

Building Code Board of Appeals

Agenda

**DECEMBER 4, 2024
City Hall, Spruce Room
749 Main Street
7:00 PM**

Members of the public are welcome to attend and give comments remotely; however, the in-person meeting may continue even if technology issues prevent remote participation.

Join Zoom Meeting

<https://louisvilleco.zoom.us/j/82010792826>

Meeting ID: 820 1079 2826

One tap mobile

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Find your local number: <https://louisvilleco.zoom.us/u/kd2K8OHkqO>

The Board will accommodate public comments during the meeting. Anyone may also email comments to the Board prior to the meeting at Building@LouisvilleCO.gov.

1. Call to Order
2. Roll Call
3. Approval of Agenda
4. Public Comments on Items Not on the Agenda
5. Approval of Meeting Minutes from 11/13/24

Persons planning to attend the meeting who need sign language interpretation, translation services, assisted listening systems, Braille, taped material, or special transportation, should contact the City Clerk's Office at 303 335-4536 or MeredythM@LouisvilleCO.gov. A forty-eight-hour notice is requested.

Si requiere una copia en español de esta publicación o necesita un intérprete durante la reunión, por favor llame a la Ciudad al 303.335.4536 o 303.335.4574.

City of Louisville

*Building Division 749 Main Street Louisville CO 80027
303.335.4584 (phone) www.LouisvilleCO.gov*

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Agenda

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6. Review of Proposed Ordinance for the 2024 ICC Code Changes
7. Discussion Items for Next Meeting
8. Adjourn

Building Code Board of Appeals

Meeting Minutes

**November 13, 2024
City Hall, Council Chambers
749 Main Street
2:00pm**

Call to Order – Chairperson Christian Dino called the meeting to order at 2:02pm.

Roll Call was taken and the following members were present:

Board Members Present:

Matt Berry
Christian Dino
Mason Gatto
Peter Geise

Board Members Absent:

Steve Knapp

Staff Members Present:

Chad Root, Chief Building Official
Jenny Lane, Senior Permit Technician

Approval of Agenda –

Dino wants to add an update on the 2021 IECC code to the agenda, otherwise approved by all members present.

Approval of Meeting Minutes from 9/25/24

The minutes were approved by all members present.

Persons planning to attend the meeting who need sign language interpretation, translation services, assisted listening systems, Braille, taped material, or special transportation, should contact the City Clerk's Office at 303 335-4536 or MeredythM@LouisvilleCO.gov. A forty-eight-hour notice is requested.

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Public Comments on Items Not on the Agenda

None.

Review of Proposed Changes to the 2024 ICC Codes

Dino: error to be corrected on Page 14 (9.2) should say “ONE” instead of none.

Root:

We are discussing amendments to the 2024 ICC codes, the IFC, IBC, IRC, IFGC, IMC, and IPMC, as well as the Abatement of Dangerous Buildings and the Swimming pool code/Spa code. We will not discuss the 2024 IECC.

2024 IFC code:

Tried to keep the body of the 2018 code; the city has an addendum to the 2018 IFC that will stay: More than 50 people with 2 exits will be the same.

Root: also from legacy IFC that in storage areas no stacking 18” below if there are Fire sprinklers; 24” if no Fire sprinklers.

Henderson:

- Kept a lot of the amendments (locks, latches, fire lane, etc).
- Added: graphic maps updated where fire alarm systems have been modified
- Access control system require a permit
- Valet trash – multi family – need permit: needs to be sprinklered; fire ratings for containers
- Energy storage systems – allow within building envelope however must be in garage with 1-hr fire rating or sprinkler system

Also new for 2024 added are classroom spaces and combustible decorations; Current: artwork has 50%/20% rule, the 2024 IFC adds 3 dimensional decorations and obstructions; overhead obstructions that affect sprinkler heads.

Berry:

Does this apply to public schools? **Root** also commented that the State has requested City of Louisville to take over public school code and review but due to resources the City cannot do it at this time.

Henderson

Not public schools, just daycares and private schools

ESS SYSTEMS

Dino:

- Remove wording that pushes the ESS systems to the exterior of building.
- Cold temperatures and other issues can cause damage to batteries if on exterior.
- Proposes if commercial structure needs to be separated using table requirements by occupancy for fire rating requirements
- Proposes for residential: push the garage as fire rated assembly and could include ESS systems. Needs to be separated from sleeping areas by 1 hour rated enclosure or assembly.
- Would a knox box work? Can it be tied into an alarm system? (**Henderson** stated that it is a good idea but can be costly to homeowners.)
- Can we classify the ESS systems as a “hazard” in the City code. For commercial version, reference the hazard rating.
-

Geise:

- Question – If there are 15 tesla powerwalls in 1 hour enclosure is there HRV/ERV in there to remove heat? Is increase in volume of batteries increasing fire hazard?
- Likes “exterior wall” requirement (**Henderson** would agree if there is an accessible route to that space)

Dino: Remove language removing it to the exterior; move the exception language to the body of the code. (Geise seconded)

Fire Sprinklers

Geise would like to get the Fire Sprinkler code back.

Root agreed, stating that with the Marshall Fire rebuilds, the Planning department has allowed 10% variance which puts buildings closer together. Also energy code requires continuous foam insulation, modern construction – I-joists etc are manufactured products that burn faster than dimensional lumber. Fire Sprinklers were added to the City code in about 2008, and since then other neighboring jurisdictions have adopted it. Louisville removed it after the Marshall Fire to reduce cost to rebuild.

Berry is concerned that a basic remodel would require Fire Sprinklers, added cost and retrofit.

Root: depends on scope; if demo but leave three walls it is a remodel, two or more walls removed it is considered “new”.

Dino is concerned about risk of water damage from head failures, etc. Berry stated he has seen water damage from when initial system is initially charged and causes water damage. Would like to recommend an incentive or trade off rather than “requirement” across the board.

John Wilson (Louisville Fire Chief): has not seen broken sprinkler head failure, due to negligent damage. Insulation is better; pipes do not freeze as before. 3-5 gallons per minute per head. He has seen more damage from water heaters and washing machines regarding water damage overall.

Dino questioned if there is a way to notify the Fire Department when they are triggered. **Henderson:** residential is meant to save lives, not usually monitored. Homeowner is responsible for maintenance. Also heads can be recessed heads to prevent accidentally hitting the heads.

Berry questioned how often in the Chief’s time in Louisville have the sprinkler heads deployed in a fire. **Chief:** Two sprinklers deploy in about 10 years.

Root: freezes are usually the biggest issue that cause heads to freeze and break.

Dino: asked Root about homes that had Fire Sprinkler systems that leak; Root can only recall two instances where the heads leaked. One was due to cold temperatures and improper insulation when they were installed. The other was a head that was not maintained.

Gatto: what is the typical cost of sprinkler system?

Lane: Fire Sprinklers permits: \$11,000-\$25,000 among 11 permits

Henderson: Garages and unoccupied spaces such as attics do not have to be sprinklered, in addition to other exceptions.

Root: If units are explicitly separated then no sprinklers required. Units above and below will require sprinklers (condo) and/or utilities are stacked and run through all the units, then would require sprinklers.

Berry: want to be compatible with other jurisdictions;

Henderson: neighboring jurisdictions do have this requirement, does not have precise list. She believes “as written” code has been adopted. She will research and provide data on other municipalities requirements’. Sprinklers allows the Fire Department to do effective search and rescue as well as allowing time to exit the building in a fire.

Root: multiple homes or entire neighborhoods need to be sprinklered in order to achieve three foot setbacks, otherwise not as effective or usually allowed. 1 and 2 family dwellings is required. Tri plex or above does NOT require.

Root explains that in his experience with Fire Sprinklers that have triggered during a fire, he has seen that that they succeeded in getting people out, but also helped put most of the fire out which in turn helped save the structure.

Berry referenced data from the Home Builders association that they suggest deleting R309.1 – townhouse sprinklers and R309.2 – one and two family dwellings. We are looking at a code that is so new there is no errata to compare.

Root referenced the direct language from the 2024 IRC:

R309.1 Townhouse automatic sprinkler systems. An automatic sprinkler system shall be installed in townhouses. Exception: an automatic sprinkler system shall not be required where additions or alterations are made to existing townhouses that do not have a automatic sprinkler system installed.

R309.2 One and Two Family dwellings automatic sprinkler systems. An automatic sprinkler system shall be installed in one- and two- family dwellings.

Exception: An automatic sprinkler system shall not be required for additions or alterations to existing buildings that are not already provided with a sprinkler system.

Root further explained that a row of homes that are attached but separated by a fire wall would not be subject to the IBC code since each unit would provide the ability for people to exit in a fire. When units are stacked, then it falls under the IBC.

Root: suggested to read over it regroup and discuss again. Goal to bring to City Council for adoption, except the 2024 IECC. He would like to get these adopted

before the “carbon” code that is proposed for June of 2025, then the City will need to adopt the carbon code as well.

Suggestions to consider for Fire Sprinklers:

- Have wording to modify that any attached multi family res structure is mandatory for fire sprinklers. Single Fam detached can have 10% sqft increase in size and 20% decrease in setbacks by installing Fire Sprinklers.
- Only fire sprinklers for any residential structure with shared walls.
- If distanced from neighbors, then Fire Sprinklers should not be required; if close to the neighbors then they should be required.
- Exception if 25’ setback from rear lot.
- Concerns with upcoming ADU requirements.
- What about accessory structures that are on lot lines or within three feet of lot lines.

2024 IRC:

Root: wind speed will include table as referenced by Berry.

Berry: ASCE has a hazard tool; give address and it will give seismic/wind to ASCE 722 (this is in IBC); design criteria should have a link to this tool. IRC does not directly address this, but there is a footnote in the IRC... “Or you can design it per the IBC” Wind Speed - R301. Suggestion is to fill out the IRC table and it will have the snow load factored and link to tool.

Berry: wind gust map has been incorporated into the hazard tool, type in your address and it will tell you the wind speed. Snow load has also changed and Insulation requirements are so high that it factors higher.

Dino:

1504.090 – connections of decks. Would like to state that “where this section of code competes with requirements for continuous insulation in the IECC code, this section shall govern.”

1505.140 - amended decks – states the requirement for decks that are structurally supported from an existing home shall be engineered by a structural engineer licensed in the State of Colorado, Dino would like to add an exception for low-height decks, maybe 30 inches; risk of failure is minimal and saves costs for homeowner.

Geise also pointed out the amended changes in fire hardening code in relation to flame spread, etc.

Berry leave 507.1 as written; just state that if 30 inches or greater need to be designed by a licensed engineer.

Geise – ventilation needs to change to 1/8”

Root will match up the Fire Hardening Code with the 2024 ICC codes.

Geise – can we reference UL listings? **Root** – we can “list” it but not mandate a specific company-type listing. It must be a credible lab that creates the listing type.

Update on 2021 IECC proposed changes

Root: Rob Zuccaro (Director of Community Development) hired a consultant to look at the energy code changes to make sure the City is not in violation with the State code. The City may be in violation with pre-emption with gas appliances greater than 80%, since Federal standards are 80%. Also with the “all electric” requirements might also be in violation. City needs to consult with the City Attorney first. Also match up the numbering so it matches with the energy code. Appendix RC would be removed.

Discussion Items for Next Meeting

Look over the ICC 2024 codes (except the IFC) and regroup in more detail in December.

ESS systems

Fire Sprinklers

Update on 2021 IECC.

Adjourn – The meeting was adjourned at 4:28pm.

ORDINANCE NO. _____

AN ORDINANCE ADOPTING BY REFERENCE THE 2024 INTERNATIONAL BUILDING CODE, 2024 INTERNATIONAL RESIDENTIAL CODE, 2024 INTERNATIONAL MECHANICAL CODE, 2024 INTERNATIONAL FUEL GAS CODE, 2024 INTERNATIONAL FIRE CODE, 2024 INTERNATIONAL EXISTING BUILDING CODE, 2024 INTERNATIONAL PLUMBING CODE, 2024 INTERNATIONAL PROPERTY MAINTENANCE CODE, 2024 INTERNATIONAL SWIMMING POOL AND SPA CODE ALL OF THE FIRST PRINTING, 1997 UNIFORM CODE FOR THE ABATEMENT OF DANGEROUS BUILDINGS AND THE 1997 UNIFORM HOUSING CODE

WHEREAS, the City Council has adopted from time to time certain building and construction standards; and

WHEREAS, it is deemed to be in the interest of the public health, safety and general welfare to adopt by reference thereto the updated editions of the above-referenced codes; and

WHEREAS, the City Council, after proper notice as required by law, has held a public hearing on this ordinance providing for the adoption of said codes; and

WHEREAS, the updated editions of the above-referenced codes have been submitted to the City Council in writing and the City Council has determined that such codes should be adopted as herein set forth.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF LOUISVILLE, COLORADO:

Section 1. Chapter 15.04 of the Louisville Municipal Code is hereby repealed and reenacted to read as follows:

Chapter 15.04

INTERNATIONAL BUILDING CODE

Sec. 15.04.010. Adoption.

Sec. 15.04.020. Amendments to the 2024 International Building Code.

Sec. 15.04.030. Appendices adopted.

Sec. 15.04.040. Section 101.1 amended—Title.

Sec. 15.04.050. Section [A]104.1 amended—General.

Sec. 15.04.060. Section [A]105.5 amended—Permit expiration.

Sec. 15.04.070. Section 1010.1.9.4 amended— Locks and latches.

Sec. 15.04.080. Section 1030.1 amended—General emergency escape and rescue.

Sec. 15.04.190. Section 1604.8.3 amended—Decks.

Sec. 15.04.100. Section 1609.3.2 added—Wind loads.

Sec. 15.04.110. Section 1608.2 amended—Ground snow loads.
Sec. 15.04.120. Section 1809.5 amended—Frost protection.
Sec. 15.04.130. Section 2704 added-Lithium Energy Storage Systems (ESS)
Sec. 15.04.140. Section 3001.1 amended— Scope.
Sec. 15.04.150. Copies available.
Sec. 15.04.160. Violations and penalties.
Sec.15.04.170. Fireplace Installation
Sec.15.04.180. Design Handbook for Downtown Louisville to apply
Sec. 15.04.190. Industrial and Commercial Development Design Standards and Guidelines to apply

Sec. 15.04.010.- Adoption.

The International Building Code, 2024 Edition, published by the International Code Council, 4051 West Flossmoor Road, Country Club Hills, Illinois, 60478, is hereby adopted by reference thereto and incorporated into and made a part of the Louisville Municipal Code. The purpose and subject matter of the International Building Code include regulating construction aspects of building through comprehensive provisions and standards regulating the erection, construction, enlargement, alteration, equipping, use, height, area, and maintenance of buildings and structures and providing greater safety to the public by uniformity in building laws. Except as otherwise provided in this chapter, the International Building Code, 2024 Edition, is adopted in full, including the table of contents, index, and appendices. Any reference to the International Building Code within this chapter shall be to the 2024 Edition of such code.

Sec. 15.04.020. – Amendments to the 2024 International Building Code.

The following amendments set forth in sections 15.04.040 through 15.04.140 are made to the 2024 International Building Code.

Sec. 15.04.030. - Appendices adopted.

The following appendices of the 2024 International Building Code are hereby specifically adopted; any appendices not listed are not adopted:

Appendix C, Group U – Agricultural Buildings; Appendix F, Rodent proofing; Appendix I, Patio Covers; Appendix J, Grading; Appendix K, Administrative Provisions; Appendix N, Replicable Buildings and Appendix P, Sleeping Lofts

Sec. 15.04.040. - Section [A]101.1 amended—Title.

Section [A]101.1 of the International Building Code is amended to insert "the City of Louisville" so the section will read:

[A]101.1 Title. These regulations shall be known as the Building Code of the City of Louisville, hereinafter referred to as "this code."

Sec.15.40.050.- Section [A]104.1 amended—General.

Section [A]104.1 of the International Building Code is amended to read as follows:

[A]104.1 General. The building official is hereby authorized and directed to enforce the provisions of this code. The building official shall have the authority to render interpretations of this code and other International Code Council codes and has the ability to adopt policies and procedures in order to clarify the application of their provisions. Such interpretations, policies and procedures shall be in compliance with the intent and purpose of this code. Such policies and procedures shall not have the effect of waiving requirements specifically provided for in this code but should give latitude for good science and engineering practices. Buildings shall meet the City of Louisville Fire Hardening Code.

Sec. 15.04.060. - Section [A]105.5 amended—Permit expiration.

The first paragraph of *Section [A]105.5* of the International Building Code is hereby amended to read as follows:

[A]105.5 Expiration. Except for permits for alterations involving only one discipline, every permit issued by the Building Official under the provisions of this code shall expire by limitation and become null and void if the building or work authorized by such permit is not commenced within 180 days from the date of such permit, or if the building or work authorized by such permit is suspended or abandoned at any time after the work is commenced for a period of 180 days. Every permit for alterations involving only one discipline which is issued by the Building Official under the provisions of this code shall expire by limitation and become null and void if the building or work authorized by such permit is not commenced within 90 days from the date of such permit, or if the building or work authorized by such permit is suspended or abandoned at any time after the work is commenced for a period of 90 days. Before such work can be recommenced, a new permit shall be first obtained. If new Code have been adopted the new permit will incorporate all new codes and fees. Permits are automatically extended 180 days from a passed Foundation Inspection and a Passed Framing Inspection.

Sec. 15.04.070.- Section 1010.2.4 Amended—Locks and latches.

Section 1010.2.4 of the International Building Code is amended to read as follows:

1010.2.4. Locks and Latches. Locks and latches shall be permitted to prevent operation of doors where any of the following exist. Except for Group A Occupancies shall only have Panic hardware no deadbolts or other locks are allowed on any doors in group A occupancies.

1.Places of detention or restraint.

2. In Group I-1, Condition 2 and Group I-2 occupancies where the clinical needs of persons receiving care require containment or where persons receiving care pose a security threat, provided that all clinical staff can readily unlock doors at all times, and all such locks are keying to keys carried by all clinical staff at all times or all clinical staff have the codes or other means necessary to operate the locks at all times.

3. Locking devices are permitted on doors to balconies, decks or other exterior spaces of 250 square feet (23.23m²) or less, serving a private office space.

4. In buildings in Occupancy Groups B, F, M and S, the main door or doors are permitted to be equipped with key-operated locking devices from the egress side provided:

4.1. The doors are the main exterior doors to the building, or the doors are the main doors to the tenant space.

4.2. The locking device is readily distinguishable as locked.

4.3. A readily visible durable sign is posted on the egress side on or adjacent to the door stating: THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED. The sign shall be in letters one inch (25 mm) high on a contrasting background.

4.4. The use of the key-operated locking device is revocable by the fire code official for due cause.

5. Manual bolts, automatic flush bolts and constant latching bolts on the inactive leaf of a pair of doors in accordance with Table 1010.2.4, provided that the inactive leaf does not have a doorknob, panic hardware, or similar operating hardware.

6. Single exit doors complying with Section 1006.2.1 or 1006.3.4 from individual dwelling or sleeping units of Group R occupancies and equipped with a night latch, dead bolt or security chain that requires a second releasing motion, provided that such devices are openable from the inside without the use of a key or tool.

7. Fire doors after the minimum elevated temperature has disabled the unlatching mechanism in accordance with listed fire door test procedures.

8. Doors serving roofs not intended to be occupied shall be permitted to be locked, preventing entry to the building from the roof.

9. Other than egress courts, where occupants must egress from an exterior space through the building for means of egress, exit access doors shall be permitted to be equipped with an approved locking device where installed and operated in accordance with all of the following

9.1. The maximum occupant load shall be posted where required by Section 1004.9. Such sign shall be permanently affixed inside the building and shall be posted in a conspicuous space near all the exit access doorways.

9.2. A weatherproof telephone or two-way communication system installed in accordance with Sections 1009.8.1 and 1009.8.2 shall be located adjacent to not less than one required exit access door on the exterior side.

9.3. The egress door locking device is readily distinguishable as locked and shall be key operated locking device.

9.4. A clear window or glazed door opening, not less than 5 square feet (0.46m²) in area, shall be provided at each exit access door to determine if there are occupants using the outside area.

9.5. A readily visible durable sign is posted on the egress side on or adjacent to the door stating: THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED. The sign shall be in letters one inch (25 mm) high on a contrasting background.

9.6. The occupant load of the occupied exterior area shall not exceed 49 occupants in accordance with Section 1004.

10. Locking devices are permitted on doors to balconies, decks or other exterior spaces serving individual dwelling or sleeping units.

Sec.15.04.080.- Section 1031.1 Amended—General emergency escape and rescue.

Section 1030.1 of the International Building Code is amended to read as follows:

1030.1 General. In addition to the means of egress required by this chapter, emergency escape and rescue openings shall be provided in the following occupancies:

1. Group R-2 occupancies located in stories with only one exit or access to only one exit as permitted by Tables 1006.3.4(1) and 1006.3.4(2).

2. Group R-3 and R-4 occupancies. Basements and sleeping rooms below the fourth story above grade plane shall have not fewer than one exterior emergency escape and rescue opening in accordance with this section. Where basements contain one or more sleeping rooms, emergency escape and rescue openings shall be required in each sleeping room, but also be required in adjoining areas of the basement. Such openings shall open directly into a public way or to a yard or court that opens to a public way.

3. Exceptions: Basements with a ceiling height of less than 80 inches (2032 mm) shall not be required to have emergency escape and rescue openings. Emergency escape and rescue openings are not required from basements or sleeping rooms that have an exit door or exit access door that opens directly into a public way or to a yard, court or exterior exit balcony that opens to a public way. Basements without habitable spaces and having not more than 200 square feet (18.6 m²) in floor area shall not be required to have emergency escape and rescue openings.

Sec.15.04.090.- Section 1604.8.3 amended—Decks.

Section 1604.8.3 of the International Building Code is amended to read as follows:

1604.8.3 Decks. Decks that are structurally supported from an existing structure shall be engineered by a structural engineer that is licensed with the State of Colorado and designed to meet the Louisville Fire Hardening Code. Where supported by attachment to an exterior wall, decks shall be positively anchored to the primary structure and designed for both vertical and lateral loads as applicable. Such attachment shall not be accomplished by the use of toenails or nails subject to withdrawal. Where positive connection to the primary building structure cannot be

verified during inspection, decks shall be self-supporting. This section shall govern over the IECC to ensure proper connection of deck top structure. Connections of decks with cantilevered framing members to exterior walls or other framing members shall be designed for both of the following:

1. The reactions resulting from the dead load and live load specified in Table 1607.1, or the snow load specified in Section 1608, in accordance with Section 1605, acting on all portions of the deck.

2. The reactions resulting from the dead load and live load specified in Table 1607.1, or the snow load specified in Section 1608, in accordance with Section 1605, acting on the cantilevered portion of the deck, and no live load or snow load on the remaining portion of the deck.

Sec. 15.04.100. - Section 1609.3.2 added—Wind loads.

The following *Section 1609.3.2* is added to the 2024 International Building Code:

1609.3.2. Wind Speeds. The minimum basic wind speed for determining wind pressure shall be in accordance with this Section 1609 and the Colorado Front Range Gust Map Study ASCE 7-10.

Sec. 15.04.110. - Section 1608.2 amended—Ground snow loads.

Section 1608.2 of the International Building Code is amended by the addition of the following sentence inserted at the end of the section:

The ground and roof snow load shall be 30 pounds per square foot.

Sec. 15.04.120. - Section 1809.5 amended—Frost protection.

Item 1 of *Section 1809.5* of the International Building Code shall be amended to read as follows:

Extending 36 inches below finished grade;

Sec. 15.04.130.- Section 2704 Added- Energy Storage Systems ESS

Chapter 27 and section 2704 of the International Building Code is added and reads as follows:

2704. Lithium Energy Storage Systems (ESS).

2704.1 Lithium Energy Storage Systems (ESS). Energy storage systems shall not be installed inside the thermal building envelope of a commercial structure, primary residence, Accessory Dwelling Unit (ADU). The ESS shall be installed on the outside of the thermal envelope or in an exterior insulated shed attached or detached to the building envelope to protect from extreme heat and cold . The ESS shall have electrical disconnects within 3 to 6 ft of the ESS. Installation of an ESS in garages that are attached to a residence or ADU must have One Hour Fire rated walls and ceiling and or an approved Fire Suppression system in the garage. The ESS shall be installed on the wall farthest away from the residence inside the garage the ESS shall have a Heat detector that is tied into the Smoke detectors and shall have a flashing light on the battery with the fault.

EXCEPTION:

1. Commercial Buildings with a 1 hour rated room where mechanical ventilation is separate from the rest of the building and shall have a heat detector at each battery with a flashing light on the battery with the fault.

Sec.15.04.140.- Section 3001.1 amended—Scope.

Section 3001.1 of the International Building Code is amended to read as follows:

3001.1 Scope. This chapter governs the design, construction, installation, alteration and repair of elevators and conveying systems and their components. All elevators that serve accessible residential units shall have secondary means of power such as a generator to maintain operation while primary power is down.

15.04.150. - Copies available.

At least one copy of the 2024 International Building Code and one copy of each secondary code pertaining thereto, as amended herein, certified to be true and accurate, shall be available for public inspection at the office of the Building Safety Division, between the hours of 9:00 a.m. and 4 p.m., Monday through Friday, except holidays and days City is closed. The city clerk shall at all times maintain a reasonable supply of copies of the code available for purchase by the public at a moderate price.

Electronic copies are available, without amendment, at
<https://codes.iccsafe.org/public/collections/I-Codes>.

Sec. 15.04.160. - Violations and penalties.

It shall be unlawful for any person, firm, or corporation to erect, construct, enlarge, alter, repair, move, improve, remove, convert or demolish, equip, use, occupy or maintain any building or structure or cause or permit the work to be done, in violation of the provisions of this chapter or the terms of the code or standards adopted and incorporated in this chapter. Any person convicted of a violation of any provision of this chapter or of the provisions of the code or standards adopted and incorporated in this chapter shall be subject to the penalty provided in section 1.28.010.

Sec. 15.04.170. - Fireplace installation.

A. Any new or remodeled fireplace to be installed or constructed in any dwelling in the city shall be one of the following:

1. A gas appliance;
2. An electric device; or
3. A fireplace or fireplace insert that meets the most stringent emissions standards for wood stoves established by C.R.S. Title 25, Article 7 and the Colorado Department of Public Health and Environment Air Quality Control Commission Regulations or any other clean burning device that is approved by the Air Quality Control Commission Regulations.

B. It is unlawful for any person to install or construct any new or remodeled fireplace which does not comply with this section. Any person convicted of a violation of this section shall be subject to the penalty provided in section 1.28.010.

Sec. 15.04.180. - Design Handbook for Downtown Louisville to apply.

Any addition, remodeling, relocation, construction, or other improvement within Downtown Louisville and requiring a building permit, sign permit, or any other permit from the city shall comply with all requirements of the Design Handbook for Downtown Louisville, as adopted and amended from time to time.

Sec. 15.04.190. - Industrial and Commercial Development Design Standards and Guidelines to apply.

Any addition, remodeling, relocation, construction, or other improvement to an industrial property or project within the city and requiring a building permit, sign permit, or any other permit from the city shall comply with the requirements of City of Louisville Industrial Development Design Standards and Guidelines (IDDSG) and the Commercial Development Design Standards and Guidelines (CDDSG) as adopted and amended from time to time.

Section 2. Chapter 15.05 of the Louisville Municipal Code is hereby repealed and reenacted to read as follows:

Chapter 15.05

INTERNATIONAL RESIDENTIAL CODE

Sec. 15.05.010. Adoption.

Sec. 15.05.020. Appendices adopted.

Sec. 15.05.030. Amendments to the 2024 International Residential Code.

Sec. 15.05.040. Section R101.1 amended - Title.

Sec. 15.05.050. Section R105.2 amended - Work exempt from permit.

Sec. 15.05.060. Section R105.2.1 amended—Emergency repairs.

Sec. 15.05.070. Section R108.2 amended- Schedule of permit fees.

Sec. 15.05.080. Section 108.3 amended—Building permit valuations.

Sec. 15.05.090. Section R110.1 amended—Use and occupancy.

Sec. 15.05.100. Section R110.4 amended—Temporary certificate of occupancy.

Sec. 15.05.110. Table R301.2(1) revised. - Climate and Geography Design Table

Sec.15.05.120. Section R309.2 amended- One-Two family dwelling automatic sprinklers systems

Sec.15.05.130. Section 404.1.6 amended- Foundation Height above finished grade of non-combustible surface

Sec.15.05.140. Section R507.1 amended- Decks.

Sec. 15.05.150 Section R703.1 amended- Exterior Wall Covering

Sec. 15.05.160 Section R806 amended-Roof Ventilation

Sec. 15.05.170 Section R 902.1 Amended-Roofing Material

Sec. 15.05.180 Section R903.4 amended- Roof Drainage

Sec. 15.05.190. Section N 1101 deleted –Energy Efficiency

Sec. 15.05.200. Section M1503.3 amended--Exhaust Discharge

Sec. 15.05.210. Section G2427.4.1 amended—Plastic Piping

Sec. 15.05.220 Section M1905 Added—Energy Storage Systems

Sec. 15.05.230. Left Blank.

Sec. 15.05.240. Section P2503.5.1 amended—Rough plumbing.

Sec. 15.05.250. Section P2603.6.1 amended—Sewer depth.

Sec. 15.05.260. Section P3103.1 amended—Roof extension.

Sec. 15.05.270. Fireplace installation.

Sec. 15.05.280. Chapters 34-43 deleted.

Sec. 15.05.290. Copies available.

Sec. 15.05.300. Violations and penalties.

Sec. 15.05.010. - Adoption.

The International Residential Code for One-and-Two Family Dwellings, 2024 Edition, published by the International Code Council, 4051 West Flossmoor Road, Country Club Hills, Illinois, 60478-5795, is hereby adopted by reference thereto and incorporated into and made a part of the Louisville Municipal Code. The subject matter of the International Residential Code is to regulate and govern the construction, alteration, movement, enlargement, replacement, repair, equipment, location, removal and demolition of detached one- and two-family dwellings and multiple single family dwellings (townhouses) not more than three stories in height with separate means of egress in the City of Louisville, and providing for the issuance of permits and collection of fees therefor. Except as otherwise provided in this chapter, the International Residential Code, 2024 Edition, is adopted in full, including the table of contents, index, and appendices. Any reference to the International Residential Code within this chapter shall be to the 2024 Edition of such code. Structures shall meet the City of Louisville's Fire Hardening Code.

Sec. 15.05.020.- Appendices adopted.

The following appendices of the International Residential Code are hereby specifically adopted; any appendices not listed are not adopted: BB Tiny Houses, BC-Accessory Dwelling Units, BE-Radon Control Methods, BG-Sound Transmission, BI-Light Straw-Clay Construction, BJ-Strawbale Construction, BK- Cob Construction (Monolithic Adobe), BL-Hemp-Lime Construction (Hempcrete), BM-3D-Printed Building Construction, BN-Extended Plate wall Construction, CC-Recommendation Procedure for Safety Inspections of an Existing Appliance Installation.

Sec. 15.05.030. - Amendments to the International Residential Code.

The following amendments set forth in sections 15.05.040 through 15.05.300 are made to the International Residential Code.

Sec. 15.05.040. - Section R101.1 amended—Title.

Section R101.1 of the International Residential Code is amended to insert "the City of Louisville" so the section will read:

R101.1 Title. These provisions shall be known as the Residential Code for One- and Two-Family Dwellings of the City of Louisville and shall be cited as such and will be referred to herein as this code.

Sec. 15.05.050.- Section R105.2 amended—Work exempt from permit.

The following paragraphs are added and amended to the building portion of *Section R105.2* of the International Residential Code:

11. PERMIT NOT REQUIRED. A Building Permit will NOT be required for the renovation, remodel and/or repair of an existing single-family residence only where:

- a) The work is to be done by the owner or occupant, and
- b) The size of the structure will not be increased, and
- c) The structural members (design) i.e., foundations, underpinning, bearing, or framing, will not be altered or changed, and
- d) The scope of the work will exclude any electrical, plumbing or heating, and
- e) The TOTAL COST of labor and materials will not exceed \$2,500.00 but must follow all codes as adopted by the City of Louisville and the State of Colorado failure to do so will result in a double fee required permit.

12. Windows that are being replaced in a like for like situation with no structural changes to the building do not need a building permit. This is for only those structures that fall under the International Residential Code and are owner occupied.

Sec. 15.05.060.- Section R105.2.1 amended—Emergency repairs.

Section R105.2.1 of the International Residential Code is hereby amended to read as follows:

R105.2.1 Emergency repairs. Where repairs to a structure, equipment replacements and other repairs must be performed in an emergency situation, a permit application shall be submitted within the next working business day to the building official. During a large-scale event such as a hail or wind storm event or tornado, requirements for

roofing permits maybe deferred or suspended until as such time as a provided by the building official.

Sec. 15.05.070.- Section R108.2 amended—Schedule of permit fees.

Section R108.2 of the International Residential Code is amended to read as follows:

R108.2 Schedule of permit fees. For buildings, structures, electrical, gas, mechanical and plumbing systems or alterations requiring a permit, a fee for each permit shall be paid in accordance with a fee schedule adopted by resolution of the City Council from time to time.

Sec. 15.05.080.- Section 108.3 amended—Building permit valuations.

Section 108.3 of the International Residential Code is amended to read as follows:

108.3 Building permit valuations. The applicant for a permit shall provide an estimated permit value at time of application. Permit valuations shall include total value of work, including materials and labor, for which the permit is being issued, such as electrical, gas, mechanical, plumbing equipment and permanent systems. If, in the opinion of the building official, the valuation is underestimated on the application, the permit shall be denied, unless the applicant can show detailed estimates to meet the approval of the building official. Final building permit valuation shall be set by the building official.

Sec. 15.05.90.- Section R110.1 amended—Use and occupancy.

Section R110.1 of the International Residential Code is amended to read as follows:

R110.1 Use and occupancy.

A. No building or structure shall be used or occupied, and no change in the existing occupancy classification of a building or structure or portion thereof shall be made until the building official has issued a certificate of occupancy therefore as provided herein. Issuance of a certificate of occupancy shall not be construed as an approval of a violation of the provisions of this code or of other city ordinances. Certificates purporting to give authority to violate or cancel the provisions of this code or other city ordinances shall not be valid.

B. Exceptions:

1. Certificates of occupancy are not required for work exempt from permits under Section R105.2.

2. Cabins, agricultural and accessory buildings and miscellaneous permits shall not receive certificates of occupancy; a letter of completion will be given upon request.

Sec. 15.05.100.- Section R110.4 amended—Temporary certificate of occupancy.

Section R110.4 of the 2024 International Residential Code is amended to read as follows:

R110.4 Temporary Certificate of Occupancy. There will be a \$600 fee for a temporary certificate of occupancy if approved by the Chief Building Official. A Temporary Certificate of Occupancy shall be valid for 180 days. If a permanent Certificate of Occupancy is issued within the first 30 days, all but \$40 will be refunded. If a permanent Certificate of Occupancy is issued after the first 30 days but prior to the 180-day expiration, \$100 shall be refunded for each full 30-day period remaining out of the original 180-day validity period of the Temporary Certificate of Occupancy.

Sec. 15.05.110.- Table R301.2(1) revised.

Table R301.2(1) of the 2024 International Residential Code is filled in as follows:

Based on Colorado Front Range Gust Map Study ASCE 7-10 and 7-22.
Website

TABLE R301.2 (1)
CLIMATE AND GEOGRAPHIC DESIGN CRITERIA

GROUND SNOW LOAD	WIND DESIGN				SEISMIC DESIGN CATEGORY	SUBJECT TO DAMAGE FROM			WINTER DESIGN TEMP	ICE BARRIER UNDERLAY MENT REQUIRED	FLOOD HAZARDS	AIR FREEZING INDEX	MEAN ANNUAL TEMP
	Speed (mph)	Topographic effects	Special wind region	Windborne debris zone		Weathering	Frost line depth	Termite					
30lbs	145 mph 3 Sec Gust	B	YES	"C" Unless Proven	B	Severe -5B	36	Slight	1 Degree	Yes	2012	1000-2000	47 Degrees

MANUAL J DESIGN CRITERIA

Elevation	Latitude	Winter heating	Summer Cooling	Altitude correction factor	Indoor design temp.	Design temp. cooling	Heating temperature difference
5385	40 North	0	91	0.84	70	75	69
Cooling temperature difference	Wind velocity heating	Wind velocity cooling	Coincident wet bulb	Daily range	Winter humidity	Summer humidity	
16	15 MPH	7.5 MPH	59	High	50%	30%	

CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

Sec.15.05.120. Section R309.2 Amended- One and Two Family Dwelling Automatic Sprinkler Systems

Section R309.2 One- and Two-Family dwelling automatic sprinkler systems is amended to read as follows:

R309.2 One- and two-family dwellings automatic sprinkler systems.

An automatic sprinkler system shall be installed in one- and two-family *dwellings*.

Exception: 1. An automatic sprinkler system shall not be required for *additions* or *alterations* to *existing buildings* that are not already provided with a sprinkler system.

2. An automatic fire sprinkler system shall not be required when the home is greater than 25 feet from the property line.

Sec. 15.05.130. Section 404.1.6 amended- height above finished grade

Section 404.1.6 amended- Foundation Height above finished grade of noncombustible surface is amended to read as follows:

R404.1.6 Height above finished grade.

Concrete and masonry foundation walls shall extend above the non-combustible finished *grade* adjacent to the foundation at all points not less than 4 inches (102 mm) where *masonry veneer* is used and not less than 6 inches (152 mm) elsewhere. The noncombustible surface must extend not less than 24' from the foundation wall. To prevent Fire transfer to the house on all new construction.

Sec.15.05.140.- Section R507.1 amended—Decks.

Section R507.1 of the International Residential Code is amended to read as follows:

R507.1 Decks. Wood-framed decks shall comply with the standards set forth in this section. All decks that are structurally supported from an existing residential home shall be engineered by a structural engineer that is licensed with the State of Colorado unless deck is 30" or less above grade. All decks shall have a fire resistant decking surface with a maximum flame spread rating of 25 on the decking surface and stair risers along with fire resistant guard rails. The area under the deck must be paved/ concrete or install a min 6 mil plastic under gravel to prevent vegetation from growing under the deck. Alternative materials shall meet section 503 of the Wild Land Urban Interface Code.

Sec. 15.05.150 Section R703.1 Amended-Exterior Wall Covering

Section R703.1 of the 2024 IRC is amended to read as follows:

R703.1 General. Exterior walls shall provide the *building* with a weather-resistant exterior wall envelope. Exterior siding shall be Fire Resistant Class A or I rating with flame spread index not exceeding 25 for all new buildings and replacement or 50% or more of the siding material. The exterior wall envelope shall include flashing as described in [Section R703.4](#).

Exception:

1. Log walls designed and constructed in accordance with the provisions of [ICC 400](#).
2. Historic Structures

Sec.15.05.160 section R806 Amended- Roof Ventilation

Section R806 of the 2024 IRC is amended to read as follows:

R806.1 Ventilation required. Enclosed attics and enclosed rafter spaces formed where ceilings are applied directly to the underside of roof rafters shall have cross *ventilation* for each separate space by ventilating openings protected against the entrance of rain or snow. Ventilation openings shall have a least dimension of $\frac{1}{4}$ inch (6.4 mm) minimum and $\frac{1}{4}$ inch (6.4 mm) maximum. Ventilation openings having a least dimension larger than $\frac{1}{4}$ inch (6.4 mm) shall be provided with corrosion-resistant wire mesh with openings having a least dimension of $\frac{1}{16}$ inch (1.6 mm) minimum and $\frac{1}{8}$ inch maximum. Openings in roof framing members shall conform to the requirements of [Section R802.7](#). Required ventilation openings shall open directly to the outside air and shall be protected to prevent the entry of birds, rodents, snakes and other similar creatures.

Sec.15.05.170. Section R902.1 Amended- Roofing Material

Section R902.1 of the 2024 IRC is amended to read as follows:

R902.1 Roof Assemblies.

Roof decks shall be covered with materials as set forth in [Section R904](#) or with roof coverings as set forth in [Section R905](#). Class A roof coverings shall be installed and shall be tested in accordance with ASTM E108 or [UL 790](#). The roof assembly shall be listed and identified as to class by an approved testing agency.

Exceptions:

1. 1.Class A *roof assemblies* include those with coverings of brick, masonry and exposed concrete *roof deck*.
2. 2.Class A *roof assemblies* include ferrous or copper shingles or sheets, metal sheets and shingles, clay or concrete roof tile, or slate installed on noncombustible [roof](#) decks.
3. 3.Class A *roof assemblies* include minimum 16 ounces per square foot (4.882 kg/m²) copper sheets installed over combustible [roof](#) decks.
4. 4.Class A *roof assemblies* include slate installed over *underlayment* over combustible [roof](#) decks.

Sec. 15.05.180. section R903.4 Amended-Roof Drainage

Section R903.4 of the 2024 IRC is amended to read as follows:

R903.4 Roof drainage. Unless roofs are sloped to drain over roof edges, roof drains shall be installed at each low point of the roof. Gutters shall be metal and shall have gutter guards installed on all new and replaced gutters.

Sec. 15.05.190.- Section N1101 deleted--Energy Efficiency

Section N1101 of the 2024 International Residential Code is deleted and the City's Adopted Energy Code will be used for the Energy Efficiency for this section:

Sec. 15.05.200.- Section M1503.3— Exhaust Discharge

Chapter 15 of the 2024 International Residential Code is amended by amending *Section M1503.3*, to read as follows:

M1503.3 Exhaust discharge. Domestic cooking exhaust *equipment* shall discharge to the outdoors through a duct. The duct shall have a smooth interior surface, shall be airtight, shall be equipped with a backdraft damper and shall be independent of all other exhaust systems. Ducts serving domestic cooking exhaust *equipment* shall not terminate in an *attic* or *crawl space* or areas inside the *building*. Make up air is required for all domestic cooking exhaust equipment.

Sec15.05.210.-Section G2427.4.1 Plastic Piping.

Section G2427.4.1 of the 2024 International Residential Code is amended to read as follows:

G2427.4.1 Plastic piping. Where plastic piping is used to vent an appliance, the appliance shall be listed for use with such venting materials and the appliance manufacturer's installation instructions shall identify the specific plastic piping material. The plastic pipe venting materials shall be labeled in accordance with the product standards specific by the appliance manufacturer or shall be listed in accordance with UL 1738.

All exhaust plastic vent applications and applications that use positive pressure to push exhaust gasses thru any type of a PVC, Plastic Pipe assembly shall be pressure tested at appliance and the termination on the roof to ensure the exhaust system does not leak using either of the following methods:

1. 10 ft water column above last glued fitting
2. 5 psi of air and must be inspected to ensure it holds the pressure for 15 minutes
3. -5 psi Vacuum test shall be evacuated of air by a vacuum-type pump to achieve a uniform gauge pressure of -5 pounds per square inch of negative pressure and must hold a -5 psi for 15 minutes

Sec 15.05.220.- Section M1905---Energy Storage Systems

Chapter 15 of the 2024 International Residential Code is amended by adding Section M1905 to read as follows:

2704.2 M1905 Lithium Energy Storage Systems (ESS). Energy storage systems shall not be installed inside the thermal building envelope of a commercial structure, primary residence, Accessory Dwelling Unit (ADU). The ESS shall be installed on the outside of the thermal envelope or in an exterior insulated shed attached or detached to the building envelope to protect from extreme heat and cold . The ESS shall have electrical disconnects within 3 to 6 ft of the ESS. Installation of an ESS in garages that are attached to a residence or ADU must have One Hour Fire rated walls and ceiling and or an approved Fire Suppression system in the garage. The ESS shall be installed on the wall farthest away from the residence inside the garage the ESS shall have a Heat detector that is tied into the Smoke detectors and shall have a flashing light on the battery with the fault.

EXCEPTION:

2. Commercial Buildings with a 1 hour rated room where mechanical ventilation is separate from the rest of the building and shall have a heat detector at each battery with a flashing light on the battery with the fault.
- 1.

Sec. 15.05.230.- Left Blank.

Sec. 15.05.240.- Section P2503.5.1 amended—Rough plumbing.

Section P2503.3.1 of the 2024 International Residential Code is amended to read as follows:

P2503.5.1 Rough plumbing. DWV systems shall be tested on completion of the rough piping installation by water or by five pounds per square inch (psi) of air, or a negative of a 5 psi vacuum and shall show no evidence of leakage for a minimum of 15 minutes.

Sec. 15.05.250.- Section P2603.6.1 amended—Sewer depth.

The number "36" is inserted in two locations of *Section P2603.6.1* of the 2024 International Residential Code so that the section will read as follows:

P2603.6.1. Sewer depth. Building sewers that connect to private sewage disposal systems shall be a minimum of 36 inches below finished grade at the point of septic tank connection. Building sewers shall be a minimum of 36 inches below grade.

Sec. 15.05.260.- Section P3103.1 amended—Roof extension.

The number "12" is inserted in two locations of *Section P3103.1* of the 2018 International Residential Code so that the section will read as follows:

P3103.1. Roof extension. All open vent pipes which extend through a roof shall be terminated at least 12 inches above the roof or 12 inches above the anticipated snow accumulation, except that where a roof is to be used for any purpose other than weather protection, the vent extensions shall be run at least 7 feet (2134 mm) above the roof.

Sec. 15.05.270.- Fireplace installation.

A. Any new or remodeled fireplace to be installed or constructed in any dwelling in the city shall be one of the following:

1. A gas appliance.
2. An electric device; or
3. A fireplace or fireplace insert that meets the most stringent emissions standards for wood stoves established by C.R.S. Title 25, Article 7 and the Colorado Department of Public Health and Environment Air Quality Control Commission Regulations or any other clean burning device that is approved by the Air Quality Control Commission Regulations.

B. It is unlawful for any person to install or construct any new or remodeled fireplace which does not comply with this section. Any person convicted of a violation of this section shall be subject to the penalty provided in section 1.28.010.

Sec. 15.05.280.- Chapters 34-43 deleted.

Chapters 34 through 43 of the 2024 International Residential Code are hereby deleted in their entirety, and replaced with the National Electrical Code, as adopted by the city.

Sec. 15.05.290.- Copies available.

At least one copy of the International Residential Code, 2024 edition, as amended herein, certified to be true and accurate, shall be available for public inspection at the office of the Building Safety Division, between the hours of 9:00 a.m. and 4 p.m., Monday through Friday, except holidays and days City is closed. The city clerk shall always maintain a reasonable supply of copies of the code available for purchase by the public at a moderate price. Electronic copies are available, without amendment, at <https://codes.iccsafe.org/public/collections/I-Codes>.

Sec. 15.05.300.- Violations and penalties.

It shall be unlawful for any person, firm, or corporation to erect, construct, enlarge, alter, repair, move, improve, remove, convert or demolish, equip, use, occupy or maintain any building or structure or cause or permit the work to be done, in violation of the provisions of this chapter or the terms of the code or standards adopted and incorporated in this chapter. Any person convicted of a violation of any provision of this chapter or of the provisions of the code or standards adopted and incorporated in this chapter shall be subject to the penalty provided in section 1.28.010.

Section 3. Chapter 15.08 of the Louisville Municipal Code is hereby repealed and reenacted to read as follows:

Chapter 15.08

2024 INTERNATIONAL MECHANICAL CODE

Sec. 15.08.010. Adoption.

Sec. 15.08.020. Amendments to the 2024 International Mechanical Code.

Sec. 15.08.030. Section 101.1 amended -Title.

Sec. 15.08.040. Section 505.4 amended-Make up air required

Sec. 15.08.050 Section 804.1.1 Added- Vent Pipe Testing

Sec. 15.08.060. Section 901 amended—Solid fuel-burning equipment.

Sec. 15.08.070. Copies available.

Sec. 15.08.080. Violations and penalties.

Sec. 15.08.010. - Adoption.

The International Mechanical Code, 2024 Edition, published by the International Code Council, 4051 West Flossmoor Road, Country Club Hills, Illinois, 60478-5795, is hereby adopted by reference thereto and incorporated into and made a part of the Louisville Municipal Code. The purpose and subject matter of the International Mechanical Code include minimum standards relating to the mechanical installations in or in connection with the construction, alteration and repair of new and existing structures including design, construction, installation, quality of materials, locations, operation, and maintenance or use of heating, ventilation, cooling refrigeration systems, incinerators and other miscellaneous heat-producing appliances. The International Mechanical Code, 2024 Edition, is adopted in full, including the outline table of contents and index; but no appendices to such code are adopted.

Sec. 15.08.020. - Amendments to the 2024 International Mechanical Code.

The following amendments set forth in sections 15.08.030 through 15.08.060 are made to the 2024 International Mechanical Code.

Sec. 15.08.030. - Section 101.1 amended—Title.

Section 101.1 of the International Mechanical Code is amended to insert "the City of Louisville" so the section will read:

101.1 Title. These regulations shall be known as the Mechanical Code of the City of Louisville, hereinafter referred to as this code.

Sec. 15.08.040.- Section 505.4 amended- Make up air required

Section 505.4. Exhaust hoods capable of exhausting air to the exterior of the building need make up air.

Sec. 15.08.050. - Section 804.1.1 added- Vent Pipe Testing

Section 804.1.1 All exhaust plastic vent applications and applications that use positive pressure to push exhaust gasses thru any type of a PVC, Plastic Pipe assembly shall be pressure tested at appliance and the termination on the roof to ensure the exhaust system does not leak using either of the following:

4. 10 ft water column above last glued fitting
5. 5 psi of air and must be inspected to ensure it holds the pressure for 15 minutes

6. -5 psi of negative pressure and must hold a -5 psi for 15 minutes

Sec. 15.08.060. - Section 901 amended—Solid fuel-burning equipment.

Section 901 of the International Mechanical Code is amended to add the following new subsection:

Section 901.5. Solid Fuel-Burning Equipment. No permit shall be issued for the installation of a solid-fuel-burning fireplace stove, fireplace insert or wood stove appliance unless the appliance fully conforms with the requirements for emission testing, certification and labeling promulgated pursuant to C.R.S. Title 25, Article 7 and the Colorado Department of Public Health and Environment Air Quality Control Commission Regulations. All such appliances to be installed must be certified by the Air Quality Control Commission to meet the emissions standards set forth in Section IV of Regulation No. 4 of Volume 1 of the state air quality control commission as EPA Phase II or Colorado Phase III solid-fuel-burning devices.

Sec. 15.08.070. - Copies available.

At least one copy of the International Mechanical Code, 2024 Edition, as amended herein, certified to be true and accurate, shall be available for public inspection at the office of the Building Safety Division, between the hours of 9:00 a.m. and 4 p.m., Monday through Friday, except holidays and days City is closed. The city clerk shall at all times maintain a reasonable supply of copies of the code available for purchase by the public at a moderate price. Electronic copies are available, without amendment, at <https://codes.iccsafe.org/public/collections/1-Codes>.

Sec. 15.08.080. - Violations and penalties.

It shall be unlawful for any person, firm, or corporation to erect, construct, enlarge, alter, repair, move, improve, remove, convert or demolish, equip, use, occupy or maintain any building or structure or cause or permit the work to be done, in violation of the provisions of this chapter or the terms of the code or standards adopted and incorporated in this chapter. Any person convicted of a violation of any provision of this chapter or of the provisions of the code or standards adopted and incorporated in this chapter shall be subject to the penalty provided in section 1.28.010.

Section 4. Chapter 15.10 of the Louisville Municipal Code is hereby repealed and reenacted to read as follows:

Chapter 15.10

2024 INTERNATIONAL FUEL GAS CODE

Sec. 15.10.010. Adoption.

Sec. 15.10.020. Amendments to the 2024 International Fuel Gas Code.

Sec. 15.10.030. Section 101.1 amended—Title.

Sec. 15.10.060. Copies available.

Sec. 15.10.070. Violations and penalties.

Sec. 15.10.010. - Adoption.

The International Fuel Gas Code, 2024 edition, published by the International Code Council, 4051 West Flossmoor Road, Country Club Hills, Illinois, 60478-5795, is hereby adopted by reference thereto and incorporated into and made a part of the Louisville Municipal Code. The purpose and subject matter of the International Fuel Gas Code include minimum standards relating to the mechanical installations in or in connection with the construction, alteration and repair of new and existing structures including design, construction, installation, quality of materials, locations, operation, and maintenance or use of fuel-gas piping systems, fuel-gas utilization equipment and related accessories. The International Fuel Gas Code, 2024 Edition, is adopted in full, including the outline table of contents and index; but no appendices to such code are adopted.

Sec. 15.10.020. - Amendments to the 2024 International Fuel Gas Code.

The following amendments set forth in sections 15.10.030 through 15.10.050 are made to the 2024 International Fuel Gas Code.

Sec. 15.10.030. - Section 101.1 amended—Title.

Section 101.1 of the International Fuel Gas Code is amended to insert "the City of Louisville" so the section will read:

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

Sec. 15.10.060. - Copies available.

At least one copy of the International Fuel Gas Code, 2024 Edition, as amended herein, certified to be true and accurate, shall be

available for public inspection at the office of the Building Safety Division, between the hours of 9:00 a.m. and 4 p.m., Monday through Friday, except holidays and days City is closed. The city clerk shall at all times maintain a reasonable supply of copies of the code available for purchase by the public at a moderate price. Electronic copies are available, without amendment, at <https://codes.iccsafe.org/public/collections/I-Codes>.

Sec. 15.10.070. - Violations and penalties.

It shall be unlawful for any person, firm, or corporation to erect, construct, enlarge, alter, repair, move, improve, remove, convert or demolish, equip, use, occupy or maintain any building or structure or cause or permit the work to be done, in violation of the provisions of this chapter or the terms of the code or standards adopted and incorporated in this chapter. Any person convicted of a violation of any provision of this chapter or of the provisions of the code or standards adopted and incorporated in this chapter shall be subject to the penalty provided in section 1.28.010.

Section 4. Chapter 15.12 of the Louisville Municipal Code is hereby repealed and reenacted to read as follows:

Chapter 15.12

INTERNATIONAL FIRE CODE

Sec. 15.12.010. Adoption.

Sec. 15.12.020. Appendices adopted.

Sec. 15.12.030. Amendments to the 2024 International Fire Code.

Sec. 15.12.040. Section 101.1 amended— Title.

Sec. 15.12.050. Section 103.1 amended- Creation of Agency

Sec. 15.12.060. Section 104.1 amended- General

Sec. 15.12.070. Section 105.5.58 added- Valet Trash

Sec. 15.12.080. Section 105.6.26 added-Access Control or Delayed Systems

Sec. 15.12.090. Section 113.4 amended— Violation Penalties

Sec. 15.12.100. Section 304.1.1- Valet Trash

Sec. 15.12.110. Section 308.1.6.7 amended—Sky lanterns.

Sec. 15.12.120. Section 315.3.1 amended— Ceiling clearance.

Sec. 15.12.130. Section 401.3.2- Alarm Activations

Sec. 15.12.140. Section 503.2.3 amended— Surface.

Sec. 15.12.150. Section 506.1 amended-- Key boxes required.

Sec. 15.12.160. Section 510.4.2.5.1 deleted- Single Supervisory Input

Sec. 15.12.170. Section 510.5.1 amended- Mounting of doner antenna(s)

Sec. 15.12.180. Section 807.5.2.2 amended- Artwork Corridors

Sec. 15.12.190. Section 807.5.2.3 amended- Artwork in Classrooms
Sec. 15.12.200. Section 807.5.5.2 amended- Art in Corridors
Sec. 15.12.210. Section 807.5.5.3 amended- Artwork in Classrooms
Sec. 15.12.220. Section 903.2.1 amended- Automatic fire Sprinklers
Sec. 15.12.230. Section 903.3.8 Deleted- Limited Area Sprinkler systems

Sec. 15.12.240. Section 903.4.3 amended- Alarms
Sec. 15.12.250. Section 907.7.4 added- Graphic Map
Sec. 15.12.260. Section 1010.1.9.4 amended— Locks and latches.
Sec. 15.12.270. section 1207 added- Lithium Energy Storage Systems (ESS)
Sec. 15.12.280. Fire lane requirements.
Sec. 15.12.290. Fire lane specifications.
Sec. 15.12.300. Placement of fire hydrants.
Sec. 15.12.310. Standards of reference.
Sec. 15.12.320. Copies available.
Sec. 15.12.330. Violations and penalties.

Sec. 15.12.010. - Adoption.

The International Fire Code, 2024 Edition, published by the International Code Council, 4051 West Flossmoor Road, Country Club Hills, Illinois, 60478-5795, is hereby adopted by reference thereto and incorporated into and made a part of this Code. The purpose and subject matter of the International Fire Code include minimum standards relating to the storage, handling, and use of hazardous substances, materials and devices, and providing greater safety and protection to the public from conditions hazardous to life or property in the occupancy of buildings or premises.

Sec. 15.12.020.- Appendices adopted.

The following appendices of the 2024 International Fire Code are hereby specifically adopted; any appendices not listed are not adopted: Appendix B, Fire-Flow Requirements for Buildings; Appendix C, Fire Hydrant Locations and Distribution; Appendix D, Fire Apparatus Access Roads; Appendix E, Hazard Categories; Appendix I, Noncompliant Conditions; Appendix O Valet Trash and Recycling Collection in R-2 Occupancies.

Sec. 15.12.030. - Amendments to the 2024 International Fire Code.

The following amendments set forth in sections 15.12.040 through 15.12.120 are made to the 2024 International Fire Code.

Sec. 15.12.040. - Section 101.1 amended—Title.

Section 101.1 of the International Fire Code is amended to insert "the City of Louisville" so that the section will read:

101.1 Title. These regulations shall be known as the Fire Code of the City of Louisville, hereinafter referred to as this code.

Sec.15.12.050.-Section 103.1 amended- Creation of Agency.

Section 103.1 of the International Fire Code is amended to read as follows:

103.1 Creation of Agency. The Louisville Fire Protection District, Fire Prevention Division and the official in charge thereof shall be known as the *fire code official*. A function of this division shall be the implementation, administration and enforcement of the provisions of the code on behalf of the City of Louisville.

Sec. 15.12.060. - Section 104.1 amended—General.

Section 104.1 of the International Fire Code is amended to read as follows:

104.1 General. The Fire Marshal and Chief Building Official are hereby authorized to enforce the provisions of this code. The Fire Marshal and Chief Building Official shall each have the authority to render interpretations of this code and to adopt policies, procedures, rules and regulations in order to clarify the application of its provisions. Such interpretations, policies, procedures, rules and regulations shall be in compliance with the intent and purpose of this code, and shall not have the effect of waiving requirements specifically provided for in this code. Structures shall meet the requirements of the City of Louisville Fire Hardening Code.

Sec. 15.12.070.- Section 105.5.58 is added—Valet Trash.

Section 105.5.58 of the International Fire Code is added and reads as follows:

105.5.58 Valet Trash. An operational permit is required for the operation of a valet trash service in all buildings within the City of Louisville.

Sec.15.12.080.- Section 105.6.26 is added—Access Control or Delayed Systems.

Section 105.6.26 Access Control or Delayed Systems of the International Fire Code is added and reads as follows:

105.6.26 Access Control or Delayed Systems. A construction permit is required to install or modify access control or delayed egress systems.

Sec. 15.12.090. - Section 113.4 amended— Violation Penalties .

Section 113.4 of the International Fire Code is deleted in its entirety and replaced with the following:

113.4 Violations Penalties. It shall be unlawful for any person, firm, or corporation to erect, construct, enlarge, alter, repair, move, improve, remove, convert or demolish, equip, use, occupy or maintain any building or structure or cause or permit the work to be done, in violation of the provisions of this chapter or the terms of the code or standards adopted and incorporated in this chapter. Any person convicted of a violation of any provision of this chapter or of the provisions of the code or standards adopted and incorporated in this chapter shall be subject to the penalty provided in section 1.28.010.

Sec.15 12.100.- Section 304.1.1-Valet Trash.

Section 304.1.1- of the International Fire Code is amended to read as follows:

304.1.1- **Valet Trash.** Valet trash collection shall be permitted only in buildings equipped with automatic sprinkler systems where approved. The owner and valet trash collection service provider shall comply with the rules and limitations established by the jurisdiction.

Sec. 15.12.110.- Section 308.1.6.7 amended—Sky lanterns.

Section 308.1.6.7 of the International Fire Code is amended to read as follows:

308.1.6.7 Sky lanterns. Sky lanterns are prohibited because of climatic conditions.

Sec. 15.12.120. - Section 315.3.1 amended—Ceiling clearance.

Section 315.3.1 of the International Fire Code is amended to read as follows:

315.3.1 Ceiling clearance. Storage shall be maintained two feet (610 mm) or more below the ceiling in non-sprinklered areas of buildings or not less than 18 inches (457 mm) below sprinkler head deflectors in

sprinklered areas of buildings. In areas with storage there shall be a red line added at 18 inches or 24 inches below the ceiling with language above the red line stating, “NO STORAGE ABOVE THIS LINE.”

Sec.15.12.130.- Section 401.3.2 amended-Alarm Activations.

Section 401.3.2 of the International Fire Code is amended to read as follows:

401.3.2. Alarm activations. Upon activation of a fire alarm signal, employees or staff shall immediately notify the fire department. In settings other than prescribed maintenance, fire notification systems are not permitted to be silenced or reset by occupants prior to fire department arrival.

Sec. 15.12.140. - Section 503.2.3 amended—Surface.

Section 503.2.3 of the International Fire Code is amended to read as follows:

Section 503.2.3. Surface. Fire apparatus access roads shall be designed and constructed of hard surface, i.e. asphalt or concrete, to withstand the weight of fire apparatus and such surfaces must be able to support the weight of the heaviest fire apparatus of the fire district serving the property. The grade of a fire apparatus access road shall not exceed seven percent. A property owner or contractor may apply to the Fire Marshal for a temporary waiver of the requirement to construct a hard surface fire apparatus access road during the construction of a land use development. The waiver request shall include an engineered plan for the alternative construction of the access road and a plan for the continued maintenance of the access road during the period of project construction. Upon completion of the project and prior to the issuance of a certificate of occupancy, any fire apparatus access road shall be constructed of permanent hard surface.

Sec.15.12.150.- Section 506.1 amended—Key Boxes required.

Section 506.1 of the International Fire Code is Amended to read as follows:

506.1. Key Boxes Required. All new commercial construction requires a key box to be installed. Where access to or within a structure or an area is restricted because of secured openings or where immediate access is necessary for life-saving or fire fighting purposes, the fire code official is authorized to require a key box to be installed in an approved location. The key box shall be of an approved type listed in accordance with UL 1037, and shall contain keys to gain necessary access as required by the Fire Code Official.

Sec.15.12.160.- Section 510.4.2.5.1-Single Supervisory Input

Section 510.4.2.5.1- of the International Fire Code has been deleted entirety

Sec. 15.12.170.- Section 510.5.1 – Mounting of the doner antenna(s)

Section 510.5.1 of the International Fire Code is amended to read as follows:

510.5.1. Mounting of doner antenna(s). To maintain proper alignment with the system design donor site, donor antennas shall be permanently affixed on the building. The antenna installation shall be in accordance with the applicable requirements in the *International Building Code* for weather protection of the building envelope.

Sec.15.12.180.- Artwork in Corridors.

Section 807.5.2.2 of the International Fire Code is amended to read as follows:

807.5.2.2. Artwork in Corridors. Artwork and teaching materials shall be limited on the walls of corridors to not more than 20 percent of the wall area. Three-dimensional artwork made of combustible materials and hanging decorations the impact the fire sprinkler system or create a hazard for first responders are prohibited.

Sec.15.12.190. – Section 807.5.2.3 amended—Artwork in Classrooms.

Section 807.5.2.3 of the International Fire Code is amended to read as follows:

807.5.2.3. Artwork and teaching materials shall be limited on the walls of classrooms to not more than 50 percent of the wall area. Three-dimensional artwork made of combustible materials and hanging decorations the impact the fire sprinkler system or create a hazard for first responders are prohibited.

Sec.15.12.200.-Section 807.5.5.2 amended-Art in Corridors

Section 807.5.5.3 of the International Fire Code is amended to read as follows:

807.5.5.3. *Artwork in Corridors.* Artwork and teaching materials shall be limited on the walls of corridors to not more than 20 percent of the wall area. Three-dimensional artwork made of combustible materials

and hanging decorations the impact the fire sprinkler system or create a hazard for first responders are prohibited

Sec.15.12.210.- Section 807.5.5.3 amended- Artwork in Classrooms

Section 807.5.5.3 of the International Fire Code is amended to read as follows:

807.5.5.3. Art work in Classrooms. Artwork and teaching materials shall be limited on the walls of classrooms to not more than 50 percent of the wall area. Three-dimensional artwork made of combustible materials and hanging decorations the impact the fire sprinkler system or create a hazard for first responders are prohibited

Sec. 15.12.220. – Section 903.2.1 amended—Automatic fire sprinklers.

Section 903.2.1 of the International Fire Code is amended as follows:

A. Each new commercial and residential structure is required to have a fire suppression system designed for the Occupancy Group of that structure, unless the requirement is waived by both the Chief Building Official and Fire Marshal.

B. Exceptions: U Occupancies are not required to have fire suppression systems unless they exceed 5,000 square feet.

C. This section 903.2.1 shall only apply to new construction.

Sec. 15.12.230.- Section 903.3.8 Deleted-Limited area sprinkler systems.

Section 903.3.8 of the International Fire Code is deleted in its entirety

Sec.15.12.240.- Section 903.4.3 amended-Alarms

Section 903.4.3 of the International Fire Code is amended to read as follows:

903.4.3. Alarms. Approved audible/visible notification appliances shall be provided for every building or structure with an automatic sprinkler system. Waterflow alarm devices shall be activated by water flow equivalent to the flow of a single sprinkler of the smallest orifice size installed in the system. Where a waterflow switch is required by Section 903.4.1 to be electrically supervised, such sprinkler waterflow alarm devices shall be powered by a fire alarm control unit or, where provided, a fire alarm system. Alarm devices shall be provided in the interior of the building in accordance with NFPA 72 and on the exterior of the building

in an approved location. Actuation of the automatic sprinkler system shall actuate occupant notification devices.

Exception: Automatic sprinkler systems protecting one-and two-family dwellings.

Sec.15.12.250.- section 907.7.4 added- Graphic Map

Section 907.7.4 of the International Fire Code is added to read as follows:

907.7.4. Graphic Map. A graphic map showing the locations of initiating devices with corresponding device identification information shall be provided at the fire alarm panel and annunciator panels. Modifications to system impacting the graphic map will require updating at final inspection.

Sec. 15.12.260. - Section 1010.1.9.4 amended—Locks and latches.

Section 1010.1.9.4 of the International Fire Code is amended to read as follows:

1010.1.9.4. Locks and latches shall be permitted to prevent operation of doors where any of the following exist. Except for Group A Occupancies that shall only have Panic hardware no deadbolts or other locks are allowed on any doors in group A occupancies.

1.Places of detention or restraint.

2. In Group I-1, Condition 2 and Group I-2 occupancies where the clinical needs of persons receiving care require containment or where persons receiving care pose a security threat, provided that all clinical staff can readily unlock doors at all times, and all such locks are keying to keys carried by all clinical staff at all times or all clinical staff have the codes or other means necessary to operate the locks at all times.

3. Locking devices are permitted on doors to balconies, decks or other exterior spaces of 250 square feet (23.23m²) or less, serving a private office space.

4. In buildings in Occupancy Groups B, F, M and S, the main door or doors are permitted to be equipped with key-operated locking devices from the egress side provided:

4.1. The doors are the main exterior doors to the building, or the doors are the main doors to the tenant space.

4.2. The locking device is readily distinguishable as locked.

4.3. A readily visible durable sign is posted on the egress side on or adjacent to the door stating: THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED. The sign shall be in letters one inch (25 mm) high on a contrasting background.

4.4. The use of the key-operated locking device is revocable by the fire code official for due cause.

5. Manual bolts, automatic flush bolts and constant latching bolts on the inactive leaf of a pair of doors in accordance with Table 1010.2.4, provided that the inactive leaf does not have a doorknob, panic hardware, or similar operating hardware.

6. Single exit doors complying with Section 1006.2.1 or 1006.3.4 from individual dwelling or sleeping units of Group R occupancies and equipped with a night latch, dead bolt or security chain that requires a second releasing motion, provided that such devices are operable from the inside without the use of a key or tool.

7. Fire doors after the minimum elevated temperature has disabled the unlatching mechanism in accordance with listed fire door test procedures.

8. Doors serving roofs not intended to be occupied shall be permitted to be locked, preventing entry to the building from the roof.

9. Other than egress courts, where occupants must egress from an exterior space through the building for means of egress, exit access doors shall be permitted to be equipped with an approved locking device where installed and operated in accordance with all of the following

9.1. The maximum occupant load shall be posted where required by Section 1004.9. Such sign shall be permanently affixed inside the building and shall be posted in a conspicuous space near all the exit access doorways.

9.2. A weatherproof telephone or two-way communication system installed in accordance with Sections 1009.8.1 and 1009.8.2 shall be located adjacent to not less than one required exit access door on the exterior side.

9.3. The egress door locking device is readily distinguishable as locked and shall be key operated locking device.

9.4. A clear window or glazed door opening, not less than 5 square feet (0.46m²) in area, shall be provided at each exit access door to determine if there are occupants using the outside area.

9.5. A readily visible durable sign is posted on the egress side on or adjacent to the door stating: THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED. The sign shall be in letters one inch (25 mm) high on a contrasting background.

9.6. The occupant load of the occupied exterior area shall not exceed 49 occupants in accordance with Section 1004.

10. Locking devices are permitted on doors to balconies, decks or other exterior spaces serving individual dwelling or sleeping units.

Sec. 15.12.270.- Section 1207 addition of a new section 1207.1.3 – Lithium Electrical Energy Storage Systems (ESS)

Section 1207.1.3 of the International Fire Code is added to read as follows:

2704.3 Section 1207.1.3.- Lithium Energy Storage Systems (ESS).

Energy storage systems shall not be installed inside the thermal building envelope of a commercial structure, primary residence, Accessory Dwelling Unit (ADU). The ESS shall be installed on the outside of the thermal envelope or in an exterior insulated shed attached or detached to the building envelope to protect from extreme heat and cold . The ESS shall have electrical disconnects within 3 to 6 ft of the ESS. Installation of an ESS in garages that are attached to a residence or ADU must have One Hour Fire rated walls and ceiling and or an approved Fire Suppression system in the garage. The ESS shall be installed on the wall farthest away from the residence inside the garage the ESS shall have a Heat detector that is tied into the Smoke detectors and shall have a flashing light on the battery with the fault.

EXCEPTION:

3. Commercial Buildings with a 1 hour rated room where mechanical ventilation is separate from the rest of the building and shall have a heat detector at each battery with a flashing light on the battery with the fault.

Sec. 15.12.280. - Fire lane requirements.

A. Fire lanes are required in accordance with Appendix D of the 2024 International Fire Code.

B. In addition to the requirements of Appendix D, no platted street in a multifamily, industrial, business or commercial development ending in a cul-de-sac or some other design shall exceed 300 feet in length without providing secondary fire lane access.

C. In addition to the requirements of Appendix D, no platted street in a single-family area ending in a cul-de-sac or some other design shall exceed 500 feet in length without providing secondary fire lane access.

D. In addition to the requirements of Appendix D, single-family residences which are located more than 150 feet from the closest public street right-of-way shall provide a fire lane from the street to the residence.

Sec. 15.12.290. - Fire lane specifications.

Fire lanes shall comply with the specifications in Appendix D of the International Fire Code. In addition to the requirements of Appendix D, an emergency access fire lane which is required to be installed in an area as secondary access must be as remote as possible from the main access and provide access to all parts of the development. No emergency access fire lane shall exceed 300 feet in length.

Sec. 15.12.300. - Placement of fire hydrants.

A. Fire hydrants shall be placed at each street intersection and on each side of any divided highway, roadway or street, wherever possible.

B. In a residential area, there shall be no more than 500 feet of vehicle travel distance between hydrants. No residential unit shall be more than 250 feet of vehicle travel distance from the nearest hydrant.

C. In multifamily, industrial, business or commercial areas, there shall be no more than 300 feet of vehicle travel distance between hydrants. No building shall be more than 150 feet of travel distance from the nearest hydrant.

D. All water mains serving two or more fire hydrants or two or more fire service water lines shall have a looped water distribution system with approved sectional valves being provided.

E. The barrel of a fire hydrant shall be set perpendicular to the ground or the designed final grade with the lowest discharge outlet 18 inches above grade.

F. A minimum of three feet of clearance space shall be maintained around the circumference of a fire hydrant except as otherwise required or approved by the city.

G. The minimum required residual pressure for a water supply to any given area shall be 20 pounds per square inch (psi). In the event that a minimum water pressure of 20 psi cannot be obtained in any given area,

large water mains shall be installed with closer than the required minimum spacing of fire hydrants to increase flow.

Sec. 15.12.310. - Standards of reference.

Standards of reference for the International Fire Code are:

The 2024 Edition of the International Wild Land-Urban Interface Code.

The most current edition of the NFPA Life Safety Code.

The most current edition of the NFPA Codes and Standards.

Sec. 15.12.320. - Copies available.

At least one copy of the International Fire Code, 2024 Edition, as amended herein, certified to be true and accurate, shall be available for public inspection at the office of the Building Safety Division, between the hours of 9:00 a.m. and 4 p.m., Monday through Friday, except holidays and days City is closed. The city clerk shall always maintain a reasonable supply of copies of the code available for purchase by the public at a moderate price. Electronic copies are available, without amendment, at <https://codes.iccsafe.org/public/collections/I-Codes>.

Sec. 15.12.330. - Violations and penalties.

It shall be unlawful for any person, firm, or corporation to erect, construct, enlarge, alter, repair, move, improve, remove, convert or demolish, equip, use, occupy or maintain any building or structure or cause or permit the work to be done, in violation of the provisions of this chapter or the terms of the code or standards adopted and incorporated in this chapter. Any person convicted of a violation of any provision of this chapter or of the provisions of the code or standards adopted and incorporated in this chapter shall be subject to the penalty provided in section 1.28.010.

Section 6. Title 15 of the Louisville Municipal Code is amended by the addition of a new chapter 15.14 to read as follows:

Chapter 15.14

INTERNATIONAL EXISTING BUILDING CODE

Sec. 15.14.010. Adoption.

Sec. 15.14.020. Section 101.1 amended - Title.

Sec. 15.14.030. Copies available.

Sec. 15.14.040. Violations and penalties.

Sec. 15.14.010. - Adoption.

The International Existing Building Code, 2024 Edition, published by the International Code Council, 4051 West Flossmoor Road, Country Club Hills, Illinois, 60478-5795, is hereby adopted by reference thereto and incorporated into and made a part of the Louisville Municipal Code. The subject matter of the International Existing Building Code is to regulate and govern existing buildings and installation of electrical, plumbing, mechanical, lighting, energy conservation systems and power systems in the City of Louisville and providing for the issuance of permits and collection of fees therefor. The International Existing Building Code, 2024 Edition, is adopted in full, including the outline table of contents and index; but no appendices to such code are adopted.

Sec. 15.14.020. - Section 101.1 amended—Title.

Section 101.1 of the 2024 International Existing Building Code is amended to insert "the City of Louisville" so the section will read:

101.1 Title. These regulations shall be known as the 2024 Existing Building Code of the City of Louisville, hereinafter referred to as "this code."

Sec. 15.14.030. - Copies available.

At least one copy of the International Existing Building Code, 2024 Edition, as amended herein, certified to be true and accurate, shall be available for public inspection at the office of the Building Safety Division, between the hours of 9:00 a.m. and 4 p.m., Monday through Friday, except holidays and days City is closed. The city clerk shall always maintain a reasonable supply of copies of the code available for purchase by the public at a moderate price. Electronic copies are available, without amendment, at <https://codes.iccsafe.org/public/collections/I-Codes>.

Sec. 15.14.040. - Violations and penalties.

It shall be unlawful for any person, firm, or corporation to erect, construct, enlarge, alter, repair, move, improve, remove, convert or demolish, equip, use, occupy or maintain any building or structure or cause or permit the work to be done, in violation of the provisions of this chapter or the terms of the code or standards adopted and incorporated in this chapter. Any person convicted of a violation of any provision of this

chapter or of the provisions of the code or standards adopted and incorporated in this chapter shall be subject to the penalty provided in section 1.28.010.

Section 7. Chapter 15.16 of the Louisville Municipal Code hereby repealed and reenacted to read as follows:

Chapter 15.16

2024 INTERNATIONAL PLUMBING CODE

Sec. 15.16.010. Adoption.

Sec. 15.16.020. Amendments to the 2024 International Plumbing Code.

Sec. 15.16.030. Section 101.1 amended -Title.

Sec. 15.16.060. Section 114.4 amended -Violations.

Sec. 15.16.070. Section 115.5 added—Stop work orders.

Sec. 15.16.080. Section 305.4.1 amended—Sewer depth.

Sec. 15.16. 090. Section 312.3 amended -Drainage and vent air test.

Sec. 15.16.100. Section 608.14.10 added—Testing backflow prevention assemblies.

Sec. 15.16.110. Section 903.1 amended—Roof extension.

Sec. 15.16.120. Section 1003.3.2 amended—Food waste grinders.

Sec. 15.16.130. Copies available.

Sec. 15.16.140. Violations and penalties.

Sec. 15.16.010. - Adoption.

The International Plumbing Code, 2024 Edition, published by the International Code Council, 4051 West Flossmoor Road, Country Club Hills, Illinois, 60478-5795, is adopted by reference thereto and incorporated into and made part of the Louisville Municipal Code. The purpose and subject matter of the International Plumbing Code include regulation of plumbing installations in or in connection with new and existing structures and provision of international plumbing standards for the purpose of protecting the public health, safety and general welfare. The International Plumbing Code, 2024 Edition, is adopted in full, including the outline table of contents and index; but no appendices to such code are adopted.

Sec. 15.16.020. - Amendments to the 2024 International Plumbing Code.

The following amendments set forth in sections 15.16.030 through 15.16.120 are made to the 2024 International Plumbing Code.

Sec. 15.16.030. - Section 101.1 amended—Title.

Section 101.1 of the 2024 International Plumbing Code is amended to insert "the City of Louisville" so the section will read:

101.1 Title. These regulations shall be known as the Plumbing Code of the City of Louisville, hereinafter referred to as "this code."

Sec. 15.16.060. - Section 114.4 amended—Violations.

Section 114.4 of the International Plumbing Code is deleted in its entirety and replaced with the following:

114.4 Violations. It shall be unlawful for any person, firm, or corporation to erect, construct, enlarge, alter, repair, move, improve, remove, convert or demolish, equip, use, occupy or maintain any building or structure or cause or permit the work to be done, in violation of the provisions of this chapter or the terms of the code or standards adopted and incorporated in this chapter. Any person convicted of a violation of any provision of this chapter or of the provisions of the code or standards adopted and incorporated in this chapter shall be subject to the penalty provided in section 1.28.010.

Sec. 15.16.070. - Section 115.5 added—Stop work orders.

Section 115.5 of the International Plumbing Code is added to read as follows:

Any person who shall continue any work in or about the structure after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be subject to the penalty provided in section 1.28.010.

Sec. 15.16.080. - Section 305.4.1 amended—Sewer depth.

The number "36" is inserted in two locations so that *Section 305.4.1* of the 2024 International Plumbing Code will read as follows:

305.4.1 Sewer depth. Building sewers that connect to private sewage disposal systems shall be a minimum of 36 inches below finished grade at the point of septic tank connection. Building sewers shall be a minimum of 36 inches below grade.

Sec.15.16.090.- Section 312.3 amended—Drainage and vent air test.

Section 312.3 of the International Plumbing Code is amended to read as follows:

312.3 Drainage and vent air test. Plastic piping can be tested only to five pounds per square inch (psi) for DWV plastic piping if air testing in lieu of 10 foot water test above last glued fitting.

Sec. 15.16.100. – Section 608.14.10 added—Testing backflow prevention assemblies.

A new *Section 608.14.10* is added to the 2024 International Plumbing Code, to read as follows:

608.14.10 Testing backflow Prevention Assemblies. The premises owner or responsible person shall have the backflow prevention assembly tested by a certified backflow assembly tester at the time of installation, repair, or relocation.

Sec. 15.16.110. - Section 903.1.1 amended—Roof extension.

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

903.1.1 Roof Extension. All open vent pipes that extend through a roof shall be terminated at least 12 inches above the roof, except that where a roof is to be used for any purpose other than weather protection, the vent extensions shall be run at least 7 feet above the roof. The anticipated snow depth is 6 inches.

Sec. 15.16.120. – Section 1003.3.2 amended—Food waste grinders.

Section 1003.3.2 of the International Plumbing Code is amended to read as follows:

1003.3.2 Food Waste Grinders.

A. Unless specifically required or permitted by the code official, no food waste grinder or dishwasher shall be connected to or discharge into any grease trap. Where food waste grinders connect to grease interceptors, the grease interceptor shall be sized and rated for the discharge of the food waste grinder.

B. Exception: Special regulations by the Public Works Department may supersede this requirement.

Sec. 15.16.130. - Copies available.

At least one copy of the 2024 International Plumbing Code, as amended herein, certified to be true and accurate, shall be available for public inspection at the office of the Building Safety Division, between the hours of 9:00 a.m. and 4 p.m., Monday through Friday, except holidays and days City is closed. The city clerk shall at all times maintain a reasonable supply of copies of the code available for purchase by the public at a moderate price. Electronic copies are available, without amendment, at <https://codes.iccsafe.org/public/collections/I-Codes>.

Sec. 15.16.140. - Violations and penalties.

It is unlawful for any person, firm, or corporation to erect, construct, enlarge, alter, repair, move, improve, remove, convert or demolish, equip, use, occupy or maintain any plumbing or cause or permit such work to be done, in violation of the provisions of this chapter or the terms of the code adopted and incorporated in this chapter, or to otherwise violate or fail to comply with this chapter or such code. Any person convicted of a violation of any provision of this chapter or of the provisions of the code adopted and incorporated in this chapter shall be subject to the penalty provided in section 1.28.010.

Section 8. Chapter 15.17 of the Louisville Municipal Code is hereby added and enacted to read as follows:

Chapter 15.17

INTERNATIONAL SWIMMING POOLAND SPA CODE (ISPSC)

Sec. 15.17.010. Adoption.

Sec. 15.17.020. Section 101.1 amended—Title.

Sec. 15.17.030. Copies available.

Sec. 15.17.040. Violations and penalties.

Sec. 15.17.010. - Adoption.

The International Swimming Pool and Spa Code, 2024 Edition, published by the International Code Council, 4051 West Flossmoor Road, Country Club Hills, Illinois, 60478-5795, is hereby adopted by reference thereto and incorporated into and made a part of the Louisville Municipal Code. The subject matter of the International Swimming Pool and Spa Code is to regulate and govern the requirements for the design, construction, alteration, repair and maintenance of swimming pools, spas, hot tubs and aquatic facilities. This includes public swimming pools, public spas, public exercise spas, aquatic recreation facilities, on ground storable residential pools, permanent inground residential pools, permanent residential spas. Permanent residential exercise spas, portable

residential spas and portable residential exercise spas in the City of Louisville and providing for the issuance of permits and collection of fees therefor. The International Swimming Pool and Spa Code 2024 Edition, is adopted in full, including the outline table of contents and index; but no appendices to such code are adopted.

Sec. 15.17.020. - Section 101.1 amended—Title.

Section 101.1 of the 2024 International Swimming Pool and Spa Code is amended to insert "the City of Louisville" so the section will read:

101.1 Title. These regulations shall be known as the 2024 International Swimming Pool and Spa Code of the City of Louisville, hereinafter referred to as "this code."

Sec. 15.17.030. - Copies available.

At least one copy of the International Existing Building Code, 2024 Edition, as amended herein, certified to be true and accurate, shall be available for public inspection at the office of the Building Safety Division, between the hours of 9:00 a.m. and 4 p.m., Monday through Friday, except holidays and days City is closed. The city clerk shall always maintain a reasonable supply of copies of the code available for purchase by the public at a moderate price. Electronic copies are available, without amendment, at <https://codes.iccsafe.org/public/collections/I-Codes>.

Sec. 15.17.040. - Violations and penalties.

It shall be unlawful for any person, firm, or corporation to erect, construct, enlarge, alter, repair, move, improve, remove, convert or demolish, equip, use, occupy or maintain any building or structure or cause or permit the work to be done, in violation of the provisions of this chapter or the terms of the code or standards adopted and incorporated in this chapter. Any person convicted of a violation of any provision of this chapter or of the provisions of the code or standards adopted and incorporated in this chapter shall be subject to the penalty provided in section 1.28.010.

Section 9. Chapter 15.21 of the Louisville Municipal Code hereby repealed and replaced to read as follows:

Chapter 15.21

INTERNATIONAL PROPERTY MAINTENANCE CODE

Sec. 15.21.010. Adoption.

Sec. 15.21.020. Section 101.1 amended—Title.

Sec. 15.21.030. Copies available.

Sec. 15.21.040. Violations and penalties.

Sec. 15.21.010. - Adoption.

The International Property Maintenance Code, 2024 Edition, published by the International Code Council, 4051 West Flossmoor Road, Country Club Hills, Illinois, 60478-5795, is hereby adopted by reference thereto and incorporated into and made a part of the Louisville Municipal Code. The subject matter of the International Existing Building Code is regulate and govern existing buildings and installation of electrical, plumbing, mechanical, lighting, energy conservation systems and power systems in the City of Louisville, and providing for the issuance of permits and collection of fees therefor. The International Property Maintenance Code, 2024 Edition, is adopted in full, including the outline table of contents and index; but no appendices to such code are adopted.

Sec. 15.21.020. - Section 101.1 amended—Title.

Section 101.1 of the 2024 International Property Maintenance Code is amended to insert "the City of Louisville" so that the section will read:

101.1 Title. These regulations shall be known as the 2024 Property Maintenance Code of the City of Louisville, hereinafter referred to as "this code."

Sec. 15.21.030. - Copies available.

At least one copy of the International Property Maintenance Code, 2024 Edition, as amended herein, certified to be true and accurate, shall be available for public inspection at the office of the Building Safety Division, between the hours of 9:00 a.m. and 4 p.m., Monday through Friday, except holidays and days City is closed. The city clerk shall always maintain a reasonable supply of copies of the code available for purchase by the public at a moderate price. Electronic copies are available, without amendment, at <https://codes.iccsafe.org/public/collections/1-Codes>.

Sec. 15.21.040. - Violations and penalties.

It shall be unlawful for any person, firm, or corporation to erect, construct, enlarge, alter, repair, move, improve, remove, convert or demolish, equip, use, occupy or maintain any building or structure or cause or permit the work to be done, in violation of the provisions of this chapter or the terms of the code or standards adopted and incorporated in this chapter. Any person convicted of a violation of any provision of this chapter or of the provisions of the code or standards adopted and incorporated in this chapter shall be subject to the penalty provided in section 1.28.010.

Section 10. Title 15 of the Louisville Municipal Code is hereby amended by the addition of a new chapter 15.22 to read as follows:

Chapter 15.22

1997 UNIFORM CODE FOR THE ABATEMENT OF DANGEROUS BUILDINGS

Sec. 15.22.010. Adoption.

Sec. 15.22.020. Section 101 amended Title.

Sec. 15.22.030. Copies available.

Sec. 15.22.040. Violations and penalties.

Sec. 15.22.010.- Adoption.

The Uniform Code for the Abatement of Dangerous Buildings, 1997 Edition, published by the International Code Council, 500 New Jersey Avenue, NW, 6th Floor, Washington, D.C. 20001, is hereby adopted by reference thereto and incorporated into and made a part of the Louisville Municipal Code. The subject matter of the 1997 Uniform Code for the Abatement of Dangerous Buildings is to provide the building official with proper legal steps for abating dilapidated, defective buildings which endanger life, health, property and public safety within concepts of fair play and justice in the City of Louisville, and to provide for the issuance of permits and collection of fees therefor. The Uniform Code for the Abatement of Dangerous Buildings, 1997 Edition, is adopted in full, including the outline table of contents and index; but no appendices to such code are adopted.

Sec. 15.22.020.- Section 101 amended—Title.

Section 101 of the 1997 Uniform Code for the Abatement of Dangerous Buildings is amended to read as follows:

101 Title. These regulations shall be known and may be cited as the 1997 Code for the Abatement of Dangerous Buildings of the City of Louisville. The Code Official will be considered the health officer.

Sec. 15.22.030. - Copies available.

At least one copy of the 1997 Uniform Code for the Abatement of Dangerous Buildings, as amended herein, certified to be true and accurate, shall be available for public inspection at the office of the Building Safety Division, between the hours of 9:00 a.m. and 4 p.m., Monday through Friday, except holidays and days City is closed. The Building Official shall at all times maintain a reasonable supply of copies of the code available for purchase by the public at a moderate price.

Sec. 15.22.040. - Violations and penalties.

It shall be unlawful for any person, firm, or corporation to erect, construct, enlarge, alter, repair, move, improve, remove, convert or demolish, equip, use, occupy or maintain any building or structure or cause or permit the work to be done, in violation of the provisions of this chapter or the terms of the code or standards adopted and incorporated in this chapter. Any person convicted of a violation of any provision of this chapter or of the provisions of the code or standards adopted and incorporated in this chapter shall be subject to the penalty provided in section 1.28.010.

Section 11. Chapter 15.23 of the Louisville Municipal Code is hereby added and enacted to read as follows:

Chapter 15.23

1997 UNIFORM HOUSING CODE

Sec. 15.23.010. Adoption.

Sec. 15.23.020. Section 101 amended- Title.

Sec. 15.23.030. Copies available.

Sec. 15.23.040. Violations and penalties.

Sec. 15.23.010.- Adoption.

The 1997 Uniform Housing Code, 1997 Edition, published by the International Code Council, 500 New Jersey Avenue, NW, 6th Floor, Washington, D.C. 20001, is hereby adopted by reference thereto and incorporated into and made a part of the Louisville Municipal Code. The subject matter of the 1997 Uniform Housing Code is to provide the

building official with proper legal steps to provide minimum standards to safe-guard life limb, health, property and public welfare by regulating and controlling the use and occupancy, location, and maintenance of all residential buildings and structures within the City of Louisville, and to provide for the issuance of permits and collection of fees therefor. The 1997 Uniform Housing Code, 1997 Edition, is adopted in full, including the outline table of contents and index; but no appendices to such code are adopted.

Sec. 15.23.020.- Section 101 amended—Title.

Section 101 of the 1997 Uniform Housing Code is amended to read as follows:

101 Title. These regulations shall be known and may be cited as the 1997 Uniform Housing Code for the City of Louisville. The Code Official will be considered the health officer.

Sec. 15.23.030. - Copies available.

At least one copy of the 1997 Uniform Housing Code as amended herein, certified to be true and accurate, shall be available for public inspection at the office of the Building Safety Division, between the hours of 9:00 a.m. and 4 p.m., days when the office is open to the public, holidays excepted. The Building Official shall at all times maintain a reasonable supply of copies of the code available for purchase by the public at a moderate price.

Sec. 15.23.040. - Violations and penalties.

It shall be unlawful for any person, firm, or corporation to erect, construct, enlarge, alter, repair, move, improve, remove, convert or demolish, equip, use, occupy or maintain any building or structure or cause or permit the work to be done, in violation of the provisions of this chapter or the terms of the code or standards adopted and incorporated in this chapter. Any person convicted of a violation of any provision of this chapter or of the provisions of the code or standards adopted and incorporated in this chapter shall be subject to the penalty provided in section 1.28.010.

Section 11. If any article, section, paragraph, sentence, clause, or phrase of this ordinance is held to be unconstitutional or invalid for any reason, such decision shall not affect the validity or constitutionality of the remaining portions of this ordinance. The

City Council hereby declares that it would have passed this ordinance and each part or parts hereof irrespective of the fact that any one part or parts be declared unconstitutional or invalid.

Section 12. The repeal or modification of any provision of any prior ordinance by this ordinance shall not release, extinguish, alter, modify, or change in whole or in part any penalty, forfeiture or liability, either civil or criminal, which shall have been incurred under such provision, and each provision shall be treated and held as still remaining in force for the purpose of sustaining any judgment, decree, or order which can or may be rendered, entered, or made in such actions, suits, proceedings, or prosecutions.

Section 13. All other ordinances or portions thereof inconsistent or conflicting with this ordinance or any portion hereof are hereby repealed to the extent of such inconsistency or conflict.

**INTRODUCED, READ, PASSED ON FIRST READING, AND ORDERED
PUBLISHED** this _____ day of _____, 2024.

Chris Leh, Mayor

ATTEST:

Meredyth Muth, City Clerk

APPROVED AS TO FORM:

Light | Kelly, P.C., City Attorney

PASSED AND ADOPTED ON SECOND AND FINAL READING, this _____
day of _____, 2024.

, Mayor

ATTEST:

Meredyth Muth, City Clerk