

Sec 12-16 International Code Council Series Adopted

A certain document, three (3) copies of which are on file in the office of the Building Code Official of the City of Aurora, Illinois, being marked and designated as:

- 2024 International Building Code- including Appendix Chapters (A, B, E, F, H, I, N, P);
- 2024 International Mechanical Code;
- 2024 International Fuel and Gas Code;
- 2024 International Residential Code - including Appendix Chapters (BD, BE, BF, BG, BH, BL, BN, BO);
- 2024 International Plumbing Code;
- 2024 International Existing Building Code - including Appendix Chapters (B, E);
- 2024 International Fire Code - including Appendix Chapters (B, C, D, F, H, I, J, N, O);
- 2024 International Swimming Pool and Spa Code.
- 2023 National Electrical Code (NFPA 70) as adopted and amended by Article III. Electricity Sec. 12-31 and 12-32 of the Aurora Code of Ordinances.

As published by the International Code Council, Inc., and adopted as the building code of the City of Aurora, Illinois in the State of Illinois; for the control of buildings and structures as herein provided; and each and all of the regulations, penalties, conditions, and terms of said 2015 International Codes are hereby referred to, and amended in part hereof as if fully set out in this article, with the additions, insertions, deletions, and changes, prescribed in section 12-17.1 through 12-17.8 of this article. Nothing in this article or in the Aurora Building Code hereby adopted shall be construed to affect any suit or proceeding impending in any court, or any rights acquired, or liability incurred, or any cause or causes of action acquired or existing, under any act or ordinance hereby repealed as cited in section 12-17.1 through 12-17.8 of this article; nor shall any just or legal right or remedy of any character be lost, impaired or affected by this article.

Furthermore, the following State adopted and amended code standards are enforced:

- Current State of Illinois Accessibility Code.
- Current State of Illinois Plumbing Code - broad references from the ICC series codes to the IPC shall hereby be replaced with reference to the "Current State of Illinois Plumbing Code".
- Current State of Illinois Energy Conservation Code.
- Current Illinois State Safety Code for Elevators and Escalators consisting of the following American Society of Mechanical Engineers (ASME), American National Standards (ANSI), and American Society of Civil Engineers (ASCE) standards, and any additional references required by the State of Illinois.
- Safety Code for Elevators and Escalators (ASME A17.1-), A 17.1 (a), and A17.1(s).
- Guide for Inspection of Elevators, Escalators, and Moving Walks (ASME 17.2).
- Safety Code for Existing Elevators and Escalators (ASME A17.3).
- Safety Standard for Platform Lifts and Stairway Chairlifts (ASME A 18.1): and
- Standard for the Qualification of Elevator Inspectors (ASME QE1-1).
- Safety Requirements for Personal Hoists and Employee Elevators (ANSI A10.4).
- Automated People Mover Standards (ASCE 21).

- Current State of Illinois Life Safety Code for existing buildings (Portions of NFPA 101 plus Annex A & B) as adopted and required by the State Fire Marshal's Office.

(Ord. No. O18-013, § 1(Exh. A), 1-23-18)

[Sec 12-16.1 Permanent Building And Fire Code Committee](#)

This committee shall act in an advisory capacity to the city council on matters pertaining to amendments to Aurora Building Codes, except the (NEC), state mandated codes and other matters pertaining to buildings and construction standards referred to said committee by the city council.

12-16.1.1 Membership: The membership of this committee shall consist of the regularly appointed members of the Building and Fire boards of appeal, as provided in IBC Appendix B and IFC Appendix A. The mayor, with the advice of the city council, may from time to time, appoint an additional member representing a Residential Contractor or Developer.

(Ord. No. O18-013, § 1(Exh. A), 1-23-18)

[Sec 12-16.2 Electrical Commission](#)

Electrical commission created; composition; qualifications, appointment, term of members; meetings and minutes.

In accordance with the statutes of the State of Illinois, there is hereby created and established in the city, an electrical commission consisting of six (6) members. At the last city council meeting in December of each two-year term, the city council shall appoint persons as members of said electrical commission whose qualifications shall be as follows: one (1) shall be a registered professional engineer; 1. one (1) an electrical contractor; 2. one (1) a journeyman electrician; 3. one (1) a representative of an inspection bureau maintained by the fire underwriters (or, if no such representative resides in the city, then the chief of the Aurora Fire Department); 4. and one (1) a representative of an electricity supply company (or, if no such representative resides in the city, then another member whom meets criteria 1-4). Such members shall be appointed for a two-year term or until their successors have been appointed and qualified by the city council. The director of building and permits, as ex officio secretary of the electrical commission, shall notify the members, in writing, as to the time and place of any meetings of the commission. Each meeting of the commission shall be recorded by the secretary or designee and minutes shall be kept on file in the office of the building and permits director.

12-16.2.1. Electrical commission responsibilities. The electrical commission shall make recommendations to the city council regarding:

1. Safe and practical standards and specifications for the installation, alteration and use of electrical equipment designed to meet the necessities and conditions of the city.
2. Reasonable rules and regulations implementing this electrical code ordinance.
3. The electrical commission shall also make recommendations to the director of building and permits regarding the revocation of an electrical contractor's license.

(Ord. No. O18-013, § 1(Exh. A), 1-23-18)

[Sec 12-16.3 Conformance With State Statutes](#)

12-16.3.1 It shall be the responsibility of the code officials to cooperate with all state agencies and subdivisions thereof and the various organizations which regulate the professions herein, to enforce the provisions of the several acts governing the registration of architects, structural engineers, professional engineers, land surveyors, alarm installers, plumbing contractors and roofers of the State of Illinois.

(Ord. No. O18-013, § 1(Exh. A), 1-23-18)

Sec 12-16.4 Contractor Registration

12-16.4.1 No construction work, as set forth in Section 117.2 through 117.8 may be installed or replaced within the City of Aurora except by persons, firms, or corporations duly registered to perform such work, except as hereinafter provided. Registrations shall be issued by the Division of Building and Permits to those persons, firms, or corporations qualified to perform such work, as set forth in this Section and as determined by the code compliance officers. Companies and corporations, upon transfer of ownership, shall be required to meet the testing requirements and apply for new licensure. Copies of Photo ID's, State trade contractor licenses, and State business registrations will be required as applicable.

12-16.4.1.1 Registration fee: The fee for contractor's registration shall be two hundred dollars (\$200.00) per year and per trade. Said registration(s) shall be renewed annually unless stated otherwise in the specific trade regulations below. Contractors qualifying as Aurora StAR contractors based upon the inspection passing percentage the prior 12 months, will be credited with a one-hundred-dollar (\$100.00) discount at time of annual renewal. Contractor audit reports may be requested for free at any time. Requests to update publicly visible annual on-line StAR contractor passing percentages will be accommodated with a service charge to match the minimum permit extension fee.

12-16.4.1.2 Single Family Dwelling Property owner exemption: The provisions herein contained shall not require an owner of record having occupied a single-family dwelling from personally doing his own work on said owner-occupied single-family dwelling to obtain a registration; provided that said owner of record will continue to live in the residence for a period of not less than six (6) months after the completion of the construction and submits the required identification(s) and recordings demonstrating current occupancy of the structure and an owners affidavit attesting to current and continuing occupancy.

12-16.4.1.2.1 Projects requiring special knowledge: Projects requiring special knowledge and training indicated below shall be performed by a licensed contractor.

1. Electrical Work.

- a. New Service and service replacements.
- b. Alternative power generation equipment (Photovoltaic, Wind turbines, Generators, etc.) shall be installed by licensed contractors with training specialized in their installation.

12-16.4.1.2.2 Hired Assistance Prohibited: Owner of record occupying a single-family dwelling wishing to do their own work without a licensed contractor per 117.1.2 shall be prohibited from hiring assistance in any way on the project without the hired assistant becoming a licensed contractor in the appropriate trade. Owner is subject to fines up to two times the permit fees in penalties should permit applications fraudulently indicate the owner is doing the work when they have hired persons engaging in the work.

12-16.4.1.2.3 CDBG or HOME funded volunteer-based projects benefiting low-moderate income homeowners at their homestead are exempt from licensed contractor requirements and shall be permitted under the property owner exemption. Depending upon time frame and work hours of the volunteer project, in relation to Building and Permits normal work hours, inspection requirements and permit closing requirements may additionally be waived as determined by the Building Code Official.

12-16.4.1.2.4 Apprentice Programs or Board of Education volunteer-based projects: Benefiting not-for profits OR low-moderate income homeowners at their homestead are exempt from licensed contractor requirements and shall be permitted under the supervision of a journeyman or a certified instructor.

12-16.4.1.3 Bond required: Performance bonds as prescribed by the City of Aurora Engineering department will be required for work in City of Aurora rights of way. Aurora encourages all owners to secure appropriate bonds to protect their private property.

12-16.4.1.4 Further, a copy of liability insurance must be submitted to the Division of Building and Permits. The certificate submitted must indicate the following coverage minimums:

12-16.4.1.4.1 General Liability:

12-16.4.1.4.1.1 Commercial General Liability per occurrence in the minimum amount of \$500,000.

12-16.4.1.4.1.1.2 Commercial General Liability - General Aggregate limit policy minimum amount of \$1,000,000.

12-16.4.1.4.2 Workers Compensation and Employer's Liability:

12-16.4.1.4.2.1.1 Workers Compensation and Employer's Liability coverage indicating compliance with statutory limits.

12-16.4.1.4.3 Additional Insured(s):

12-16.4.1.4.3.1.1 Additional Insured coverage must include: 'City of Aurora' as primary and non-contributory.

12-16.4.1.5 Revocation of Contractor Registration: A contractor's registration as defined herein may be revoked by the City of Aurora for failure to comply with the requirements of this code or other ordinances of the City of Aurora pertaining to the work being performed.

12-16.4.1.5.1 Notice of revocation: The code official or his designated representative shall serve the registered contractor, by email, by registered mail, certified mail, certificate of mailing or by personal service, a written notice of revocation which shall describe the grounds for revocation and the effective date which shall be not less than thirty (30) days from the date of service.

12-16.4.1.5.2 Appeal: The contractor may appeal to the appropriate board of appeals, from a decision of the code official to revoke a contractor registration; said application for appeal shall be filed no later than twenty (20) days from the date of revocation service.

12-16.4.1.5.3 Re-registration: A contractor whose registration has been revoked shall not make application for or be issued a new registration within twelve (12) months from the date of revocation.

12-16.4.1.5.4 Unless prohibited by the State, the code official is authorized to issue conditional or probationary registrations for contractors who have violated code provisions.

12-16.4.1.6 Contractor Testing:

12-16.4.1.6.1 Tests shall be taken by a Qualifying Party.

12-16.4.1.6.1.1 Qualifying party; means the individual filing as a sole proprietor, partner of a partnership, or officer of a corporation, who is legally qualified to act for the business organization in all matters connected with its contracting business and has the responsibility to supervise installation operations and is actively engaged in day-to-day activities of the business organization.

12-16.4.1.6.1.1.1 The Director may waive qualifying party requirements when in the opinion of the Building Official the contractor has demonstrated that they solely employ tradesmen who are required to participate in an adequate amount of certified continuing education or an apprentice program.

12-16.4.1.7 ICC testing: In addition to the requirements below, written Examination from the International Code Council OR reciprocal testing from another acceptable municipality shall also be required as qualification for registration in the following registration categories.

12-16.4.1.7.1 HVAC contractors.

12-16.4.1.7.1.1 ICC - Master Mechanical Certification.

12-16.4.1.7.2 Electrical contractors.

12-16.4.1.7.2.1 Commercial Electrical Contractor registration; ICC - Standard Master Electrician.

12-16.4.1.7.2.2 Residential Electrical Contractor registration; ICC - Standard Residential Electrician.

12-16.4.1.7.2.3 Signage Electrical Contractor registration; ICC - Standard Journeyman Sign Electrician OR an ICC - Standard Master Electrician certification.

12-16.4.2 Registration of Heating, Air-Conditioning, & Mechanical/ Ventilation Contractors.c

12-16.4.2.1 Work requiring City of Aurora registered HVAC contractor: Automatic or manually controlled heat-producing, air-conditioning or mechanical ventilation equipment covered by this code.

12-16.4.2.1.1 Electrical contractor exception: Duly licensed electrical contractors may be issued a permit to install electric heat-producing equipment, without mechanical air flow or duct work required, without obtaining a further registration.

12-16.4.2.1.2 Qualifications: To qualify for registration, a qualifying party of the firm or corporation must first pass a written examination per section 117.1.6 or 117.1.7.

12-16.4.2.1.2.1 Reciprocal licensing: Contractors duly qualified and licensed in other municipalities or states may be issued licenses by reciprocity provided that the code official accepts the equality of the procedure under which the candidate obtained the original license. Contractors shall still make payment for a license and conform to the insurance requirements of this code.

12-16.4.2.2 FIREPLACE INSTALLATION CONTRACTORS:

12-16.4.2.2.1 Qualifications: To qualify for registration, a qualifying party of the firm or corporation must present qualifications and certifications acceptable to the Building Official - (i.e., Wood & Gas Fireplace Certification issued by the National Fireplace Institute).

12-16.4.3 REGISTRATION OF PLUMBING CONTRACTORS:

12-16.4.3.1 Work requiring City of Aurora Registered Plumbing Contractor: Installing, superintending, maintaining or repairing any plumbing system covered by this code.

12-16.4.3.2 Qualifications: To qualify for registration: The person, partner or president of the corporation or association must be a licensed plumbing contractor by the State of Illinois or the City of Chicago to perform plumbing work.

12-16.4.3.2.1 Fee: Per State Law plumbing registrations shall be issued at no charge.

12-16.4.4 REGISTRATION OF FIRE SUPPRESSION CONTRACTORS:

12-16.4.4.1 Work requiring City of Aurora Registered Fire Suppression Contractor: Installing, superintending, maintaining or repairing any fire suppression system covered by this code.

12-16.4.4.2 Qualifications: To qualify for registration; Registration shall be issued to those individuals, partnerships, corporations, business trusts, limited liability companies, or other legal entities upon fulfillment of bond and insurance requirements.

12-16.4.4.2.1 Single Family Property owner exemptions shall not apply to fire suppression contractors.

12-16.4.5 REGISTRATION OF GENERAL CONTRACTORS:

12-16.4.5.1 Work requiring City of Aurora Registered General Contractor: Installing, superintending, maintaining or repairing any work for which a permit is required by this code.

12-16.4.5.1.1 The registration requirement shall not apply to the owner of any property serving as a general contractor for work on buildings or structures under their ownership for work that does not exceed forty thousand dollars (\$40,000). Tenants shall not act as general contractors unless licensed to do so.

12-16.4.5.2 Qualification for registration: Registration shall be issued to individuals, partnerships, corporations, business trusts, limited liability companies, or other legal entities upon payment of fee and fulfillment of bond and insurance requirements.

12-16.4.6 REGISTRATION OF ELECTRICAL CONTRACTORS:

12-16.4.6.1 Work requiring City of Aurora Registered Electrical Contractor: Installing, superintending, maintaining or repairing any electrical work for which a permit is required by this code except when an existing piece of utilization equipment is replaced by equipment with the same voltage and current requirements, and the new equipment is listed by an independent testing laboratory as suitable for the application, then, in that case, no permit is required.

12-16.4.6.1.1 Registration Classifications:

1. Unlimited Registration: Industrial, commercial, and residential.
2. Limited Registration: Residential one- and two-family only.

12-16.4.6.2 Qualification for registration: Registration shall be issued to those individuals, partnerships, corporations, business trusts, limited liability companies, or other legal entities upon payment of fee and fulfillment of bond and insurance requirements. A qualifying party of the firm or corporation must first pass a written examination, as provided by per section 117.1.6 or 117.1.7.

12-16.4.6.2.1 Reciprocal Registration: Contractors specifically licensed as electrical contractors in other Illinois municipalities may be issued registration by reciprocity, provided that the code compliance officer/electrical accepts the equality of the testing procedure under which the candidate obtained his original registration. Contractor's registration in another municipality to perform electrical work solely on residential property shall be registered in Aurora only for residential work (one-family or two-family residences). Contractors shall still make payment for a registration and conform to the insurance requirements set forth in this section.

12-16.4.6.3 Registration of electrical maintenance persons: Any person involved in maintenance work, who may be doing electrical repairs, alterations or installations and directly employed for the preceding twelve (12) months, for any firm, corporation or industry located within the city limits, must be registered with the Director of Building & Permits. Upon registration, such maintenance person shall be authorized by the Director of Building & Permits to engage in such electrical repairs, alterations or installations only as pertains to the firm, corporation, or industry in which he is employed.

12-16.4.6.3.1 Corrections of violations of unsafe conditions endangering life, safety or property must only be made by a licensed electrical contractor.

12-16.4.7 REGISTRATION OF ROOFING CONTRACTORS:

12-16.4.7.1 Work requiring City of Aurora Registered Roofing Contractor: Installing, maintaining, or repairing any roofing work for which a permit is required by this code.

12-16.4.7.1.1 Applicable Contractor Licensure Exemptions provided by the State of Illinois will be honored in Aurora.

12-16.4.7.1.1.1 Property owners performing work individually on their own property.

12-16.4.7.1.1.2 Employees of property owners for which an Employer-Employee relationship can be documented.

12-16.4.7.1.2 Registration classifications of Residential Roofer and Commercial Roofer will be issued.

12-16.4.7.2 Qualification for registration: A majority owner or corporate officer, or director of the corporation must be licensed by the State of Illinois.

12-16.4.8 REGISTRATION OF SIGNAGE CONTRACTORS:

12-16.4.8.1 Work requiring City of Aurora Registered Signage Contractor: Installing, superintending, maintaining, or repairing any signage for which a permit is required by this code.

12-16.4.8.2 Qualification for registration: Registration shall be issued to those individuals, partnerships, corporations, business trusts, limited liability companies, or other legal entities upon payment of fee and fulfillment of insurance requirements.

12-16.4.8.2.1 Signage Electrical Contractor registration shall additionally require an ICC - Standard Journeyman Sign Electrician OR an ICC - Standard Master Electrician certification. Signage Electrical contractors shall be permitted to install non-electrified signage under the same registration.

12-16.4.8.2.2 Signage Contractors (for non-electrified installations) shall be issued to those persons, firms, associations, partnerships, or corporations upon payment of fee and fulfillment of bond and insurance requirements. Although required to become a registered Signage Contractor, registered General Contractors and registered Electrical Contractors will not be required to pay fees for this registration.

12-16.4.9 REGISTRATION OF FENCING CONTRACTORS:

12-16.4.9.1 Work requiring City of Aurora registered fencing contractor: Constructing, erecting, installing, repairing, or enlarging a fence for which a permit is required by this code. This registration requirement shall not apply to the property owner serving as his own fencing contractor.

12-16.4.9.2 Qualifications: Completion of registration application and in good standing with the City of Aurora.

12-16.4.10 REGISTRATION OF PRIVATE PROPERTY PAVING CONTRACTORS:

12-16.4.10.1 Work requiring City of Aurora registered private property paving contractor: Installing, superintending, maintaining, or repairing any paving on private property for which a permit is required by this code. This registration requirement shall not apply to the property owner serving as his own private property paving contractor.

12-16.4.10.2 Qualifications: Completion of registration application and in good standing with the City of Aurora.

12-16.4.11 REGISTRATION OF ALARM CONTRACTORS:

12-16.4.11.1 Work requiring City of Aurora Registered Alarm Contractor: Installing, superintending, maintaining, or repairing any fire alarm system covered by this code.

12-16.4.11.2 Qualification for registration: Registration shall be issued to those individuals, partnerships, corporations, business trusts, limited liability companies, or other legal entities upon verification of good standing of State of Illinois Private Alarm Contractor or Private Alarm Contractor Agency License.

12-16.4.11.2.1 Fee: Per State Law Fire Alarm Contractor registrations shall be issued at no charge.

Sec 12-17.7 Same; Additions, Insertions, Deletions And Changes

The following sections of the 2024 International Existing Building Code adopted in section 12-16 are hereby revised as follows:

101.1 is amended to read:

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

101.2.2 is amended to read:

Where work regulated by this code is also regulated by the construction requirements for existing buildings in Chapter 11 of the Aurora Fire Code, such work shall comply with applicable requirements in both codes. Where conflict occur between this code and chapter 11 of the Aurora Fire Code, the most restrictive provisions shall apply. Unless determined an unsafe code violation, where local more onerous amendments are adopted, their application to existing buildings will only be applied to projects for which the hazard is being increased or the extent of non-conformity with the new building code is being increased.

103.1 is amended to read:

The Division of Building and Permits under the Developments Services Department is hereby created and the official in charge thereof shall be known as the building official. The function of the agency shall be the implementation, administration, and enforcement of the provisions of this code.

104.3.2 is added to read:

Preliminary Existing Building Code meeting. If an applicant requests that a building meet the requirements of this chapter and the project is a project involving alterations and/or a change of occupancy, then the Development Services Department shall offer an Existing Building Code study review prior to the submission of a permit application. The preliminary meeting shall, to the extent possible, include the officials responsible for permit approval and enforcement with respect to the Building and Fire codes, and historic preservation ordinances. The meeting results and findings shall be recorded as a permit and made available to the project team.

105.2 is amended to read:

Work exempt from permit. Exemptions from permit requirements of this code shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of this code or any other laws or ordinances of this jurisdiction. Permits not required shall be in accordance with the adopted building code.

108.6 is amended to read:

The code official shall authorize the refunding of fees per the International Building Code Section 109.6.

112.1 is amended to read:

Means of appeal to this code shall be in accordance with the provisions of the 2014 Aurora Building Code.

112.2 is deleted.

112.3 is deleted.

112.4 is deleted.

113.4 is amended to read:

Violation Penalties shall be as prescribed in the International Building Code Section 114.4.

114.4.1 is added to read:

Unlawful continuance fines shall be as prescribed in the International Building Code

Section 202 is amended to add/ modify the following:

AREA, BUILDING. The area included within surrounding exterior walls, or exterior walls and fire walls, exclusive of vent shafts and courts. Areas of the building not provided with surrounding walls shall be included in the building area if such areas are included within the horizontal projection of the roof or floor above.

BEDROOM. A room with a minimum of 70 square feet in floor area (excluding clothing storage floor area), which is a habitable space, that may be lawfully furnished with a bed and used for sleeping, but not including the living room, a dining room or a kitchen. However, a den, a study, a loft, or any room which may lawfully be used as a bedroom shall be considered a bedroom for the purposes of determining minimum safety requirements for current or future occupants.

BOARDING HOUSE. A building arranged or used for lodging for compensation or not, with or without meals, and not occupied by a single-family unit.

CODE OFFICIAL. The Building Official shall be the Director of the Building & Permits and his designees. All City employees are hereby designees of the Building Official. The Building Official shall cooperate with the Fire Chief and the Fire Marshal.

DISTINCT HAZARD. Any clear and evident condition that exists as an immediate danger to the safety of the occupants or public right of way. Conditions that do not meet the requirements of current regular codes and ordinances do not, of themselves, constitute a distinct hazard.

FIRE CODE OFFICIAL. The Fire Code Official for construction and remodeling permits shall be the Director of the Building & Permits and his designees. All City

employees are designees of the Fire Code Official. The Fire Code Official shall cooperate with the Fire Chief and the Fire Marshal. The Fire Code Official for operational permits and existing structures shall be the Fire Marshal and their designees. The Fire Code Official shall cooperate with the Fire Chief and the Building Code Official.

GUEST ROOMS. A room used or intended to be used by one or more occupants not defined as family for living (see IPMC adoption for definition of family).

HISTORIC BUILDING. Any building or structure that is one or more of the following:

1. Listed, or certified as eligible for listing, by the State Historic Preservation Officer or the Keeper of the National Register of Historic Places, in the National Register of Historic Places.
2. Designated as historic under an applicable state or local law.
3. Certified as a contributing resource within a National Register, state designated or locally designated historic district.
4. Recommended by the City of Aurora Historic Preservation Officer for listing on the Aurora Historic Property Register, either as an individually eligible property or as a contributing resource to an eligible historic district.

LODGING HOUSE. A one-family dwelling where one or more occupants are primarily permanent in nature with guest rooms, which does not qualify as a custodial care facility.

TECHNICALLY INFEASIBLE. An alteration that has little likelihood of being accomplished as determined by the code official because the existing structural conditions require the removal or alteration of a load-bearing member that is an essential part of the structural frame; or because other existing physical or site constraints prohibit modification or addition of elements, spaces or features which are in full and strict compliance with the minimum requirements for new construction and which are necessary to provide compliance.

TOLERANCES. An allowable deviation from dimensional requirements of the code that will have insignificant impact on safety and performance.

302.1.1 is added to read:

Equipment on and Access to Rooftops. In the Downtown Core, Downtown Fringe or with Historic Structures, various components that require service and roof hatch openings where fall protection out of the International Mechanical Code is required must use the exception from section 304.11 of the IMC and cannot utilize guards or screening.

306.3 is amended to read:

Design. Accessibility requirements for existing buildings shall comply with the ICC A117.1 and the provisions of Sections 305.1 through 305.9.4, as applicable to facilities designated as historic structures that undergo alterations, unless technically infeasible. Where compliance with the requirements for accessible routes, entrances and toilet rooms would threaten or destroy the historic significance of the building or facility, as determined by the code official and historic preservation officer, conformance with the requirements to the maximum extent technically feasible shall be permitted.

306.7.7.1 is added to read:

Local Ambulance Stretcher Size Exemption. When in an existing building, and in the opinion of the building official, the new elevator shaft size poses a structure related hardship; the Building Official shall be authorized to waive this requirement when not required by the State or the ICC code text.

306.7.12.1 is added to read:

Maintenance of Existing Fixtures and Appurtenances. Where the replacement of existing toilets, urinals, sinks, partitions, grab bars, etc. are necessitated due to maintenance reasons they shall be replaced with code compliant replacements without requiring full toilet room compliance for accessibility.

Section 310 Electrical Services is added.

310.1 Buildings with multiple electrical services shall be provided with a shunt trip that simultaneously opens all electrical services including any emergency and standby power systems. Shunt trip shall be of a mushroom style push button provided with a protective cover. Button shall be identified with a sign that reads "EMERGENCY POWER SHUTDOWN SWITCH FOR FIRE DEPT USE ONLY".

Section 311 Fire Protection is added.

311.1 Where deemed technically infeasible by the building code official, the following conditions required by the International Building Code and International Fire code are not required.

1. Direct exterior access for fire pumps and sprinkler rooms- IFC 509.4
 - a.
2. Annunciator locations- IBC & IFC 907.1.4.2
3. Point Identification-IBC & IFC 907.6.6.2

905.1 is amended to read:

The means of egress shall comply with the requirements of Section 804 except as specifically required in Sections 905.2 and 905.4.

1001.2.2.2 Lodging Houses is added to read:

Conversion of one- and two-family structures to lodging houses shall be considered a change of use. This change of use shall require:

1. Electrical system upgrade to fully compliant system with current electrical code for new construction shall be required.
2. A fully monitored, code-compliant smoke and carbon monoxide detection and alarm system through a central station shall be required.

1203.9 is amended to read:

Stairway railings. Historically significant stairways as determined by the building official in consultation with the local preservation authority or the State Historic Preservation Office, shall be permitted to be accepted without complying with the handrail and guard requirements. Existing handrails and guards at all stairways shall be permitted to remain, subject to approval by the building official and provided they are not structurally dangerous. Where one side of the stair handrails and guardrails can be made to meet the new building codes without detriment to the historical significance of the stairway as determined by the local preservation authority, the Building Official shall require the partial compliance with the new codes as can be achieved without stair geometry changes.

1305.2.2 is amended to read:

Building area. The value for building area shall be determined by the formula in Section 1305.2.2.2. Section 506 of the *International Building Code* and the formula in Section 1305.2.2.1 shall be used to determine the allowable area of the building. Enter the area value and its sign (positive or negative) in Table 1306.1 under Safety Parameter 1305.2.2, Building Area, for fire safety, means of egress and general safety. In determining the area value, the maximum permitted positive value for area is 75 percent of the fire safety score as listed in Table 1306.2, Mandatory Safety Scores. Group I-2 occupancies shall be scored zero.

1305.2.4 is amended to read:

Tenant and dwelling unit separations. Evaluate the fire-resistance rating of floors and walls separating tenants, including dwelling units, and not evaluated under 1305.2.5. Group I-2 occupancies shall evaluate the rating of the separations between care recipient sleeping rooms.

Under the categories and occupancies in Table 1305.2.4, determine the appropriate value and enter that value in Table 1306.1 under Safety Parameter 1305.2.4, Tenant and Dwelling Unit Separations, for fire safety, means of egress and general safety. The value shall be zero for single tenant buildings and buildings without dwelling units.

1305.2.5 is amended to read:

Corridor walls. Evaluate the fire-resistance rating and degree of completeness of walls which create corridors serving the floor and that are constructed in accordance with Section 1020 of the International Building Code. This evaluation shall not include the wall elements considered under Sections 1305.2.4. Under the categories and groups in Table 1305.2.5, determine the appropriate value and enter that value into Table 1306.1 under Safety Parameter 1305.2.5, Corridor Walls, for fire safety, means of egress and general safety.

1505.1.1 is added to read:

Exterior and party walls. When an adjacent structure wall is exposed as a result of demolition or construction, the resulting exposed to the exterior walls shall be protected with waterproof materials during demolition and all necessary repairs to the wall to make it comply with requirements of Chapter 14 shall be made by the demolition building owner.

B101.1 is amended to read:

General. Qualified historic buildings and facilities shall comply with Sections B101.2 through B101.5, plus the provisions of Chapter 12 Historic Buildings.

Sec 12-17.1 Additions, Insertions, Deletions And Changes

The following sections of the 2024 International Building Code adopted in section 12-16 is hereby revised as follows:

101.1 Title is amended to read:

These regulations shall be known as the Building Code of The City of Aurora, hereinafter referred to as "this code."

103.1 is amended to read:

The Division of Building and Permits under the Developments Services Department is hereby created and the official in charge thereof shall be known as the building official. The function of the agency shall be the implementation, administration, and enforcement of the provisions of this code.

105.1 Required is amended to read:

Any owner or owner's authorized agent who intends to construct, enlarge, alter, repair, move, demolish, or change the occupancy of a building or structure, including detached accessory structures; or to erect, install, enlarge, alter, repair, remove, convert or replace any electrical, gas, mechanical or plumbing system, the installation of which is regulated by this code; or to construct, erect, install, or enlarge a fence; or construct any driveway or for the installation of pavement in the form of private walks, patios or parking pads adjacent to driveways capable of parking vehicles or construct or modify pavement in the public right-of-way, including public sidewalks, aprons, curbs, and curb-cuts, or to cause any such work to be performed, shall first make application to the building official and obtain the required permit.

105.1.1 is deleted.

105.1.2 is deleted.

105.2 is amended to read:

Work exempt from permit. Exemptions from permit requirements of this code shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of this code or any other laws or ordinances of this jurisdiction. Permits shall not be required for projects where in the opinion of the building official the material costs are under seven hundred and fifty dollars (\$750.00), or where the material plus the labor costs are less than one thousand five hundred dollars (\$1500.00) unless the building official determines necessary to issued when the permit is the subject of curing a code violation citation. In addition, permits shall not be required for the following:

Building:

1. Oil derricks.

2. Retaining walls which are not over 4 feet (1219 mm) in height measured from the bottom of the footing to the top of the wall, unless supporting a surcharge or impounding Class I, II or III-A liquids.
3. Water tanks supported directly upon grade if the capacity does not exceed 5,000 gallons (18,925 L) and the ratio of height to diameter or width does not exceed 2 to 1.
4. Sidewalks on private property not more than 30 inches above adjacent grade and not over any basement or story below, and are not part of an accessible route, provided that the sidewalk is not adjacent to a driveway for more than 5 feet. (Some private property sidewalks, all sidewalks in rights-of-way and all driveways require permits).
5. Painting, papering, tiling, carpeting, counter tops, and similar finish work.
6. Temporary motion picture, television and theater stage sets and scenery.
7. Prefabricated swimming pools accessory to a Group R-3 occupancy that are less than 24" deep, and are installed entirely above ground.
8. Shade cloth structures constructed for nursery or agricultural purposes and not including service systems.
9. Swings and other playground equipment accessory to one and two-family dwellings.
10. Window awnings in Group R-3 and Group U occupancies, supported by an exterior wall that do not project more than 54 inches from the exterior wall and do not require additional support.
11. Nonfixed and Movable fixtures, cases, racks, counters, and partitions not over 5 feet 9 inches (1753 mm) in height.
12. Windows/Doors that are being replaced that do not alter the structural framing or egress requirements are exempt from a building permit. Note that if in a historic district, Fox Walk District or if a historic structure you will be required to obtain a certificate of appropriateness. Additionally, despite lack of permit requirement, the State Adopted Energy Conservation Code shall be adhered to.
13. Radon mitigation projects.

Electrical: delete subsequent text and amend to read:

Electrical installations per Article III. ELECTRICITY - section 103.2 and NEC 90.2 are exempt from permit.

PLUMBING:

Item three (3.) is added to read:

Replacement of water heaters with water heaters of like type; capacity and fuel demand.

105.3.1.1 Withholding of permits is added to read:

Whenever the code official shall find that any contractor or owner is in violation of this code, or of any other ordinances of the city or state, he may refuse to grant any further permits to such violating contractor (or any owner employing such violating contractor) or to such violating owner (or anyone obtaining a permit for such violating owner's premises) until all violations have been corrected.

105.3.1.2 Indebtedness to the City of Aurora is added to read:

Any City liens, fines or city fees shall be paid prior to permit issuance.

105.8 Prerequisite for permit is added to read:

No building permit for new construction shall be issued unless the following improvements are provided:

- (1) Refer to Section 43-12 Subdivision Control Ordinance.
- (2) Refer to Section Article II.H Subsection 140.1 Required Access.

107.1.1 is added to read:

The first page of each set of drawings shall further contain the following information:

REQUIRED PLAN COVER SHEET INFORMATION FOR REVIEW UNDER 2024 International Codes, 2023 NEC, STATE OF ILLINOIS ACCESSIBILITY CODE, ICC A117.1-17, THE 2010 ADA, STATE OF ILLINOIS ENERGY CONSERVATION CODE, THE STATE OF ILLINOIS PLUMBING CODE, and CODE REVIEW DATA

A. Use and Occupancy group(s) classification (indicate single use; or single use with incidental use/accessory use; or mixed use separated/non-separated), (Chapter 3). If a change of use is requested per IEBC Chapter 10 then the Existing use group(s) shall be identified, and IEBC Chapter 10 shall additionally be required for code compliance.

B. Type(s) of construction (Chapter 6).

C. Square footage of building and allowable square footage with increases (specify each floor or fire area), (indicate if sprinklered and/or alarmed) (Chapter 5).

D. Occupant load based on International Building Code (Chapter 10).

E. Occupant load based on State of Illinois Plumbing Code (Section 890.810 (2)).

F. Designed live loads (Chapter 16).

G. The Design Professional in Responsible Charge shall be named and further shall be required to coordinate multiple submittals in an application per IBC 107.3.4.

H. For Existing Structures, indicate the classification (intensity) of work per IEBC Chapter 5. For projects with multiple classifications in different areas of work, an

IEBC work classification exhibit shall additionally be provided on the cover page. Per IEBC Chapter 5 the referenced chapters in IEBC shall be required for code compliance.

I. Area of Work Key Plans.

J. Life Safety Plans.

107.2.1.1 Engineering details is added to read:

The code official may require to be filed adequate details of structural, mechanical, plumbing and electrical work, including computations, stress diagrams and other essential technical data. All engineering plans and computations shall be coordinated by and shall bear the signature and seal of the engineer or architect responsible for the design as required by subsection 107.3.4.

109.2.1 Fees is added to read:

For certified private educational facilities: Upon presentation of acceptable documentation, certified private educational facilities (Kindergarten and above grades) shall receive a 50% reduction in building permit fees for remodeling, repair, additions, alterations or similar improvements to buildings and structures. Fees shall not be waived for new construction, nor shall fees be waived for deposits, bonds, City tap fees and inspections and/or reviews performed by outside consultants, or for any out-of-pocket expenses incurred by the City associated with the construction permit process. The burden of proving that the facility qualifies for the partial waiver as set forth in this paragraph shall be borne by the facility asserting the entitlement to the partial waiver of fees.

109.6 is amended to read:

Whenever the work for which a permit was granted is not started and the six months' time limit for permits has not lapsed, the holder of the permit may receive a refund of 50% of the City Building Permit Fees paid. The refund request must be made in writing to the Division of Building and Permits and all permits must be surrendered. This policy does not apply to the non-refundable portions of the plan examination fee.

114.4.1 is added to read:

Violations shall be a misdemeanor, punishable by a fine of not less than one hundred dollars (\$100) and not more than One Thousand dollars (\$1000.00) per violation. Each day that a violation continues shall be deemed a separate offense.

116.4 is added to read:

Method of Service: Add method (4) sent by first class mail, postage prepaid, to the recipients at their last known address.

116.6 is added to read:

Imminent danger; demolition of structures: When, in the opinion of the code official, there is actual and immediate danger of failure or collapse of a building or structure or any part thereof which would endanger life, or when any structure or part of a structure has fallen and life is endangered, the code official is hereby authorized and empowered to make the necessary arrangements to have said building or structure demolished without the necessity of court order. The code official may retain the services of an Illinois Licensed Structural Engineer to assist in making the demolition determination. Two hundred percent of all costs incurred therefore may be charged to the owner(s) of record and if payment is not made within thirty (30) days, a lien shall be recorded against the property.

116.7 Costs of emergency repairs is added to read:

Costs incurred in the performance of emergency work shall be paid from the treasury of the jurisdiction on approval of the code official. The legal counsel of the jurisdiction shall institute appropriate action against the owner of the premises where the unsafe structure is or was located, and two hundred percent of the cost of such work may be charged against the real estate upon which the structure is or was located and shall be a lien upon such real estate.

202 is amended to add/ modify the following:

BEDROOM. (for purposes of determining minimum code requirements) a room with a minimum of 70 square feet in floor area (excluding clothing storage floor area), which is a habitable space, that may be lawfully furnished with a bed and used for sleeping, but not including the living room, dining room or a kitchen. However, a den, a study, a loft, or any room which may lawfully be used as a bedroom shall be considered a bedroom for the purpose of determining minimum safety requirements for current or future occupants.

BOARDING HOUSE. A building arranged or used for lodging for compensation or not, with or without meals, and not occupied by a single-family unit.

CODE OFFICIAL. The Building Official shall be the Director of the Building & Permits and his designees. All City employees are hereby designees of the Building Official. The Building Official shall cooperate with the Fire Chief and the Fire Marshal.

FIRE ACCESS DOORS. Any exterior door with code compliant landing and walkway which connects to the public way and provides access to potential fire staging area. Fire Access Doors may be part of a means of egress and marked as an exit, but they do not have to be a component of egress nor marked as such. If a Fire Access Door is part of an accessible means of egress the door and its associated components must comply with accessibility standards.

FIRE CODE OFFICIAL. The Fire Code Official for construction and remodeling permits shall be the Director of the Building & Permits and his designees. All City employees are designees of the Fire Code Official. The Fire Code Official shall cooperate with the Fire Chief and the Fire Marshal. The Fire Code Official for operational permits and existing structures shall be the Fire Marshal and their designees. The Fire Code Official shall cooperate with the Fire Chief and the Building Code Official.

GUEST ROOMS. A room used or intended to be used by one or more occupants not defined as family for living (see IPMC adoption for definition of family).

LODGING HOUSE. A one-family dwelling where one or more occupants are primarily permanent in nature with guest rooms, which does not qualify as a custodial care facility.

Table 504.4 shall be partially amended as follows. References to allowable stories in New Non-Sprinklered buildings shall additionally be limited by the provisions of section 903.1.3.

Table 509 Incidental Uses: shall be partially amended as follows. Balance of the table shall remain unchanged:

ROOM OR AREA	SEPARATION AND/OR PROTECTION
Rooms containing fire pumps, riser areas and or sprinkler control valve areas	• 2 hours in high-rise buildings,
	• In non high-rise buildings 2 hours; OR 1 hour and provide automatic sprinkler system throughout the building. Exception: Secondary risers and auxiliary control valves need not be enclosed unless required by the code official.

903.1.2 New Building Square footage thresholds is added to read:

Except for one- and two-family dwellings, an automatic sprinkler system shall be required for all use groups where fire areas exceed 5,000 square feet. For fire areas 5,000 square feet or under, the section 903.2 use specific code text square footage thresholds shall still apply.

903.1.3 New Building Height thresholds is added to read:

Except for one- and two-family dwellings, an automatic sprinkler system shall be required for all use groups where building stories exceed two stories, and mixed-

use group buildings, with one use above a different use exceeding one story. For buildings under two stories, the IBC Table 504.4 use specific code text number of story thresholds shall still apply.

903.1.4 Sprinkler systems when required for multi-tenant buildings is added to read:

Shall be provided with a tenant zoned flow switch and tampered control valve mounted at no more than 5 feet above finished floor and as accepted by the fire code official.

903.1.5 Design is added to read:

Drawings shall be reviewed and stamped by a NICET level III professional.

903.3.1.2 NFPA 13R sprinkler is amended to add the following exception:

Exception: Group R buildings of Type 3, Type 4 or Type 5 construction must be sprinklered in accordance with Section 903.3.1.1 and shall retain the sprinkler protection of Balconies and Decks in section 903.3.1.2.1.

903.3.5 Water supplies is amended to read:

Water supplies for automatic sprinkler systems shall comply with this section and the standards referenced in Section 903.3.1. The building and municipal potable water supply shall be protected against backflow in accordance with the requirements of this section and the State of Illinois Plumbing Code.

903.4.1 delete all exceptions.

903.4.3.1 Fire department connection alarms is added to read:

Exterior notification appliances with red lens strobe activated on water flow shall be placed above the Fire Department Connection at no less than 8 feet above grade.

905.4 item six is amended to read:

6. At fire access doors where the most remote portion of a nonsprinklered floor or story is more than 150 feet from a hose connection or the most remote portion of a sprinklered floor or story is more than 200 feet from a hose connection.

905.4 item 7 is added to read:

7. Where the most remote portion of a nonsprinklered floor or story is more than 150 feet (45 720 mm) from a hose connection or the most remote portion of a sprinklered floor or story is more than 200 feet (60 960 mm) from a hose connection.

905.9 delete exception 2.

907.1.1 is amended to read:

Construction documents for fire alarm systems shall be of sufficient clarity to indicate the location, nature and extent of the work proposed and show in detail this it will conform to the provisions of this code, the international fire code; and relevant laws, ordinances, rules and regulations as determined by the fire code official. Shop drawings shall be reviewed and stamped by a NICET level III or higher, or professional engineer.

907.1.3.1 is added to read:

Where a protected/rated sprinkler riser room exists the fire alarm control panel shall be located within unless approved by the fire code official.

907.1.4 Additional alarm requirements for sprinklered occupancies is added to read:

In addition to items required by section 907 the following appurtenances will also be required in the uses/occupancies when the occupancy is required to be sprinklered.

907.1.4.1 is added to read:

In single tenant occupancies alarm annunciators shall be located at the main entrance.

907.2.9.1 items 1 and 3 are amended to read:

1. Any dwelling unit or sleeping unit is located one or more stories above the lowest level of exit discharge.

3. The building contains more than 12 dwelling units or sleeping units.

907.2.9.1 Exceptions 1 & 3 are deleted.

907.2.9.3 exception is deleted.

907.3.1 delete exception 1.

907.3.1.1 Duct Smoke Detection is added to read:

The detectors remote indicator LED/station shall be installed in the finished space on the nearest wall to the unit and no more than five feet from the floor, in the same location as the FACP or, in an alternate conspicuous location acceptable to the Fire Code Official.

907.4.2.4 is deleted.

907.6.3 delete all exceptions

907.6.6.2 Point Identification and Zone Identification is added to read:

Alarm transmissions shall report point identification or zone identification to the remote supervising station.

912.1.1 F.D.C. is added to read:

Fire Department Connections shall be a 4" Storz connection shall be visible from the street of address and as close to the riser room as possible mounted not higher than 42 inches. A 30-degree elbow to grade shall be provided for mounting heights between 36-42 inches.

912.6 Backflow Protection. Shall be changed as follows:

The building and municipal potable water supply shall be protected against backflow in accordance with the requirements of this section, the State of Illinois Plumbing Code, or the AHJ.

913.4 Valve supervision. Shall be changed as follows:

Methods 2 through 4 are deleted.

1008.3 item 3.5 is amended to read:

Common areas of multi-user toilet and bathing rooms in public restrooms.

1108.6.2 is amended to read:

Accessible units, Type A units and Type B units shall be provided in group 2 occupancies in accordance with sections 1108.6.2.1 through 1108.6.2.4

1108.6.2.4 Additional Requirements is added to read:

These additional accessibility appurtenances are requirements for all R-2 dwelling units:

1. Space and all required connections for in-unit laundry (both washer and dryer) shall be provided in all dwelling units in all new structures and shall be arranged to provide a minimum of Type B unit accessible approach per ANSI A117.1.

2. Space and all required connections for a dishwasher shall be provided in all dwelling units in all new structures and shall be arranged to provide a minimum of Type B unit accessible approach per ANSI A117.1.

1206.2.2 Airborne sound in Hotel and R-1 uses is added to read:

Sound transmission class for 1207.2 shall be modified to ...(STC) of not less than 55 (50 if field tested) for airborne noise when tested in accordance with ASTM E 90.

1206.2.3 Airborne sound in R-2 uses is added to read:

Sound transmission class for 1207.2 in new structures shall be modified to ... (STC) of not less than 55 (50 if field tested) for air-borne noise when tested in accordance

with ASTM E 90. The STC analysis shall not include any finish material (wall-coverings or flooring treatments).

1206.3.1 Structure-borne sound in R-2 uses is added to read:

Sound transmission class for 1207.3 in new structures shall be modified to... impact insulation Class (IIC) of not less than 58 (53 if field tested) when tested in accordance with ASTM E 492. The IIC analysis shall not include any finish material (wall-coverings or flooring treatments).

1206.3.1.1 Stair structures is added to read:

Common Stair structures shall be steel staircases using concrete filled metal pan stairs (to mitigate low frequency structure-borne sound transmission).

1301.1.1 Criteria is amended to read:

Buildings shall be designed and constructed in accordance with the current Illinois Energy Conservation Code.

1403.1.1 Exterior Material in R-1 & R-2 Uses is added to read:

Unless otherwise approved by a development agreement, in all Use Group R-1, and in R-2 buildings with common corridors, aside from glazing materials, a minimum of 80% of all elevations of the building shall consist of an exterior finish material equivalent or better in performance than a nominal 4" wythe of clay unit masonry - face brick (class SW) when tested for all of the following:

1. impact resistance,
2. fire resistance of exterior finish material,
3. And isolation from street noise using sound transmission coefficients.

Determination of equivalency shall be at the sole discretion of the Chief Development Services Officer or his designee. Acceptable testing methods for equivalents shall use applicable testing standards from referenced testing agencies as outlined in Chapter 35 Referenced Standards of this code.

1612.3 is amended to read:

The City of Aurora flood hazard areas shall be based on the floodplain regulations in Chapter 18 of the municipal code.

1705.18 is amended to read:

Fire-resistant penetrations and joints. In high-rise buildings, R- occupancies or in buildings assigned to Risk Category III or IV, special inspections for through-penetrations, membrane penetration firestops, fire-resistant joint systems and perimeter fire barrier systems that are tested and listed in accordance with Sections 714.3.1.2, 714.4.2, 715.3 and 715.4 shall be in accordance with Section 1705.17.1 or 1705.17.2.

1809.5.2 Frost protection is added to read:

The frost line for Aurora, IL shall three (3) feet six (6) inches below the finished ground grade.

2410.1 is added to read:

Ground level or easily accessible, sliding glass doors serving dwelling units and sleeping units shall be equipped with an approved permanent anti-slide device.

2701.2 Electrical services is added to read.

Electrical services for new R-2 apartment buildings shall be served with an independently metered service per dwelling unit.

2701.3 is added to read:

Multiple Electrical Services. Buildings with multiple electrical services shall be provided with a shunt trip that simultaneously opens all electrical services including any emergency and standby power systems. Shunt trip shall be of a mushroom style push button provided with a protective cover. Button shall be identified with a sign that reads "EMERGENCY POWER SHUTDOWN SWITCH FOR FIRE DEPT USE ONLY".

2801.2 Natural gas services is added to read:

Metering. New R-2 apartment buildings shall be served with an independently metered service per dwelling unit.

2901.1 is amended to read as follows:

Scope. The provisions of this chapter and the International Plumbing Code shall govern the design, construction, erection, and installation of plumbing components, appliances, equipment, and systems used in buildings and structures covered by this code where not addressed by the Illinois Plumbing Code. Where conflicts occur between this code and the Illinois Plumbing Code, only the more restrictive provisions of this code shall apply, otherwise, the Illinois Plumbing Code shall apply.

Table 3001.3 is amended by removing automotive lift standard ALI ALCTV.

3001.4 Accessibility is amended to read:

Passenger elevators required to be accessible or to serve as part of an accessible means of egress shall comply with Sections 1009, 1110.10, and the current Illinois Accessibility Code (IAC).

3002.4 is amended to read:

Not inclusive of platform or LULA lifts, where full sized elevators are provided in NEW buildings, not fewer than one elevator, shall be provided for fire department emergency access to all floors regardless of rise. The elevator car shall be of such size and arrangement to accommodate a minimum 24-inch by 84-inch ambulance

stretcher in the horizontal open position and shall be identified by the International Symbol for emergency medical services (Star of Life). The symbol shall not be less than 3 x 3 inches high and wide (76 mm x 76 mm) and shall be placed inside on both sides of the main lobby hoist way door frame.

3003.3 is amended to read:

All elevators shall be equipped to operate with a standardized fire service elevator key in accordance with the International Fire Code for new and modernized (existing) elevators only.

3004.4 Personnel and material hoists is amended to read:

Personnel and material hoists shall be designed utilizing an approved method that accounts for the conditions imposed during the intended operation of the hoist device. The design shall include, but is not limited to, anticipated loads, structural stability, impact, vibration, stresses, and seismic restraint. The design shall account for the construction, installation, operation and inspection of the hoist tower, car, machinery and control equipment, guide members and hoisting mechanism. Additionally, the design of personnel hoists shall include provisions for field testing and maintenance that will demonstrate that the hoist device functions in accordance with the design. Field tests shall be conducted upon the completion of an installation or following a major alteration (a "jump") of a personnel hoist. All miscellaneous hoisting and elevating equipment shall be subjected to tests and inspections as required by the AHJ to ensure safe operation.

3005.1 is amended to read:

An approved means of access shall be provided to elevator machine rooms, control rooms, control spaces and machinery spaces. This means is not to be used as a passageway through the space to other areas of the building.

3005.4 delete Exception 2.

3009.1 is amended to read:

The design, construction and installation of elevators installed within a residential dwelling unit or installed to provide access to one individual residential dwelling unit shall conform to ASME 17.1/CSA B44, Section 5.3 of current state adopted elevator code edition.

3009.3 is amended to read:

Hoistway landing doors for private residence elevators shall comply with ASME A17.1/CSA B44, Requirements 5.3.1.8.1 through 5.3.1.8.3 for new and altered elevators.

3010.1 is added to read:

The operation of all equipment governed by the provisions of this chapter and hereafter installed, relocated or altered shall be unlawful by persons other than the

licensed installer until such equipment has been inspected and tested as herein required and a final certificate of compliance has been issued by the AHJ.

3010.2 Posting certificates of compliance is added to read:

The owner or lessee shall post the current-issued certificate of compliance in a conspicuous place inside the conveyance. A copy of the current issued certificate is acceptable. Please refer to Illinois Elevator Safety Act.

3303.6.1 Service connections is added to read:

Before a structure is demolished or removed, the owner or agent shall notify all utilities having service connections within the structure such as water, electric, gas, sewer, and other connections. Water and sewer connections shall be removed or sealed and plugged-in accordance with the requirements of the city's sewer and water maintenance department. City meters shall be returned to water and sewer department or two hundred percent of the cost of a replacement meter plus water usage assumptions and fines may be charged.

B101.2 is amended so that the last sentence reads:

The application shall be filed on a form obtained from the building official within ten (10) days after the notice was served.

B101.2.1 is added to read:

Application for Appeal shall be accompanied by a court reporter fee of seven hundred and fifty dollars (\$750).

B101.3.1 is amended to read:

Qualifications shall be in accordance with Sec 2-540 of the City of Aurora Code of Ordinances.

Sec 12-17.8 Same; Additions, Insertions, Deletions And Changes

The following sections of the 2024 International Fire Code adopted in section 12-16 are hereby revised as follows:

101.1 is amended to read:

There regulations shall be known as the Fire Code of The City of Aurora, hereinafter referred to as this code.

103.1 is amended to read:

The Division of Building and Permits under the Developments Services Department is hereby created and the official in charge thereof shall be known as the fire code official. The function of the agency shall be the implementation, administration, and enforcement of the provisions of this code.

103.2.1 is added to read:

The Fire Code Official for construction and remodeling permits shall be the Director of the Building & Permits and his designees. The Fire Code Official shall cooperate with the Fire Chief and the Fire Marshal.

103.2.2 is added to read:

The Fire Code Official for operational permits and existing structures shall be the Fire Marshal and his designees. The Fire Code Official shall cooperate with the Fire Chief and the Building Code Official.

105.5.12 is deleted.

105.5.30 LP - gas item one (1) exception is amended to read:

A permit is not required for individual containers with a 60-gallon (227 L) water capacity or less or multiple container systems having an aggregate quantity not exceeding 60 gallons (227 L)

105.5.36 Open Burning shall be changed to delete the exception.

105.5.41 Places of Assembly shall be changed as follows:

An operational permit is required to operate a place of assembly not on the level of discharge or over 300 occupants.

105.5.51 exception 3 is deleted.

105.5.57 is deleted.

105.5.58 Laboratory is added as follows:

An operational permit is required to operate any laboratory which does research, testing or experimenting.

105.5.59 Child-care is added:

An operational permit is required to operate a child-care business where 6 or more children (that do not reside permanently at the location) are cared for at any one time, and when required to be registered by the State of Illinois and/or the Department of Children and Family Services (DCFS).

112.1 is amended to read:

Means of appeal shall be in accordance with the Aurora Building Code.

112.2 is deleted.

112.3 is deleted.

112.4 is deleted.

113.3 Notice of Violation shall be changed to read as follows:

When the fire code official, Fire Marshal, Fire Chief or their designees finds a building, premises, vehicle, storage facility or outdoor area that is in violation of this code, the fire code official, Fire Marshal, Fire Chief or their designees are authorized to prepare a written notice of violation describing the conditions deemed unsafe and, when compliance is not immediate, specifying a time for re-inspection.

113.3.5 Costs of emergency repairs shall be added:

Costs incurred in the performance of emergency work shall be paid from the treasury of the jurisdiction on approval of the code official. The legal counsel of the jurisdiction shall institute appropriate action against the owner of the premises where the unsafe structure is or was located, and two hundred percent (200%) of the cost of such work may be charged against the real estate upon which the structure is or was located and shall be a lien upon such real estate.

113.4 Violation Penalties shall be changed to read as follows:

Persons who violate a provision of this code or shall fail to comply with any of the requirements there of or who shall erect, install, alter repair or do work in violation of the approved construction documents or directive of the fire code official, or of a permit or certificate used under the provisions of this code, shall be guilty of a Misdemeanor, punishable by a fine of not less than one-hundred dollars (\$100) and not more than one-thousand (\$1,000) dollars or by imprisonment as prescribed by

State Law, or both such fine and imprisonment. Each day that a violation continues after due notice has been served shall be deemed a separate offense.

114.4 is amended to read:

Any Person who shall continue any work after having been served with a stop work order, except such work as the person is directed to perform to remove a violation or unsafe condition, shall be liable to a fine of not less than \$500 or more than \$1,000 per offense per day.

202 is amended to add/ modify the following:

BEDROOM. (for purposes of determining minimum code requirements) a room with a minimum of 70 square feet in floor area (excluding clothing storage floor area), which is a habitable space, that may be lawfully furnished with a bed and used for sleeping, but not including the living room, dining room or a kitchen. However, a den, a study, a loft, or any room which may lawfully be used as a bedroom shall be considered a bedroom for the purpose of determining minimum safety requirements for current or future occupants.

BOARDING HOUSE. A building arranged or used for lodging for compensation or not, with or without meals, and not occupied by a single-family unit.

CODE OFFICIAL. The Building Official shall be the Director of the Building & Permits and his designees. All City employees are hereby designees of the Building Official. The Building Official shall cooperate with the Fire Chief and the Fire Marshal.

FIRE ACCESS DOOR. Any exterior door with code compliant landing and walkway which connects to the public way and provides access to potential fire staging area. Fire Access Doors may be part of a means of egress and marked as an exit, but they do not have to be a component of egress nor marked as such. If a Fire Access Door is part of an accessible means of egress the door and its associated components must comply with accessibility standards.

FIRE CODE OFFICIAL. The Fire Code Official for construction and remodeling permits shall be the Director of the Building & Permits and his designees. All City employees are designees of the Fire Code Official. The Fire Code Official shall cooperate with the Fire Chief and the Fire Marshal. The Fire Code Official for operational permits and existing structures shall be the Fire Marshal and their designees. The Fire Code Official shall cooperate with the Fire Chief and the Building Code Official.

GUEST ROOMS. A room used or intended to be used by one or more occupants not defined as family for living (see IPMC adoption for definition of family).

LODGING HOUSE. A one-family dwelling where one or more occupants are primarily permanent in nature with guest rooms, which does not qualify as a custodial care facility.

503.1.1 exception is added to read:

If the building is equipped throughout with an approved automatic sprinkler system installed in accordance with Section 903.3.1.1, the fire code official is authorized to increase the 150-foot dimension to 200 feet.

503.3.1 Fine Signage is added to read:

An additional sign acceptable to the Fire Marshal shall be added indicating "FINE \$250.00" (*Fine amount shall match the currently required accessible parking fine signage mandated by the State of Illinois).

503.3.2 Painted/Striped Designation is added to read:

The road/lane shall have the curb painted for the entire length: Or, if no curb is present the edge of the road surface shall be striped the entire length: Or lane shall be painted/striped as required by the Fire Marshal or his designee.

503.4.2 Fire Lane Penalties is added to read:

Any person parking a vehicle in a properly designated fire lane shall be punished as provided in the Code of Ordinances of the City of Aurora, Illinois Section 27-63.

506.1.1.1 Required Lock Box Locations is added to read:

1. Main entrance to the building.
2. Exterior access point to sprinkler room(s).
3. Exterior access to command center.
4. Electrical rooms.
5. At the location of other annunciators.

506.1.1.1 .1 is added to read:

Height. Key boxes shall be mounted at 5 feet above the finished floor/grade within the 5 feet of the access point unless otherwise approved by the AHJ.

507.5.1 delete all exceptions.

507.5.1.2 Hydrant Spacing is added to read:

Two (2) hydrants shall be located within a 400-foot radius of the building. All portions of the building shall be within a 400-foot radius of one or both hydrants.

507.5.1.3 Fire Department Connection Supply Hydrant is added to read:

A supply hydrant for any Fire Department Connection shall be located between 50-100 feet from the Fire Department Connection.

507.5.5 Clear space around hydrants is amended to read:

A 5-foot clear space shall be maintained around the circumference of fire hydrants except as otherwise required or approved.

507.5.7 Hydrant Marking is added to read:

In apartment, townhome, condominiums, town/row, or cluster housing "No Parking...Fire Hydrant" signs shall be placed: Or curb painting of fifteen (15) feet, (seven and one half (7 1/2 feet) each side of the fire hydrant) shall be painted by the developer, owner, or contractor.

507.5.7.1 Fine Signage is added to read:

An additional sign acceptable to the Fire Marshal shall be added indicating "FINE \$250.00" (*Fine amount shall match the currently required accessible parking fine signage mandated by the State of Illinois).

509.3 Enclosure of Fire Pumps, Fire Protection riser areas and/or Sprinkler control valve areas is added to read:

Fire pumps and fire protection riser areas shall be protected in accordance with IBC Table 509.1.

Exception: Secondary risers and auxiliary control valves need not be enclosed unless required by the code official.

509.4 Exterior Access to Enclosed Fire Pumps, Fire Protection riser areas and/or Sprinkler control valve areas is added to read:

Fire pumps, Fire protection riser areas and/or Sprinkler control valve areas shall be provided with direct exterior access, and an approved access walkway from a Fire apparatus access road to the access doorway, when required to be enclosed by 509.3.

603.10 is added to read:

Multiple Electrical Services. Buildings with multiple electrical services shall be provided with a shunt trip that simultaneously opens all electrical services including any emergency and standby power systems. Shunt trip shall be of a mushroom style push button provided with a protective cover. Button shall be identified with a sign that reads "EMERGENCY POWER SHUTDOWN SWITCH FOR FIRE DEPT USE ONLY".

903.1.2 New Building Square footage thresholds is added to read:

Except for one- and two-family dwellings, an automatic sprinkler system shall be required for all use groups where fire areas exceed 5,000 square feet. For fire areas 5,000 square feet or under, the section 903.2 use specific code text square footage thresholds shall still apply.

903.1.3 New Building Height thresholds is added to read:

Except for one- and two-family dwellings, an automatic sprinkler system shall be required for all use groups where building stories exceed two stories, and mixed-use group buildings, with one use above a different use exceeding one story. For buildings under two stories, the IBC Table 504.4 use specific code text number of story thresholds shall still apply.

903.1.4 Sprinkler systems when required for multi-tenant buildings is added to read:

Shall be provided with a tenant zoned flow switch and tampered control valve mounted at no more than 5 feet above finished floor and as accepted by the fire code official.

903.1.5 Design is added to read:

Drawings shall be reviewed and stamped by a NICET level III professional.

903.3.1.2 NFPA 13R sprinkler is amended to add the following exception:

Exception: Group R buildings of Type 3, Type 4 or Type 5 construction must be sprinklered in accordance with Section 903.3.1.1 and shall retain the sprinkler protection of Balconies and Decks in section 903.3.1.2.1.

903.3.5 Water supplies is amended to read:

Water supplies for automatic sprinkler systems shall comply with this section and the standards referenced in Section 903.3.1. The building and municipal potable water supply shall be protected against backflow in accordance with the requirements of this section and the State of Illinois Plumbing Code.

903.4.1 delete all exceptions.

903.4.3.1 Fire department connection alarms is added to read:

Exterior notification appliances with red lens strobe activated on water flow shall be placed above the Fire Department Connection at no less than 8 feet above grade.

905.4 item six is amended to read:

6. At fire access doors where the most remote portion of a nonsprinklered floor or story is more than 150 feet from a hose connection or the most remote portion of a sprinklered floor or story is more than 200 feet from a hose connection.

905.4 item 7 is added to read:

7. Where the most remote portion of a nonsprinklered floor or story is more than 150 feet (45 720 mm) from a hose connection or the most remote portion of a sprinklered floor or story is more than 200 feet (60 960 mm) from a hose connection.

905.9 delete exception 2.

907.1.1 is amended to read:

Construction documents for fire alarm systems shall be of sufficient clarity to indicate the location, nature and extent of the work proposed and show in detail this it will conform to the provisions of this code, the international fire code; and relevant laws, ordinances, rules and regulations as determined by the fire code official. Shop drawings shall be reviewed and stamped by a NICET level III or higher, or professional engineer.

907.1.3.1 is added to read:

Where a protected/rated sprinkler riser room exists the fire alarm control panel shall be located within unless approved by the fire code official.

907.1.4 Additional alarm requirements for sprinklered occupancies is added to read:

In addition to items required by section 907 the following appurtenances will also be required in the uses/occupancies when the occupancy is required to be sprinklered.

907.1.4.1 is added to read:

In single tenant occupancies alarm annunciators shall be located at the main entrance.

907.2.9.1 items 1 and 3 are amended to read:

1. Any dwelling unit or sleeping unit is located one or more stories above the lowest level of exit discharge.

3. The building contains more than 12 dwelling units or sleeping units.

907.2.9.1 Exceptions 1 & 3 are deleted.

907.2.9.3 exception is deleted.

907.3.1 delete exception 1.

907.3.1.1 Duct Smoke Detection is added to read:

The detectors remote indicator LED/station shall be installed in the finished space on the nearest wall to the unit and no more than five feet from the floor, in the same location as the FACP or, in an alternate conspicuous location acceptable to the Fire Code Official.

907.4.2.4 is deleted.

907.6.3 delete all exceptions

907.6.6.2 Point Identification and Zone Identification is added to read:

Alarm transmissions shall report point identification or zone identification to the remote supervising station.

912.1.1 F.D.C. is added to read:

Fire Department Connections shall be a 4" Storz connection shall be visible from the street of address and as close to the riser room as possible mounted not higher than 42 inches. A 30-degree elbow to grade shall be provided for mounting heights between 36-42 inches.

912.6 Backflow Protection. Shall be changed as follows:

The building and municipal potable water supply shall be protected against backflow in accordance with the requirements of this section, the State of Illinois Plumbing Code, or the AHJ.

913.4 Valve supervision. Shall be changed as follows:

Methods 2 through 4 are deleted.

1008.3 item 3.5 is amended to read:

Common areas of multi-user toilet and bathing rooms in public restrooms.

5601.1.3 Fireworks is amended to read:

It shall be unlawful to sell, offer for sale, give, store, use, possess, explode, fire, ignite or discharge any fireworks or other pyrotechnics within the corporate boundaries of the city. No public exhibition of fireworks shall be made or given unless the exhibition of the same is previously approved, by the fire marshal, upon written application, and the exhibition is supervised by the fire marshal, the fire chief, or one of their designees.

5601.3.1 Storage of Explosives and Blasting Agents is added to read:

The area limits in which storage of explosives and blasting agents is prohibited are established as follows: The entire area of the city except that portion classified as M-2 manufacturing district under the city zoning ordinance, being Ordinance No.

3100 as amended from time to time; And then only when permitted by the Zoning Administrator and Fire Marshal.

5606.5.1.4 Small arms ammunition is added to read:

Shall be located in a locked display cabinet and/or locked storage area.

5704.2.9 Above-ground tanks is amended to read:

Above-ground storage of *flammable* and *combustible liquids* in tanks shall comply with Section 5704.2 and Sections 5704.2.9.1 through 5704.2.9.7.9. The area limits in which storage of flammable and combustible liquids in outside above-ground tanks is prohibited throughout the entire area of the city except by special application to and approval by the fire marshal; and then only when permitted by the Zoning Administrator.

5706.4 Bulk plants or terminals is amended to read:

Portions of properties where *flammable* and *combustible liquids* are received by tank vessels, pipelines, tank cars or tank vehicles and stored or blended in bulk for the purpose of distribution by tank vessels, pipelines, tanks cars, tank vehicles or containers shall be in accordance with Sections 5706.4.1 through 5706.4.10.4. The area limits in which new bulk plants for flammable and combustible liquids are prohibited are established as follows: The entire area of the city except by special application to and approval by the city council and Fire Marshal.

6101.1.1 Bulk Storage of Liquefied Petroleum Gasses. Shall be added as follows:

The area limits in which bulk storage of liquefied petroleum gas is prohibited are established as follows: The entire area of the city except that portion classified as M-2 manufacturing district under the city zoning ordinance, being Ordinance No. 3100 as amended from time to time; and then only as approved by the Fire Marshal.

Table C102.1 reference to Minimum Number of Hydrants which equal One (1) shall be amended to Two (2).

C102.1.1 is added to read:

The following conditions shall also apply to hydrant placement on private property:

1. A fire hydrant shall be located between fifty (50) feet to one hundred (100) feet from fire department connection.
2. Hydrants shall not be located within 50 feet from the building perimeter (collapse zone).

3. Hydrants shall be located no more than 5 feet from all-weather roadways. When existing obstructions cannot be avoided, the closest part of the hydrant shall be placed no less than two (2) feet back from the face of the curb or edge of pavement. Center of discharge outlets shall be located eighteen (18) to twenty-four (24) inches above final grade and steamer outlet shall face the street or access road. Hydrants shall be plumb and capped at all times.
4. When fire hydrants are located in open areas such as parking lots, entrance, exit, loading and unloading zones, they shall be protected from vehicle traffic by four-inch steel pipe posts. Posts shall be set in concrete. Inside of post shall be filled with concrete from bottom to top and crowned. Distance between fire hydrant and post shall be three (3) feet.
5. All fire hydrants shall be placed on looped water mains or on isolated dead ends no more than 150' from the municipal water supply.
6. Extension of water mains. Water mains and fire hydrants located thereon shall be extended in all developments across and one (1) foot beyond the lot or lots being developed, in all directions, along the public streets.
7. Fire hydrant maintenance and inspection. Where fire hydrants are located on private property, the hydrant and water main shall be repaired and maintained by the private property owner or developer, and the city fire department and water maintenance department shall and are given authority to go on private property for periodic testing and inspection of fire hydrants to assure their functioning and use under emergency conditions.

D103.2.1 Obstruction. Shall be added as follows:

Maximum height of roadway obstructions shall not exceed three (3) inches.

D103.4.1 Dead Ends at Sprinklered Buildings is added to read:

Fire apparatus access road dead ends at sprinklered buildings, shall be permitted to extend to 200 feet without an approved turnaround.

D103.4.2 Parking lot Dead Ends beyond the Extent of a Required Fire Lane is added to read:

If a required fire lane meets the hose stretch test of IFC 503 and could be terminated without an approved turnaround per D103.4 or D103.4.1; the adjacent parking field or pavement may continue past the fire lane termination without being considered a fire lane provided that a permanent parking island with "End Fire Lane" signage is provided at the required extent of the fire lane.

D103.6.3 Fine Signage is added to read:

An additional sign acceptable to the Fire Marshal shall be added to the Fire Lane Signage indicating "FINE \$250.00" (*Fine amount shall match the currently required handicapped parking fine signage mandated by the State of Illinois).

D103.6.4 Signage Frequency is added to read:

Signage shall be placed at both ends of the Fire Lane and shall be placed at intervals of one hundred and fifty (150) feet.

F101.2.1 Signage is added to read:

Minimum size of sign shall be 10 3/4 inches square, shall be permanent and of a material acceptable to the Fire Code official.

DIVISION 12-II-5 FUEL GAS CODE

Sec 12-17.4 Same; Additions, Insertions, Deletions And Changes

Sec 12-17.4 Same; Additions, Insertions, Deletions And Changes

The following sections of the 2024 International Fuel and Gas Code; adopted in section 12-16 is hereby revised as follows:

101.1 is amended to read:

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

103.1 is amended to read:

The Division of Building and Permits under the Developments Services Department is hereby created and the official in charge thereof shall be known as the building official. Any reference in this code to the code official shall mean the building official. The function of the agency shall be the implementation, administration, and enforcement of the provisions of this code.

108.2.1 is added to read:

See International Building Code Section 109

108.6 is amended to read:

The code official shall authorize the refunding of fees per the International Building Code Section 109.6.

113.4 is amended to read:

Violation Penalties shall be as prescribed in the International Building Code Section 114.4

113.4.1 is added to read:

Unlawful continuance fines shall be as prescribed in the International Building Code Section 115.3

112.1 is amended to read:

Appeals to this code shall be conducted as prescribed in the adopted International Building Code.

112.2 is deleted.

112.3 is deleted.

112.4 is deleted

113.4 is amended to read:

Violation Penalties shall be as prescribed in the International Building Code Section 114.4.

301.1.2 Natural Gas Services is added to read:

New R-2 apartment buildings or existing buildings converting to R-2 use shall be served with an independently metered service per dwelling unit.

306.5.3. is added to read:

A hose bib shall be provided within 200 feet of any serviceable equipment located on a roof more than 16 feet above grade plane and greater than 5000 square feet in area. Hose bibs shall be installed in accordance with the Illinois Plumbing Code.

403.3.3 Copper and Copper Alloy. Shall be deleted

403.3.4 Aluminum. Shall be deleted

403.4 Metallic tubing. Shall be deleted

503.6.12.1 B Vent support is added to read:

B Vent support: B vent support shall be provided horizontally every 5 feet minimum with no screw penetrations unless specifically required by the vent manufacturer and then only when it can be demonstrated that the inner wall of the vent has not been penetrated.

DIVISION 12-II-4 MECHANICAL CODE

Sec 12-17.3 Same; Additions, Insertions, Deletions And Changes

Sec 12-17.3 Same; Additions, Insertions, Deletions And Changes

The following sections of the 2024 International Mechanical Code adopted in section 12-16 is hereby revised as follows:

101.1 is amended to read:

These regulations shall be known as the Mechanical Code of The City of Aurora, hereinafter referred to as "this code".

103.1 is amended to read:

The Division of Building and Permits under the Developments Services Department is hereby created and the official in charge thereof shall be known as the code official. The function of the agency shall be the implementation, administration, and enforcement of the provisions of this code.

108.2 is amended to read:

See International Building Code Section 109.

108.6 is amended to read:

The code official shall authorize the refunding of fees per the International Building Code Section 109.6.

112.1 is amended to read:

Means of appeal to this code shall be in accordance with the provisions of the 2024 Aurora Building Code.

112.2 is deleted.

112.3 is deleted.

112.4 is deleted.

113.1 is amended to read:

The board of appeals shall be in accordance with Sec 2-540 of the City of Aurora Code of Ordinances.

114.4 is amended to read:

Violation Penalties shall be as prescribed in the International Building Code Section 114.4.

115.2.1 is added to read:

Unlawful continuance fines shall be as prescribed in the International Building Code Section 115.3.

202 add the following definitions:

Connected Spaces (Refrigeration). Two or more spaces connected by natural ventilation, a ducted air distribution system, or mechanical ventilation.

Effective Dispersal Volume. The volume of a space or connected spaces in which leaked refrigerant will disperse.

Effective Dispersal Volume Charge (EDVC). The maximum refrigerant charge permitted for an effective dispersal volume.

306.5.3. is added to read:

A hose bib shall be provided within 200 feet of any serviceable equipment located on a roof more than 16 feet above grade plane and greater than 5000 square feet in area. Hose bibs shall be installed in accordance with the Illinois Plumbing Code.

506.3.2.6 is added to read:

Prior to final inspection of the grease duct installation:

1. Welded grease ducts - a certified welder shall certify with signature on company letter head that the grease duct: Has been manufactured and installed in a fully code compliant manner under their direct supervision. Has been sealed with code compliant gasketing materials rated at 1500 degrees Fahrenheit. Has been installed with liquid-tight welds made on the external surface of the duct. Has passed a light test as prescribed above, performed by the named certified welder.

2. Factory-built grease ducts – The installing contractor shall certify with signature on company letter head that the grease duct: Has been installed in a fully code compliant manner under their direct supervision. Has been sealed with code compliant gasketing materials rated at 1500 degrees Fahrenheit. Has been installed liquid-tight with sealant approved by the manufacturer. Has been installed in accordance with the manufacturer's installation requirements. Has passed any manufacturer suggested tests as prescribed and performed by the contractor listed on permit or an approved third-party.

506.3.11.3.1 Preliminary meeting is added to read:

Prior to the installation of factory-built grease duct the installing contractor shall schedule a meeting with the inspector to confirm the installation requirements from the manufacturer and inspection requirements of the city.

602.1.4 Construction Drawings is added to read:

Plenums shall be clearly defined in the construction drawings.

602.2.1 is deleted.

602.3.11 Plenum Marking and Identification is added to read:

Plenums shall be effectively and permanently identified with signage. Signage shall be posted prior to the first above ceiling inspections. Such identification shall:

1. Be located in accessible concealed floor or floor ceiling spaces.
2. Be repeated at intervals not exceeding 30 feet measured horizontally along walls that define the plenum.
3. Include lettering not less than ½" in height: incorporating the suggested wording:
"THIS CAVITY IS A MECHANICAL SYSTEM PLENUM. ALL COMBUSTIBLE MATERIALS MUST CONFORM TO IMC."

603.5.1 is deleted.

901.5 is added to read:

Any penetration of the firebox area made by a gas pipe shall be sealed by mortar or other method approved by the code official.

1101.1.1 is amended to read:

Refrigeration systems using a refrigerant other than ammonia shall comply with this chapter, the International Fire Code and either ASHRAE 15 or ASHRAE 15.2 as applicable. Refrigeration systems containing carbon dioxide as the refrigerant shall also comply with IAR CO2 .

1104.2 is amended to read:

Except as provided in Sections 1104.2.1 and 1104.2.2, all components containing the refrigerant shall be located either outdoors or in a machinery room where the quantity of refrigerant in an independent circuit of a refrigeration system exceeds both of the following:

1. The amounts shown in Table 1103.1, and
2. The effective discharge volume charge as calculated in accordance with ASHRAE 15.

1104.3.2 is amended to read:

Group A2 and B2 refrigerants shall not be used in high-probability systems. Group A3 and B3 refrigerants shall not be used except where approved.

Exceptions:

1. Laboratories where the floor area per occupant is not less than 100 square feet (9.3 m²).
2. Listed self-contained systems having a maximum of 0.331 pounds (150 g) of Group A3 refrigerant.
3. Industrial occupancies.
4. Equipment listed for and used in residential occupancies containing a maximum of 6.6 pounds (3 kg) of Group A2 or B2 refrigerant.

5. Equipment listed for and used in commercial occupancies containing a maximum of 22 pounds (10 kg) of Group A2 or B2 refrigerant.
6. Self-contained equipment using groups A3 and B3 refrigerants that are listed to UL 60335-2-89 and installed in accordance with the listing, the manufacturer's installation instructions, and ASHRAE 15.
7. Self-contained equipment using groups A3 and B3 refrigerants that are listed to UL 60335-2-40 and installed in accordance with the listing, the manufacturer's installation instructions, and ASHRAE 15.

1106.4 is amended to read:

Machinery rooms containing any Group A2L and B2L and containing no refrigerants of Group A2, B2, A3, and, B3 shall comply with Sections 1106.4.1 through 1106.4.3.

1107.4 is amended to read:

Refrigerant pipe shall conform to one or more of the standards listed in Table 1107.4. For refrigeration systems used in residential occupancies serving only a single dwelling unit or sleeping unit, refrigerant piping and tubing shall be limited to aluminum, copper, and copper alloy. The exterior of the pipe shall be protected from corrosion and degradation.

1107.5 is amended to read:

Refrigerant pipe fittings shall be approved for installation with the piping materials to be installed, and shall conform to one of more of the standards listed in Table 1107.5 or shall be listed and labeled as complying with UL 207. For refrigeration systems used in residential occupancies serving only a single dwelling unit or sleeping unit, refrigerant piping and tubing shall be limited to aluminum, copper, and copper alloys, stainless steel, and steel.

1109.2.5 Exception 2 is amended to read:

Piping in a direct refrigeration system where the refrigerant quantity does not exceed the limits of Table 1103.1 for the smallest occupied space through which the piping passes.

1109.2.7 an exception is added to read:

Exception: For refrigeration systems used in residential occupancies serving only a single dwelling unit or sleeping unit, pipe identification shall not be required.

1109.3.2 add the following sentence:

For refrigeration systems used in residential occupancies serving only a single dwelling unit or sleeping unit, shaft ventilation shall not be required where the pipe or tube is continuous without fittings in the shaft.

1210.1.1 is added to read:

Ground Water Source heat pump systems. Open loop heat pump systems which use/waste fresh ground water as a heat transfer medium are prohibited. Closed loop systems are permitted when allowed and registered by the County and when in compliance with the City of Aurora Code of Ordinances.

Chapter 15 add ASHRAE 15.2-2022

Safety Standard for Refrigeration Systems in Residential Applications

DIVISION 12-II-3 PLUMBING CODE

Sec 12-17.2 Same; Additions, Insertions, Deletions And Changes

Sec 12-17.2 Same; Additions, Insertions, Deletions And Changes

The following sections of the 2024 International Plumbing Code adopted in section 12-16 is hereby revised as follows:

101.1 is amended to read:

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

101.2 is amended to read:

Where not specifically addressed by the Current Illinois Plumbing Code, the provisions of this code shall apply to the erection, installation, alteration, repairs, relocation, replacement, addition to, use or maintenance of plumbing systems within this jurisdiction. This code shall regulate nonflammable medical gas, inhalation anesthetic, vacuum piping, nonmedical oxygen systems and sanitary and condensate vacuum collection systems. The installation of fuel gas distribution piping and equipment, fuel-gas-fired water heaters and water heater venting systems shall be regulated by the International Fuel Gas Code.

Exception: 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 not more than three stories above grade plane in height, shall comply with this code or the International Residential Code.

103.1 is amended to read:

The Division of Building and Permits under the Developments Services Department is hereby created and the official in charge thereof shall be known as the building official. The function of the agency shall be the implementation, administration, and enforcement of the provisions of this code.

108.6 is amended to read:

The code official shall authorize the refunding of fees per the Aurora Building Code Section 109.6.

112.1 is amended to read:

Means of appeal to this code shall be in accordance with the provisions of the 2024 Aurora Building Code.

112.2 is deleted.

112.3 is deleted.

112.4 is deleted.

114.4 is amended to read:

Violation Penalties shall be as prescribed in the International Building Code Section 114.4.

114.4.1 is added to read:

Unlawful continuance fines shall be as prescribed in the International Building Code Section 115.3.

DIVISION 12-II-7 RESIDENTIAL CODE

Sec 12-17.6 Same; Additions, Insertions, Deletions And Changes

Sec 12-17.6 Same; Additions, Insertions, Deletions And Changes

The following sections of the 2024 International Residential Code adopted in section 12-16 is hereby revised as follows:

R101.1 is amended to read:

These provisions shall be known as the Residential Code for One- and Two-family Dwellings of The City of Aurora, and shall be cited as such and will be referred to herein as “this code.”

R103.1 is amended to read:

The Division of Building and Permits under the Developments Services Department is hereby created and the official in charge thereof shall be known as the building official. The function of the agency shall be the implementation, administration, and enforcement of the provisions of this code.

105.1 Required is amended to read:

Any owner or owner's authorized agent who intends to construct, enlarge, alter, repair, move, demolish, or change the occupancy of a building or structure, including detached accessory structures; or to erect, install, enlarge, alter, repair, remove, convert or replace any electrical, gas, mechanical or plumbing system, the installation of which is regulated by this code; or to construct, erect, install, or enlarge a fence; or construct any driveway or for the installation of pavement in the form of private walks, patios or parking pads adjacent to driveways capable of parking vehicles or construct or modify pavement in the public right-of-way, including public sidewalks, aprons, curbs, and curb-cuts, or to cause any such work to be performed, shall first make application to the building official and obtain the required permit.

R105.2 is amended to read:

Work exempt from permit. Exemptions from permit requirements of this code shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of this code or any other laws or ordinances of this jurisdiction. Permits shall not be required for projects where in the opinion of the building official the material costs are under seven hundred and fifty dollars (\$750.00), or where the material plus the labor costs are less than one thousand five hundred dollars (\$1500.00) unless the building official determines necessary to issued when the permit is the subject of curing a code violation citation. In addition, permits shall not be required for the following:

Building:

1. *Retaining walls* that are not over 4 feet (1219 mm) in height measured from the bottom of the footing to the top of the wall, unless supporting a surcharge.
2. Water tanks supported directly upon *grade* if the capacity does not exceed 5,000 gallons (18 927 L) and the ratio of height to diameter or width does not exceed 2 to 1.
3. Sidewalks on private property not more than 30 inches above adjacent grade and not over any basement or story below, and are not part of an accessible route, provided that the sidewalk is not adjacent to a driveway for more than 5 feet. (Some private property sidewalks, all sidewalks in rights-of-way and all driveways require permits).
4. Painting, papering, tiling, carpeting, cabinets, counter tops and similar finish work.
5. Prefabricated swimming pools that are less than 24 inches (610 mm) deep.
6. Swings and other playground equipment.
7. Window awnings supported by an exterior wall that do not project more than 54 inches (1372 mm) from the exterior wall and do not require additional support.
8. Windows/Doors that are being replaced that do not alter the structural framing or egress requirements are exempt from a building permit. Note that if in a historic district, Fox Walk District or if a historic structure you will be required to obtain a certificate of appropriateness. Additionally, despite lack of permit requirement, the State Adopted Energy Conservation Code shall be adhered to.
9. Radon mitigation projects.

Electrical: delete subsequent text and amend to read:

Electrical installations per Article III. ELECTRICITY - section 103.2 and NEC 90.3 are exempt from permit.

PLUMBING:

Item three (3.) is added to read:

Replacement of water heaters with water heaters of like type; capacity and fuel demand.

R105.10 Withholding of permits is added to read:

Whenever the code official shall find that any contractor or owner is in violation of this code, or of any other ordinances of the city or state, he may refuse to grant any further permits to such violating contractor (or any owner employing such violating contractor) or to such violating owner (or anyone obtaining a permit for such violating owner's premises) until all violations have been corrected.

R105.10.1 Indebtedness to the City of Aurora is added to read:

Any City liens, fines or city fees shall be paid prior to permit issuance.

R105.11 is added to read:

Prerequisite for permit: No building permit for new construction shall be issued unless the following improvements are provided:

- 1. Refer to Section 43-12 Subdivision Control Ordinance.

R109.5 Dry and Stable access is added to read:

Except for foundation inspections, a minimum 24" wide dry and stable access shall be provided to all inspection access points. Inspections scheduled for which this dry and stable access has not been provided will be disapproved and may be disapproved with penalty.

R112.1.1 Appeals is added to read:

Appeals shall be made and conducted in accordance with the provisions of the adopted International Building Code - Appendix B Board of Appeals as amended.

R113.5 is added to read:

The applicant for a permit shall provide an estimated value of the work for which the permit is being issued at time of application. Such estimated valuations shall include the 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. Where, in the opinion of the building official, the valuation is underestimated, the permit shall be denied, unless the applicant can show detailed estimates acceptable to the building official. The building official shall have the authority to adjust the final valuation for permit fees.

R202 is amended to add/ modify the following:

Bedroom. A room with a minimum of 70 square feet in floor area (excluding clothing storage floor area), which is a habitable space, that may be lawfully furnished with a bed and used for sleeping, but not including the living room, a dining room or a kitchen. However, a den, a study, a loft, or any room which may lawfully be used as a bedroom shall be considered a bedroom for the purposes of determining minimum safety requirements for current or future occupants.

Building Official. The Building Official shall be the Director of the Building & Permits and his designees. All City employees are hereby designees of the Building Official. The Building Official shall cooperate with the Fire Chief and the Fire Marshal.

Guest Rooms. A room used or intended to be used by one or more occupants not defined as family for living (see IPMC adoption for definition of family).

Lodging House. A one-family dwelling where one or more occupants are primarily permanent in nature with guest rooms, which does not qualify as a custodial care facility.

Table R301.2 Insert:

Ground Snow Load	Wind Design				Seismic Design Category	Subject To Damage From			Ice Barrier Underlayment Required	Flood Hazards	Air Freezing Index	Mean Annual Temp
	Speed (mpg)	Topographic effects	Special Wind region	Windborne debris zone		Weathering	Frost line depth	Termite				
25	107	N/A	N/A	N/A	B	Severe	42 Inches	Moderate to Heavy	Yes	Yes, see Aurora Engineering Division	1635	48.7 degrees F
Manual J Design Criteria												
Elevation			Altitude Correction Factor	Coincident wet bulb	Indoor winter design relative humidity	Indoor winter design dry-bulb temperature			Outdoor winter design dry-bulb temperature		Heating temperature difference	
706			0.985	76.4	35%	70			-1		71	
Latitude			Daily range	Summer design grains	Indoor summer design relative humidity	Indoor summer design dry-bulb temperature			Outdoor summer design dry temperature		Cooling temperature difference	
41			Medium		50%	75			91		16	

R306.1.11 Additional Information for construction in areas prone to flooding is added to read:

For buildings and structures in flood hazard areas as established on local floodway rate maps, locally adopted floodplain ordinances shall additionally apply, and the most restrictive requirements shall apply.

309.1 is amended to read:

An automatic residential fire sprinkler system shall be installed in each individual townhouse with a first floor Living Space footprint exceeding 5,000 ft ².

R309.2 is amended to read:

An automatic residential sprinkler system shall be installed in One- and Two-family dwellings with a first floor Living Space footprint exceeding 5,000 ft ².

R312.2 text and exception is deleted and replaced with:

A habitable room, other than a kitchen, shall be not less than 7 feet (2134 mm) in any plan dimension. Kitchens shall have a minimum clear passageway of 3 feet (914 mm) between counterfronts and appliances or counterfronts and walls.

R315.6 Guards is added to read:

Guards complying with R321 shall be provided on open sides of sleeping lofts.

R318.2.1 is added to read:

All swinging exterior doors, garage man doors and garage service doors shall be equipped with a dead bolt lock with a minimum one-inch throw and dead locking latch. Mortise-type locks may be used; if the above-described requirements are met.

R319.4.4.1 Safety coverings is added to read:

Window wells shall be provided with flat covers capable of supporting at least 150 lbs.

R319.4.5 is added to read:

Area well locations shall be placed as remotely as practical from at grade door locations and shall place a min. #4 bar with min. 4" hooks at the top and bottom of each opening.

R324.7 is added to read:

Ground level or easily accessible, sliding glass doors shall be equipped with an approved permanent anti-slide device.

R325.1.4 Basements is added to read:

Window area in basements, except as may be otherwise specified for habitable rooms, the glass window area in basements shall not be less than two (2) percent of the floor area served, provided by windows complying with section R319.

R325.2.1 is added to read:

Bathrooms shall be mechanically exhausted directly to the outdoors.

R401.1 is amended to delete the last sentence and the exceptions.

R401.4.1 is amended to read:

A Geotechnical report from a soils engineer shall accompany all new home permit applications and shall be amended with observed in place results after excavation and prior to scheduling the Footing inspection. A copy of the revised report shall be given to inspector at the footing inspection.

R402.1 Wood Foundations and its subsections are deleted and not permitted.

Tables R403.1(1), 403.1(2) and 403.1(3) are amended so that the minimum thickness of footings of 6 inches shall be replaced with 8 inches.

Figures R403.1 (2) and R403.1 (3) Permanent Wood Foundations is deleted and not permitted.

R403.2 is deleted and not provided.

R403.4 and its subsections, figures and tables are deleted and not permitted.

R403.5 and its subsections, figures and tables are deleted and not permitted.

R403.5, figures and tables are deleted and not permitted.

Table R404.1.2.1 (1) Plain Masonry Foundation Walls shall be amended as follows:

Maximum Wall Height (feet)	Maximum Unbalanced Backfill Height ^c (feet)	Plain Masonry ^a Minimum Nominal Wall Thickness (inches)		
		Soil Classes ^b		
		GW, GP, SW and SP	GM, GC, SM, SM-SC and ML	SC, MH, ML-CL and inorganic CL
5	4	8	8	8
	5			10
6	4	8	8	8
	5			10
	6		10	12
7	4	8	8	8

	5		10	10
	6	10	12	10 solid ^d
	7	12	10 solid ^d	12 solid ^d
8	4	8	8	8
	5		10	12
	6	10	12	12 solid ^d
	7	12	12 solid ^d	Footnote ^e
	8	10 solid ^d	12 solid ^d	Footnote ^e
9	4	8	8	8
	5		10	12
	6	10	12	12 solid ^d
	7	12	12 solid ^d	Footnote ^e
	8	12 solid ^d	Footnote ^e	Footnote ^e
	9	Footnote ^e	Footnote ^e	Footnote ^e

Table R404.1.3.2(2) is deleted. Minimum thickness of concrete basement walls is 8 inches.

Table R404.1.3.2(5) is deleted. Minimum thickness of waffle-grid basement walls is 8 inches.

Table R404.1.3.2(7) is deleted.

R404.2 and it’s subsections are deleted and not permitted.

R405.2 and it’s subsections are deleted and not permitted.

R406.3 and it’s subsections are deleted and not permitted.

R502.7.1 Bridging is amended to read:

All Joists shall be supported laterally by solid blocking, diagonal bridging (wood or metal) or continuous 1 inch x 3-inch strips nailed across the bottom of the joist perpendicularly to the joist at intervals not exceeding 8 feet.

R503.2.2.1 is added to read as follows:

Minimum thickness, subfloors. Subfloors shall not be less than 3/4-inch nominal or as prescribed in Table R503.2.1.1(1). Other materials may be used when approved by the code official.

R503.2.2.1 is added to read as follows:

Minimum thickness, roof decking. Roof decking shall not be less than 1/2-inch nominal or as prescribed in Table R503.2.1.1(1). Other materials may be used when approved by the code official.

R504 is deleted.

R602.3.2 Exception and Table R602.3.2 is deleted and not permitted.

R602.7.1 is added to read:

Single member headers shall be provided with blocking to prevent rotation at 16 inches on center.

R703.9 is amended to read:

Exterior insulation and finish systems (EIFS) shall comply with this chapter and Section R703.9.1. Where permitted, EIFS installations shall be required to provide a manufacturer's certificate of inspection to the owner and shall be kept for inspection upon request. Repairs to existing EIFS systems shall be permitted to be repaired with EIFS systems w/drainage using the installation recommendations of the Manufacturer.

R703.9.2 is deleted and not permitted.

R803.2.2.1 is added to read:

Minimum thickness. Roof decking shall not be less than 1/2-inch nominal plywood or as prescribed in Table R503.2.1.1(1). Other materials may be used when approved by the building official.

R1003.9.2.1 is amended to read:

A spark arrestor is required to be installed on all masonry chimneys.

Chapter 11 Energy Conservation shall be deleted in its entirety; Compliance shall be determined by the current State of Illinois Energy Conservation Code.

M1401.1.1 Temporary Heat system required is added to read:

Use of the new furnace during construction activities shall be prohibited. If new furnace is found to have been used, final inspections will not pass without a full system cleaning certification, plus the posting of a contractor installation and equipment warranty to match the manufacturer's equipment warranty period (if the manufacturer's warranty has been compromised by not following the manufacturer's installation instructions).

M1601.1.1 item 9 is added to read:

Ductwork; Shall not protrude from the framing cavity when applications of finishes will compress or deform the duct.

M1602.2 item 2.1 is added to read:

Disbursal of return air openings shall be taken from each finished floor inside of the dwelling unit. Dilution of return air with outdoor air shall be permitted.

G2414.4 is deleted and not permitted.

G2426.6.1 is added to read:

B-vent support shall be provided every 5 feet minimum with no screw penetrations unless specifically required by the vent manufacturer and then only when it can be demonstrated that the inner wall of the vent has not been penetrated.

Chapters 25-32 Plumbing shall be deleted and replaced with the following:

P2501.1. Scope. Per the State of Illinois preemption all Plumbing work shall conform to the current edition of the Illinois State Plumbing Code.

P2501.2 Hose bib locations: 2 hose bibbs located as remotely as practicable shall be required per residence (e.g. front and rear yards).

P2501.3 Water Distribution Piping: Water distribution piping shall be installed so that all water supplies except for hose bibbs are fed from an isolated single branch pipe for the possible future installation of a water filtration system.

P2501.4 Water services shall be sized per the State of Illinois Plumbing Code. New water service size shall be a minimum 1 inch.

P2501.5 Public Systems Available: Variations from provisions contained in this section may be applied for by filing an application with the public works department for referral to and consideration by the city council.

P2501.5.1 A public water main shall be considered available to a building when the building is located within one thousand two hundred (1,200) feet of the public water main. Private wells shall not be allowed within the jurisdiction of the City of Aurora except as provided by section 48-28 of the Aurora Code of Ordinances.

P2501.5.2 A public sewer system shall be considered available when the nearest point of the property is located within one thousand two hundred (1,200) feet of the public sewer.

P2502.1 Required storm sump pit discharge shall be handled in conformance with one of the following:

1. Discharge to the public storm sewer may occur at any time in conformance with City of Aurora Standard Specifications for Improvements.
2. Discharge to grade, when not prohibited above, may be permitted provided that the point of discharge is at least fifteen (15) feet from all property lines. Sump pumps shall not discharge directly into any street, sidewalk onto adjacent property, or in any manner that will flood or cause a nuisance. Sump discharge contrary to the above provisions shall be considered a violation as a public nuisance of the adopted IPMC 304 Exteriors, Roofs and Drainage subsection.

Part VIII- Chapters 34-43 are deleted. Electrical shall comply with the Aurora Electrical Code.

BO104.4 is amended to read:

Repair or replacement of existing electrical wiring and equipment shall comply with the Aurora Electrical Code.

BO105.5.1 is amended to read:

Newly installed electrical equipment and wiring relating to work done in any work area, including in newly installed partitions and ceilings, shall comply with the materials and methods requirements of Aurora Electrical Code.

BO105.5.3.3

Ground-fault circuit interruption shall be provided on newly installed receptacle outlets if required by Aurora Electrical Code.

BO105.5.3.5 is amended to read:

Clearance for electrical service equipment shall be provided in accordance with the Aurora Electrical Code.

ARTICLE 12-III ELECTRICITY

<u>Sec</u>	<u>12-31</u>	<u>Annex</u>	<u>H</u>	<u>Electrical</u>	<u>Code</u>	<u>Administrative</u>	<u>Provisions</u>	<u>Adopted</u>
<u>Sec</u>	<u>12-32</u>			<u>Electrical</u>	<u>Code</u>		<u>Ordinance</u>	<u>Adopted</u>
<u>Secs</u>		<u>12-33</u>			<u>-</u>		<u>12-100</u>	<u>(Reserved)</u>

Editor's note— Ord. No. 018-014, § 1(Exh. A), adopted January 23, 2018, repealed the former Art. III, §§ 12-31–12-100, and enacted a new Art. III as set out herein. The former Art. III pertained to similar subject matter and derived from Ord. No. 092-37, § 1, 6-2-92; Ord. No. 093-05, § 4, 1-5-93; Ord. No. 099-41, §§ 1–4, 6–12, 6-8-99; Ord. No. 001-17, § 1, 2-27-01.

Sec 12-31 Aurora Electrical Code Administrative Provisions

SECTION 101 - GENERAL

101.1 Purpose. A purpose of this code is to establish minimum requirements to safeguard public health, safety and general welfare by regulating and controlling the design, construction, installation, quality of materials, location, operation and maintenance or use of electrical systems and equipment.

101.2 Scope. This code applies to the design, construction, installation, alteration, repairs, relocation, replacement, addition to, use or maintenance of electrical systems and equipment.

101.3 Appeals: Appeals shall be conducted by the Electrical Commission as defined in Article I of the Aurora Building Code and per the adopted rules of the Commission.

SECTION 102 - APPLICABILITY

102.1 General. The provisions of this code apply to all matters affecting or relating to structures and premises, as set forth in Sec.101.

102.2 Existing installations. Except as otherwise provided for in this chapter, a provision in this code shall not require the removal, alteration or abandonment of, nor prevent the continued utilization and maintenance of, existing electrical systems and equipment lawfully in existence at the time of the adoption of this code.

102.2.1 Practical Safeguarding for Existing Installations. Existing electrical installations that do not comply with the provisions of this code shall be permitted to continue in use unless the authority having jurisdiction determines that the lack of conformity with this code presents an imminent danger to occupants. Where changes are required for correction of hazards, a reasonable amount of time shall be given for compliance, depending on the degree of the hazard.

1. Non-Compliant Existing Conditions and Installations at existing structures undergoing repairs, renovations, alteration, extensive alterations or reconstruction may remain unless indicated to be remedied in proportion to the extent of the project per the adopted existing structures code:

a. One- and Two-Family structures; refer to the adopted International Residential Code - Appendix BO.

b. Non-One- and Two-Family structures; refer to the adopted International Existing Building Code.

2. In addition by further determination of the authority having jurisdiction, the following are hereby determined to constitute an imminent danger to occupants.

a. Inadequate Service Capacity

b. Inadequate Service Grounding

i. Grounding location more than 5 feet from water service entry and per Art 250.68 (C).

ii. Grounding or bonding locations where non-conductive materials interrupt the required conductive path per Art 250.68 (B).

c. Improper fusing

d. Improper wiring or installation that was not installed per the applicable code at the date of the installation.

e. Deterioration or Damage

f. Corroded, Rusted Switchgear, Bussing, Branch Circuit Panelboards

g. Electrical wiring, of all types, not supported in an approved manner.

h. Splices unenclosed in approved boxes other than knob and tube wiring in areas where Knob and Tube are permitted to remain.

i. Absence of or use of unapproved connectors for splices and termination into boxes or cabinets.

j. Wiring with insulation deterioration or other damaged conditions.

k. Flexible cords used as a substitute for fixed wiring.

l. Flexible cords where running through or concealed within walls, ceilings, dropped-ceilings, baseboard and floors.

m. Boxes or conduit with excessive numbers of conductors based upon permitted installation date.

n. Knob and Tube wiring in areas other than concealed within framing cavities or within limited access or lockable attics.

o. Exposed fuse blocks or exposed terminal-cleat type light fixtures in areas where Knob and Tube would not be permitted to remain.

p. Other items determined imminently dangerous by the Authority Having Jurisdiction.

102.3 Maintenance. Electrical systems, equipment, materials and appurtenances, both existing and new, and parts thereof shall be maintained in proper operating condition in accordance with the original design and in a safe, hazard-free condition. Devices or safeguards that are required by this code shall be maintained in compliance with the code edition under which installed. The owner or the owner's authorized agent shall be responsible for the maintenance of the electrical systems and equipment. To determine compliance with this provision, the building official shall have the authority to require that the electrical systems and equipment be reinspected.

102.4 Additions, alterations and repairs. Additions, alterations, renovations and repairs to electrical systems and equipment shall conform to that required for new electrical systems and equipment without requiring that the existing electrical systems or equipment comply with all of the requirements of this code. Additions, alterations and repairs shall not cause existing electrical systems or equipment to become unsafe, hazardous or overloaded.

Minor additions, alterations, renovations and repairs to existing electrical systems and equipment shall meet the provisions for new construction, except where such work is performed in the same manner and arrangement as was in the existing system, is not hazardous and is approved.

102.5 Subjects not regulated by this code. Where no applicable standards or requirements are set forth in this code, or are contained within other laws, codes, regulations, ordinances or bylaws adopted by the jurisdiction, compliance with applicable standards of nationally recognized standards as are approved shall be deemed as prima facie evidence of compliance with the intent of this code. Nothing herein shall derogate from the authority of the building official to determine compliance with codes or standards for those activities or installations within the building official's jurisdiction or responsibility.

SECTION 103 - PERMITS

103.1 Types of permits. An owner, authorized agent or contractor who desires to construct, enlarge, alter, repair, move, demolish or change the occupancy of a building or structure, or to erect, install, enlarge, alter, repair, remove, convert or replace electrical systems or equipment, the installation of which is regulated by this code, or to cause such work to be done, shall first make application to the building official and obtain the required permit for the work.

Exception: Where repair or replacement of electrical systems or equipment must be performed in an emergency situation, the permit application shall be submitted within the next working business day of the department of electrical inspection.

103.2 Work exempt from electrical permit(s). The following work shall be exempt from the requirement for a permit:

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. Temporary wiring for experimental purposes in suitable experimental laboratories or temporary system for testing or servicing of electrical equipment or apparatus [IBC exemption].
5. Telecommunication wiring, devices, appliances, apparatus or equipment operating at less than 50 volts, and not associated with fire alarm , other life safety systems and low-voltage suspended ceiling systems.
6. Minor maintenance such as changing a switch, receptacle, light fixture, ceiling fans less than 35 lbs., ballasts and bulbs; providing wiring and junction boxes are not altered.
7. Repair or replacement of branch circuit overcurrent devices w/devices appropriately sized for the conductors.
8. Wiring replacement for mechanical equipment from existing switch or existing disconnect where the circuit conductors are of adequate size. 7. Wiring replacement for industrial machinery from existing switch or existing disconnect where the circuit conductors are of adequate size.
9. Wiring replacement for electrified signage from existing switch or existing disconnect where the circuit conductors are of adequate size.
10. Single family owner occupied home projects not requiring special knowledge (see IBC section 117): where the equipment and material costs are less than \$500.
 - a. Example of exception items that require special knowledge include electrical items covering the service, solar systems and / or EV charging stations.

Exemption from the permit requirements of this code shall not be deemed to grant authorization for work to be done in violation of the provisions of this code or other laws or ordinances of this jurisdiction.

SECTION 104 - CONSTRUCTION DOCUMENTS

104.1 Information on construction documents. Construction documents shall be drawn to scale upon suitable material. Electronic media documents are permitted to be submitted where approved by the building official. Construction documents shall be of sufficient clarity to indicate the location, nature and extent of the work proposed and show in detail that such work will conform to the provisions of this code and relevant laws, ordinances, rules and regulations, as determined by the building official.

104.2 Penetrations. Construction documents shall indicate where penetrations will be made for electrical systems and shall indicate the materials and methods for maintaining required structural safety, fire-resistance rating and fireblocking.

104.3 Load calculations. Where an addition or alteration is made to an existing electrical system, an electrical load calculation shall be prepared to determine if the existing electrical service has the capacity to serve the added load.

SECTION 105 - ALTERNATIVE ENGINEERED DESIGN

105.1 General. The design, documentation, inspection, testing and approval of an alternative engineered design electrical system shall comply with this section.

105.2 Design criteria. An alternative engineered design shall conform to the intent of the provisions of this code and shall provide an equivalent level of quality, strength, effectiveness, fire-resistance, durability and safety. Materials, equipment or components shall be designed and installed in accordance with the manufacturer's installation instructions.

105.3 Submittal. The registered design professional shall indicate on the permit application that the electrical system is an alternative engineered design. The permit and permanent permit records shall indicate that an alternative engineered design was part of the approved installation.

105.4 Technical data. The registered design professional shall submit sufficient technical data to substantiate the proposed alternative engineered design and to prove that the performance meets the intent of this code.

105.5 Construction documents. The registered design professional shall submit to the building official two complete sets of signed and sealed construction documents for the alternative engineered design. The construction documents shall include floor plans and a diagram of the work.

105.6 Design approval. Where the building official determines that the alternative engineered design conforms to the intent of this code, the electrical system shall be approved. If the alternative engineered design is not approved, the building official shall notify the registered design professional in writing, stating the reasons therefor.

105.7 Inspection and testing. The alternative engineered design shall be tested and inspected in accordance with the requirements of this code.

SECTION 106 - REQUIRED INSPECTIONS

106.1 General. The building official, upon notification, shall make the inspections set forth in this section.

106.2 Underground. Underground inspection shall be made after trenches or ditches are excavated and bedded, piping and conductors installed, and before backfill is put in place. Where excavated soil contains rocks, broken concrete, frozen chunks and other rubble that would damage or break the raceway, cable or conductors, or where corrosive action will occur, protection shall be provided in the form of granular or selected material, approved running boards, sleeves or other means.

106.3 Rough-in. Rough-in inspection shall be made after the roof, framing, fireblocking and bracing are in place and all wiring and other components to be concealed are complete, and prior to the installation of wall or ceiling membranes.

106.4 Contractors' responsibilities. It shall be the responsibility of every contractor who enters into contracts for the installation or repair of electrical systems for which a permit is required to comply with adopted state and local rules and regulations concerning licensing.

SECTION 107 - PREFABRICATED CONSTRUCTION

107.1 Prefabricated construction. Prefabricated construction shall meet the Aurora Electrical code(s) and is subject to Sections 107.2 through 107.5.

107.2 Evaluation and follow-up inspection services. Prior to the approval of a prefabricated construction assembly having concealed electrical work and the issuance of an electrical permit, the building official shall require the submittal of an evaluation report on each prefabricated construction assembly, indicating the complete details of the electrical system, including a description of the system and its components, the basis upon which the system is being evaluated, test results and similar information, and other data as necessary for the building official to determine conformance to this code.

107.3 Evaluation service. The building official shall designate the evaluation service of an approved agency as the evaluation agency and review such agency's evaluation report for adequacy and conformance to this code.

107.4 Follow-up inspection. Except where ready access is provided to electrical systems, service equipment and accessories for complete inspection at the site without disassembly or dismantling, the building official shall conduct the in-plant inspections as frequently as necessary to ensure conformance to the approved evaluation report or shall designate an independent, approved inspection agency to conduct such inspections. The inspection agency shall furnish the building official with the follow-up inspection manual and a report of inspections upon request, and the electrical system shall have an identifying label permanently affixed to the system indicating that factory inspections have been performed.

107.5 Test and inspection records. Required test and inspection records shall be available to the building official at all times during the fabrication of the electrical system and the erection of the building; or such records as the building official designates shall be filed.

SECTION 108 - TESTING

108.1 Testing. Electrical work shall be tested as required in this code. Tests shall be performed by the permit holder and observed by the building official.

108.1.1 Apparatus, material and labor for tests. Apparatus, material and labor required for testing an electrical system or part thereof shall be furnished by the permit holder.

108.1.2 Re-inspection and testing. Where any work or installation does not pass an initial test or inspection, the necessary corrections shall be made so as to achieve compliance with this code. The work or installation shall then be resubmitted to the building official for inspection and testing.

SECTION 109 - RECONNECTION

109.1 Connection after order to disconnect. A person shall not make utility service or energy source connections to systems regulated by this code, which have been disconnected or ordered to be disconnected by the building official, or the use of which has been ordered to be discontinued by the building official until the building official authorizes the reconnection and use of such systems.

SECTION 110 - CONDEMNING ELECTRICAL SYSTEMS

110.1 Authority to condemn electrical systems. Wherever the building official determines that any electrical system, or portion thereof, regulated by this code has become hazardous to life, health or property, the building official shall order in writing that such electrical systems either be removed or restored to a safe condition. A time limit for compliance with such order shall be specified in the written notice. A person shall not use or maintain a defective electrical system or equipment after receiving such notice.

Where such electrical system is to be disconnected, written notice as prescribed in this code shall be given. In cases of immediate danger to life or property, such disconnection shall be made immediately without such notice.

SECTION 111 - ELECTRICAL PROVISIONS

111.1 Adoption. Electrical systems and equipment shall be designed, constructed and installed in accordance with NFPA 70 as applicable, except as otherwise provided in this code.

111.2 Abatement of electrical hazards. All identified electrical hazards shall be abated. All identified hazardous electrical conditions in permanent wiring shall be brought to the attention of the building official responsible for enforcement of this code. Electrical wiring, devices, appliances and other equipment which is modified or damaged and constitutes an electrical shock or fire hazard shall not be used.

111.3 Appliance and fixture listing. Electrical appliances and fixtures shall be tested and listed in published reports of inspected electrical equipment by an approved agency or OSHA Nationally Recognized Testing Laboratory -or- International Accreditation Service (IAS) Recognized Testing Laboratory and installed in accordance with all instructions included as part of such listing.

111.4 Cutting, notching and boring. The cutting, notching and boring of wood and steel framing members, structural members and engineered wood products shall be in accordance with this code.

111.5 Smoke alarm circuits. Single- and multiple-station smoke alarms required by this code and installed within new dwelling units shall not be connected as the only load on a branch circuit. Such alarms shall be supplied by branch circuits having lighting loads consisting of lighting outlets in habitable spaces.

111.6 Equipment and door labeling. Doors into electrical control panel rooms shall be marked with a plainly visible and legible sign stating ELECTRICAL ROOM or similar approved wording. The disconnecting means for each service, feeder or branch circuit originating on a switchboard or panelboard shall be legibly and durably marked to indicate its purpose unless such purpose is clearly evident.

SECTION 112 - LIABILITY FOR DAMAGES

112.1 Liability for Damages. This code shall not be construed to affect the responsibility or liability of any party owning, designing, operating, controlling, testing per NEC or OSHA requirements, or installing any electrical equipment for damages to persons or property caused by a defect therein, nor shall the Electrical Commission members or the City of Aurora or any of its employees be held as assuming any such liability by reason of inspection, re-inspection, other examination authorized or any lack of inspection thereof. `

(Ord. No. 018-014, § 1(Exh. A), 1-23-18)

Sec 12-32 Electrical Code Ordinance Adopted

That certain document, two (2) copies of which are on file in the office of the Building Code Official, being marked and designated as the City of Aurora Electrical Ordinance.

2023 NFPA -70 National Electrical Code; As published by the National Fire Protection Association and adopted as the Electrical Ordinance of the City of Aurora, Illinois in the State of Illinois: for the control and regulation of installation and/or alteration of electrical systems and electrical equipment; for the utilization of electricity for light, heat or power. Each and all of the regulations, penalties, conditions and terms of said edition of NFPA-70 are hereby referred to and amended in part hereof as if fully set out in this article, with the additions, insertions, deletions, and changes prescribed in ARTICLE III. Sec. 12-31 through 12-100.Ord. No. 092-37, § 1, 6-2-92; Ord. No. 099-41, §§ 1, 11, 6-8-99).

Article 100 Definitions added:

Nearest the Point of Entrance- Within 5 feet.

110.3(D) is added to read:

Examination and Inspection of Non-Labeled Manufacturing Equipment.

1. Conditions deemed as posing an imminent danger shall be required to be removed from service until repaired; OR until labeled from an IAS or OSHA Nationally Recognized Testing Laboratory or field tested from a third-party testing company as accepted by the Authority Having Jurisdiction.
2. For Non-Labeled Manufacturing Equipment, equipment owner and equipment supplier shall verify that OSHA regulations are being met without assessment or

inspection by City of Aurora personnel. Aurora's inspection responsibilities will end at the connection to the permanently installed power feed for the equipment. The suitability of the power to the equipment shall be the responsibility of the owner of the equipment or the manufacturer and shall be verified by the equipment's owner prior to installation.

- a. Non-Labeled Manufacturing Equipment may NOT be installed:
 - i. In hazardous locations,
 - ii. If equipment uses propane, gas or burns fossil fuels.

210.8(D)(6) is amended to read:

Sump pumps- GFCI protection shall be provided at the panel and a single receptacle.

210.23 (F) is added to read:

Existing 12 AWG branch circuits. Existing branch circuits with 12 AWG conductors that cannot be completely traced throughout the circuit shall be served by no more than 15 ampere breakers.

225.6(A) is amended to read:

- (1) For 1000 volts, nominal, or less, 10 AWG copper or 1/0 AWG aluminum for spans up to 15 m (50 ft) in length, and 8 AWG copper or 1/0 AWG aluminum for a longer span unless supported by a messenger wire.
- (2) For over 1000 volts, nominal, 6 AWG copper or 1/0 AWG aluminum where open individual conductors, and 8 AWG copper or 1/0 AWG aluminum where in cable.

225.10 is amended to read:

The installation of outside wiring on surfaces of buildings (or other structures) shall be permitted for circuits not exceeding 1000 volts, nominal, as the following:

- (1) Auxiliary gutters
- (2) Busways
- (3) Cable trays
- (4) Cablebus
- (5) Intermediate metal conduit (IMC)
- (6) Liquidtight flexible metal conduit (LFMC)
- (7) Liquidtight flexible nonmetallic conduit (LFNC)
- (8) Messenger-supported wiring
- (9) Reinforced thermosetting resin conduit (RTRC)
- (10) Rigid metal conduit (RMC)
- (11) Rigid polyvinyl chloride conduit (PVC)
- (12) TC-ER cable- limited to a manufactured HVAC system
- (13) Wireways

230.2(F) is added to read:

Buildings with multiple electrical services shall be provided with a shunt trip that simultaneously opens all electrical services including any emergency and standby power systems. Shunt trip shall be of a mushroom style push button provided with a protective cover. Button shall be identified with a sign that reads "EMERGENCY POWER SHUTDOWN SWITCH FOR FIRE DEPT USE ONLY".

230.23 (B) Minimum Size is amended to read:

The conductors shall not be smaller than 3 AWG copper or 1/0 AWG aluminum.

Section 230.31(B) Minimum Size is amended to read:

The conductors shall not be smaller than 3 AWG copper or 1/0 AWG aluminum.

Section 230.43 Wiring Methods for 1000 Volts, Nominal, or Less is amended to read:

Service-entrance conductors shall be installed in accordance with the applicable requirements of this Code covering the type of wiring method used and shall be limited to the following methods:

1. Rigid metal conduit (RMC)
2. Intermediate metal conduit (IMC)
3. Busways
4. Auxiliary gutters
5. Rigid polyvinyl chloride conduit (PVC)- Shall be schedule 80
6. Mineral-insulated, metal-sheathed cable, Type MI
7. High density polyethylene conduit (HDPE)- Shall be schedule 80
8. Reinforced thermosetting resin conduit (RTRC)
9. Flexible bus systems

230.51(D) is added to read:

All service entrance conduit for overhead service drops shall be supported by galvanized 2 piece back-straps or an approved equal.

250.8(B)(1) is added to read:

Steel sheet-metal strap type ground clamps shall not be used for connecting a grounding electrode conductor to a grounding electrode.

250.50(A) is added to read:

Unless otherwise accepted by the building official, a concrete encased electrode shall be installed in new structures with an electrical service.

250.64(A) is amended to read:

Aluminum and copper-clad aluminum is not permitted to be used as a grounding electrode conductor.

250.192 Underground/Under-slab/Concrete Encased Raceway is added to read:

A conductor to serve as a 100% redundant Equipment Grounding conductor shall be installed in all underground raceways and raceways in concrete.

310.3(A) is amended to read

The minimum size of conductors for voltage ratings up to and including 2000 volts shall be 14 AWG copper or 1/0 AWG aluminum or copper-clad aluminum, except as permitted elsewhere in this Code..

310.3(A)(1) is added to read:

For individually metered units of R-2, R-3 or R-4 uses (as defined in the IBC), the minimum size conductors shall be 3 AWG copper or 1/0 aluminum or copper-clad aluminum.

310.12 is deleted.

310.15(C)(1) add the following after second paragraph:

Fill exceeding 9 conductors may occur only as an engineered design alternative per Aurora electrical administrative provisions 105, when engineering calculations are provided in conformance with fill and ampere derating per Chapter 9 of the NEC.

Table 310.15(C)(1) is revised to read:

Number of Conductors	Percent of Values in Table 310.16 Through Table 310.19 as Adjusted for Ambient Temperature if Necessary
4-6	80
7-9	70
10-above	Only permitted through engineered design

314.3 is amended to read:

Nonmetallic shall not be installed, except in corrosive environments when approved or in non-grounded circuits when they are permitted to remain.

320.10 is amended to read:

Type AC cable shall only be permitted where included as a factory assembled sub-component of a manufactured system.

322 is deleted.

324 is deleted.

326 is deleted.

330.10 is amended to read:

Type MC cable shall be permitted as follows:

1. When fished into existing walls with not more than (6) six feet exposed.
2. Where included as a factory assembled sub-component of a manufactured system.
3. For branch circuits when remodeling existing owner-occupied one-and-two family dwellings.
4. Where approved by the building official.

334 is deleted.

338.1(A) is added to read:

Only USE cable is permitted. SE cable shall only be permitted for temporary power when protected by a raceway.

338.10(B) is deleted.

340.10 is amended to read:

Uses Permitted: Type UF cables shall be permitted when remodeling existing one - and-two family dwellings, only in underground exterior applications.

348.10 is amended to read:

Uses Permitted: FMC shall only be permitted when fished into existing wall and ceiling spaces with not more than (6) six feet exposed.

350.10 is amended to add (5):

(5) LFMC shall only be permitted in lengths not to exceed (6) six feet.

352.10 is amended as follows:

When permitted the transition at grade shall be 90 degree galvanized rigid metal conduit or Schedule 80 PVC.

Exception (1) Conduits and sleeves used exclusively for utility cables.

Exception (2) Conductors encased in concrete at Light Pole Bases.

(A) deleted

(D) deleted

(E) deleted

(F) deleted

(G) deleted

(I) deleted

(J) deleted

356.10 (5) is amended to read:

Installed in lengths not longer than 1.8 m (6 ft) where secured in accordance with 356.30.

356.12 (3) is amended to read:

In lengths longer than 6 feet.

358.42(A) is added to read:

EMT shall not be installed using indenter type couplings and connectors.

362 is deleted and not permitted.

378 is deleted and not permitted.

382 is deleted and not permitted.

386.60(A) is added to read:

Grounding. All surface metal raceways shall contain an equipment grounding conductor sized per table 250.122

388 is deleted and not permitted.

393 is deleted and not permitted.

394.10 is amended to read:

Uses Permitted. New installations of Knob-and-tube wiring shall not be installed. Existing knob-and-tube wiring shall not be extended or modified.

625.40(A) is added to read:

The EVSE branch circuit shall be at minimum provided with a $\frac{3}{4}$ " raceway and a 2- $\frac{1}{8}$ " x 4 $\frac{11}{16}$ " minimum box.

690.31(H) is added to read:

EMT shall be permitted for one-and-two family dwellings.

695 Fire Pumps: shall be amended as follows.

Section 695.5 (B) (1) Fire pump meter or cabinet: shall be sized in accordance with table 430.251 (B) Conversion of Polyphase Design b, c, and d Maximum Locked Rotor Currents.

E3401.1 Applicability. The provisions of 2015 International Residential Code Chapters 34 through 43 with the amendments below shall replace the adopted International Residential Code Chapters 34 through 43 and hereby establish the general scope of the electrical system and equipment requirements of this code. Chapters 34 through 43 cover those wiring methods and materials most commonly encountered in the construction of one- and two-family dwellings and structures regulated by this code. Other wiring methods, materials and subject matter covered in NFPA 70 are also allowed by this code.

E3401.2 Scope. Chapters 34 through 43 shall cover the installation of electrical systems, equipment and components indoors and outdoors that are within the scope of this code, including services, power distribution systems, fixtures, appliances, devices and appurtenances. Services within the scope of this code shall be limited to 120/240-volt, 0- to 400-ampere, single-phase systems. These chapters specifically cover the equipment, fixtures, appliances, wiring methods and materials that are most commonly used in the construction or alteration of one- and two-family dwellings and accessory structures regulated by this code. The omission from these chapters of any material or method of construction provided for in the referenced standard NFPA 70 shall not be construed as prohibiting the use of such material or method of construction.

E3401.2.1 Electrical systems, equipment or components not specifically covered in these chapters shall comply with the applicable provisions of NFPA 70. (Including but not limited to: alternative power generating equipment, photovoltaic, wind turbines and generators, etc.)

E3401.4 Additions and alterations. Any addition or alteration to an existing electrical system shall be made in conformity to the provisions of Chapters 34 through 43 additionally refer to Appendix J for additional requirements based upon the scope and area of work. Where additions subject portions of existing systems to loads exceeding those permitted herein, such portions shall be made to comply with Chapters 34 through 43.

E3601.6.2 Service disconnect location. The service disconnecting means shall be installed at a readily accessible location at the meter. Service disconnecting means shall not be installed in bathrooms. Each occupant shall have access to the disconnect serving the dwelling unit in which they reside.

E3602.2.1 Services under 100 amperes.

Services that are not required to be 100 amperes shall be sized in accordance with Chapter 37.

E3603.1 Grounded and ungrounded service conductor size.

Service and feeder conductors supplied by a single-phase, 120/240-volt system shall be sized in accordance with Table 3705.1.

Sections E3603.1. through E3603.2 shall be deleted.

E3603.4 Grounding electrode conductor size. The grounding electrode conductors shall be sized based on the size of the service entrance conductors as required in Table 3705.1.

Table E3603.4 shall be deleted.

E3605.5 Protection of all other service cables. Above-ground service-entrance cables, where subject to physical damage, shall be protected by one or more of the following: rigid metal conduit, intermediate metal conduit, or other approved means.

E3605.5.1 Conduit Support. Shall be added as follows: All service entrance conduit for overhead service drops shall be supported by galvanized 2 piece back-straps or an approved equal. Corrosion resistant materials shall be required per NEC 300.6

E3605.9 Overhead service locations. Connections at service heads shall be in accordance with Sections E3605.9.1 through E3605.9.7.

E3605.9.3 Service-head location. Service heads shall be located above the point of attachment of the service-drop or overhead service conductors to the building or other structure. Exception: Where it is impracticable to locate the service head above the point of attachment, the service head or gooseneck location shall be not more than 24 inches (610 mm) from the point of attachment.

E3605.9.5 Drip loops. Drip loops shall be formed on individual conductors. To prevent the entrance of moisture, service-entrance conductors shall be connected to the service-drop or overhead conductors below the level of the service head.

E3606.4 Marking. Service equipment shall be marked to identify it as being suitable for use as service equipment. Service equipment shall be listed. Individual meter socket enclosures shall be considered as service equipment.

E3608.1 Grounding electrode system.

E3608.1.2 Concrete-encased electrode.

Unless otherwise accepted by the building official, a concrete encased electrode shall be installed in new structures with an electrical service.

A concrete-encased electrode consisting of at least 20 feet (6096 mm) of either of the following shall be considered as a grounding electrode:

1. One or more bare or zinc galvanized or other electrically conductive coated steel reinforcing bars or rods not less than 1/2 inch (13 mm) in diameter, installed in one continuous 20-foot (6096 mm) length, or if in multiple pieces connected together by the usual steel tie wires, exothermic welding, welding, or other effective means to create a 20-foot (6096 mm) or greater length.

2. A bare copper conductor not smaller than 4 AWG.

Metallic components shall be encased by at least 2 inches (51 mm) of concrete and shall be located horizontally within that portion of a concrete foundation or footing that is in direct contact with the earth or within vertical foundations or structural components or members that are in direct contact with the earth. Where multiple concrete-encased electrodes are

present at a building or structure, only one shall be required to be bonded into the grounding electrode system.

E3701.3 Selection of ampacity. Where more than one calculated or tabulated ampacity could apply for a given circuit length, the lowest value shall be used.

E3702.1.1 Existing 12 AWG branch circuits: Existing branch circuits with 12 AWG conductors that cannot be completely traced throughout the circuit shall be served by no more than 15 ampere breakers.

TABLE E3705.1 ALLOWABLE AMPACITIES

CONDUCTOR SIZE	CONDUCTOR TEMPERATURE RATING						CONDUCTOR SIZE
	60°C	75°C	90°C	60°C	75°C	90°C	
AWG kcmil	Types TW, UF	Types RHW, THHW, THW, THWN, USE, XHHW	Types RHW-2, THHN, THHW, THW-2, THWN-2, XHHW, XHHW-2, USE-2	Types TW, UF	Types RHW, THHW, THW, THWN, USE, XHHW	Types RHW-2, THHN, THHW, THW-2, THWN-2, XHHW, XHHW-2, USE-2	AWG kcmil
	Copper			Aluminum or copper-clad aluminum			
14 ^a	15	20	25				
12 ^a	20	25	30				
10 ^a	30	35	40				
8	40	50	55				
6	55	65	75				
4	70	85	95				
3	85	100	115				

2	95	115	130				
1	110	130	145				
1/0	125	150	170	100	120	135	1/0
2/0	145	175	195	115	135	150	2/0
3/0	165	200	225	130	155	175	3/0
4/0	195	230	260	150	180	205	4/0

~~E3705.4.4 Conductors of Type NM cable. Delete section in its entirety~~

TABLE E3801.2 ALLOWABLE WIRING METHODS

ALLOWABLE WIRING METHOD		NEW STRUCTURES	EXISTING STRUCTURES for limitations of use refer to IRC Appendix J
Armored cable (BX)	AC	Deleted	Deleted - See FMC and MC for other options
Electrical metallic tubing (Conduit)	EMT	Permitted without indenter type couplings	Permitted without indenter type couplings
Electrical nonmetallic tubing	ENT	Deleted	Deleted
Flexible metal conduit (Greenfield)	FMC	Deleted	Limited in existing unexposed assemblies. (See IRC Appendix J). Then where partially exposed to transition to EMT/RMC shall only be permitted in lengths not to exceed (6) six feet.
Intermediate metal conduit	IMC	Permitted	Permitted

Liquidtight flexible metallic conduit	LFMC	Permitted in lengths not to exceed 6 feet	Permitted in lengths not to exceed 6 feet
Liquidtight flexible non-metallic conduit	LFNC	Permitted in lengths not to exceed 6 feet	Permitted in lengths not to exceed 6 feet
Metal-clad cable	MC	Deleted Except where included as a factory assembled sub component of a manufactured system.	Limited in existing unexposed assemblies. (See IRC Appendix J) Then where partially exposed to transition to EMT/RMC shall only be permitted in lengths not to exceed (6) six feet.
Nonmetallic sheathed cable (Romex)	NM	Deleted	Deleted
Rigid polyvinyl chloride conduit - (PVC)	RNC/PVC	Underground use only.	Underground use only.
Rigid metallic conduit	RMC	Permitted	Permitted
Service entrance cable	SE	Deleted	Deleted
Surface Metal raceways	SMR	Permitted when containing an equipment grounding conductor	Permitted when containing an equipment grounding conductor
Surface Non-Metallic raceways	SNR	Deleted	Deleted

Underground feeder cable	UF	Deleted	Limited see (IRC Appendix J) Only in exterior applications, and in conformance with the cable listing
Underground service cable	USE	Deleted	Deleted
USE-2	USE-2	Above ground when part of a manufacturers systems/requirements	Above ground when part of a manufacturers systems/requirements

TABLE E3801.4 ALLOWABLE APPLICATIONS FOR WIRING METHODS ^{a, b, c, d, e, f, g, h, i, j, k}

Note that uses of wiring methods are further restricted by Table 3801.2

ALLOWABLE APPLICATIONS (application allowed where marked with an "A")	EMT	FM C	IMC RMC RNC PVC	LFMC, LFNC ^{a, g}	MC	SMR
Services			A			--
Feeders	A	A	A	A		--
Branch circuits	A	A	A	A	A	A
Inside a building	A	A	A	A	A	A
Wet locations exposed to sunlight	A	--	A	A	A	--
Damp locations	A	A ^d	A	A	A	--
Embedded in noncinder concrete in dry location	A	--	A	A ^j	--	--
In noncinder concrete in contact with grade		--	A ^f		--	--
Embedded in plaster not exposed to dampness	A	A	A	A	A	--
Embedded in masonry	A	--	A ^f	A	A	--

In masonry voids and cells exposed to dampness or below grade line			A ^f	A	A	--
Fished in masonry voids	--	A	--	A	A	--
In masonry voids and cells not exposed to dampness	A	A	A	A	A	--
Run exposed	A	A	A	A	A	A
Run exposed and subject to physical damage	--	--	A ^g	--	--	--
For direct burial		--	A ^f	A		--

For SI: 1 foot = 304.8 mm.

- a. Liquid-tight flexible nonmetallic conduit without integral reinforcement within the conduit wall shall not exceed 6 feet in length.
- b. Type USE cable shall not be used inside buildings.
- c. The grounded conductor shall be insulated.
- d. Conductors shall be a type approved for wet locations and the installation shall prevent water from entering other raceways.
- e. Shall be listed as "Sunlight Resistant."
- f. Metal raceways shall be protected from corrosion and approved for the application. Aluminum RMC requires approved supplementary corrosion protection.
- g. RNC shall be Schedule 80.
- h. Shall be listed as "Sunlight Resistant" where exposed to the direct rays of the sun.
- i. Conduit shall not exceed 6 feet in length.
- j. Liquid-tight flexible nonmetallic conduit is permitted to be encased in concrete where listed for direct burial and only straight connectors listed for use with LFNC are used.
- k. In wet locations under any of the following conditions:
 1. The metallic covering is impervious to moisture.
 2. A lead sheath or moisture-impervious jacket is provided under the metal covering.
 3. The insulated conductors under the metallic covering are listed for use in wet locations and a corrosion-resistant jacket is provided over the metallic sheath.

TABLE E3802.1 GENERAL INSTALLATION AND SUPPORT REQUIREMENTS FOR WIRING METHODS a, b, c, d, e, f, g, h, i, j, k

Note that uses of wiring methods are further restricted by Table 3801.2

INSTALLATION REQUIREMENTS (Requirement applicable only to wiring methods marked "A")	MC	EMT IMC RMC	FMC, LFMC, LFNC	UF	RNC / PVC	SMR ^a
Where run parallel with the framing member or furring strip, the wiring shall be not less than 1 1/4 inches from the edge of a furring strip or a framing member such as a joist, rafter or stud or shall be physically protected.	A	--	A	A	--	--
Bored holes in framing members for wiring shall be located not less than 1 1/4 inches from the edge of the framing member or shall be protected with a minimum 0.0625-inch steel plate or sleeve, a listed steel plate or other physical protection.	A ^k	--	A ^k	A ^k	--	--
Where installed in grooves, to be covered by wallboard, siding, paneling, carpeting, or similar finish, wiring methods shall be protected by 0.0625-inch-thick steel plate, sleeve, or equivalent, a listed steel plate or by not less than 1 1/4-inch free space for the full length of the groove in which the cable or raceway is installed.	A	--	A	A	--	A
Securely fastened bushings or grommets shall be provided to protect wiring run through openings in metal framing members.	--	--	--	A ^j	--	--
The maximum number of 90-degree bends shall not exceed four between junction boxes.	--	A	A	--	A	--
Bushings shall be provided where entering a box, fitting or enclosure unless the box or fitting is designed to afford equivalent protection.	A	A	A	--	A	A
Ends of raceways shall be reamed to remove rough edges.	--	A	A	--	A	A

Maximum allowable on center support spacing for the wiring method in feet.	4.5 _{b, c}	10 ^l	4.5 ^b	4.5 _i	3 ^{d, l}	--
Maximum support distance in inches from box or other terminations.	12 _{b, f}	36	12 ^{b, g}	12 _{h, i}	36	--

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 degree = 0.0175 rad.

- a. Installed in accordance with listing requirements.
- b. Supports not required in accessible ceiling spaces between light fixtures where lengths do not exceed 6 feet.
- c. Six feet for MC cable.
- d. Five feet for trade sizes greater than 1 inch.
- e. Two and one-half feet where used for service or outdoor feeder and 4.5 feet where used for branch circuit or indoor feeder.
- f. Twenty-four inches for AC cable and thirty-six inches for interlocking Type MC cable where flexibility is necessary.
- g. Where flexibility after installation is necessary, lengths of flexible metal conduit and liquidtight flexible metal conduit measured from the last point where the raceway is securely fastened shall not exceed: 36 inches for trade sizes ½ through 1¼, 48 inches for trade sizes 1½ through 2 and 5 feet for trade sizes 2½ and larger.
- h. Within 8 inches of boxes without cable clamps.
- i. Flat cables shall not be stapled on edge.
- j. Bushings and grommets shall remain in place and shall be listed for the purpose of cable protection.
- k. See Sections R502.8 and R802.7 for additional limitations on the location of bored holes in horizontal framing members.

E3802.2 Cables in accessible attics. When permitted by table E3801.2. Cables in attics or roof spaces provided with access shall be installed as specified in Sections E3802.2.1 and E3802.2.2.

E3802.4 In unfinished basements and crawl spaces.

When existing and permitted to remain. Where type NM or SE cable is run at angles with joists in unfinished basements and crawl spaces, cable assemblies containing two or more conductors of sizes 6 AWG and larger and assemblies containing three or more conductors of sizes 8 AWG and larger shall not require additional protection where attached directly to the bottom of the joists. Smaller cables shall be run either through bored holes in joists or on running boards. Type NM or SE cable installed on the wall of an unfinished basement

shall be permitted to be installed in a listed conduit or tubing or shall be protected in accordance with Table E3802.1. Conduit or tubing shall be provided with a suitable insulating bushing or adapter at the point where the cable enters the raceway. The sheath of the Type NM or SE cable shall extend through the conduit or tubing and into the outlet or device box not less than 1/4 inch (6.4 mm). The cable shall be secured within 12 inches (305 mm) of the point where the cable enters the conduit or tubing. Metal conduit, tubing, and metal outlet boxes shall be connected to an equipment grounding conductor complying with Section E3908.13.

SECTION E3803 UNDERGROUND INSTALLATION REQUIREMENTS E3803.1 Minimum cover requirements.

Direct buried cable or raceways shall be installed in accordance with the minimum cover requirements of Table E3803.1.

TABLE E3803.1 MINIMUM COVER REQUIREMENTS, BURIAL IN INCHES a, b, c, d, e

LOCATION OF WIRING METHOD OR CIRCUIT	TYPE OF WIRING METHOD OR CIRCUIT				
	1 Direct burial cables or conductors	2 Rigid metal conduit or intermediate metal conduit	3 Nonmetallic raceways listed for direct burial without concrete encasement or other approved raceways	4 Residential branch circuits rated 120 volts or less with GFCI protection and maximum overcurrent protection of 20 amperes	5 Circuits for control of irrigation and landscape lighting limited to not more than 30 volts and installed with type UF or in other identified cable or raceway
All locations not specified below	24	6	18	12	6
In trench below 2-inch-thick concrete or equivalent	18	6	12	6	6

Under minimum of 4-inch-thick concrete exterior slab with no vehicular traffic and the slab extending not less than 6 inches beyond the underground installation	18	4	4	6 (Direct burial) 4 (In raceway)	6 (Direct burial) 4 (In raceway)
Under streets, highways, roads, alleys, driveways and parking lots	24	24	24	24	24
One- and two-family dwelling driveways and outdoor parking areas, and used only for dwelling-related purposes	18	18	18	12	18
In solid rock where covered by minimum of 2 inches concrete extending down to rock	2 (In raceway only)	2	2	2 (In raceway only)	2 (In raceway only)

For SI: 1 inch = 25.4 mm.

- a. Raceways approved for burial only where encased concrete shall require concrete envelope not less than 2 inches thick.

b. Lesser depths shall be permitted where cables and conductors rise for terminations or splices or where access is otherwise required.

c. Where one of the wiring method types listed in columns 1 to 3 is combined with one of the circuit types in columns 4 and 5, the shallower depth of burial shall be permitted.

d. Where solid rock prevents compliance with the cover depths specified in this table, the wiring shall be installed in metal or nonmetallic raceway permitted for direct burial. The raceways shall be covered by a minimum of 2 inches of concrete extending down to the rock.

e. Cover is defined as the shortest distance in inches (millimeters) measured between a point on the top surface of any direct-buried conductor, cable, conduit or other raceway and the top surface of finished grade, concrete, or similar cover.

E3803.11 Under buildings. Underground cable installed under a building shall be in a(n) RMC, IMC, RNC/PVC, raceway.

E3903.1 General. Lighting outlets shall be provided in accordance with Sections E3903.2 through E3903.4.

E3903.2 Habitable rooms. At least one wall switch-controlled lighting outlet shall be installed in every habitable room, closet with a depth greater than 4 feet, and bathroom.

E3904.6 Conduit and tubing fill. The maximum number of conductors installed in conduit or tubing shall not exceed 9 conductors.

E3904.7 Low Voltage Air handling-stud cavity and joist spaces. Where wiring methods having a nonmetallic covering pass through stud cavities and joist spaces used for air handling, such wiring shall pass through such spaces perpendicular to the long dimension of the spaces.

E3905.3 Nonmetallic boxes. Nonmetallic boxes shall not be installed, except in corrosive locations or in non-grounded circuits when they are permitted to remain. Further when permitted they shall be used only with cabled wiring methods with entirely nonmetallic sheaths, flexible cords and nonmetallic raceways.

E3905.6.2 Ceiling outlets. At every outlet not physically capable of hanging a ceiling fan, the box shall be designed or installed so that a luminaire or lampholder can be attached. Such boxes shall be capable of supporting a luminaire weighing up to 50 pounds (22.7 kg). A luminaire that weighs more than 50 pounds (22.7 kg) shall be supported independently of the outlet box, unless the outlet box is listed and marked for the maximum weight to be supported. Ceiling outlets physically capable (due to location and clearances) of hanging a future ceiling fan shall meet the requirements of E3905.8 Boxes at fan outlets.

E3908.9 Equipment fastened in place or connected by permanent wiring methods. Noncurrent-carrying metal parts of equipment, raceways and other enclosures, where required to be grounded, shall be grounded by one of the following methods:

1. By any of the equipment grounding conductors permitted by Sections E3908.8 through E3908.8.2.

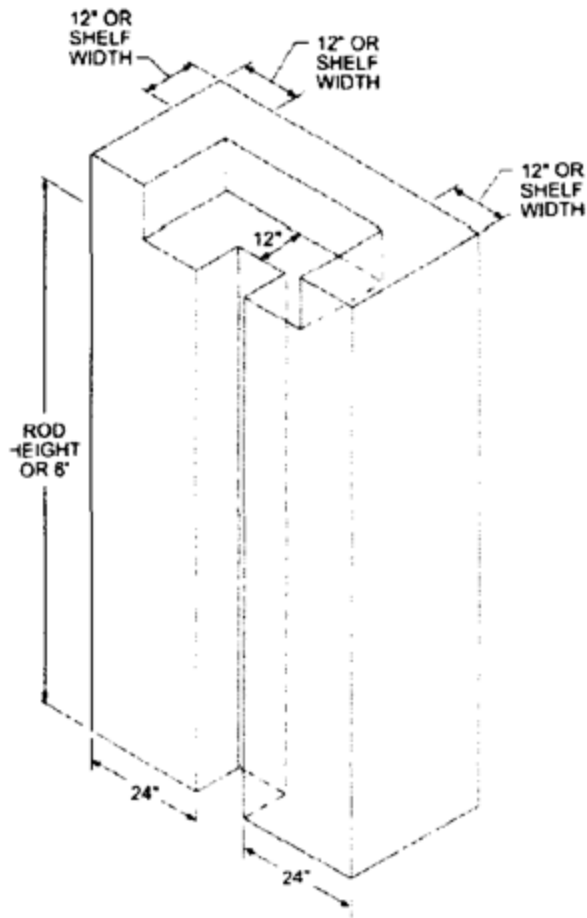
2. By an equipment grounding conductor contained within the same raceway, cable or cord, or otherwise run with the circuit conductors. Equipment grounding conductors shall be identified in accordance with Section E3407.2.

TABLE E3908.12 EQUIPMENT GROUNDING CONDUCTOR SIZING. Heading of aluminum column shall be modified as indicated

RATING OR SETTING OF AUTOMATIC OVERCURRENT DEVICE IN CIRCUIT AHEAD OF EQUIPMENT, CONDUIT, ETC., NOT EXCEEDING THE FOLLOWING RATINGS (amperes)	MINIMUM SIZE
Copper wire No. (AWG)	Aluminum or copper-clad aluminum wire No. (AWG) Minimum 1/0

E3908.16 Nonmetallic boxes. When allowed per 3905.3, one or more equipment grounding conductors brought into a nonmetallic outlet box shall be arranged to allow connection to fittings or devices installed in that box.

E3908.21 Underground/Under-slab/Concrete Encased Raceway: shall be added Equipment Grounding Conductor: A conductor to serve as a 100% redundant Equipment Grounding conductor shall be installed in all underground raceways and raceways in concrete.



SECTION E4003 FIXTURES

E4003.12 Luminaires in clothes closets. The types of luminaires installed in clothes closets shall be limited to surface-mounted LED luminaires with completely enclosed light sources, surface-mounted or recessed fluorescent luminaires, and surface-mounted fluorescent or LED luminaires identified as suitable for installation within the closet storage area. The minimum clearance between luminaires installed in clothes closets and the nearest point of a closet storage area shall be as follows:

1. Surface-mounted LED luminaires with a completely enclosed light source shall be installed on the wall above the door or on the ceiling, provided that there is a minimum clearance of 12 inches (305 mm) between the fixture and the nearest point of a storage space.
2. Surface-mounted fluorescent luminaires shall be installed on the wall above the door or on the ceiling, provided that there is a minimum clearance of 6 inches (152 mm).
3. Recessed LED luminaires with a completely enclosed light source shall be installed in the wall or the ceiling provided that there is a minimum clearance of 6 inches (152 mm).

TABLE E4202.1 ALLOWABLE APPLICATIONS FOR WIRING METHODS a, b, c, d, e, f, g, h, i

Note that uses of wiring methods are further restricted by Table 3801.2

WIRING LOCATION OR PURPOSE (Application allowed where marked with an "A")	FMC, SMR	EMT	ENT	IMC ^j , RMC ^j , RNC/PVC ⁱ	LF MC	LFN MC	MC ^k	FLEX CORD
Panelboard(s) that supply pool equipment: from service equipment to panelboard	A ^{b,e} SR not permitted	A ^c	A ^b	A	--	A	A ^e	--
Wet-niche and no-niche luminaires: from branch circuit OCPD to deck or junction box	AC ^b only	A ^c	A ^b	A	--	A	A ^b	--
Wet-niche and no-niche luminaires: from deck or junction box to forming shell	--	--	--	A ^d	--	A	--	A ^h
Dry niche: from branch circuit OCPD to luminaires	AC ^b only	A ^c	A ^b	A	--	A	A ^b	--
Pool-associated motors: from branch circuit OCPD to motor	A ^b	A ^c	A ^b	A	A ^f	A ^f	A ^b	A ^h
Packaged or self-contained outdoor spas and hot tubs with underwater luminaire: from branch circuit OCPD to spa or hot tub	AC ^b only	A ^c	A ^b	A	A ^g	A ^g	A ^b	A ^h
Packaged or self-contained outdoor spas and hot tubs without underwater luminaire: from branch	A ^b	A ^c	A ^b	A	A ^g	A ^g	A	A ^h

circuit OCPD to spa or hot tub								
Indoor spas and hot tubs, hydromassage bathtubs, and other pool, spa or hot tub associated equipment: from branch circuit OCPD to equipment	A ^b	A ^c	A ^b	A	A	A	A	A ^h
Connection at pool lighting transformers or power supplies	AC ^b only	A ^c	A ^b	A	A ^{m, g}	A ^g	A ^b	--

- a. For all wiring methods, see Section E4205 for equipment grounding conductor requirements.
- b. Limited to use within buildings.
- c. Limited to use on or within buildings.
- d. Metal conduit shall be constructed of brass or other approved corrosion-resistant metal.
- e. Permitted only for existing installations in accordance with the exception to Section E4205.6.
- f. Limited to where necessary to employ flexible connections at or adjacent to a pool motor.
- g. Sections installed external to spa or hot tub enclosure limited to individual lengths not to exceed 6 feet. Length not limited inside spa or hot tub enclosure.
- h. Flexible cord shall be installed in accordance with Section E4202.2.
- i. Nonmetallic conduit shall be rigid polyvinyl chloride conduit Type PVC or reinforced.

DIVISION 12-II-5 SWIMMING POOL AND SPA CODE

Sec 12-17.9 Same; Additions, Insertions, Deletions And Changes

Sec 12-17.9 Same; Additions, Insertions, Deletions And Changes

The following sections of the 2024 International Swimming Pool and Spa Code; adopted in section 12-16 is hereby revised as follows:

101.1 is amended to read:

These regulations shall be known as the Swimming Pool and Spa Code of the City of Aurora, hereinafter referred to as "this code."

103.1 is amended to read:

The Division of Building and Permits under the Developments Services Department is hereby created and the official in charge thereof shall be known as the building official. The function of the agency shall be the implementation, administration, and enforcement of the provisions of this code.

106.1 is amended to read as follows:

Construction documents. Construction documents, engineering calculations, diagrams, and other such data shall be submitted in two or more sets, or in a digital format where allowed by the building official, with each application for a permit. The construction documents, computations, and specifications shall be prepared by a registered design professional where required by the building official. Construction documents shall be drawn to scale and shall be of sufficient clarity to indicate the location, nature and extent of the work proposed and show in detail that the work conforms to the provisions of this code.

109.6 is amended to read:

The code official shall authorize the refunding of fees per the Aurora Building Code Section 109.6.

112.1 is amended to read:

Means of appeal to this code shall be in accordance with the provisions of the 2024 Aurora Building Code.

112.2 is deleted.

112.3 is deleted.

112.4 is deleted.

113.4 is amended to read:

Violation Penalties shall be as prescribed in the International Building Code Section 114.4.

114.4.1 is added to read:

Unlawful continuance fines shall be as prescribed in the International Building Code Section 115.3.