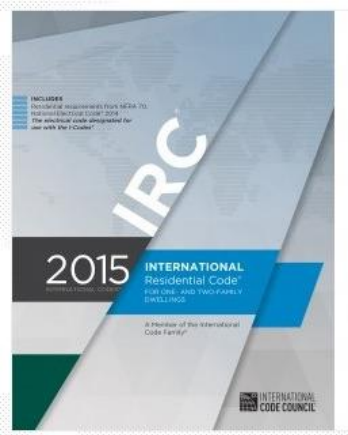
2015 INTERNATIONAL RESIDENTIAL CODE SIGNIFICANT CHANGES



The International Residential Code (IRC) covers minimum standards for one- and two-family low-rise residential structures. It includes planning for minimum living conditions, structural design, energy efficiency, and life safety provisions. The IRC also contains mechanical, electrical, plumbing, and fuel gas provisions that are specific to residential construction.

SIGNIFICANT CODE CHANGES:

- Wind speed maps have been added, and wind speed values have increased. [Figure R301.2(4) & Table R602.10.3(1)]
- Expanded sunroom regulations address specific construction types and uses. [R301.2.1.1.1]
- The minimum ceiling height for bathrooms, toilet rooms, and laundry rooms has been reduced to 6 feet, 8 inches. [R305.1]
- Carbon monoxide detectors are required to be hardwired in new construction. Combination smoke and carbon monoxide alarms are allowed to satisfy both requirements. Exterior work does not trigger the requirement for smoke and carbon monoxide alarms. [R314 & R315.5]
- There are new specifications for attaching exterior cladding over foam sheathing. [R703.15-R703.17]
- Allowed spans have been reduced for Southern Pine. [Tables R802.4]
- There are new requirements for rooftop photovoltaic systems [R905.16 & R907]

CHANGES IN PROPOSED AMENDMENTS:

- Section R319.1 has been amended to require the address to be posted at the rear of a property if there is an alley.
- Chapter 11 Energy has been replaced with the International Energy Conservation Code.
- Chapter 45 Residential Swimming Pools has been added, summarizing the pool barrier requirements of the International Swimming Pool and Spa Code (not adopted).

AN ORDINANCE OF THE CITY OF COPPELL, TEXAS

ORDINANCE NO._____

AN ORDINANCE OF THE CITY OF COPPELL, TEXAS AMENDING THE CODE OF ORDINANCES BY AMENDING CHAPTER 15, "OTHER CODES ADOPTED", ARTICLE 15-8, "RESIDENTIAL CODE", TO ADOPT THE INTERNATIONAL RESIDENTIAL CODE, 2015 EDITION, AS THE CITY OF COPPELL RESIDENTIAL BUILDING CODE; PROVIDING AMENDMENTS TO THE INTERNATIONAL RESIDENTIAL CODE 2015 EDITION; PROVIDING A SEVERABILITY CLAUSE; PROVIDING A REPEALING CLAUSE; PROVIDING A SAVINGS CLAUSE; PROVIDING A PENALTY FOR VIOLATION OF THIS ORDINANCE NOT TO EXCEED THE SUM OF FIVE HUNDRED DOLLARS ($500.00) FOR EACH OFFENSE; EXCEPT HOWEVER, WHERE A DIFFERENT PENALTY HAS BEEN ESTABLISHED BY STATE LAW FOR SUCH OFFENSE WHICH IS A VIOLATION OF ANY PROVISION OF LAW THAT GOVERNS FIRE SAFETY, ZONING, OR PUBLIC HEALTH AND SANITATION, INCLUDING DUMPING OF REFUSE, THE PENALTY SHALL BE A FINE NOT TO EXCEED THE SUM OF TWO THOUSAND DOLLARS ($2,000.00) FOR EACH OFFENSE; AND PROVIDING AN EFFECTIVE DATE.

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

SECTION 1. That the Code of Ordinances of the City of Coppell, Texas be and the same is hereby amended by amending Chapter 15, Article 15-8, "Residential Code" in part to adopt the International Residential Code, 2015 Edition, with amendments to read as follows:

"ARTICLE 15-8. RESIDENTIAL CODE"

Sec. 15-8. Residential Code - Adopted.

There is hereby adopted the International Residential Code, 2015 Edition, and made a part hereof for all purposes, the same as if fully copied in full herein, with the exception of such sections hereof, which are hereafter deleted, modified or amended.

Section 15-8-2 Amendments.

The following sections of the International Residential Code, 2015 Edition, are hereby amended to read as follows:

1. **Amend Section R101.2 to read as follows:**

R101.2 Scope. The provisions of the International Residential Code for One- and Two-family Dwellings shall apply to the construction, alteration, movement, enlargement, replacement, repair, equipment, use and occupancy, location, removal and demolition of detached one- and two-family dwellings and townhouses not more than three stories above grade plane in height with a separate means of egress and their accessory structures.

Exception:

Owner-occupied lodging houses with five or fewer guestrooms shall be permitted to be constructed in accordance with the International Residential Code for One- and Two-family Dwellings where equipped with a fire sprinkler system in accordance with Section P2904.

2. **Amend Section R102.4 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. 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.

3. **Section R104.10.1 Flood Hazard areas** shall be deleted in its entirety.

4. **Amend Section R105.2 to read as follows:**

R105.2 Work Exempt from Permit. Exemptions from permit requirements of this code shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of this code or any laws or ordinances of this jurisdiction. Permits shall not be required for the following:

Building:

1. Water tanks supported directly on grade if the capacity does not exceed 5,000 gallons (18,927L) and the ratio of the height to diameter does not exceed 2 to 1.

2. Painting, papering, tiling, carpeting, cabinets, counter tops and similar finish work.

3. Prefabricated swimming pools that are less than 24 inches (610mm) deep or have walls entirely above the adjacent grade and if the capacity does not exceed 5,000 gallons (18927 L).

4. Swings and other playground equipment accessory to a one- or two-family dwelling.

5. Window awnings supported by an exterior wall.

5. Sections R105.3.1.1& R106.1.4 shall be deleted in their entirety.

6. Amend Section R106.1 to read as follows:

R106.1 Submittal Documents. Two complete sets of construction documents, special inspection and structural observation programs and other data shall be submitted with each application for a permit. The foundation plans and details as well as other engineered design plans and details shall be prepared by a Texas registered design professional. Where special conditions exist, the building official is authorized to require additional construction documents to be prepared by a Texas registered design professional.

Exception: The building official is authorized to waive the submission of construction documents and other data not required to be prepared by a registered design professional

if it is found that the nature of the work applied for is such that reviewing of construction documents is not necessary to obtain compliance with this code.

Where differences occur between provisions of this code and referenced codes and standards, the provisions of this code shall apply.

7. Section R110 (R110.1 through R110.5) shall be deleted in its entirety.

8. Adopt a new Section R112.1.1 to read as follows:

Section R112.1.1 Building and Standards Commission. The Building and Standards Commission shall act as the Board of Appeals.

9. Section R112.3 Qualifications shall be deleted in its entirety.

10. Amend Section R202, "TOWNHOUSE", to read as follows:

TOWNHOUSE. A single family dwelling unit constructed in a group of attached units separated by a property line in which each unit extends from foundation to roof and with an open space on at least two sides.

11. Amend Table R301.2 (1) as follows: (No changes to footnotes)

TABLE R301.2 (1)

GROUND SNOW LOAD	WIND DESIGN				SEISMIC DESIGN CATEGORY[f]	SUBJECT TO DAMAGE FROM			WINTER DESIGN TEMP[e]	ICE BARRIER UNDER-LAYMENT[h]	FLOOD HAZARDS[g]	AIR FREEZING INDEX[i]	MEAN ANNUAL TEMP[j]
	SPEED[d] (MPH)	Topographic	Special Wind Region[L]	Windborne Debris Zone[m]		Weathering[a]	Frost Line Depth[b]	Termite[c]					
5 lb/ft	115 (3 sec-gust)/ 76 fastest mile	No	No	No	A	Moderate	6”	Very Heavy	22^0 F	No	Local Code	150	64.9^0 F

12. Amend Section R302.1 to adopt exception #6 to read as follows:

6. Open non-combustible carport structures may be constructed when also approved within adopted ordinances.

13. Amend Section R302.2.4, Exception 5, to read as follows:

Exception: {previous exceptions unchanged}

5. Townhouses separated by a common fire-resistance-rated wall as provided in Section R302.2.

14. Amend Section R302.3 to adopt exception #3 to read as follows:

Exceptions:

1. {existing text unchanged}

2. {existing text unchanged}

3. Two-family dwelling units that are also divided by a property line through the structure shall be separated as required for townhouses.

15. Amend Section R302.4.1 to read as follows:

R302.4.1 Through penetrations No through penetrations of fire rated wall or ceiling assemblies are permitted.

16. Sections R302.4.1.1 and R302.4.1.2 shall be deleted in their entirety.

17. Amend Section R302.5.1 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.

18. Amend Section R303.3, "Exception", to read as follows:

Exception: The glazed areas {remainder unchanged} Spaces containing only a water closet, a lavatory, 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.

19. Amend Section R313.2 to read as follows:

R313.2 NFPA 13R Sprinkler Systems. When buildings of Group R used for single and two family dwellings have a total floor area in excess of 10,000 square feet, including garages and open covered porches, automatic sprinkler systems shall be installed throughout in accordance with NFPA 13R.

Exception: An automatic residential fire sprinkler system shall not be required for additions or alterations to existing buildings that are not already provided with an automatic residential sprinkler system if under 10,000 square feet. If the addition or alteration increases the square footage over 10,000 square feet it shall also be sprinklered.

20. Amend Section R315.2.2, Alterations, repairs and additions, to read as follows:

Exception:

2. Installation, alteration or repairs of electrical powered {remaining text unchanged}

21. Amend Section R319.1, to read as follows:

R319.1 Address identification. Buildings shall be provided with approved address identification. The address identification shall be legible and placed in a position that is plainly visible from the street or road fronting the property and where an alley exists, the address identification shall be legible and placed in a position that is plainly visible from the alley.

Address identification characters shall contrast with their background. Address numbers shall be Arabic numbers. Numbers shall not be spelled out. Each character shall be not less than 4 inches (102 mm) in height with a stroke width of not less than 0.5 inch (12.7 mm). Where required, address identification shall be provided in additional approved locations to facilitate emergency response. Where access is by means of a private road and the building address cannot be viewed from the public way, a monument or other sign or means shall be used to identify the structure. Address identification shall be maintained.

22. Section R322 Flood Resistant Construction shall be deleted in its entirety.

23. Amend Section R326, Swimming Pools, Spas and Hot Tubs, to read as follows:

R326.1 General. The design and construction of pools and spas shall comply with the 2015 International Residential Code Chapter 45 as amended herein.

24. Amend Section R401.2 by adding a new paragraph following the existing paragraph to read as follows:

Section R401.2. Requirements. {existing 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.

25. Amend Section R602.6.1, 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 unchanged}

26. Delete Figure R602.6.1 and insert the following figure:

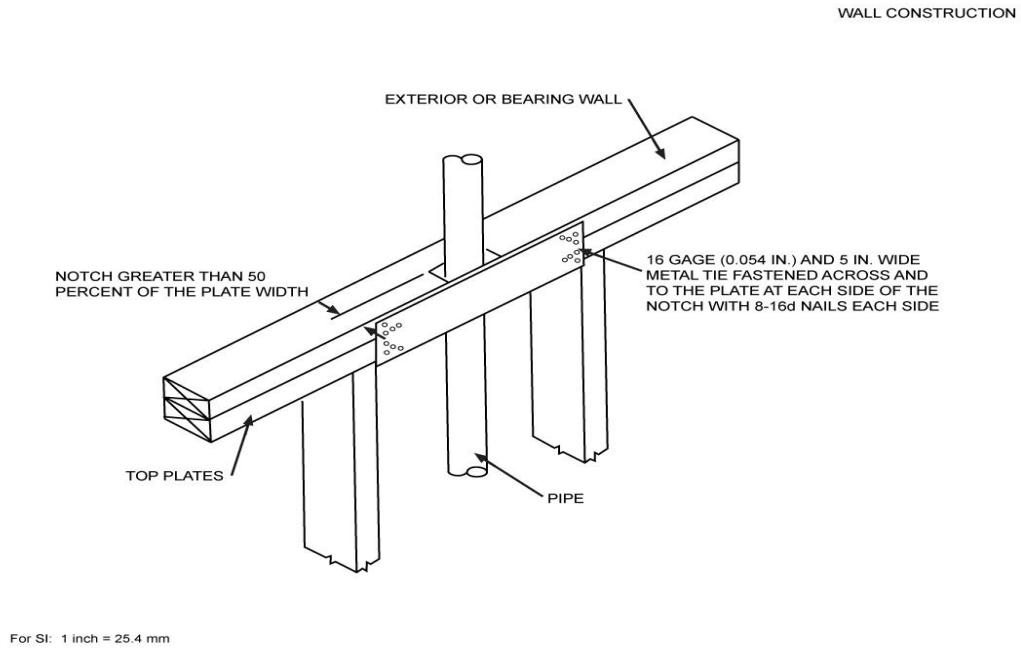


FIGURE R602.6.1
TOP PLATE FRAMING TO ACCOMMODATE PIPING

27. Amend Section R703.8.4.1, to add a second paragraph to read as follows:

Each tie shall not support more than 2.67 square feet (0.248 m2) of wall area. The following dimensions shall be adhered to:

1. When ties are placed on studs 16” in. (407 mm) o.c., they shall be spaced no further apart than 24” (737 mm) vertically starting approximately 12 in. (381 mm) from the foundation.

2. When ties are placed on studs 24 in. (610 mm) o.c., they shall be spaced no further apart than 16 in. (483 mm) vertically starting approximately 8 in. (254 mm) from the foundation.

28. Section R902.2, Fire-retardant shingles and shakes, shall be deleted in its entirety and replaced with the following:

R902.2. Minimum Roof Class. All roof coverings shall be a minimum Class C.

29. Chapter 11 [RE] – Energy Efficiency is deleted in its entirety 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 2015 International Energy Conservation Code.

30. Amend Section M1305.1.3, to read as follows:

M1305.1.3 Appliances in attics. Attics containing appliances requiring access shall be provided . . . {bulk of paragraph unchanged} . . . A walkway to an appliance shall be rated as a floor as approved by the building official. As a minimum, for access to the attic space, provide one of the following:

1. A permanent stair.

2. A pull down stair with a minimum 300 lb. (136 kg) capacity.

3. An access door from an upper floor level.

Exceptions:

1. The passageway and level service space are not required where the appliance can be serviced and removed through the required opening.

2. Where the passageway is unobstructed…{remaining text unchanged}

31. Amend Section M1411.3 to read as follows:

M1411.3 Condensate disposal. Condensate from all cooling coils or evaporators shall be conveyed from the drain pan outlet to an approved place of disposal or to a sanitary sewer through a trap, by means of a direct or indirect drain. {remaining text unchanged}

32. Add Section M1501.2 to read as follows:

M1501.2 Exhaust Duct Size. The minimum diameter of the exhaust duct shall be as recommended by the manufacturer, shall be not less than the diameter of the appliance outlet and shall be a minimum nominal size of 4 inches (102 mm) in diameter. The size of duct shall not be reduced along its developed length or at the point of termination.

33. Amend M1503.4 Makeup Air Required and add exception, to read as follows:

M1503.4 Makeup air required. Exhaust hood systems capable of exhausting in excess of 400 cubic feet per minute (0.19 m3/s) shall be mechanically or naturally provided with makeup air at a rate approximately equal to the difference between the exhaust air rate and 400 cubic feet per minute. Such makeup air systems shall be equipped with a means of closure and shall be automatically controlled to start and operate simultaneously with the exhaust system.

Exception: Where all appliances in the house are of sealed combustion, power-vent, unvented, or electric, the exhaust hood system shall be permitted to exhaust up to 600 cubic feet per minute (0.28 m3/s) without providing makeup air. Exhaust hood systems capable of exhausting in excess of 600 cubic feet per minute (0.28 m3/s) shall be provided with a makeup air at a rate approximately equal to the difference between the exhaust air rate and 600 cubic feet per minute.

34. Amend Section M2005.2 to read as follows:

M2005.2 Prohibited locations. Fuel-fired water heaters shall not be installed in a room used as a storage closet. Water heaters located in a bedroom or bathroom shall be installed in a sealed enclosure so that combustion air will not be taken from the living space. Access to such enclosure may be from the bedroom or bathroom when through a solid door, weather-stripped in accordance with the exterior door air leakage requirements of the International Energy Conservation Code and equipped with an approved self-closing device. Installation of direct-vent water heaters within an enclosure is not required.

35. Amend Section G2412.5 (401.5) by adding a second paragraph to read as follows:

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

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

36. Amend Section G2413.3 (402.3) by adding an exception to read as follows:

Exception: Corrugated stainless steel tubing (CSST) shall be a minimum of 1/2" (18 EDH).

37. Amend Section G2415.12 (404.12) to read as follows:

G2415.12 (404.12) Minimum burial depth. Underground piping systems shall be installed a minimum depth of 18 inches (457 mm) below grade, except as provided for in Section G2415.12.1

38. Amend Section G2415.12.1 (404.12.1) to read as follows:

G2415.12.1 Individual outside appliances. Individual lines to outside lights, grills or other appliances shall be installed a minimum of 12 inches (203 mm) below finished grade…. {Rest unchanged}.

39. Amend Section G2417.1 to read as follows:

G2417.1 (406.1) General. Prior to acceptance and initial operation, all piping installations shall be inspected and pressure tested to determine that the materials, design, fabrication, and installation practices comply with the requirements of this code. The permit holder shall make the applicable tests prescribed in Sections 2417.1.1 through 2417.7.4 to determine compliance with the provisions of this code. The permit holder shall give reasonable advance notice to the code official when the piping system is ready for testing. The equipment, material, power and labor necessary for the inspections and test shall be furnished by the permit holder and the permit holder shall be responsible for determining that the work will withstand the test pressure prescribed in the following tests.

40. Amend Section G2417.4 to read as follows:

G2417.4 (406.4) Test pressure measurement. Test pressure shall be measured with a manometer 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.

41. Amend Section G2417.4.1 to read as follows:

G2417.4.1 (406.4.1) Test pressure. The test pressure to be used shall be not less than 3 psig (20 kPa gauge), or at the discretion of the Building Official, the piping and valves may be tested at a pressure of at least six (6) inches (152 mm) of mercury, measured with a manometer or slope gauge. For tests requiring a pressure of 3 psig, diaphragm gauges shall utilize a dial with a minimum diaphragm diameter of three and one half inches (3 ½"), a set hand, 1/10 pound incrementation and pressure range not to exceed 6 psi for tests requiring a pressure of 3 psig. For tests requiring a pressure of 10 psig, diaphragm gauges shall utilize a dial with a minimum diameter of three and one-half inches (3 ½"), a set hand, a minimum of 2/10 pound incrementation and a pressure range not to exceed 20 psi. For welded piping, and for piping carrying gas at pressures in excess of fourteen (14) inches water column pressure (3.48 kPa) (1/2 psi) and less than 200 inches of water column pressure (52.2 kPa) (7.5 psi), the test pressure shall not be less than ten (10) pounds per square inch (69.6 kPa). For piping carrying gas at a pressure that exceeds 200 inches of water column (52.2 kPa) (7.5 psi), the test pressure shall be not less than one and one-half times the proposed maximum working pressure.

42. Amend Section G2417.4.2 to read as follows:

G2417.4.2 (406.4.2) Test Duration. The test duration shall be held for a length of time satisfactory to the code official, but in no case for less than fifteen (15) minutes. For welded piping, and for piping carrying gas at pressures in excess of fourteen (14) inches water column pressure (3.48 kPa), the test duration shall be held for a length of time satisfactory to the code official, but in no case for less than thirty (30) minutes.

43. Add Section G2420.1.4 to read as follows:

G2420.1.4 Valves in CSST Installations. Shutoff valves installed with corrugated stainless steel (CSST) piping systems shall be supported with an approved termination fitting, or equivalent support, suitable for the size of the valves, of adequate strength and quality, and located at intervals so as to prevent or damp out excessive vibration but in no case greater than 12-inches from the center of the valve. Supports shall be installed so as not to interfere with the free expansion and contraction of the system's piping, fittings, and valves between anchors. All valves and supports shall be designed and installed so they will not be disengaged by movement of the supporting piping.

44. Amend Section G2420.5.1 (409.5.1) to read as follows:

G2420.5.1 (409.5.1) Located within the same room. The shutoff valve …{bulk of paragraph unchanged}… in accordance with the appliance manufacturer's instructions. A

secondary shutoff valve must be installed within 3 feet (914 mm) of the firebox if appliance shutoff is located in the firebox.

45. Amend Section G2421.1 (410.1) and adopt a new Exception to read as follows:

G2421.1 (410.1) Pressure regulators. A line pressure regulator shall be *... {bulk of paragraph unchanged}...* approved for outdoor installation. Access to regulators shall comply with the requirements for access to appliances as specified in Section M1305.

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

46. Amend Section G2422.1.2.3 (411.1.3.3) by deleting Exception 1 and Exception 4.

47. Amend Section G2445.2 (621.2) by adopting a new Exception to read as follows:

G2445.2 (621.2) Prohibited use. One or more unvented room heaters shall not be used as the sole source of comfort heating in a dwelling unit.

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

48. Amend Section G2448.1.1 (624.1.1) to read as follows:

G2448.1.1 (624.1.1) Installation requirements. The requirements for water heaters relative to access, sizing, relief valves, drain pans and scald protection shall be in accordance with this code.

49. Amend Section P2603.5.1 to read as follows:

P2603.5.1 Sewer Depth. Building sewers shall be a minimum of 12 inches (304 mm) below grade.

50. Amend Section P2801.6.1 to read as follows:

Section P2801.6.1 Pan size and drain. The pan shall be not less than 11/2 inches (38 mm) in depth and shall be of sufficient size and shape to receive all dripping or condensate from the tank or water heater. The pan shall be drained by an indirect waste pipe having a diameter of not less than 3/4 inch (19 mm). Piping for safety pan drains shall be of those materials listed in Table 605.4. Multiple pan drains may terminate to a single discharge piping system when approved by the administrative authority and permitted by the manufactures installation instructions and installed with those instructions.

51. Amend Section P2804.6.1 to read as follows:

P2804.6.1 Requirements for discharge pipe.

The discharge piping serving a pressure-relief valve, temperature-relief valve or combination valve shall:

1. Not be directly connected to the drainage system.

2. Discharge to the outdoors or through an air gap located in the same room as the water heater.

3. Not be smaller than the diameter of the outlet of the valve served and shall discharge full size to the air gap.

4. Serve a single relief device and shall not connect to piping serving any other relief device or equipment.

   Exception: Multiple relief devices may be installed to a single T & P discharge piping system when approved by the administrative authority and permitted by the manufactures installation instructions and installed with those instructions.

5. Discharge to an indirect waste receptor or to the outdoors.

6. [remainder unchanged]

52. Amend Section P2902.5.3 to read as follows:

P2902.5.3 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 principle 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 principle backflow preventer.

53. Amend Section P2903.9.1 by adding the following sentence:

The shutoff valve at the entrance of the water service into the dwelling unit shall not be more than 12 inches below finished grade.

54. Amend Section P3003.9.2 by deleting the exception.

55. Section P3111 is deleted in its entirety.

56. Amend Section P3112.2 to read as follows:

P3112.2 Installation. Traps for island sinks and similar equipment shall be roughed in above the floor and may be vented by extending the vent as high as possible, but not less than the drain-board height and then returning it downward and connecting it to the horizontal sink drain immediately downstream from the vertical fixture drain. The return vent shall be connected to the horizontal drain through a wye-branch fitting and shall, in addition, be provided with a foot vent taken off the vertical fixture vent by means of a wye-branch immediately below the floor and extending to the nearest partition and then through the roof to the open air or may be connected to other vents at a point not less than six (6) inches (152 mm) above the flood level rim of the fixtures served. Drainage fittings shall be used on all parts of the vent below the floor level and a minimum slope of one-quarter (1/4) inch per foot (20.9 mm/m) back to the drain shall be maintained. The return bend used under the drain-board shall be a one (1) piece fitting or an assembly of a forty-five (45) degree (0.79 radius), a ninety (90) degree (1.6 radius) and a forty-five (45) degree (0.79 radius) elbow in the order named. Pipe sizing shall be as elsewhere required in this Code. The island sink drain, upstream of the return vent, shall serve no other fixtures. An accessible cleanout shall be installed in the vertical portion of the foot vent.

57. Add Chapter 45 Residential Swimming Pools to read as follows:

Section 4501 Swimming Pool Enclosures and Safety Devices

4501.1 General. Swimming pools shall comply with the requirements of Sections 4501.2 through 4501.5 and other applicable sections of this code and its referenced codes and standards.

4501.2 Definition:

SWIMMING POOL, RESIDENTIAL. A pool intended for use which is accessory to a residential setting and available only to the household and its guests.

4501.3 Swimming Pool Enclosures Residential swimming pools shall be completely enclosed by a barrier complying with section 4501.3.1.

> **Exception:** A swimming pool with a power safety cover or a spa with a safety cover complying with ASTM F 1346

4501.3.1 Barrier height and clearances. The top of the barrier shall be not less than 48 inches (1219 mm) above grade measured on the side of the barrier that faces away from the swimming pool. The vertical clearance between grade and the bottom of the barrier shall be no greater than 2 inches (51 mm) measured on the side of the barrier that faces away from the swimming pool. Where the top of the pool structure is above grade, the barrier is authorized to be at ground level or mounted on top of the pool structure, and the vertical clearance between the top of the pool structure and the bottom of the barrier shall be not greater than 4 inches (102 mm).

4501.3.1.1 Openings. Openings in the barrier shall not allow passage of a 4-inch diameter (102 mm) sphere.

4501.3.1.2 Solid Barrier Surfaces. Solid barriers which do not have openings shall not contain indentations or protrusions except for normal construction tolerances and tooled masonry joints.

4501.3.1.3 Closely spaced horizontal members. Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is less than 45 inches (1143 mm), the horizontal members shall be located on the swimming pool side of the fence. Spacing between vertical members shall be not greater than 1 ¾ inches (44 mm) in width. Where there are decorative cutouts within vertical members, spacing within the cutouts shall be not greater than 1 ¾ inches (44 mm) in width.

4501.3.1.4 Widely spaced horizontal members. Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is 45 inches (1143 mm) or more, spacing between vertical members shall be not greater than 4 inches (102 mm). Where there are decorative cutouts within vertical members, spacing within the cutouts shall be not greater than 1 ¾ inches (44 mm) in width.

4501.3.1.5 Chain link dimensions. Mesh size for chain link fences shall be not greater than a 2 ¼ inch square (57 mm square) unless the fence is provided with slats fastened at the top or the bottom that reduce the openings to not more than 1 ¾ inches (44 mm).

4501.3.1.6 Diagonal members. Where the barrier is composed of diagonal members, the opening formed by the diagonal members shall be not greater than 1 ¾ inches (44 mm)

4501.3.1.7 Gates. Access doors or gates shall comply with the requirements of Sections 4501.3.1.1 through 4501.3.1.6 and shall be equipped to accommodate a locking device. Pedestrian access doors or gates shall open outward away from the pool and shall be self-closing and have self-latching device. Doors or gates other than pedestrian access doors or gates shall have a self-latching device. Where the release mechanism of the self-latching device is located less than 54 inches (1372 mm) from the bottom of the door or gate, the release mechanism shall be located on the pool side of the door or gate no less than 3 inches (76 mm) below the top of the door or gate, and the door or gate and barrier shall be without openings greater than ½ inch (12.7 mm) within 18 inches (457 mm) of the release mechanism.

4501.3.1.8 Dwelling wall as a barrier. Where a wall of a dwelling serves as a part of the barrier, one of the following shall apply:

1. Doors with direct access to the pool through that all shall be equipped with an alarm that produces an audible warning when the door or its screen, if present, are opened. The alarm shall be listed and labeled in accordance with UL 2017. The deactivation switch shall be located 54 inches (1372 mm) or more above the threshold of the door

2. The pool shall be equipped with a power safety cover that complies with ASTM F 1346.

3. Other means of protection such as self-closing doors with self-latching devices, which are approved, shall be accepted so long as the degree of protection afforded is not less than protection afforded by Item 1 or 2 above. The building official may require documentation from the homeowner attesting to the presence and maintenance of required safety devices.

4501.3.1.9 Pool structure as barrier. Where an above-ground pool structure is used as a barrier or where the barrier is mounted on top of the pool structure, and the means of access is a ladder or steps, then the ladder or steps either shall be capable of being secured, locked or removed to prevent access, or the ladder or steps shall be surrounded by a barrier that meets the requirements of Sections 4501.3.1.1 through 4501.3.1.8. Where the ladder or steps are secured, locked or removed, any opening created shall not allow the passage of a 4-inch-diamter (102 mm) sphere.

4501.3.2 Indoor Swimming Pools. Walls surrounding indoor swimming pools shall not be required to comply with section 4501.3.1.8.

4501.3.3 Prohibited locations. Barriers shall be located so as to prohibit permanent structures, equipment or similar objects from being used to climb the barriers.

4501.4 Entrapment avoidance. Suction outlets shall be designed and installed in accordance with ANSI/APSP-7."

SECTION 2. If any section, subsection, paragraph, sentence, phrase or work in this ordinance, or application thereof to any person or circumstance is held invalid by any court of competent jurisdiction, such holding shall not affect the validity of the remaining portions of this ordinance, and the City Council of the City of Coppell, Texas hereby declares it would have enacted such remaining portions despite any such invalidity.

SECTION 3. That the repeal of any ordinance or any portion thereof by the preceding sections shall not affect or impair any act done or right vested or accrued or any proceeding, suit or prosecution had or commenced in any cause before such repeal shall take effect; but every such act done, or right vested or accrued, or proceedings, suit or prosecution had or commenced shall remain in full force and effect to all intents or purposes as if such ordinance or part thereof so repealed shall remain in force.

SECTION 4. That any person, firm or corporation violating any of the provisions of this ordinance or the Code of Ordinances as amended hereby, shall be guilty of a misdemeanor and upon conviction in the Municipal Court of the City of Coppell, Texas, shall be subject to a fine not to exceed the sum of Five Hundred Dollars ($500.00) for each offense, except where a different penalty has been established by State law for such offense, the penalty shall be that fixed by State law, and for any offense which is a violation of any provision of law that governs fire safety, zoning or public health and sanitation, including dumping of refuse, the penalty shall be fine not to exceed the sum of Two Thousand Dollars ($2,000.00) for each offense; and each and every day such offense is continued shall constitute a new and separate offense.

SECTION 5. That this ordinance shall become effective immediately 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 Coppell, Texas, this the _____ day of _____, 2017.

APPROVED:

_____

Karen Hunt, MAYOR

ATTEST:

_____

CHRISTEL PETTINOS, CITY SECRETARY

APPROVED AS TO FORM:

_____

ROBERT HAGER, CITY ATTORNEY