RESOLUTION

RESOLUTION DECLARING THE NEED FOR THE ADOPTION OF THE INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, 2018 EDITION, AND PROVIDING CERTAIN LOCAL AMENDMENTS TO SAID CODE.

WHEREAS, the Council of The City of Oklahoma City finds that said City needs an up-to-date code of ordinances to provide for the safety, health and public welfare through properly designed, acceptably installed and adequately maintained buildings and structures; and

WHEREAS, the Oklahoma City Residential Building Code Commission has recommended that the International Residential Code®, 2018 Edition, adopted by the State of Oklahoma with amendments as the statewide minimum code for residential building construction in the State of Oklahoma, may be adapted to meet the needs of The City by the amendment of certain sections thereof, by adding thereto certain sections particularly suitable to this City; and

WHEREAS, it is the desire of the Council to make such changes in the International Residential Code®, 2018 Edition, before consideration for approval as amended.

NOW, THEREFORE, BE IT RESOLVED by the Council of The City of Oklahoma City, that the International Residential Code for One- and Two-Family Dwellings, 2018 Edition, be and the same hereby is ordered, amended, and changed in the following respects;

DIVISION I. 2018 INTERNATIONAL RESIDENTIAL CODE®

CHAPTER 1. SCOPE AND ADMINISTRATION

Section 101.1 is deleted in favor of Chapter 12, Section 12-171 of the Oklahoma City Municipal Code, 2020.

Section 101.3 is deleted in favor of Chapter 12, Sections 12-172 of the Oklahoma City Municipal Code, 2020.

Section R102.4 is amended to add the following sentence:

Where The City of Oklahoma City has adopted a specifically referenced code or standard different than those listed, the adopted code shall apply.

Sections 103.1 and **103.2** are deleted in favor of Chapter 12, Sections 12-53 and 12-54 of the Oklahoma City Municipal Code, 2020.

Section 104.1 is deleted in favor of Chapter 12, Section 12-55 of the Oklahoma City Municipal Code, 2020.

Section 104.2 is deleted in favor of Chapter 12, Sections 12-67 through 12-71 of the Oklahoma City Municipal Code, 2020.

Section 104.3 is deleted in favor of Chapter 12, Section 12-56 of the Oklahoma City Municipal Code, 2020

Section 104.4 is deleted in favor of Chapter 12, Section 12-58 of the Oklahoma City Municipal Code, 2020.

Section 104.5 is deleted in favor of Chapter 12, Section 12-60 of the Oklahoma City Municipal Code, 2020.

Section 104.6 is amended to add the following sentence:

The building official shall comply with the procedures and conditions set forth in the Oklahoma City Municipal Code prior to entry.

Section 104.7 is deleted in favor of Chapter 12, Section 12-61 of the Oklahoma City Municipal Code, 2020.

Section Rl05.2 is amended to delete exception 2 with exceptions 1 and 3 amended to read as follows:

1. *One-story* detached *accessory structures,* used as tool and storage sheds, playhouses, and similar uses, provided the floor area does not exceed 200 square feet (I 8.58 m2), the overall building height is 10 feet or less, and the building is not located on a permanent foundation.

3. Retaining walls that are 18" or less in height measured from the bottom of the footing to the top of the wall, unless supporting a surcharge.

Section 108.1 is deleted in favor of Chapter 12, Sections 12-91 of the Oklahoma City Municipal Code, 2020.

Section 108.2 is deleted in favor of Chapter 12, Sections 12-92 of the Oklahoma City Municipal Code, 2020.

Section 108.5 is amended to read as follows:

108.5 Refunds. Refunds shall be made in accordance with the adopted Council Resolution for refunds administered by the Development Services Department.

Section R109.1.3 is amended to read as follows:

R109.1.3 Floodplain inspections. For construction in areas prone to flooding as established by Table R301.2(1), upon placement of the lowest floor, including basement, and prior to further vertical construction, the building official shall require submission of documentation, prepared, and sealed by a registered design professional, of the elevation of the lowest floor, including basement.

Section R110.3 is amended to delete requirement 8.

Section 112 is deleted in favor of Chapter 12, Sections 12-111 through 12-135 of the Oklahoma City Municipal Code, 2020.

Section 113.2 is deleted in favor of Chapter 12, Section 12-56 of the Oklahoma City Municipal Code, 2020.

Sections 113.3 and 113.4 are deleted in favor of Chapter 12, Section 12-57 of the Oklahoma City Municipal Code, 2020.

CHAPTER 3. BUILDING PLANNING

Table R301.2 (1) is hereby amended to fill the table with the following:

Ground Snow Load - 10 psf; Wind Speed - 115 mph; Seismic Design Category - C; Weathering - Moderate; Frost Line Depth - 18 inches; Termite - Yes; Winter Design Temp. - 13F; Ice Barrier Underlayment Required - No; Flood Hazards - See Chapter 16 of the Oklahoma City Municipal Code; Air Freezing Index - 32; Mean Annual Temp. - 60F.

CHAPTER 13. GENERAL MECHANICAL SYSTEM REQUIREMENTS

Section M1307.1.1 is added to read as follows:

M1307.1.1 Appliance installation. Mechanical equipment and tank type hot water heaters appliances shall be installed in accordance with Section M1307 of this Code except that fuel burning central furnaces and tank type water heaters shall not be installed under a stairwell.

Exception: This requirement shall not apply to areas under stairwells that are protected with fire suppression in accordance with this code.

Fuel-burning central heating units and fuel-burning tank type water heaters installed in a garage or other hazardous location shall be protected by enclosure in a closet.

Exception: An appliance enclosure shall not be required where a direct-vent appliance is installed provided the appliance is protected from impact in an approved manner.

Section M1308.3 is added to read as follows:

M1308.3 Construction equipment. Construction equipment such as backhoes, other motorized earth moving equipment, etc., shall not travel within or over a stem wall area or foundation perimeter after plumbing, electrical or mechanical ducts, piping, equipment, or materials have been installed.

Exception: Construction equipment shall be permitted within said prohibited areas where such equipment does not travel over or adjacent to any duct, piping, equipment, or materials subjecting them to physical damage, provided however that the Code Official shall be notified prior to the work and provided that the code official shall verify that no damage is done to the installation by such construction equipment.

Section M1309 is added to read as follows:

M1309.1 Construction Heat. Construction heat shall be allowed according to the following requirements:

1. An inspection shall be made for construction heat prior to placing the heating system in operation.

2. Filter or filters shall be installed over each return air opening. Filters shall be cleaned or replaced as they become loaded with dust and debris. Air- handling units, appliances, and equipment shall not be in operation while the air filters are being changed.
3. The construction heat thermostat shall have a minimum set point of 55 degrees F.
4. Mechanical equipment and appliances shall be installed in accordance with all safety requirements and limitations of the appliance and equipment manufacturer's installation instructions, relative to construction heat.
5. Mechanical equipment shall be separated and isolated from all construction areas.
6. When combustible, flammable, explosive, or corrosive materials in any state (solid, liquid, or gaseous) are being used in the construction process, the mechanical system shall not be in use except where approved by the Code Official. The construction area shall be thoroughly ventilated before the mechanical system is put back into service.
7. Failure to provide adequate filtering during construction shall be grounds for requiring ductwork, mechanical equipment, and appliances to be professionally cleaned or replaced before final approval.

CHAPTER 14. HEATING AND COOLING EQUIPMENT AND APPLIANCES

Section M1411.3 is amended to add Items 1, 2, and 3 to read as follows:

1. All condensate waste drain lines shall be carried full size from the primary drain pan outlet and piped to a sanitary sewer, storm drain, flood drain, or other approved location or receptor.
2. Drains shall have a slope of not less than 1/8-inch per foot and contain no sags.
3. Drains shall not discharge under any habitable space or on any sidewalk, walkway, street, alley, parking area, or where a nuisance, unsafe condition, or hazard may result.

CHAPTER 15. EXHAUST SYSTEM

Section M1502.3 is amended to read as follows:

M1502.3 Duct termination. Exhaust ducts shall terminate on the outside of the building. Exhaust duct terminations shall be in accordance with the dryer manufacturer's installation instructions. If the manufacturer's instructions do not specify a termination location, the exhaust duct shall terminate not less than 3 feet (914 mm) in any direction from the openings into buildings nor less than 12 inches (305 mm) from finished ground level or other obstruction. Exhaust duct terminations shall be equipped with a backdraft damper. Additionally, exhaust shall not terminate within 3 feet (914 mm) of condensing units and a minimum 12 inches (305 mm) from the ground or any obstruction. Screens shall not be installed at the duct termination.

CHAPTER 16. DUCT SYSTEM

Section M1601.4.1 is amended to read as follows:

M1601.4.1 Joints, seams, and connections. Longitudinal and transverse joints, seams, and connections in metallic and nonmetallic ducts shall be constructed as specified in SMACNA HVAC Duct Construction Standards-Metal and Flexible and NAIMA Fibrous Glass Duct Construction Standards. Joints, longitudinal and transverse seams, and connection in ductwork shall be securely fastened and sealed with welds, gaskets, mastics (adhesive), mastic-plus-embedded-fabric systems, liquid sealants or tapes. Tapes and mastics used to seal fibrous glass ductwork shall be listed and labeled in accordance with UL 181A and shall be marked "181A-P"

for pressure-sensitive tape, "181 A-M" for mastic or "181 A-H" for heat sensitive tape.

Tapes and mastics used to seal metallic and flexible air ducts and flexible air connectors shall comply with UL 181B and shall be marked "181 B-FX" for pressure-sensitive tape or "181 BM" for mastic. Duct connections to flanges of air distribution system equipment shall be sealed and mechanically fastened. Mechanical fasteners for use with flexible nonmetallic air ducts shall comply with UL 181B and shall be marked 181B-C. Crimp joints for round metallic ducts shall have a contact lap of not less than 1 inch (25 mm) and shall be mechanically fastened by means of not less than three sheet-metal screws or rivets equally spaced around the joint.
Closure systems used to seal all ductwork shall be installed in accordance with the manufacturers' instructions.

Exception:

1. Spray polyurethane foam shall be permitted to be applied without additional joint seals.
2. Where a duct connection is made that is partially inaccessible, three screws or rivets shall be equally spaced on the exposed portion of the joint so as to prevent a hinge effect.
3. For ducts having a static pressure classification of less than 2 inches of water column (500 Pa), additional closure systems shall not be required for continuously welded joints and seams and locking-type joints and seams of other than the snap-lock and button-lock types.
4. For duct systems with sheet metal plenums, Y's and supply boots, only liquid applied sealants complying with UL 181 BM (Mastic or similar) or equivalent method, shall be used to seal inner liners and start collars to plenum and any other seams in system.

Section M1602.1.1 is added to read as follows:

M1602.1.1 Required minimum area (return air ducts). The total unobstructed area of return air ducts or openings to a warm-air furnace shall be in accordance with the manufacturer's installation instructions but shall not be less than 2 square inches (12.9 cm^2) for each 1,000 Btu/h output rating of the furnace. The minimum unobstructed total area of the return air ducts or openings to a central air conditioning unit and/or heat pump shall be in accordance with the manufacturer's installation instructions. Where it cannot be demonstrated that return air ducts have been sized using an approved duct sizing method, the total cross-sectional area of the return air duct shall not be less than 6 square inches for each 1,000 Btu/h nominal cooling output rating.

Exception: An approved engineered air distribution system design.

Section M1603 is added to read as follows:

M1603 Required minimum area (supply air ducts). The minimum unobstructed total area of supply air ducts from a warm-air furnace shall be in accordance with the manufacturer's installation instructions but shall not be less than 2 square inches (12.9 cm^2) for each 1,000 Btu/h output rating of the furnace. The minimum unobstructed total area of the supply air ducts or openings from a central air conditioning unit and/or heat pump shall be in accordance with the manufacturer's installation instructions. Where it cannot be demonstrated that supply air ducts have been sized using an approved duct sizing method, the total cross-sectional area of the supply air duct shall not be less than 6 square inches for each 1,000 Btu/h nominal cooling output rating. Dampers, grilles, or registers installed for the purpose of controlling the supply airflow shall not be considered as obstructions.

Exception: An approved engineered air distribution system design.

CHAPTER 24. FUEL GAS

Section G2401.2 is added to read as follows:

Section G2401.2 Work on gas piping systems. Repairs, additions, alterations, relocations, and/or other work on any portion of gas piping systems regulated by the 2018 International Residential Code shall only be performed by a licensed plumbing or mechanical contractor that is duly authorized by the State of Oklahoma and The City of Oklahoma City to perform gas work, and whose licenses and registrations are current and active. A permit shall be obtained by the contractor prior to performing such work.

Section G2401.2.1 is added to read as follows:

Section G2401.2.1 Required inspections and testing. The code official, upon notification from the permit holder or the permit holder's agent, shall make the following inspections and other such inspections as necessary, and shall either release that portion of the construction or notify the permit holder or the permit holder's agent of violations that are required to be corrected. The holder of the permit shall be responsible for scheduling such inspections.

1. Underground inspection shall be made after trenches or ditches are excavated and bedded, piping is installed, and before backfill is put in place. When excavated soil contains rocks, broken concrete, frozen chunks and other rubble that would damage or break the piping or cause corrosive action, clean backfill shall be used on the job site.
2. Rough-in inspection shall be made after the roof, framing, fireblocking, and bracing are in place and components to be concealed are complete, and prior to the installation of wall or ceiling membranes.
3. Final inspection shall be made upon completion of the installation.
4. The inspector shall issue a certificate of approval at the completion of the work for which a permit has been issued, including construction gas/construction heat, where a building is under construction. If, after all inspections, it is found that such work complies with the provisions of this code and all other requirements of law or ordinances applicable to it, a duplicate of each piping certificate shall be delivered or transmitted to the gas company and used as their authority to establish gas service.
5. Fire damaged, remodeled, relocated buildings, and/or meter relocations: Any building that has been fire damaged, remodeled, relocated, or where a gas meter is moved, or where a building has been without gas service for 12 months or longer, an inspection and a pressure test as required by this Code shall be performed on all gas piping before service is restored.

Section G2401.3 is added to read as follows:

Section G2401.3 Gas meter relocation. The relocating of gas meters shall only be performed by employees of, or other persons authorized by the gas utility company. Work done to any gas system regulated by the 2018 International Residential Code shall only be performed by persons duly authorized by the State of Oklahoma and The City of Oklahoma City. A permit shall be obtained by the Contractor prior to performing such work.

Section G2401.4 is added to read as follows:

G2401.4 Gas meter location. Gas meters shall be located as required by the gas supplier.

Section G2404.12 is added to read as follows:

G2404.12 Condensate drains. Where condensing appliances are in locations subject to freezing conditions, the condensate drain line shall be protected from freezing in an approved manner and in accordance with manufacturer's installation instructions.

Section G2406.2 has been amended to read as follows:

G2406.2 Prohibited locations. Gas fired appliances shall not be located in spray foam insulated attics or sealed attics, sleeping rooms, bathrooms, toilet rooms, storage closets, surgical rooms, or in a space that opens only into such rooms or spaces, except where the installation complies with one of the following:

1. The appliance is a direct-vent appliance installed in accordance with the conditions of the listing and the manufacturer's instructions.
2. Vented room heaters, wall furnaces, vented decorative appliances, vented gas fireplaces, vented gas fireplace heaters and decorative appliances for installation in vented solid fuel-burning fireplaces are installed in rooms that meet the required volume criteria of Section 304.5 of the 2018 International Fuel Gas Code.
3. A single wall-mounted unvented room heater is installed in a bathroom and such unvented room heater is equipped as specified in Section 621.6 and has an input rating not greater than 6,000 Btu/h (1.76 kW). The bathroom shall meet the required volume criteria of Section 304.5 of the 2018 International Fuel Gas Code.
4. A single wall-mounted unvented room heater is installed in a bedroom and such unvented room heater is equipped as specified in Section 621.6 and has an input rating not greater than 10,000 Btu/h (2.93 kW). The bedroom shall meet the required volume criteria of Section 304.5 of the 2018 International Fuel Gas Code.
5. The appliance is installed in a room or space that opens only into a bedroom or bathroom, and such room or space is used for no other purpose and is provided with a solid weather-stripped door equipped with an approved self-closing device. Combustion air shall be taken directly from the outdoors in accordance with Section 304.6 of the 2018 International Fuel Gas Code.
6. A clothes dryer is installed in a residential bathroom or toilet room having a permanent opening with an area of not less than 100 square inches (0.06 m^2) that communicates with a space outside of a sleeping room, bathroom, toilet room or storage closet.

Section G2415.10.1 is added to read as follows:

G2415.10.1 Insulated union at building riser. All underground metallic gas piping shall have an insulated union above ground level before the service enters the building. Where an anode bag is required, the anode lead wire shall be connected below the union.

Section G2415.13.1 is added to read as follows**:**

G2415.13.1. Gas piping in same ditch with other piping. Gas piping may be installed in the same ditch with other piping such as water, sewer, electrical, or drainage piping provided the installation is approved and a minimum of six inches of horizontal separation of the different piping systems is maintained.

Section G2415.15.1 is added to read as follows:

G2415.15.1 Future Gas Branches. Gas branches shall have a gas shut off installed and shall be capped gas tight. Branches carrying elevated pressure shall be regulated. Gas branches shall be approved.

Section G2417.4.1 is amended to read as follows**:**

G2417.4.1 Test pressure. The test pressure to be used shall be not less than one-and-one-half times the proposed maximum working pressure, irrespective of design pressure. The pressure used to test a gas piping system shall not be less than 15 PSIG with a 30 lb. test gauge. Where the test pressure exceeds 125 PSIG, the test pressure shall not exceed a value that produces a hoop stress in the piping greater than 50 percent of the specified minimum yield strength of the piping. The test duration shall be not less than 10 minutes.

CHAPTER 25. PLUMBING ADMINISTRATION

Section P2501.2 is amended to read as follows:

P2501.2 Application. In addition to the administrative provisions of this chapter the administrative sections of Chapter 42 of the Oklahoma City Municipal Code, shall also apply to the plumbing and gas requirements of Chapter 25 through 32.

CHAPTER 26. GENERAL PLUMBING REQUIREMENTS

Section P2602.1 General is modified to read as follows:

P2602.1 General. Where a potable public water main is located within 500 feet (61 meters) of a building or premises where plumbing fixtures are installed, the water system shall connect to the public main if available. Where a potable public water main is not within 500 feet (61 meters) of the building or premises or if it is not available, an individual source of potable water supply shall be utilized. Individual water supplies shall be constructed and installed in accordance with the applicable state and local laws. Sanitary drainage piping from plumbing fixtures in buildings and sanitary drainage piping systems from premises where public sewer mains are located within 500 feet (61 meters) shall be connected to a public sewer where a public sewer is not available, or a public sanitary sewer main. The sanitary drainage piping and systems shall be connected to a private sewage disposal system in compliance with state or local requirements. Where state or local requirements do not exist for private sewage disposal systems, the sanitary drainage piping and systems shall be connected to an approved private sewage disposal system that is in accordance with the International Private Sewage Disposal Code.

Exceptions:

1. Where approved by Utilities Department engineer.
2. Sanitary drainage piping and systems that convey only the discharge from bathtubs, showers, lavatories, clothes washers, and laundry trays shall not be required to connect to a public sewer or to a private sewage disposal system provided that the piping or systems are connected to a system in accordance with Section P2910 or P2911.

Section P2603.2.2 is added to read:

P2603.2.2 Construction Equipment. Construction equipment such as backhoes or bobcats, etc., shall not be permitted within a stem wall area or foundation perimeter after the plumbing system has been installed.

Exception: Construction equipment shall be permitted within said prohibited areas where such equipment does not travel over or adjacent to the plumbing system subjecting it to physical damage, provided however that the code official shall be notified prior to the work and shall verify that no damage is done to the installation. Additional testing and inspection may be required by

the code official when construction equipment has been removed and before slab work is started.

Section P2603.5.2 is hereby added to read as follows:

P2603.5.2 Additional requirements. Water, soil and waste pipes shall not be installed outside of a building, in attic or crawl spaces, concealed in exterior walls, or in any other place subject to freezing temperature unless adequate provision is made to protect pipes from freezing by insulation or heat or both. Exterior water supply system piping shall be installed below recorded frost penetration, but not less than 2-feet and 24-inches below grade.

CHAPTER 28. WATER HEATERS

Section P2801.7.1 is added to read as follows:

P2801.7.1 Stands and/or platforms. Where water heaters are required to be elevated, they shall be placed on a stand or platform that is structurally appropriate for the intended load of the water heater and its contents.

CHAPTER 29. WATER SUPPLY AND DISTRIBUTION

Section P2902.5.3.1 is added to read as follows:

P2902.5.3.1 Installation. Before a final approval is given on lawn or irrigation systems, freeze protection shall be provided for all valves and piping installed in a location subject to freezing. The installing plumbing contractor shall install a separate shut-off valve for the irrigation system in accordance with Sections 55-82-(h) of the 2010-12/16 Cumulative Annual Supplement of The Oklahoma City Municipal Code, 2010. All wiring and electrical controls shall be installed in accordance with the current National Electrical Code.

Section P2903.10.1 is added to read as follows:

P2903.10.1. Hose connected outlets. All hose connected outlets installed where there is no access to the frost-proof sillcock connection, shall be secured to the structure in an approved manner.

CHAPTER 30. SANITARY DRAINAGE

Section P3008.4 is amended to read as follows:

P3008.4 Location: Backwater valves shall be installed so that access is provided to the working parts. Backwater valve shall be a maximum of 18-inches deep below finish grade.

Exception: Extendable type backwater valves.

Section P3003.9.1 is amended to read as follows:

P3003.9.1 Mechanical joints. Mechanical joints on drainage pipe shall be made with an elastomeric seal conforming to ASTM C1173, ASTM D3212 OR CSA B602 Underground mechanical joints using an elastomeric sealing shall have a metallic shield. Mechanical joints shall not be installed in above-ground systems, unless otherwise approved. Joints shall be installed in accordance with the manufacturer's instructions.

CHAPTERS 34 THROUGH 43

Chapters 34 through 43 are not adopted.

APPENDIXES A THROUGH X

Appendixes A through X are not adopted.

ADOPTED by the City Council of The City of Oklahoma City and **SIGNED** by the Mayor this 27TH day of February ,2024.

ATTEST: **THE CITY OF OKLAHOMA CITY**

CITY CLERK

MAYOR

REVIEWED for form and legality.

ASSISTANT MUNICIPAL COUNSELOR