

CHAPTER IV. BUILDINGS AND CONSTRUCTION

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4-901. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, ADOPTED. There is hereby incorporated by reference that certain code known as the International Residential Code for One- and Two-Family Dwellings, 2018 edition, prepared and published in book form by the International Code Council, Inc., including appendices A, B, C, E, H, I and J, save and except such articles, sections, parts or portions as are hereafter omitted, deleted, modified or changed, or added hereto, such incorporation being authorized by K.S.A. §12-3009 through 12-3012, as amended. At least one copy of said Code shall be marked or stamped "Official copy as incorporated by Ordinance No. 2985," with all sections or portions thereof intended to be omitted or changed clearly marked to show any such omission or change and to which shall be attached a copy of this ordinance, and filed with the City Clerk to be open to inspection and available to the public at all reasonable hours.

(Ord. 2985; 01-21-20)

(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)
(Ord. 1936C; 01-22-02)

4-902. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R101.1. TITLE. Section R101.1 of the IRC is hereby amended to read as follows: **Title.** These provisions shall be known as the *Residential Code for One- and Two-family Dwellings* of the City of Leawood, Kansas, and will be referred to as this code, the IRC, or the *Residential Code* of the City of Leawood Kansas.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)
(Ord. 1936C; 01-22-02)

4-902A. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R101.2. SCOPE. Section R101.2 of the IRC is hereby amended to read as follows: **Scope.** The provisions of the International Residential Code for One- and Two-family Dwellings (as amended), and the provisions of the Leawood Development Ordinance shall apply to the construction, alteration, movement, enlargement, replacement, repair, equipment, use and occupancy, location, removal and demolition of detached one- and two-family dwellings and townhouses not more than three stories above grade plane in height with a separate means of egress and their accessory structures.

EXCEPTIONS: The following shall be permitted to be constructed in accordance with this code where provided with a residential fire sprinkler system complying with Section P2904.

1. Live/work units complying with the requirements of Section 419 of the International Building Code shall be permitted to be built as one- and two-family dwellings or townhouses.
2. Owner-occupied lodging houses with five or fewer guestrooms.
3. A care facility with five or fewer persons receiving custodial care within a dwelling unit.
4. A care facility with five or fewer persons receiving medical care within a dwelling unit.
5. A care facility for five or fewer persons receiving care that are within a single-family dwelling.

Any occupancy where fire sprinkler system requirements are specifically exempted by Kansas Statute or Administrative Regulation shall be exempt from the fire sprinkler requirements above.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)

4-903. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R102.7. EXISTING STRUCTURES. Section R102.7 of the IRC is hereby amended to read as follows: **Existing structures.** The legal occupancy of any structure existing on the date of adoption of this code shall be permitted to continue without change, except as is specifically covered in this code, the *International Fire Code* or the *Leawood Property Maintenance Code (Chapter VIII)*, or

as is deemed necessary by the building official for the general safety and welfare of the occupants and the public.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)
(Ord. 1936C; 01-22-02)

4-904. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R105.1. PERMITS, REQUIRED. Section R105.1 of the IRC is hereby amended to read as follows: **Permits, Required.** Any owner or authorized agent who intends to do work subject to this code or to otherwise construct, enlarge, alter, repair, move, shore, demolish, or change the occupancy of a building or structure, or to erect, install, enlarge, alter, repair, remove, convert or replace any electrical, gas, mechanical, plumbing, or elevator system, the installation of which is regulated by this code, or to cause any such work to be done, shall first make application to the building official and obtain the required permit.

- (A) Any such permit that will result in a new structure or exterior alteration resulting in a change in square footage of an existing structure of ten percent or more or for demolition of an existing structure shall not be issued on residential projects unless and until copies of preliminary or final plans have been submitted to any requesting Homes Association in the City of Leawood as follows:
1. Any legally constituted and existing Homes Association [including any Homeowners Association or residential Condominium Owners Association] may file a written request with the City of Leawood Building Official to receive notice of any application for permit, including applications for permits for moving buildings or changes, additions, constructions or reconstructions to the exterior of any residential home resulting in a change in square footage of ten (10) percent or more of the existing structure in their Association area or applications for demolition of an existing residential structure in the Association area. In such request, the Homes Association shall confirm that it understands any plans received by it from the City may be subject to copyright laws and actions and will be used solely for review in accordance with the applicable declarations and restrictions and will, thereafter, be destroyed. Any mailings to such Association shall be to the designated email address or physical address. By so submitting the request, the Homes Association acknowledges that it has the duty to review such plans and respond to the owner or authorized agent and also acknowledges that a failure to respond within 10 business days of the date of emailing or mailing of the preliminary plans, will be presumed to mean acceptance by the Homes Association.
 2. Any owner or authorized agent who intends to do work subject to the Leawood Building Code and requiring a permit hereunder in an Association area may:
 - (a) Submit two (2) hard copies or one (1) digital copy of preliminary plans for the project, to include elevations, materials and footprint, to the City Building Official. If a digital copy is submitted, the Building Official shall forward one (1) copy by email or regular mail to the requesting Homes Association at the address shown on the written request or as such address may be updated. In the event no digital copy is submitted, the Building Official shall forward one (1)

hard copy by regular mail to the requesting Homes Association at such address. In such case, the owner or authorized agent may submit a permit application ten (10) business days after the preliminary plans have been mailed to the requesting Association; or

- (b) Submit a permit application without first submitting the preliminary plans in accordance with subsection (b)(1) above. In such case, the Owner or Agent must submit two (2) hard copies or one (1) digital copy of the plans. If a digital copy is submitted, the Building Official shall forward one (1) copy by email or regular mail to the requesting Homes Association. In the event no digital copy is submitted, the Building Official shall forward one (1) hard copy to the requesting Association by regular mail. The Building official shall not take any action on the permit application until twenty-five (25) days have elapsed since the emailing or mailing of the permit plans to the requesting Association.

(B) Applications for a re-roofing permit on a residential structure shall meet the following additional requirements:

1. Any legally constituted and existing Homes Association [including any Homeowners Association or residential Condominium Owners Association] may file a written request with the City of Leawood Building Official to receive e-mail notice of any application for a re-roofing permit for a residential structure within its jurisdiction.
2. When an application is received for a re-roofing permit to be issued within an area governed by a requesting association, then the Building Official shall immediately notify the requesting association by e-mail of the receipt of the application and the address for the proposed permit and no permit shall be issued until two full business days after the receipt of the application.

(Ord. 3045; 06-07-21)

(Ord. 2985; 01-21-20)

(Ord. 2599C; 12-03-12)

(Ord. 2394C; 05-18-09)

(Ord. 2297C; 02-04-08)

(Ord. 1936C; 01-22-02)

4-905. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R105.2. WORK EXEMPT FROM PERMIT. Section R105.2 of the IRC is hereby amended to read as follows: **Work exempt from permit.** Exemption from permit requirements of this code shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of this code or any other laws or ordinances of this jurisdiction. Permits shall not be required for the following.

Building:

1. Retaining walls that are not over four (4) feet (1219 mm) in height measured from the bottom of the footing to the top of the wall, unless supporting a surcharge.
2. Sidewalks and driveways not more than thirty (30) inches (762 mm) above grade and not over any basement or story below and which are not part of an accessible route and are not located in the public right-of-way.

3. Painting, papering, tiling, carpeting, cabinets, counter tops and similar finish work.
4. Swings and other playground equipment accessory to one-and two-family dwellings.
5. Window awnings supported by an exterior wall that do not project more than 36 inches from the exterior wall and do not require additional support of Group R-3 and Group U occupancies.
6. Window replacement where no structural modifications are made.

Electrical:

1. Listed cord-and-plug connected temporary decorative lighting.
2. Reinstallation of attachment plug receptacles but not the outlets therefor.
3. Replacement of branch circuit overcurrent devices of the required capacity in the same location.
4. Minor repair work, including the replacement of lamps or the connection of approved portable electrical equipment to approved permanently installed receptacles.

Gas:

1. Portable heating, cooking or clothes drying appliances.
2. Replacement of any minor part that does not alter approval of equipment or make such equipment unsafe.

Mechanical:

1. Portable heating appliances.
2. Portable ventilation appliances.
3. Portable cooling units.
4. Steam, hot or chilled water piping within any heating or cooling equipment regulated by this code.
5. Replacement of any minor part that does not alter approval of equipment or make such equipment unsafe.
6. Portable evaporative coolers.
7. Self-contained refrigeration systems containing ten (10) pounds (4.54 kg) or less of refrigerant or that are actuated by motors of one (1) horsepower (746 W) or less.
8. Portable-fuel-cell appliances that are not connected to a fixed piping system and are not interconnected to a power grid.

Plumbing:

1. The stopping of leaks in drains, water, soil, waste or vent pipe; provided, however, that if any concealed trap, drainpipe, water, soil, waste or vent pipe becomes defective and it becomes necessary to remove and replace the same with new material, such work shall be considered as new work and a permit shall be obtained and inspection made as provided in this code.
2. The clearing of stoppages or the repairing of leaks in pipes, valves or fixtures, and the removal and reinstallation of water closets, provided such repairs do not involve or require the replacement or rearrangement of valves, pipes or fixtures.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)
(Ord. 1936C; 01-22-02)

4-906. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R105.3. APPLICATION FOR PERMIT. Section R105.3 of the IRC is hereby amended to read as follows:

(a) Application for permit.

To obtain a permit, the applicant shall first file an application therefore in writing on a form furnished by the building official for that purpose. Such application shall:

1. Identify and describe the work to be covered by the permit for which application is made.
2. Describe the land on which the proposed work is to be done by legal description, street address or similar description that will readily identify and definitely locate the proposed building or work.
3. Indicate the use and occupancy for which the proposed work is intended.
4. Be accompanied by construction documents and other information as required in Section R106.1.
5. State the valuation of the proposed work.
6. Be signed by the applicant, or the applicant's authorized agent.
7. Give such other data and information as required by the building official.

(b) Application for complete structure demolition permit.

To obtain a fifteen (15) day complete structure demolition permit, the applicant shall first file an application therefor in writing on a form furnished by the building official for that purpose. Such application shall provide:

1. A site plan showing the location of the building or structure to be demolished and of all existing buildings on the property. The plan shall additionally show any necessary means of pedestrian protection as required by the Leawood Building Code.
2. The location where the demolition debris will be deposited.
3. The height and the total square footage of the building.
4. Evidence of required street closure permit.
5. The name and address of the owner of the building.
6. The type of equipment or method used to demolish the building.
7. Evidence that all public utilities have been disconnected.
8. Proof of rat-abating of any building at least ten days before the demolition may be required.
9. Proof of permission from the owner to demolish the building.
10. Evidence that proper erosion control will be provided for the site during demolition as well as during seeding and final grading of site.
11. Evidence that the structure has been inspected for asbestos. If asbestos is found, evidence shall be provided to indicate how the asbestos is to be removed and where it will be disposed.
12. Site plan, which shall indicate proposed grading and seeding.

Said permit may be issued in conjunction with permit for proposed new construction.

(c) Application for partial structure or interior demolition permit.

To obtain a thirty (30) day partial structure or interior demolition permit, the applicant shall first file an application therefor in writing on a form furnished by the building official for that purpose. Such application shall provide:

1. Identify and describe the work to be covered by the permit for which application is made.

2. Describe the land on which the proposed work is to be done by legal description, street address or similar description that will readily identify and definitely locate the proposed building or work.
 3. Indicate the use and occupancy for which the proposed work is intended.
 4. Be accompanied by construction documents and other information as required by building official.
 5. State the valuation of the proposed work.
 6. Be signed by the applicant, or the applicant's authorized agent.
 7. Give such other data and information as required by the building official.
- Said permit may be issued in conjunction with permit for proposed new construction.

(Ord. 2985; 01-21-20)
 (Ord. 2599C; 12-03-12)
 (Ord. 2297C; 02-04-08)
 (Ord. 1936C; 01-22-02)

4-907. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R105.3.1. ACTION ON APPLICATION. Section R105.3.1 of the IRC is hereby amended to read as follows: **Action on Application.** The building official shall examine or cause to be examined applications for permits and amendments thereto within a reasonable time after filing. If the application or the construction documents do not conform to the requirements of pertinent laws, the building official shall reject such application in writing, stating the reasons therefore. If the building official is satisfied that the proposed work conforms to the requirements of this code and laws and ordinances applicable thereto, the building official shall issue a permit therefore as soon as practicable.

(Ord. 2985; 01-21-20)
 (Ord. 2599C; 12-03-12)
 (Ord. 2297C; 02-04-08)
 (Ord. 1936C; 01-22-02)

4-908. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R105.3.1.1 DETERMINATION OF SUBSTANTIALLY IMPROVED OR SUBSTANTIALLY DAMAGED EXISTING BUILDINGS IN FLOOD HAZARD AREAS. *Repealed.*

(Ord. 2985; 01-21-20)
 (Ord. 2599C; 12-03-12)
 (Ord. 2297C; 02-04-08)
 (Ord. 1936C; 01-22-02)

4-909. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R105.3.1.1. DETERMINATION OF SUBSTANTIALLY IMPROVED OR SUBSTANTIALLY DAMAGED EXISTING BUILDINGS IN FLOOD HAZARD AREAS. Section R105.3.1.1 of the IRC is hereby amended to read as follows: **Determination of Substantially Improved or Substantially Damaged Existing Buildings in Flood Hazard Areas.** For applications for reconstruction, rehabilitation, addition, alteration, repair or other improvement of existing buildings or structures located in an area prone to flooding as established by the most current Flood Insurance Rate Map (FIRM) and Flood Boundary and Floodway Map (FBFM) established by the Federal Emergency Management Agency. The building official shall examine or cause to be examined the construction documents and shall prepare

a finding with regard to the value of the proposed work. For buildings that have sustained damage of any origin, the value of the proposed work shall include the cost to repair the building or structure to its predamaged condition. If the building official finds that the value of proposed work equals or exceeds 50 percent of the market value of the building or structure before the damage has occurred or the improvement is started, the proposed work shall be deemed a substantial improvement and the building official shall require existing portions of the entire building or structure to meet the requirements of Section R322.

For the purpose of this determination, a substantial improvement shall mean any repair, reconstruction, rehabilitation, addition or improvement of a building or structure, the cost of which equals or exceeds 50 percent of the market value of the building or structure before the improvement or repair is started. Where the building or structure has sustained substantial damage, repairs necessary to restore the building or structure to its predamaged condition shall be considered substantial improvements regardless of the actual repair work performed. The term substantial improvement shall not include either of the following:

1. Improvements to a building or structure that are required to correct existing health, sanitary or safety code violations identified by the building official and that are the minimum necessary to ensure safe living conditions.
2. Any alteration of a historic building or structure, provided that the alteration will not preclude the continued designation as a historic building or structure. For the purposes of this exclusion, a historic building shall be any of the following:
 - 2.1 Listed or preliminarily determined to be eligible for listing in the National Register of Historic Places.
 - 2.2 Determined by the Secretary of the U.S. Department of Interior as contributing to the historical significance of a registered historic district or a district preliminarily determined to qualify as an historic district.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)
(Ord. 1936C; 01-22-02)

4-910. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R105.3.2. TIME LIMITATION OF APPLICATION. Section R105.3.2 of the IRC is hereby amended to read as follows: **Time limitation of application.** An application for a permit for any proposed work shall be deemed to have been abandoned one hundred eighty (180) days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding ninety (90) days each. The extension shall be requested in writing and justifiable cause demonstrated.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)
(Ord. 1936C; 01-22-02)

4-911. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R105.5. EXPIRATION. Section R105.5 of the IRC is hereby

amended to read as follows: **Expiration.** Permits shall expire as provided in Article 2 of this Chapter.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)
(Ord. 1936C; 01-22-02)

4-912. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R106.1. SUBMITTAL DOCUMENTS. Section R106.1 of the IRC is hereby amended to read as follows: **Submittal Documents.**

- (a) At least two (2) sets of construction documents, special inspection and structural observation programs and other data shall be submitted with each application for a permit. The construction documents shall be prepared by a registered design professional where required by the laws of the jurisdiction in which the project is to be constructed. Where special conditions exist, the building official is authorized to require additional construction documents to be prepared by a registered design professional.

EXCEPTION: The building official is authorized to waive the submission of construction documents and other data not required to be prepared by a registered design professional if it is found that the nature of the work applied for is such that reviewing of construction documents is not necessary to obtain compliance with this code.

- (b) **Additional Plans and Studies Necessary.** In the case of a rebuild, reconstruction or remodel of an existing residential structure, the building official shall ensure that the following requirements have been met prior to issuance of a building permit:

If the reconstruction or remodeling is adding 400 or more square feet of impervious surface to the lot, then the applicant shall provide a drainage study and/or grading plan to be reviewed and approved by the City Engineer in accordance with the following:

1. If the reconstruction or remodeling will add impervious surfaces to the lot in an amount less than or equal to 50% of the existing impervious surface on the lot, then the applicant shall provide a grading plan prepared by a licensed engineer or land surveyor depicting the grading on the subject lot and extending into adjacent lots at least 25 feet.
2. If the reconstruction or remodeling will add impervious surfaces to the lot in an amount greater than 50% of the existing impervious surface on the lot, then the applicant shall provide a grading plan as referenced above and will also submit a storm water study addressing the increase of impervious area and the potential for drainage problems or flooding of adjacent properties. The storm water study should include solutions to contain water on the subject property or by some other means to eliminate water problems on adjacent lots.

EXCEPTION. The requirement for the study may be waived if, in the opinion of the City Engineer, the grading plan shows that an increase of water or the velocity of water is directed to the City's right-of-way in accordance with other City ordinances and policies.

3. If the application pertains to a new structure being constructed after a complete demolition ["tear down"], then the applicant shall provide the drainage study and grading plan referenced above.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2334C; 08-18-08)
(Ord. 2297C; 02-04-08)
(Ord. 1936C; 01-22-02)

- 4-913. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R106.2. SITE PLAN OR PLOT PLAN.** Section R106.2 of the IRC is hereby amended to read as follows: **Site Plan or Plot Plan.** There shall be a site plan showing, to scale, the size and location of all the new construction and all existing structures on the site including easements, sewers, drains, utilities, etc., distances from lot lines, established street grades, and the proposed finished grades, and it shall be drawn in accordance with an accurate boundary line survey. All decks, balconies, overhangs, or other building protrusions shall be indicated and dimensioned. In the case of demolition, the plot plan shall show all construction to be demolished and the location and size of all existing structures and construction that are to remain on the site of the plot. Fire apparatus access roads provided and fire hydrant coverage as approved by the fire official shall be indicated as such on the site plan. The property owner or his or her agent shall certify to the building official that the top of the foundation for a building will be in conformance with the approved site plan, including building elevations, site grading, erosion control devices, and building setbacks. The building official is authorized to waive or modify the requirement for a site plan when the application for permit is for alteration or repair and does not affect the exterior features of the building.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)
(Ord. 1936C; 01-22-02)

- 4-914. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R107.1. TEMPORARY STRUCTURES AND USES, GENERAL.** Section R107.1 of the IRC is hereby amended to read as follows: **General.** The building official is authorized to issue a permit for temporary structures and temporary uses if otherwise authorized under the Code of the City of Leawood and the Leawood Development Ordinance. Such permits shall be limited in time. The building official may grant extensions for demonstrated cause.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)
(Ord. 1936C; 01-22-02)

- 4-915. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R107.2. CONFORMANCE. *Repealed.***

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)
(Ord. 1936C; 01-22-02)

4-916. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R107.3. TEMPORARY POWER. *Repealed.*

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)
(Ord. 1936C; 01-22-02)

4-917. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R108.2. SCHEDULE OF PERMIT FEES. Section R108.2 of the IRC is hereby amended to read as follows: **Schedule of permit fees.** The fees for work requiring a permit shall be as indicated in the City of Leawood Fee Schedule.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)
(Ord. 1936C; 01-22-02)

4-918. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R108.5. REFUNDS. Section R108.5 of the IRC is hereby amended to read as follows: **Refunds.** Unless specifically set forth herein, all fees paid are non-refundable. The code official may authorize refunding of any fee paid hereunder, which was erroneously paid or collected. The code official shall upon request authorize refunding of not more than eighty (80) percent of the permit fee paid when no work has been done under a permit issued in accordance with this code. The code official shall upon request authorize refunding of not more than eighty (80) percent of the plan review fee paid when an application for a permit for which a plan review fee has been paid is withdrawn or canceled before any plan reviewing is done. The code official shall not authorize refunding of any fee paid except on written application filed by the original permit holder not later than one hundred eighty (180) days after the date of fee payment.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)
(Ord. 1936C; 01-22-02)

4-919. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R109.1. TYPES OF INSPECTIONS. Section R109.1 of the IRC is hereby amended to read as follows: **Types of inspections.** For onsite construction, from time to time the building official, upon notification from the permit holder or his agent, shall make or cause to be made any necessary inspections and shall either approve that portion of the construction as completed or shall notify the permit holder or his or her agent wherein the same fails to comply with this code.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)
(Ord. 1936C; 01-22-02)

4-920. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R109.1.1. FOUNDATION INSPECTION. Section R109.1.1 of the IRC is hereby amended to read as follows: **Foundation inspection.** Inspection of the foundation shall be made after poles or piers are set or trenches or basement areas are excavated and any required forms erected and any required reinforcing steel is in place and supported prior to the placing of concrete. The foundation inspection shall include excavations for thickened slabs intended for the support of bearing walls, partitions, structural supports, or equipment and special requirements for wood foundations.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)
(Ord. 2141C; 11-21-05)
(Ord. 2416C; 10-05-09)

4-921. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R109.1.2. CONCRETE SLAB OR UNDER-FLOOR INSPECTION. Section R109.1.2 of the IRC is hereby amended to read as follows: **Concrete slab or under-floor inspection.** Concrete slab and under-floor inspections shall be made after in-slab or under-floor reinforcing steel and building service equipment, conduit, piping accessories and other ancillary equipment items are in place, but before any concrete is placed or floor sheathing installed, including the subfloor.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)

4-922. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R109.1.3. PLUMBING, MECHANICAL, GAS AND ELECTRICAL SYSTEMS INSPECTION. Section R109.1.3 of the IRC is hereby amended to read as follows: **Plumbing, mechanical, gas and electrical systems inspection.** Rough inspection of plumbing, mechanical, gas and electrical systems shall be made prior to covering or concealment, before fixtures or appliances are set or installed, and prior to framing inspection.

EXCEPTION: Back-filling of ground-source heat pump loop systems tested in accordance with Section M2105.28 prior to inspection shall be permitted.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)

4-923. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R109.1.4. FLOODPLAIN INSPECTIONS. Section R109.1.4 of the IRC is hereby amended to read as follows: **Floodplain inspections.** For construction in areas prone to flooding as established by the most current Flood Insurance Rate Map (FIRM) and Flood Boundary and Floodway Map (FBFM) established by the Federal Emergency Management Agency, upon placement of the lowest floor, including basement, and prior to further vertical construction, the building official shall require submission of documentation, prepared and sealed by a

registered design professional, of the elevation of the lowest floor, including basement, required in Section R322.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)

- 4-924. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R109.1.5. FRAME AND MASONRY INSPECTION.** Section R109.1.5 of the IRC is hereby amended to read as follows: **Frame and masonry inspection.** Inspection of framing and masonry construction shall be made after the roof, masonry, all framing, firestopping, draftstopping and bracing are in place and after the plumbing, mechanical and electrical rough inspections are approved.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)

- 4-925. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R109.1.6. ROOFING INSPECTIONS.** Section R109.1.6 of the IRC is hereby amended to read as follows: **Roofing inspections.** Roofing inspections shall be made at the mid-point of roofing installation and after roofing installation is complete.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)

- 4-926. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R109.1.7. OTHER INSPECTIONS.** A new Section R109.1.7 of the IRC is hereby added to read as follows: **Other inspections.** In addition to the called inspections above, the building official may make or require any other inspections to ascertain compliance with this code and other laws enforced by the building official.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)

- 4-927. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R109.1.7.1. FIRE-RESISTANCE-RATED CONSTRUCTION INSPECTION.** A new Section R109.1.7.1 of the IRC is hereby added to read as follows: **Fire-resistance-rated construction inspection.** Where fire-resistance-rated construction is required between dwelling units or due to location on property, the building official shall require an inspection of such construction after all lathing and/or wallboard is in place, but before any plaster is applied, or before wallboard joints and fasteners are taped and finished.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)

- 4-928. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R109.1.7.2. REINFORCED MASONRY, INSULATING CONCRETE FORM (ICF) AND CONVENTIONALLY FORMED CONCRETE WALL**

INSPECTION. A new Section R109.1.7.2 of the IRC is hereby added to read as follows: **Reinforced masonry, insulating concrete form (ICF) and conventionally formed concrete wall inspection.** Reinforced masonry walls, insulating concrete form (ICF) walls and conventionally formed concrete walls located in Seismic Design Categories D0, D1, D2, and E shall be inspected after plumbing, mechanical, and electrical systems embedded within the walls, and reinforcing steel are in place and prior to placement of grout or concrete. Inspection shall verify the correct size, location, spacing, and lapping of reinforcing. For masonry walls, inspection shall also verify that the location of grout cleanouts and size of grout spaces comply with the requirements of this code.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)

4-929. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R109.1.8. FINAL INSPECTION. A new Section R109.1.8 of the IRC is hereby added to read as follows: **Final inspection.** Final inspection shall be made after the permitted work is complete and prior to occupancy.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)

4-929A. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R109.1.8.1. ELEVATION DOCUMENTATION. A new Section R109.1.8.1 of the IRC is hereby added to read as follows: **Elevation Documentation.** If located in a flood hazard area, the documentation of elevations required in Section R322.1.10 shall be submitted to the building official prior to the final inspection.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)

4-930. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R110.1. USE AND OCCUPANCY. Section R110.1 of the IRC is hereby amended to read as follows: **Use and Occupancy.** A building or structure shall not be used or occupied, and a change of occupancy or change of use of a building or structure or portion thereof shall not be made, until the building official has issued a certificate of occupancy therefor as provided herein. Issuance of a certificate of occupancy shall not be construed as an approval of a violation of the provisions of the Leawood Building Code or of other ordinances of the City of Leawood. Certificates presuming to give authority to violate or cancel the provisions of this code or other ordinances of the jurisdiction shall not be valid.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)

4-931. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R110.3. CERTIFICATE ISSUED. Section R110.3 of the IRC is hereby amended to read as follows: **Certificate issued.** After the building official inspects the building or structure and finds no violations of the provisions of this code,

Leawood Development Ordinance, Fire Protection Code (Chapter VII), Leawood Property Maintenance Code (Chapter VIII) or other laws that are enforced by the department of building safety, the building official shall issue a certificate of occupancy which shall contain the following:

1. The building permit number.
2. The address of the structure.
3. The name and address of the owner or the owner's authorized agent.
4. A description of that portion of the structure for which the certificate is issued.
5. A statement that the described portion of the structure has been inspected for compliance with the requirements of this code.
6. The name of the building official.
7. The name of the fire official, if applicable.
8. The edition of the code under which the permit was issued.
9. If an automatic sprinkler system is provided and whether the sprinkler system is required.
10. Any special stipulations and conditions of the building permit.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)

4-932. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R110.4. TEMPORARY OCCUPANCY. Section R110.4 of the IRC is hereby amended to read as follows: **Temporary Occupancy.** The building official is authorized to issue a Temporary Certificate of Occupancy (TCO) before the completion of the entire work covered by the permit, provide that such portion or portions shall be occupied safely. The Building Official shall set a time period during which the temporary certificate of occupancy is valid, provided, however that such time period shall not exceed sixty (60) days. The Building Official is authorized to renew the Temporary Certificate of Occupancy for two (2) additional periods not exceeding sixty (60) days for each renewal.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)

4-933. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R111.3. AUTHORITY TO DISCONNECT SERVICE UTILITIES. Section R111.3 of the IRC is hereby amended to read as follows: **Authority to Disconnect Service Utilities.** The building official shall have the authority to authorize disconnection of utility service to the building, structure or system regulated by the *Leawood Building Code, Fire Protection Code (Chapter VII), or Leawood Property Maintenance Code (Chapter VIII)*, in case of emergency where necessary to eliminate an immediate hazard to life or property, or where such utility connection has been made without the approval required by Section R111.1 or R111.2. The building official shall notify the serving utility, and wherever possible the owner and occupant of the building, structure or service system of the decision to disconnect before taking such action. If not notified prior to disconnecting, the owner or occupant of the building, structure or service system shall be notified in writing, as soon as practical thereafter.

(Ord. 2985; 01-21-20)

(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)

- 4-934. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R112. BOARD OF APPEALS.** Section R112 of the IRC and each and every part thereof is hereby omitted and deleted in its entirety.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
See Section 4-105
(Ord. 2297C; 02-04-08)

- 4-935. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R113.4. VIOLATION, PENALTIES.** Section R113.4 of the IRC is hereby amended to read as follows: **Violation, Penalties.** Any person who violates a provision of this Article or this code or fails to comply with any of the requirements thereof or who erects, constructs, alters or repairs a building or structure in violation of the approved construction documents or directive of the building official is guilty of a public offense, punishable by a fine of not more than five hundred dollars (\$500) or by imprisonment not exceeding thirty (30) days or both such fine and imprisonment. Each day that the violation continues shall be deemed a separate offense.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)

- 4-936. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R114.1. NOTICE TO OWNER.** Section R114.1 of the IRC is hereby amended to read as follows: **Notice to Owner.** Upon notice from the building official that work on any building or structure is being executed contrary to the provisions of this code or any other City of Leawood Ordinances or in an unsafe and dangerous manner, such work shall be immediately stopped. The stop work order shall be in writing and shall be given to the owner of the property involved, or to the owner's agent or to the person doing the work and shall state the conditions under which work will be permitted to resume.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)

- 4-937. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, TABLE R301.2(1). CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA.** Table R301.2(1) of the IRC shall be amended to include the following information as if fully set out within the table as indicated:

- (a) Ground Snow Load: 20 pounds per square foot
- (b) Wind Design - Speed: 115 miles per hour
- (c) Wind Design - Topographic effects: No
- (d) Wind Design - Special Wind Region: No
- (e) Wind Design - Windborne Debris Zone: No
- (f) Seismic Design Category: A
- (g) Subject to Damage From - Weathering: Severe
- (h) Subject to Damage From - Frost Line Depth: 36 inches

- (i) Subject to Damage From - Termite: Moderate to Heavy
- (j) Decay: Slight to Moderate
- (k) Winter Design Temperature: Six degrees Fahrenheit
- (l) Ice Barrier Underlayment Required: Yes
- (m) Flood Hazards: Latest adopted FIRM and FBFM documents.
- (n) Air Freezing Index: 1000
- (o) Mean Annual Temperature: 55 degrees Fahrenheit

(Ord. 2985; 01-21-20)
 (Ord. 2599C; 12-03-12)
 (Ord. 2558C; 08-06-12)
 (Ord. 2297C; 02-04-08)

4-938. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R301.4. DEAD LOAD. Section R301.4 of the IRC is hereby amended to read as follows: **Dead Load.** The actual weights of materials and construction shall be used for determining dead load with consideration for the dead load of fixed service equipment, provided, however, that the following minimum dead loads shall be used in the design of building:

- (a) Floors, ceilings, decks, and balconies: 10 pounds per square foot.
- (b) Roofs: 20 pounds per square foot.

(Ord. 2985; 01-21-20)
 (Ord. 2599C; 12-03-12)
 (Ord. 2297C; 02-04-08)

4-939. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R301.9. BASEMENT REQUIRED. A new Section R301.9 of the IRC is hereby added to read as follows: **Basement Required:** All single-family detached dwellings shall be constructed with a basement.

EXCEPTIONS:

- (a) The provisions of this section shall not apply to single-family detached dwellings which are designed and constructed specifically for the use of a disabled individual and which contain a storm shelter or safe room constructed in accordance with IRC Section R323.
- (b) The provisions of this section shall not apply to single-family detached dwellings when it would be impractical to construct a basement in light of subsurface conditions verified by an engineer and when such dwellings contain a storm shelter or safe room constructed in accordance with IRC Section R323.
- (c) The provisions of this section shall not apply to the repair or reconstruction of any single-family detached dwelling, unless such dwelling is being one hundred (100) percent reconstructed.

(Ord. 2985; 01-21-20)
 (Ord. 2599C; 12-03-12)
 (Ord. 2297C; 02-04-08)

4-939A. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R302.2. TOWNHOUSES. *Repealed.*

(Ord. 2985; 01-21-20)
 (Ord. 2599C; 12-03-12)

4-939B. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R302.2.4. STRUCTURAL INDEPENDENCE. *Repealed.*

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)

4-939B1. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R302.7.1. UNDER STAIRWAY PROTECTION. A new Section R302.7.1 of the IRC is hereby added to read as follows: **Under Stairway Protection.** Under-stair surfaces of stairways shall be protected with ½-inch gypsum board.

EXCEPTIONS:

- (a) Exterior stairways.
- (b) Stairways of noncombustible materials.
- (c) Decorative and open stairways where approved by the Building Official.

(Ord. 3112; 02-20-23)
(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)

4-939C. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R303.4. MECHANICAL VENTILATION. Section R303.4 of the IRC is hereby amended to read as follows: **Mechanical Ventilation.** Where the air infiltration rate of a dwelling unit is less than three (3) air changes per hour when tested with a blower door at a pressure of 0.2 inch w.c. (50 Pa) in accordance with Section N1102.4.1.2, the dwelling unit shall be provided with whole-house mechanical ventilation in accordance with Section M1505.4.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)

4-939D. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R306.5. TOILET FACILITIES DURING CONSTRUCTION. A new Section R306.5 of the IRC is hereby added to read as follows: **Toilet Facilities During Construction.** Toilet facilities shall be provided during construction, starting from the time of the first inspection until facilities are available in the dwelling. If the facilities are not located on the job site, the location of the required facilities shall be posted at the job site and the facilities must be within 500 feet as measured from any property line of the job site or other certification provided to the Building Official to verify the availability of toilet facilities. Toilet facilities shall be placed on private property out of the right-of way, and a minimum of 10 feet from neighboring properties. The facilities on the site shall be removed prior to issuance of a Temporary Certificate of Occupancy.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)

4-940. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R310.2.4. EMERGENCY ESCAPE AND RESCUE OPENINGS UNDER DECKS AND PORCHES. Section R310.2.4 of the IRC is hereby amended to read as follows: **Emergency escape and rescue openings under decks**

and porches. Emergency escape and rescue openings installed under decks and porches shall be fully openable and provide a path not less than forty-eight (48) inches (1219 mm) in height to a yard or court.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)

4-941. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R310.7. MAXIMUM HEIGHT OF GROUP R-3 BUILDINGS. A new Section R310.7 of the IRC is hereby added to read as follows: **Maximum Height of Group R-3 Buildings.** The maximum height for Group R-3 buildings is to be determined by the Leawood Development Ordinance.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)

4-941A. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R312.3. WINDOW SILLS. A new Section R312.3 of the IRC is hereby added to read as follows: **Window Sills.** No window from a sleeping area shall have a sill height in excess of twenty five (25) feet from grade level.

EXCEPTIONS:

1. The building is equipped with an approved automatic sprinkler system.
2. In sleeping rooms, which have two separate and distinct exits, which do not share a common interior atmosphere at any point from the sleeping room to an approved exterior exit.
3. The sleeping rooms' emergency egress windows are facing the nearest approved point of fire department vehicle access and are within thirty five (35) horizontal feet of the approved point of fire department access. Note: Residential driveways are not approved fire department access points.
4. The sleeping rooms' emergency egress windows with balconies meet the following requirements:
 - (a) Balcony floor located not more than forty four (44) inches below window sill.
 - (b) Balcony shall be designed to support a sixty (60) psf live load.
 - (c) Balcony shall extend a minimum of thirty six (36) inches perpendicular to the exterior wall.
 - (d) Balcony shall extend a minimum of twelve (12) inches beyond each side of the emergency egress windows width.
 - (e) Balcony is equipped with a guard in accordance with R312.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)

4-942. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R313. AUTOMATIC FIRE SPRINKLER SYSTEMS. The entirety of Section R313 of the IRC and all sub-sections are hereby amended to read as follows: **Automatic Fire Sprinkler Systems.** Where automatic residential fire sprinkler systems for one- and two-family dwellings and townhouses are provided, they shall be designed and installed in accordance with Section P2904 or NFPA 13D Refer to Article 2 of this Chapter for fire sprinkler requirements.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)

- 4-942A. **INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R315.3. CARBON MONOXIDE ALARMS, WHERE REQUIRED IN EXISTING DWELLINGS. *Repealed.***

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)

- 4-943. **INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R321.1. PREMISES IDENTIFICATION. *Repealed.***

(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)

- 4-944. **INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R321.4. ACCEPTANCE INSPECTIONS.** A new Section R321.4 of the IRC is hereby added to read as follows: **Acceptance Inspections.** All elevator equipment shall have an acceptance inspection and test performed and approved in accordance with ASME A17.1 requirements. Prior to the issuance of a Certificate of Occupancy, a copy of this inspection shall be forwarded to the City of Leawood.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)

- 4-945. **INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R335.1. PHYSICAL SECURITY, PURPOSE.** A new Section R335.1 of the IRC is hereby added to read as follows: **SECTION R335, PHYSICAL SECURITY; R335.1 Purpose.** The purpose of this Section is to establish minimum standards that incorporate physical security to make dwelling units resistant to unlawful entry.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)

- 4-946. **INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R335.1.1. SCOPE.** A new Section R335.1.1 of the IRC is hereby added to read as follows: **Scope.** The provisions of this Section shall apply to all new structures and to additions and alterations made to existing buildings.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)

- 4-947. **INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R335.2. DOORS.** A new Section R335.2 of the IRC is hereby added to read as follows: **Doors.** Except for vehicular access doors, all exterior swinging doors of residential buildings and attached garages, including the doors

leading from the garage area into the dwelling unit, shall comply with the following for the type of door installed.

- (a) **Wood doors.** Where installed, exterior wood doors shall be of solid core construction such as high-density particleboard, solid wood, or wood block core with a minimum thickness of one and three-fourths inches (1 3/4") at any point. Doors with panel inserts shall be solid wood. The panels shall be a minimum of one inch (1") thick. The tapered portion of the panel that inserts into the groove of the door shall be a minimum of one-quarter inch (1/4") thick. The groove shall be a dado groove or applied molding construction. The groove shall be a minimum of one-half inch (1/2") in depth.
- (b) **Steel doors.** Where installed, exterior steel doors shall be a minimum thickness of 24 gauge.
- (c) **Fiberglass doors.** Fiberglass doors shall have a minimum skin thickness of one-sixteenth inch (1/16") and have reinforcement material at the location of the deadbolt.
- (d) **Double doors.** Where installed, the inactive leaf of an exterior double door shall be provided with flush bolts having an engagement of not less than one inch into the head and threshold of the doorframe.
- (e) **Sliding doors.** Where installed, exterior sliding doors shall comply with all of the following requirements:
 - (1) Sliding door assemblies shall be installed to prevent the removal of the panels and the glazing from the exterior with the installation of shims or screws in the upper track.
 - (2) All sliding glass doors shall be equipped with a secondary locking device consisting of a metal pin or a surface mounted bolt assembly. Metal pins shall be installed at the intersection of the inner and outer panels of the inside door and shall not penetrate the frame's exterior surface. The surface mounted bolt assembly shall be installed at the base of the door.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)

4-948. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R335.3. DOOR FRAMES. A new Section R335.3 of the IRC is hereby added to read as follows: **Door frames.** The exterior door frames shall be installed prior to a rough-in inspection. Door frames shall comply with the following for the type of assembly installed:

- (a) **Wood frames.** Wood door frames shall comply with all of the following requirements:
 - 1. All exterior door frames shall be set in frame openings constructed of double studding or equivalent construction, including garage doors, but excluding overhead doors. Door frames, including those with sidelights shall be reinforced in accordance with ASTM F476-84 Grade 40.
 - 2. In wood framing, horizontal blocking shall be placed between studs at the door lock height for three (3) stud spaces or equivalent bracing on each side of the door opening.
- (b) **Steel frames.** All exterior door frames shall be constructed of 18 gauge or heavier steel, and reinforced at the hinges and strikes. All steel frames shall be anchored to the wall in accordance with manufacturer specifications. Supporting wall

structures shall consist of double studding or framing of equivalent strength. Frames shall be installed to eliminate tolerances inside the rough opening.

(c) Door jambs.

1. Door jambs shall be installed with solid backing in a manner so no void exists between the strike side of the jamb and the frame opening for a vertical distance of twelve inches (12") each side of the strike. Filler material shall consist of a solid wood block.
2. Door stops on wooden jambs for in-swinging doors shall be of one-piece construction. Jambs for all doors shall be constructed or protected so as to prevent violation of the strike.

(d) Door hardware. Exterior door hardware shall comply with the following:

1. **Hinges.** Hinges for exterior swinging doors shall comply with the following:
 - A. At least two (2) screws, three inches (3") in length, penetrating at least one inch (1") into wall structure shall be used. Solid wood fillers or shims shall be used to eliminate any space between the wall structure and door frame behind each hinge.
 - B. Hinges for out-swinging doors shall be equipped with mechanical interlock to preclude the removal of the door from the exterior.
2. **Strike plates.** Exterior door strike plates shall be a minimum of 18 gauge metal with four offset screw holes. Strike plates shall be attached to wood with not less than three inch (3") screws, which shall have a minimum of one inch (1") penetration into the nearest stud. Note: For side lighted units, refer to subsection 6 below.
3. **Escutcheon plates.** All exterior doors shall have escutcheon plates or wraparound door channels installed around the lock protecting the door's edge.
4. **Locks.** Exterior doors shall be provided with a locking device complying with one of the following:

Single Cylinder Deadbolt shall have a minimum projection of one inch (1"). The deadbolt shall penetrate at least three-fourths inch (3/4") into the strike receiving the projected bolt. The cylinder shall have a twist-resistant, tapered hardened steel cylinder guard. The cylinder shall have a minimum of five (5) pin tumblers, shall be connected to the inner portion of the lock by solid metal connecting screws at least one-fourth inch (1/4") in diameter and two and one-fourth inches (2-1/4") in length. Bolt assembly (bolt housing) unit shall be of single piece construction. All deadbolts shall meet ANSI grade 2 specifications.
5. **Entry vision and glazing.** All main or front entry doors to dwelling units shall be arranged so that the occupant has a view of the area immediately outside the door without opening the door. The view may be provided by a door viewer having a field of view of not less than one hundred eighty (180) degrees through windows or through view ports.
6. **Side lighted entry doors.** Side light door units shall have framing of double stud construction or equivalent construction complying with Sections R335.3(a), (b) and (c). The doorframe that separates the door opening from the side light, whether on the latch side or the hinge side, shall be double stud construction or equivalent construction complying with Sections R335.3(a) and (b). Double stud construction or construction of equivalent strength shall exist between the glazing unit of the side light and wall structure of the dwelling.

(Ord. 2985; 01-21-20)

(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)

4-949. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R335.4. STREET NUMBERS. A new Section R335.4 of the IRC is hereby added to read as follows: **Street numbers.** Street numbers shall comply with Section R319.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)

4-950. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R335.5. EXTERIOR LIGHTING. A new Section R335.5 of the IRC is hereby added to read as follows: **Exterior Lighting.** Exterior lighting shall comply with the following:

(a) Front and street side exterior lighting. All front and street side door entrances should be protected with a minimum of one light outlet having a minimum of sixty (60) watts of lighting (or energy efficient equivalent), installed so that the light source is not readily accessible.

(b) Rear exterior lighting. Homes with windows or doors near ground level below eight feet (8') on the rear side of the house shall be equipped with a minimum of one light outlet having 100 watt lighting (or energy efficient equivalent) and shall be of the flood light type. Those fixtures placed below eight feet (8') shall be fixtures manufactured such that the light source is not readily accessible.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)

4-951. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R335.6. ALTERNATE MATERIALS AND METHODS OF CONSTRUCTION. A new Section R335.6 of the IRC is hereby added as follows: **Alternate materials and methods of construction.** The provisions of this Section are not intended to prevent the use of any material or method of construction not specifically prescribed by this Section, provided any such alternate has been approved by the enforcing authority, nor is it the intention of this Section to exclude any sound method of structural design or analysis not specifically provided for in this Section. The materials, methods of construction, and structural design limitations provided for in this Section shall be used, unless the enforcing authority grants an exception. The enforcing authority is authorized to approve any such alternate provided they find the proposed design, materials, and methods of work to be at least equivalent to those prescribed in this Section in quality, strength, effectiveness, burglary resistance, durability, and safety.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)

4-951A. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R401.3. DRAINAGE. Section R401.3 of the IRC is hereby amended to read as follows: **Drainage.** Surface drainage shall be diverted to a storm sewer conveyance or other approved point of collection so as to not create a hazard.

Lots shall be graded to drain surface water away from foundation walls. The grade shall fall a minimum of 6 inches (152 mm) within the first 10 feet (3048 mm). Gutter discharge shall not extend to a point closer than 10 feet to either adjacent property lines or the public right-of-way. Sump pump discharge shall not extend to a point closer than 15 feet to either adjacent property lines or the public right-of-way.

EXCEPTION: Where lot lines, walls, slopes or other physical barriers prohibit 6 inches (152 mm) of fall within 10 feet (3048 mm), the final grade shall slope away from the foundation at a minimum slope of 5 percent and the water shall be directed to drains or swales to ensure drainage away from the structure. Swales shall be sloped a minimum of 2 percent when located within 10 feet (3048 mm) of the building foundation. Impervious surfaces within 10 feet (3048 mm) of the building foundation shall be sloped not less than 2 percent away from the building.

EXCEPTION: Property owners may discharge water directly into the right-of-way if such owner or owners secures a right-of-way permit and otherwise complies with the requirements of Article 3 of Chapter 13 of the Code of the City of Leawood, 2000.

EXCEPTION: Gutter Discharge may be placed closer than 10 feet to the adjoining property line in cases where the side yard setback is less than 10 feet, provided that the placement is the best possible placement.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2335C; 08-18-08)

4-952. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R602.6.1. DRILLING AND NOTCHING OF TOP PLATE. Section R602.6.1 of the IRC is hereby amended to read as follows: **Drilling and notching of top plate.** When piping or ductwork is placed in or partly in an exterior wall or interior load-bearing wall, necessitating cutting, drilling or notching of the top plate by more than 50 percent of its width, a galvanized metal tie not less than 0.054 inch thick (16 ga) and one and one-half inches (1.5") wide shall be fastened across and to the plate at each side of the opening with not less than four 10d (0.148 inch diameter) nails at each side or equivalent. The metal tie must extend a minimum of six inches (6") past the opening. See Figure R602.6.1.

EXCEPTION: When the entire side of the wall with the notch or cut is covered by wood structural panel sheathing.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)

4-952A INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R801.3. ROOF DRAINAGE. Section R801.3 of the IRC is hereby amended to read as follows: **Roof Drainage.** All dwellings shall have a controlled method of water disposal from roofs that will collect and discharge roof drainage to the ground surface not less than 3 feet from foundation walls or to an approved drainage system.

(Ord. 2985; 01-21-20)

4-952B. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY

DWELLINGS, SECTION R901.1. SCOPE. Section R901.1 is hereby amended to read as follows: **Scope.** The provisions of this chapter and the Leawood Development Ordinance shall govern the design, materials, construction and quality of roof assemblies.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)

4-953. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R902.1. ROOFING COVERING MATERIALS. Section R902.1 of the IRC is hereby amended to read as follows: **Roofing Covering Materials.** Roofs shall be covered with materials authorized under the provisions of Sections R904 and R905, and the Leawood Development Ordinance, as amended. Class A roofing shall be installed in areas designated by law as requiring their use or when the edge of the roof is less than three (3) feet (914 mm) from a property line or when less than twenty (20)-feet separation exists between structures. Classes A, B and C roofing required to be listed by this section shall be tested in accordance with UL 790 or ASTM E 108.

EXCEPTIONS:

1. Class A roof assemblies include those with coverings of brick, masonry and exposed concrete roof deck.
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 decks.
3. Class A roof assemblies include minimum 16 ounces per square foot copper sheets installed over combustible decks.
4. Class A roof assemblies include slate installed over underlayment over combustible decks.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)

4-953A. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R908.1. GENERAL. Section R908.1 of the IRC is hereby amended to read as follows: **General.** Materials and methods of application used for re-covering or replacing an existing roof covering shall comply with the requirements of Chapter 9, and the Leawood Development Ordinance.

EXCEPTIONS:

1. Reroofing shall not be required to meet the minimum design slope requirement of one-quarter unit vertical in 12 units horizontal (2-percent slope) in Section R905 for roofs that provide positive roof drainage.
2. For roofs that provide positive drainage, re-covering or replacing an existing roof covering shall not require the secondary (emergency overflow) drains or scuppers of Section R903.4.1 to be added to an existing roof.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)

4-954. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R908.3. ROOF REPLACEMENT. Section R908.3 of the IRC

is hereby amended to read as follows: **Roof Replacement.** New roof coverings shall be installed as provided for in the Leawood Development Ordinance.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)

4-954A. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION R908.7. PARTIAL REPLACEMENT. A new Section R908.7 of the IRC is hereby added to read as follows: **Partial Replacement.** Where only a portion of the existing roof coverings are being replaced, the replacement roof coverings shall be the exact brand and type, shall be of a material from the City of Leawood's approved roofing list, and shall exactly match the color of the existing roof coverings. Where over 50 % of the roof coverings are being replaced, complete replacement of all roof coverings is required. Replacement roof coverings for two-family dwellings and townhouses shall be the exact brand and type, shall be of a material from the City of Leawood's approved roofing list, and shall match the color of the roof coverings for the entire building.

EXCEPTION: Wood shakes and wood shingles installed in compliance with this code, and the Leawood Development Ordinance that are the exact brand, type, and original color of the existing wood shakes or wood shingles are permitted to be replaced in amounts less than 50%.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)

4-955. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION N1101.13. COMPLIANCE. Section N1101.13 of the IRC is hereby amended to read as follows: **Compliance.** Projects shall comply with one of the following:

1. Sections N1101.14 through N1104.
2. Section N1105 and the provisions of Sections N1101.14 through N1104 indicated as "Mandatory".
3. The energy rating index (ERI) approach in Section N1106.
4. The Home Energy Rating System approach in Section N1101.13.1.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)

4-955A INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION N1101.13.1. HOME ENERGY RATING SYSTEM. Section N1101.13.1 of the IRC is hereby amended to read as follows: **Home Energy Rating System.** The ERI Index rating option can be met by constructing a residence that scores 80 or less on the HERS Index. All HERS ratings shall be performed by a third-party rater accredited by the Residential Energy Services Network (RESNET/ICC). The permit applicant of record shall elect which compliance path will be followed at the time permit application is made. The Final HERS Index score must be submitted to the City before issuance of a Certificate of Occupancy. The Final HERS certificate shall identify the project address, and include the HERS raters name and contact

information.

(Ord. 2985; 01-21-20)

4-955B. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, TABLE N1102.1.2. Table N1102.1.2 of the IRC is hereby amended to read as follows:

Table N1102.1.2

Insulation and Fenestration Requirements by Component ^a

Climate Zone	Fenestration U-factor ^b	Skylight U-factor ^b	Glazed Fenestration SHGC ^b	Ceiling R-Value	Wood Frame Wall R-Value	Mass Wall R-Value ^e	Floor R-Value	Basement Wall R-Value ^c	Slab R-Value & Depth ^d	Crawl Space Wall R-Value ^c
4	0.32	0.55	0.4	49	13 ^f	8/13	19	10/13	NR	10/13

- a. R-values are minimums. U-factors and SHGC are maximums. When insulation is installed in a cavity which is less than the label or design thickness of the insulation, the installed R-value of the insulation shall not be less than the R-value specified in the table.
- b. The fenestration U-factor column excludes skylights. The SHGC column applies to all glazed fenestration.
- c. "10/13" means R-10 continuous insulation on the interior or exterior of the home or R-13 cavity insulation at the interior of the basement walls or crawl spaces.
- d. R-5 insulation shall be provided under the full slab area of a heated slab. R-10 slab edge insulation shall be provided for heated slabs and shall extend the depth of the slab.
- e. The second R-value applies when more than half the insulation is on the interior of the mass wall.
- f. Where 2 x 6 framing is used, a minimum R-19 insulation is required.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)

4-955C. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION N1102.4.1.2. TESTING. Section N1102.4.1.2 of the IRC is hereby amended to read as follows: **Testing.** The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding 5 air changes per hour. Testing shall be conducted in accordance with RESNET/ICC 380, ASTM E779 or ASTM E1827 and reported at a pressure of 0.2 inches w.g. (50 Pascals). Testing shall be conducted by an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the Code Official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.

During testing:

- 1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weather-stripping or other infiltration control measures;

2. Dampers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures;
3. Interior doors, if installed at the time of the test, shall be open;
4. Exterior or interior terminations for continuous ventilation systems shall be sealed;
5. Heating and cooling systems, where installed at the time of the test, shall be turned off; and
6. Supply and return registers, where installed at the time of the test, shall be fully open.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)

4-955D. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION N1103.3.3. DUCT TESTING (MANDATORY). Section N1103.3.3 of the IRC is hereby amended to read as follows: **Duct Testing (Mandatory).** Where required by the Building Official, duct tightness shall be verified by either of the following:

1. Postconstruction test: Total leakage shall be less than or equal to 4 cfm per 100 square feet of conditioned floor area when tested at a pressure differential of 0.1 inches w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. Registers shall be taped or otherwise sealed during the test.
2. Rough-in test: Total leakage shall be less than or equal to 4 cfm per 100 square feet of conditioned floor area when tested at a pressure differential of 0.1 inches w.g. (25 Pa) across the system, including the manufacturer's air handler enclosure. Registers shall be taped or otherwise sealed during the test. Where the air handler is not installed at the time of the test, the total leakage shall be less than or equal to 3 cfm per 100 square feet of conditioned floor area.

EXCEPTIONS:

1. The duct air-leakage test shall not be required where ducts and air handlers are located entirely within the building thermal envelope.
2. On the postconstruction test, it is permissible to test for "leakage to the outdoors" versus a "total leakage." Leakage to the outdoors shall be less than or equal to 8 cfm per 100 square feet of conditioned floor area.
3. A duct air-leakage test shall not be required for ducts serving heat or energy recovery ventilators that are not integrated with ducts serving heating or cooling systems.

A written report of the results of the test shall be signed by the party conducting the test and provided to the building official.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)

4-955E INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION N1103.3.4. DUCT LEAKAGE (PRESCRIPTIVE). Section N1103.3.4 of the IRC is hereby omitted and deleted.

(Ord. 2985; 01-21-20)

4-955F. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION N1103.3.5. BUILDING CAVITIES (MANDATORY). Section N1103.3.5 of the IRC is hereby omitted and deleted.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)

4-955G. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION N1103.5.3. HOT WATER PIPE INSULATION (PRESCRIPTIVE). Section N1103.5.3 of the IRC is hereby amended to read as follows: **Hot water pipe insulation (Prescriptive).** Insulation for hot water pipe with a minimum thermal resistance (R-value) of R-3 shall be applied to the following:

1. Piping located under a floor slab.
2. Buried piping.
3. Supply and return piping in recirculation systems other than demand recirculation systems.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)

4-955H. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION N1104.1. LIGHTING EQUIPMENT (MANDATORY). Section N1104.1 of the IRC is hereby amended to read as follows: **Lighting Equipment (Mandatory).** Fuel gas lighting systems shall not have continuously burning pilot lights.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)

4-956. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION M1507.2. RECIRCULATION OF AIR. *Repealed.*

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)

4-957. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION G2402.3. TERMS DEFINED IN OTHER CODES. Section G2402.3 of the IRC is hereby amended to read as follows: **Terms defined in other codes.** Where terms are not defined in this code and are defined in the *NFPA 70 National Electrical Code, 2017, International Building Code, International Fire Code, International Mechanical Code or International Plumbing Code*, such terms shall have meanings ascribed to them as in those codes.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)

4-957A INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION G2417.4.1. TEST PRESSURE. Section G2417.4.1 of the IRC is hereby amended to read as follows: **Test Pressure.** The test pressure to be used shall not be less than 1½ times the proposed maximum working pressure, but not less than 10 psig irrespective of design pressure. For welded piping and for piping carrying gas at pressure in excess of 14 inches water column, the test pressure shall

not be less than 60 psig. Where the test pressure exceeds 125 psig, the test pressure shall not exceed a value that produces a hoop stress in the piping greater than 50 percent of the specified minimum yield strength of the pipe.

(Ord. 2985; 01-21-20)

4-957B INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION P2503.3. RESPONSIBILITY OF PERMITTEE. Section P2503.3 of the IRC is hereby amended to read as follows: **Responsibility of Permittee.** The permit holder shall make the applicable tests prescribed in Section 2503.4 through Section 2503.8 to determine compliance with the provisions of this Code.

(Ord. 2985; 01-21-20)

4-957C INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION P2708.1.1. ACCESS. Section P2708.1.1 of the IRC is hereby omitted and deleted.

(Ord. 2985; 01-21-20)

4-958. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION E3406.2. CONDUCTOR MATERIAL. Section E3406.2 of the IRC is hereby amended to read as follows: **Conductor Material.** Conductors normally used to carry current shall be of copper.

EXCEPTION: Service lateral conductors, service entrance conductors, and feeder conductors two AWG and larger are allowed to be of any type as allowed by this code.

(Ord. 2985; 01-21-20)

(Ord. 2599C; 12-03-12)

(Ord. 2559C; 08-06-12)

(Ord. 2297C; 02-04-08)

4-959. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION E3608.1. GROUNDING ELECTRODE SYSTEM. *Repealed.*

(Ord. 2985; 01-21-20)

(Ord. 2599C; 12-03-12)

(Ord. 2297C; 02-04-08)

4-960. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION E3902.2. GARAGE AND ACCESSORY BUILDING RECEPTACLES. Section E3902.2 of the IRC is hereby amended to read as follows: **Garage and accessory building receptacles.** 125-volt, single-phase, 15- or 20-ampere receptacles installed in garages and grade-level portions of unfinished accessory buildings used for storage or work areas shall have ground-fault circuit-interrupter protection for personnel.

EXCEPTIONS:

1. Dedicated receptacles supplying garage door openers.
2. Dedicated receptacles supplying a permanently installed fire alarm or security alarm system.

(Ord. 2985; 01-21-20)

(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)

- 4-961. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION E3902.5. UNFINISHED BASEMENT RECEPTACLES.** Section E3902.5 of the IRC is hereby amended to read as follows: **Unfinished basement receptacles.** All 125-volt single-phase, 15- and 20-ampere receptacles installed in unfinished basements shall have ground-fault circuit-interrupter protection for personnel. For purposes of this section, unfinished basements are defined as portions or areas of the basement not intended as habitable rooms and limited to storage areas, work areas, and the like.

EXCEPTIONS:

1. Dedicated receptacles supplying a permanently installed fire alarm or security alarm system.
2. Dedicated receptacles supplying sump pumps.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)

- 4-962. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION E3902.16. ARC-FAULT CIRCUIT-INTERRUPTER PROTECTION.** Section E3902.16 of the IRC is hereby amended to read as follows: **Arc-fault circuit-interrupter protection.** All branch circuits that supply 120-volt, single-phase, 15- and 20-ampere outlets installed in kitchens, family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreations rooms, closets, hallways, laundry areas and similar rooms or areas shall be protected by any of the following:

1. A listed combination-type arc-fault circuit-interrupter, installed to provide protection of the entire branch circuit.
2. A listed branch/feeder-type AFCI installed at the origin of the branch-circuit in combination with a listed outlet branch-circuit-type arc-fault circuit-interrupter installed at the first outlet box on the branch circuit. The first outlet box in the branch circuit shall be marked to indicate that it is the first outlet of the circuit.
3. A listed supplemental arc-protection circuit breaker installed at the origin of the branch circuit in combination with a listed outlet branch-circuit-type arc-fault circuit interrupter installed at the first outlet box on the branch circuit where all of the following conditions are met:
 - 3.1 The branch-circuit wiring shall be continuous from the branch-circuit overcurrent device to the outlet branch-circuit arc-fault circuit-interrupter.
 - 3.2 The maximum length of the branch-circuit wiring from the branch-circuit overcurrent device to the first outlet shall not exceed 50 feet for 14 AWG conductors and 70 feet for 12 AWG conductors.
 - 3.3 The first outlet box on the branch circuit shall be marked to indicate that it is the first outlet on the circuit.
4. A listed outlet branch-circuit type arc-fault circuit-interrupter installed at the first outlet on the branch circuit in combination with a listed branch-circuit overcurrent protective device where all of the following conditions are met:
 - 4.1 The branch-circuit wiring shall be continuous from the branch-circuit overcurrent device to the outlet branch-circuit arc-fault circuit-interrupter.

4.2 The maximum length of the branch-circuit wiring from the branch-circuit overcurrent device to the first outlet shall not exceed 50 feet for 14 AWG conductors and 70 feet for 12 AWG conductors.

4.3 The first outlet box on the branch circuit shall be marked to indicate that it is the first outlet on the circuit.

4.4 The combination of the branch-circuit overcurrent device and outlet branch-circuit AFCI shall be identified as meeting the requirements for a system combination-type AFCI and shall be listed as such.

5. Where metal outlet boxes and junction boxes and RMC, IMC, EMT, Type MC or steel-armored Type AC cables meeting the requirements of Section E3908.8, metal wireways or metal auxiliary gutters are installed for the portion of the branch circuit between the branch-circuit overcurrent device and the first outlet, a listed outlet branch-circuit type AFCI installed at the first outlet shall be considered as providing protection for the remaining portion of the branch circuit.
6. Where a listed metal or nonmetallic conduit or tubing or Type MC cable is encased in not less than 2 inches of concrete for the portion of the branch circuit between the branch-circuit overcurrent device and the first outlet, a listed outlet branch-circuit-type AFCI installed at the first outlet shall be considered as providing protection for the remaining portion of the branch circuit.

EXCEPTIONS:

1. AFCI protection is not required for an individual branch circuit supplying only a fire alarm system where the branch circuit is wired with metal outlet and junction boxes and RMC, IMC, EMT or steel-sheathed armored cable Type AC or Type MC meeting the requirements of Section E3908.8.
2. For these purposes, a smoke alarm or carbon monoxide alarm shall not be considered an outlet and is not required to have arc-fault protection.

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)

4-963. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION E3902.13. ARC-FAULT CIRCUIT INTERRUPTER PROTECTION FOR BRANCH CIRCUIT EXTENSIONS OR MODIFICATIONS. *Repealed.*

(Ord. 2985; 01-21-20)
(Ord. 2599C; 12-03-12)

4-964. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, SECTION AG105.5. BARRIER EXCEPTIONS. *Repealed.*

(Ord. 2985; 01-21-20)
Formerly 4-961
(Ord. 2599C; 12-03-12)
(Ord. 2297C; 02-04-08)