, 2028.”“

SECTION 4. That the Code of Ordinances of the City of Richardson, Texas, be, and the same is hereby amended by amending Chapter 6, Article V, Sections 6-237 and 6-238 in part to read as follows:

“Sec. 6-237. - Adopted.

There is hereby adopted by the City of Richardson, Texas, the International Fuel Gas Code, 2021 Edition, together with Appendix A, and amendments, a copy of which is on file in the City Secretary’s Office and made a part of this Article for all purposes, the same as if copied in full herein, with the exception of such sections thereof as are hereinafter deleted, modified or amended.”

“Sec. 6-238. - Amendments.

The following sections of the International Fuel Gas Code, 2021 Edition, are hereby amended to read as follows:

Section [A] 102.5 of the International Fuel Gas Code, 2021 Edition, is amended by adding Subsection [A] 102.5.1 to read as follows:

“**[A] 102.5.1 Change in tenancy or ownership.** It shall be unlawful to make a change in tenancy or ownership of any existing building or lease space without first making application for and obtaining approval for a certificate of occupancy.”

Section [A] 102.8 of the International Fuel Gas Code, 2021 Edition, is amended to read as follows:

“**[A] 102.8 Referenced codes and standards.** The codes, when specifically adopted, and standards referenced in this code shall be considered part of the requirements of this code to the prescribed extent of each such reference and as further regulated in Subsections [A] 102.8.1 and [A] 102.8.2. 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 made to NFPA 70 or the Electrical Code shall mean the Electrical Code as adopted.”

Section [A] 112.2.3 of the International Fuel Gas Code, 2021 Edition, is amended by adding Subsection [A] 112.2.3.1 to read as follows:

“**[A] 112.2.3.1 Subsequent reinspection and testing.** Where any work or installation does not pass a retest or reinspection, the necessary corrections shall be made so as to achieve compliance with this code. The work or installation shall then be resubmitted to the code official for a subsequent reinspection. A fee shall be paid to the Building Inspection Department prior to each subsequent reinspection.”

Section [A] 113.1 of the International Fuel Gas Code, 2021 Edition, is amended to read as follows:

“**[A] 113.1 Application for appeal.** 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 adjustment. The board of adjustment shall be appointed and shall hold office in accordance with City of Richardson Code of Ordinances, Appendix A – Comprehensive Zoning Ordinance of 1956, Article XXV. – Board of Adjustment. {all remaining sections deleted}.”

Section [A] 114 of the International Fuel Gas Code, 2021 Edition, is deleted and is of no force and effect.

Section 404.2 of the International Fuel Gas Code, 2021 Edition, is amended to add a second paragraph to read as follows:

“**404.2 CSST.** {remainder of text unchanged}.”

Both ends of each end of medium pressure gas piping shall identify its operating gas pressure with an approved tag. The tags are to be composed of aluminum or stainless steel and the following wording shall be stamped into the tag: “WARNING: ½ to 5 psi gas pressure – DO NOT REMOVE.””

Section 406.4 of the International Fuel Gas Code, 2021 Edition, is amended to read as follows:

“406.4 Test pressure measurement. Test pressure shall be measured with a monometer or with a pressure-measuring device designed and calibrated to read, record, or indicate a pressure loss caused by leakage during the pressure test period. The source of pressure shall be isolated before the pressure tests are made.”“

SECTION 5. That the Code of Ordinances of the City of Richardson, Texas, be, and the same is hereby amended by amending Chapter 6, Article VI, Sections 6-262 and 6-263 in part to read as follows:

“Sec. 6-262. - Adopted.

There is hereby adopted by the City of Richardson, Texas, the International Mechanical Code, 2021 Edition, a copy of which is on file in the City Secretary’s Office and made a part of this Article for all purposes, the same as if copied in full herein, with the exception of such sections thereof as are hereinafter deleted, modified or amended.”

“Sec. 6-263. - Amendments.

The following sections of the International Mechanical Code, 2021 Edition, are hereby amended to read as follows:

Section [A] 102.5 of the International Mechanical Code, 2021 Edition, is amended by adding Subsection [A] 102.5.1 to read as follows:

“[A] 102.5.1 Change in tenancy or ownership. It shall be unlawful to make a change in tenancy or ownership of any existing building or lease space without first making application for and obtaining approval for a certificate of occupancy.”

Section [A] 102.8 of the International Mechanical Code, 2021 Edition, is amended to read as follows:

“[A] 102.8 Referenced codes and standards. The codes, when specifically adopted, and standards referenced in this code shall be considered part of the requirements of this code to the prescribed extent of each such reference and as further regulated in Sections [A] 102.8.1 and [A] 102.8.2. 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 made to NFPA 70 or the Electrical Code shall mean the Electrical Code as adopted.”

Section [A] 112.3 of the International Mechanical Code, 2021 Edition, is amended by adding Subsection [A] 112.3.4 to read as follows:

“[A] 112.3.4 Subsequent reinspection and testing. Where any work or installation does not pass a retest or reinspection, the necessary corrections shall be made so as to achieve compliance with this code. The work or installation shall then be resubmitted to the code official for a subsequent reinspection. A fee shall be paid to the Building Inspection Department prior to each subsequent reinspection.”

Section [A] 113.1 of the International Mechanical Code, 2021 Edition, is amended to read as follows:

“[A] 113.1 Application for appeal. 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 adjustment. The board of adjustment shall be appointed and shall hold office in accordance with City of Richardson Code of Ordinances, Appendix A – Comprehensive Zoning Ordinance of 1956, Article XXV. – Board of Adjustment. {all remaining sections deleted}.”

“Section [A]114 of the International Mechanical Code, 2021 Edition, is hereby deleted and is of no force and effect.”“

SECTION 6. That the Code of Ordinances of the City of Richardson, Texas, be, and the same is hereby amended by amending Chapter 6, Article VII, Sections 6-287 and 6-288 in part to read as follows:

“Sec. 6-287. - Adopted.

There is hereby adopted by the City of Richardson, Texas, the International Plumbing Code, 2021 Edition, together with Appendices C and E and amendments, a copy of which is on file in the City Secretary’s Office and made a part of this Article for all purposes, the same as if copied in full herein, with the exception of such sections thereof, as are hereinafter deleted, modified or amended.”

“Sec. 6-288. - Amendments.

The following sections of the International Plumbing Code, 2021 Edition, together with Appendices C and E, and amendments, are hereby amended to read as follows:

Section [A] 102.5 of the International Plumbing Code, 2021 Edition, is amended by adding Subsection [A] 102.5.1 to read as follows:

“[A] 102.5.1 Change in tenancy or ownership. It shall be unlawful to make a change in tenancy or ownership of any existing building or lease space without first making application for and obtaining approval for a certificate of occupancy.”

Section [A] 102.8 of the International Plumbing Code, 2021 Edition, is amended to read as follows:

“[A] 102.8 Referenced codes and standards. The codes, when specifically adopted, and standards referenced in this code shall be considered part of the requirements of this code to the prescribed extent of each such reference and as further regulated in Sections [A] 102.8.1 and [A] 102.8.2. 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 made to NFPA 70 or the Electrical Code shall mean the Electrical Code as adopted.”

Section [A] 112.4 of the International Plumbing Code, 2021 Edition, is amended by adding Subsection [A] 112.4.4 to read as follows:

“**[A] 112.4.4 Subsequent reinspection and testing.** Where any work or installation does not pass a retest or reinspection, the necessary corrections shall be made so as to achieve compliance with this code. The work or installation shall then be resubmitted to the code official for a subsequent reinspection. A fee shall be paid to the Building Inspection Department prior to each subsequent reinspection.”

Section [A]113 of the International Plumbing Code, 2021 Edition, is amended to read as follows:

“**[A]113.1 Application for appeal.** 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 adjustment. The board of adjustment shall be appointed and shall hold office in accordance with the City of Richardson Code of Ordinances, Appendix A – Comprehensive Zoning Ordinance of 1956, Article XXV. – Board of Adjustment. {all remaining sections deleted}.”

Section [A] 114 of the International Plumbing Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section 305.4.1 of the International Plumbing Code, 2021 Edition, is amended to read as follows:

“**305.4.1 Sewer depth.** Building sewers shall be a minimum of 12 inches (305 mm) below grade.”

Section 312.10 of the International Plumbing Code, 2021 Edition, is amended by deleting Subsections 312.10.1 and 312.10.2 and amending 312.10 to read as follows:

“**312.10 Inspection and testing of backflow prevention assemblies.** Inspection and testing shall comply with the requirements set forth by the Texas Commission on Environmental Quality.”

Section 502 of the International Plumbing Code, 2021 Edition, is amended by adding Subsection 502.6 to read as follows:

“**502.6 Water heaters above ground or floor.** When the attic, roof, mezzanine or platform in which a water heater is installed is more than eight (8) feet (2438 mm) above the ground or floor level, access shall be provided by a stairway or permanent ladder fastened to the building.”

Section 608.17.5 of the International Plumbing Code, 2021 Edition, is amended to read as follows:

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

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

Section 713 of the International Plumbing Code, 2021 Edition, is amended to read as follows:

**“SECTION 713
ENGINEERED DRAINAGE DESIGN”**

Section 713.1 of the International Plumbing Code, 2021 Edition, is amended to read as follows:

“713.1 Design of drainage system. The sizing requirements for plumbing drainage systems shall be determined by approved design methods.”

Section 903.1.1 of the International Plumbing Code, 2021 Edition, is amended to read as follows:

“903.1.1 Roof extension unprotected. Open vent pipes that extend through a roof shall terminate not less than 6 inches (152 mm) above the roof (remainder of text unchanged).”

Section 1106.1 of the International Plumbing Code, 2021 Edition, is amended to read as follows:

“1106.1 General. The size of the vertical conductors and leaders, building storm drains, building storm sewers, and any horizontal branches of such drains or sewers shall be based on the 100-year hourly rainfall rate of 5 inches.”

Section 1202.1 of the International Plumbing Code, 2021 Edition, is amended by deleting exceptions 1 and 2.”“

SECTION 7. That the Code of Ordinances of the City of Richardson, Texas, be and the same is hereby amended by amending Chapter 6, Article II-A, Sections 6-45 and 6-46, to read as follows:

“ARTICLE II-A. – INTERNATIONAL EXISTING BUILDING CODE, 2021 EDITION

Sec. 6-45. - Adopted.

There is hereby adopted by the City of Richardson, Texas, the International Existing Building Code, 2021 Edition and amendments, a copy of which is on file in the City Secretary’s

Office and made a part of this article for all purposes, the same as if copied in full herein, with the exception of such sections thereof as are hereinafter deleted, modified or amended.

Sec. 6-46. - Amendments.

The following sections of the International Existing Building Code, 2021 Edition and amendments, are hereby amended to read as follows:

Section [A] 102.4 of the International Existing Building Code, 2021 Edition, is amended to read as follows:

“[A] 102.4 Referenced codes and standards. The codes, when specifically adopted, and standards referenced in this code shall be considered part of the requirements of this code to the prescribed extent of each such reference and as further regulated in Subsections [A] 102.4.1 and [A] 102.4.2. 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 made to NFPA 70 or the Electrical Code shall mean the Electrical Code as adopted.”

Sections [A] 104.2.1, [A] 104.2.2 and [A] 104.2.2.1 of the International Existing Building Code, 2021 Edition, are hereby deleted and are of no force and effect.

Section [A] 104.10.1 of the International Existing Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section [A] 105.2 of the International Existing Building Code, 2021 Edition, is amended by deleting Building, items 1,4 and 6.

Section [A] 109.5 of the International Existing Building Code, 2021 Edition, is amended to add Subsection [A] 109.5.1 and [A] 109.5.2 to read as follows:

“[A] 109.5.1 Reinspection. Where any work or installation does not pass any initial inspection, the necessary corrections shall be made so as to achieve compliance with this code. The work or installation shall then be resubmitted to the code official for reinspection.”

“[A] 109.5.2 Subsequent reinspection and testing. Where any work or installation does not pass a retest or reinspection, the necessary corrections shall be made so as to achieve compliance with this code. The work or installation shall then be resubmitted to the code official for a subsequent reinspection. A fee shall be paid to the Building Inspection Department prior to each subsequent reinspection.”

Section [A] 110.1 of the International Existing Building Code, 2021 Edition, is amended by adding Subsection [A] 110.1.1 to read as follows:

“[A] 110.1.1 Change in tenancy or ownership. It shall be unlawful to make a change in tenancy or ownership of any existing building or lease space without first making application for and obtaining approval for a certificate of occupancy.”

Section [A] 112 of the International Existing Building Code, 2021 Edition, is amended to read as follows:

“**[A] 112.1 Application for appeal.** 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 adjustment. The board of adjustment shall be appointed and shall hold office in accordance with City of Richardson Code of Ordinances, Appendix A – Comprehensive Zoning Ordinance of 1956, Article XXV. – Board of Adjustment. {all remaining sections deleted}.”

Section 202 of the International Existing Building Code, 2021 Edition, is amended by revising the following definitions to read as follows:

“**[A] EXISTING BUILDING** - A building, structure, or space, with an approved final inspection issued under a code edition which is at least 2 published code editions preceding the currently adopted building code; or a change of occupancy.”

“**[A] EXISTING STRUCTURE** - A building, structure, or space, with an approved final inspection issued under a code edition which is at least 2 published code editions preceding the currently adopted building code; or a change of occupancy.”

Section 306.1 of the International Existing Building Code, 2021 Edition, is amended to add Exceptions 1 and 2 to read as follows:

“**306.1 Scope.** {remainder of text unchanged}.”

Exceptions:

1. Components of projects regulated by and registered with Architectural Barriers Division of Texas Department of Licensing and Regulation shall be deemed to be in compliance with the requirements of this section.
2. If the cost of the project is less than \$50K, it must comply with ICC A117.1, or it shall be reviewed and inspected to the Texas Accessibility Standards by a Registered Accessibility Specialist.”

Section 306.5.1 of the International Existing Building Code, 2021 Edition, is amended to read as follows:

“**306.5.1 Complete change of occupancy.** Where an entire building undergoes a change of occupancy, it shall comply with Section 305.4.1 and shall have all of the following accessible features:

1. Not fewer than one accessible building entrance.
2. Not fewer than one accessible route from an accessible building entrance to primary function areas.

3. Signage complying with Section 1111 of the International Building Code.
4. Accessible parking, where parking is being provided.
5. Not fewer than one accessible passenger loading zone, where loading zones are provided.
6. Not fewer than one accessible route connecting accessible parking and accessible passenger loading zones to an accessible entrance.
7. At least one accessible family or assisted use toilet room shall be provided in accordance with Chapter 11 of the International Building Code.
8. Where it is technically infeasible to comply with the new construction standards for any of these requirements for a change of group or occupancy, Items 1 through 6 shall conform to the requirements to the maximum extent technically feasible.

Exception: The accessible features listed in Items 1 through 6 are not required for an accessible route to Type B units.”

Section 401.3 of the International Existing Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section 405.2.6 of the International Existing Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section 406.1 of the International Existing Building Code, 2021 Edition, is amended to read as follows:

“406.1 Material. Existing electrical wiring and equipment undergoing repair shall be allowed to be repaired or replaced with like material, in accordance with the requirements of NFPA 70.”

Section 502.3 of the International Existing Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section 503.2 of the International Existing Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section [BE] 504.1.3 of the International Existing Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section 506.1 of the International Existing Building Code, 2021 Edition, is amended by adding Subsection 506.1.1.2 to read as follows:

“506.1.1.2 Change in tenancy or ownership. It shall be unlawful to make a change in tenancy or ownership of an existing building or lease space without first making application for and obtaining approval for a certificate of occupancy.”

Section 507.3 of the International Existing Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section 701.3 of the International Existing Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section 702.4 of the International Existing Building Code, 2021 Edition, is amended to add Exception 2 to read as follows:

“702.4 Window opening control devices on replacement windows. {remainder of text unchanged.

Exceptions:

1. {remainder of text unchanged}.
2. Operable windows with openings that are provided with window fall protections that comply with ASTM F2090.”

Section 702.7 of the International Existing Building Code, 2021 Edition, is amended to read as follows:

“702.7 Materials and methods. All new work shall comply with the materials and methods requirements as amended and adopted in the International Building Code, International Energy Conservation Code, International Mechanical Code, National Electrical Code, and International Plumbing Code, as applicable, that specify material standards, detail of installation and connection, joints, penetrations, and continuity of any element, component, or system in the building.”

Section 802.5.1 of the International Existing Building Code, 2021 Edition, is amended to read as follows:

“802.5.1 Minimum requirement. Every portion of open-sided walking surfaces, including mezzanines, equipment platforms, aisles, stairs, ramps and landings that are not provided with guards, or those in which the existing guards are judged to be in danger of collapsing, shall be provided with guards.”

Section 803.3 of the International Existing Building Code, 2021 Edition, is amended to read as follows:

“803.3 Standpipes. Refer to Section 1103.6 of the International Fire Code for retroactive standpipe requirements. {remainder of section deleted}.”

Section 804.2; Exception 1 of the International Existing Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section 804.4.1.2 of the International Existing Building Code, 2021 Edition, is amended to read as follows:

“804.4.1.2 Fire escapes required. For other than Group I-2, where more than one exit is required an existing constructed fire escape complying with Section 804.4.1.2.1 shall be accepted as providing one of the required means of egress.”

Section 804.4.1.2.1 of the International Existing Building Code, 2021 Edition, Exceptions 2 and 5 are amended to read as follows, and Exception 3 is hereby deleted and is of no force and effect:

“804.4.1.2.1 Fire escape access and details.

1. {remainder of text unchanged}.
2. Access to a fire escape shall be through a door {remainder of section unchanged}.
3. [Deleted]
4. {remainder of text unchanged}.
5. In all building of Group E occupancy up to and including the 12th grade, building of Group I occupancy, boarding houses, and childcare centers, ladders of any type are prohibited on fire escapes used as a required means of egress.”

Section 804.6.2 of the International Existing Building Code, 2021 Edition is amended by to read as follows:

“804.6.2 Transoms. In all buildings of Group B, E, I-1, I-2, R-1 and R-2 occupancies {remainder of text unchanged}.”

Section 1001.2 of the International Existing Building Code, 2021 Edition is amended by adding Subsection 1001.2.3 to read as follows:

“1001.2.3 Change in tenancy or ownership. It shall be unlawful to make a change in tenancy or ownership of an existing building or lease space without first making application for and obtaining approval for a certificate of occupancy.”

Section 1103.3 of the International Existing Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section 1201.4 of the International Existing Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section 1301.3.2 of the International Existing Building Code, 2021 Edition, is amended to read as follows:

“1301.3.2 Compliance with other codes. Buildings that are evaluated in accordance with this section shall comply with the International Fire Code and the provisions of the City of Richardson Code of Ordinances, Chapter 6, Article VIII, Property Maintenance, shall apply to existing structures and premises; equipment and facilities; light, ventilation, space heating, sanitation, life

and fire safety, hazards; responsibilities of owners, operators and occupant; and occupancy of existing premises and structures. All references to the International Property Maintenance Code shall hereafter read the City of Richardson Code of Ordinances, Chapter 6, Article VIII, Property Maintenance Code.”

Section 1301.3.3 of the International Existing Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section 1401.2 of the International Existing Building Code, 2021 Edition, is amended to read as follows:

“1401.2 Conformance. The building shall be safe for human occupancy as determined by the International Fire Code and the City of Richardson Code of Ordinances, Chapter 6, Article VIII, Property Maintenance Code.

Any repair, alteration or change of occupancy undertaken within the moved structure shall comply with the requirements of this code applicable to the work being performed. Any field-fabricated elements shall comply with the requirements of the International Building Code or the International Residential Code as applicable.”

Section [BS] 1402.6 of the International Existing Building Code, 2021 Edition, is hereby deleted and is of no force and effect.”“

SECTION 8. That the Code of Ordinances of the City of Richardson, Texas, be and the same is hereby amended by amending Chapter 6 in part to add Article II-B, Sections 6-47 and 6-48, to read as follows:

“ARTICLE II-B. – INTERNATIONAL SWIMMING POOL AND SPA CODE, 2021 EDITION

Sec. 6-46. - Adopted.

There is hereby adopted by the City of Richardson, Texas, the International Swimming Pool and Spa Code, 2021 Edition and amendments, a copy of which is on file in the City Secretary’s Office and made a part of this article for all purposes, the same as if copied in full herein, with the exception of such sections thereof as are hereinafter deleted, modified or amended.

Sec. 6-47. - Amendments.

The following sections of the International Swimming Pool and Spa Code, 2021 Edition and amendments, are hereby amended to read as follows:

Section [A]101.1 of the International Swimming Pool and Spa Code, 2021 Edition, is amended to read as follows:

“[A] 101.1 Title. These regulations shall be known as the Richardson Swimming Pool and Spa Code, and shall be cited as such and will be referred to herein as “this code”.

Section [A] 102.9 of the International Swimming Pool and Spa Code, 2021 Edition, is amended to read as follows:

“[A] 102.9 Other laws. The provisions of this code shall not be deemed to nullify any provisions of local, state or federal law, to include but not limited to:

1. Texas Department of State Health Services (TDSHS); Standards for Public Pools and Spas; §285.181 through §285.208.

Exception: Private pools serving one- and two-family dwellings or townhouses.

2. Texas Department of Licensing and Regulation (TDLR); 2012 Texas Accessibility Standards (TAS), TAS provide the scoping and technical requirements for accessibility for Swimming Pool, wading pools and spas and shall comply with 2012 TAS, Section 242.

Exceptions:

1. Private pools serving one- and two-family dwellings or townhouses.
2. Elements regulated under Texas Department of Licensing and Regulation (TDLR) and built in accordance with TDLR approved plans, including any variances or waivers granted by the TDLR, shall be deemed to be in compliance with the requirements of this Chapter.”

Section “[A]103.1 of the International Swimming Pool and Spa Code, 2021 Edition, is amended to read as follows:

“[A] 103.1 Creation of enforcement agency. The City of Richardson Building Inspection Department is hereby created and the official in charge thereof shall be known as the building official in accordance this code, local and state law. The City of Richardson Health Department is hereby created and the official in charge thereof shall be known as the director of health or designated representative for operation and maintenance of any public swimming pool in accordance with this code, local and state law.”

Section [A] 106.16 of the International Swimming Pool and Spa Code, 2021 Edition, is amended to add Subsection [A] 106.16.1 read as follows:

“[A] 106.16.1 Subsequent reinspection and testing. Where any work or installation does not pass a retest or reinspection, the necessary corrections shall be made so as to achieve compliance with this code. The work or installation shall then be resubmitted to the code official for a subsequent reinspection. A fee shall be paid to the official department thereof for each subsequent reinspection.”

Section [A] 113.4 of the International Swimming Pool and Spa Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section [A] 107.5 of the International Swimming Pool and Spa Code, 2021 Edition, is amended as follows:

Section [A] 111.1 of the International Swimming Pool and Spa Code, 2021 Edition, is amended as follows:

“[A] 111.1 Application for appeal. In order to hear and decide appeals of orders, decisions or determinations made by the code official relative to the application and interpretation of this code, there shall be and is hereby created a board of adjustment. The board of adjustment shall be appointed and shall hold office in accordance with City of Richardson Code of Ordinances, Appendix A – Comprehensive Zoning Ordinance of 1956, Article XXV. – Board of Adjustment. {all remaining sections deleted}.”

Section 202 of the International Swimming Pool and Spa Code, 2021 Edition, is amended by adding or amending the following definitions to read as follows:

“DIRECTOR OF HEALTH OR DESIGNATED REPRESENTATIVE regulates the operation of public pools. Routine inspections on pools and spas open to the public are conducted to document compliance with the standards set forth in State law.”

Section 303.1.3 of the International Swimming Pool and Spa Code, 2021 Edition, is deleted and of no force or effect.

Section 304 of the International Swimming Pool and Spa Code, 2021 Edition, is deleted and of no force or effect.

Section 305.1 of the International Swimming Pool and Spa Code, 2021 Edition, is amended as follows:

“305.1 General. The provisions of this section shall apply to the design of barriers for restricting entry into areas having pools and spas. {remainder of text deleted.}”

Section 305.1.1 of the International Existing Building Code, 2021 Edition is deleted and is of no force and effect.

Section 305.2 of the International Swimming Pool and Spa Code, 2021 Edition, is amended as follows:

“305.2 Outdoor swimming pools and spas. Outdoor pools and spas and indoor swimming pools shall be surrounded by a barrier that complies with this code as amended or adopted, the City of Richardson Code of Ordinances, Chapter 6, Article IV - Fences, Section 6-212 and in accordance with the Texas Administrative Code, Texas Health and Safety Code 757 for public pools.”

Sections 305.2.1 through 305.2.6 of the International Swimming Pool and Spa Code, 2021 Edition, are deleted and of no force or effect.

Section 305.3.1 of the International Swimming Pool and Spa Code, 2021 Edition, is amended as follows:

“305.3.1 Utility or service gates. Gates not intended for pedestrian use, such as utility or service gates, shall remain locked and utilize a self-closing, latching device.”

Section 305.4 of the International Swimming Pool and Spa Code, 2021 Edition, is amended by deleting item 5.

“305.4 Structure wall as a barrier. Where a wall of a one or two family dwelling or townhouse or its accessory structure serves as a part of the pool barrier and where doors provide direct access to the pool or spa through that wall, one of the following shall be required:

1. {existing text unchanged}.
2. {existing text unchanged}.
3. {existing text unchanged}.
4. {existing text unchanged}.
5. {deleted}.”

Section 305.6 of the International Swimming Pool and Spa Code, 2021 Edition, is amended to read as follows:

“305.6 Natural barriers used in a one- and two-family dwelling or townhouse. In the case where the pool or spa area abuts the edge of a lake or other natural body of water, public access is not permitted or allowed along the shoreline, and required barriers extend to and beyond the water’s edge a minimum of eighteen (18) inches, a barrier is not required between the natural body of water shoreline and the pool or spa.”

Sections 307.1.4 of the International Swimming Pool and Spa Code, 2021 Edition, is amended to add an exception as follows:

“307.1.4 Accessibility. {remainder of text unchanged}.

Exception: Components of projects regulated by and registered with Architectural Barriers Division of Texas Department of Licensing and Regulation shall be deemed to be in compliance with the requirements of this chapter.”

Section 307.2.2 of the International Swimming Pool and Spa Code, 2021 Edition, is amended to add Subsection 307.2.2.2 to read as follows:

“307.2.2.2 Adjacency to structural foundations. Depth of the swimming pool and spa shall maintain a ratio of 1:1 measured from the nearest building foundation or footing of a retaining wall.

Exception: An engineered design by a Texas-registered engineer shall be submitted for approval.”

Section 310.1 of the International Swimming Pool and Spa Code, 2021 Edition, is amended to read as follows:

“310.1 General. Suction entrapment avoidance for pools and spas shall be provided in accordance with APSP 7 or for public swimming pools in accordance with State of Texas Rules for Public Swimming Pools and Spas, Title 25 TAC Chapter 265 Subchapter L, Rule §265.190.”

Section 402.12 of the International Swimming Pool and Spa Code, 2021 Edition, is amended to read as follows:

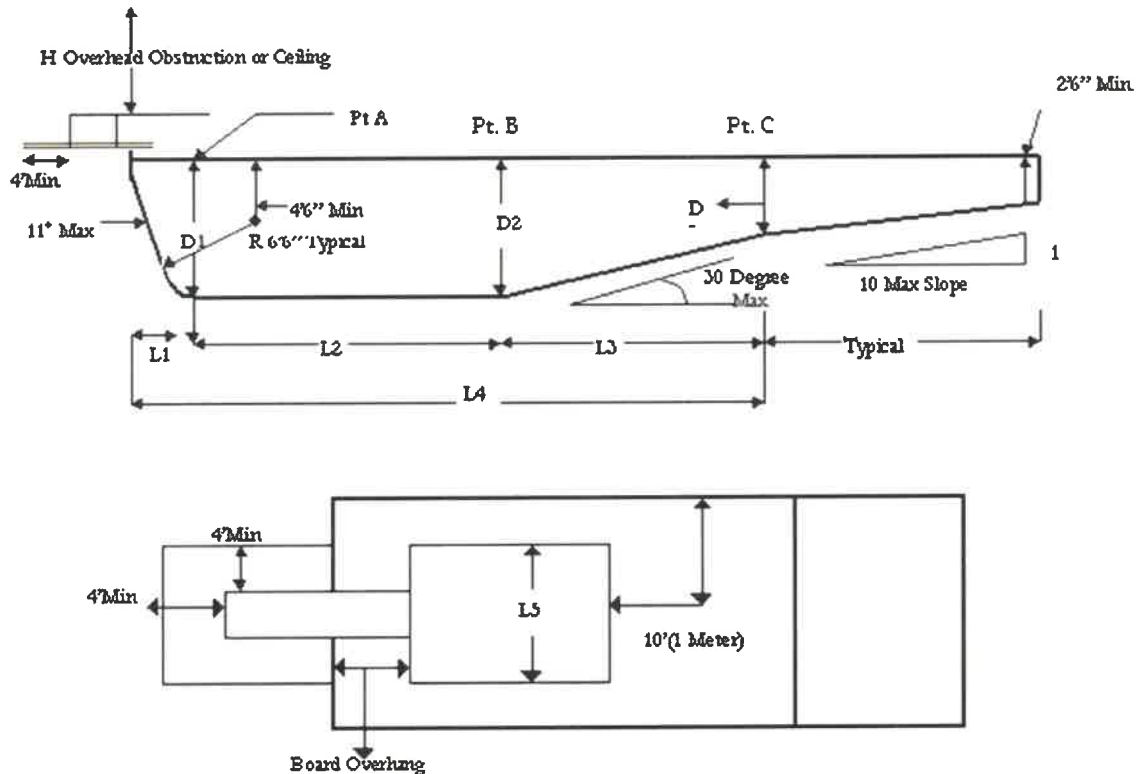
“402.12 Water envelopes. The minimum diving water envelopes shall be in accordance with Texas Department of State Health Services, Administrative Code Title 25, Chapter 265, Section 186 (e) and Figure: 25 TAC 256.186 (e) (6).”

Section 402.12 of the International Swimming Pool and Spa Code, 2021 Edition, is amended to add Figure: 25 TAC §265.186 (e) (6) to read as follows:

Figure: 25 TAC §265.186 (e) (6)

Maximum Diving Board Height Over Water	¾ Meter	1 Meter	3 Meters
Max. Diving Board Length	12 ft.	16 ft.	16 ft.
Minimum Diving Board Overhang	2 ft. 6 in.	5 ft.	5 ft.
D1 Minimum	8 ft. 6 in.	11 ft. 2 in.	12 ft. 2 in.
D2 Minimum	9 ft.	10 ft. 10 in.	11 ft. 10 in.
D3 Minimum	4 ft.	6 ft.	6 ft.
L1 Minimum	4 ft.	5 ft.	5 ft.
L2 Minimum	12 ft.	16 ft. 5 in.	19 ft. 9 in.
L3 Minimum	14 ft. 10 in.	13 ft. 2 in.	13 ft. 11 in.
L4 Minimum	30 ft. 10 in.	34 ft. 7 in.	38 ft. 8 in.
L5 Minimum	8 ft.	10 ft.	13 ft.
H Minimum	16 ft.	16 ft.	16 ft.

From Plumbet to Pool Wall at Side	9 ft.	10 ft.	11 ft. 6 in.
From Plumbet to Adjacent Plumbet	10 ft.	10 ft.	10 ft.



Sections 411.2.1 & 411.2.2 of the International Swimming Pool and Spa Code, 2021 Edition, are amended to read as follows:

“411.2.1 Tread dimensions and area. Treads shall have a minimum unobstructed horizontal depth (i.e., horizontal run) of 12 inches and a minimum width of 20 inches.”

“411.2.2 Risers. Risers for steps shall have a maximum uniform height of 10 inches, with the bottom riser height allowed to taper to zero.”

Sections 411.5.1 & 411.5.2 of the International Swimming Pool and Spa Code, 2021 Edition, are amended to read as follows:

“411.5.1 Swimouts. Swimouts, located in either the deep or shallow area of a pool, shall comply with all of the following:

1. {existing text unchanged}.
2. {existing text unchanged}.

3. {existing text unchanged}.
4. The leading edge shall be visibly set apart and provided with a horizontal solid or broken stripe at least 1 inch wide on the top surface along the front leading edge of each step. This stripe shall be plainly visible to persons on the pool deck. The stripe shall be a contrasting color to the background on which it is applied, and the color shall be permanent in nature and shall be a slip-resistant surface.”

“**411.5.2 Underwater seats and benches.** Underwater seats and benches, whether used alone or in conjunction with pool stairs, shall comply with all of the following:

1. {existing text unchanged}.
2. {existing text unchanged}.
3. {existing text unchanged}.
4. {existing text unchanged}.
5. The leading edge shall be visually set apart and provided with a horizontal solid or broken stripe at least 1 inch wide on the top surface along the front leading edge of each step. This stripe shall be plainly visible to persons on the pool deck. The stripe shall be a contrasting color to the background on which it is applied, and the color shall be permanent in nature and shall be a slip-resistant surface.
6. {existing text unchanged}.
7. {existing text unchanged}.”

Section 610.5.1 of the International Swimming Pool and Spa Code, 2021 Edition, is amended to read as follows:

“**610.5.1 Uniform height of 10 inches.** Except for the bottom riser, risers at the centerline shall have a maximum uniform height of 10 inches (254 mm). The bottom riser height shall be permitted to vary from the other risers.”

Section 804.1 of the International Swimming Pool and Spa Code, 2021 Edition, is amended to read as follows:

“**804.1 General.** The minimum diving water envelopes shall be in accordance with Table 804.1 and Figure 804.1, or the manufacturer’s specifications, whichever is greater. Negative construction tolerances shall not be applied to the dimensions of the minimum diving water envelopes given in Table 804.1.”

SECTION 9. That all provisions of the Code of Ordinances of the City of Richardson, Texas, in conflict with the provisions of this Ordinance be, and the same are hereby, repealed and

all other provisions not in conflict with the provisions of this Ordinance shall remain in full force and effect.

SECTION 10. That an offense committed before the effective date of this Ordinance is governed by the prior law and provisions of the Code of Ordinances, as amended, in effect when the offense was committed, and the former law is continued in effect for this purpose.

SECTION 11. That should any word, phrase, section, or portion of this Ordinance or of the Code of Ordinances, as amended hereby, be held to be void or unconstitutional, the same shall not affect the validity of the remaining portions of said Ordinance or the Code of Ordinances, as amended hereby, which shall remain in full force and effect.

SECTION 12. That any person, firm or corporation violating any of the provisions or terms of this Ordinance shall be subject to the same penalty as provided for in the Code of Ordinances of the City of Richardson, as heretofore amended, and upon conviction shall be punished by a fine not to exceed the sum of Two Thousand Dollars (\$2,000.00) for each offense; and each and every day such violation shall continue shall be deemed to constitute a separate offense.

SECTION 13. That this Ordinance shall become effective from and after its passage and the publication of the caption, as the law and charter in such cases provide.

DULY PASSED by the City Council of the City of Richardson, Texas, on the 24th day of April 2023.



APPROVED:


MAYOR

APPROVED AS TO FORM:

CORRECTLY ENROLLED:


CITY ATTORNEY
(PGS:4-13-23:TM 134020)


CITY SECRETARY