



CHAPTER 12 BUILDINGS AND BUILDING REGULATIONS* ARTICLE II – BUILDING CODE

*Cross reference(s)--Airport zoning, § 5-36 et seq.; erosion and sedimentation control, Ch. 15; fire prevention codes and standards, § 17-101 et seq.; floodplain management, Ch. 18; open housing, § 22-41 et seq.; planning and development, Ch. 34; preservation, Ch. 37; awnings, § 42-176 et seq.; subdivisions, Ch. 43; zoning, App. A. --State law reference(s)--Powers of home rule units, Ill. Const. art. VII, § 6.

ARTICLE II. - BUILDING CODES DIVISION 7. – RESIDENTIAL CODE

Sec. 12-17.6 Same--Additions, insertions, deletions and changes.

The following sections of the ~~2009~~ International Residential Code adopted in section 12-16 ~~are~~ is hereby revised as follows:

Section R105.2 Work Exempt from permit. Refer to IBC Section 105.2 for exemptions (NOTE: Decks, Fences, Driveways and Sidewalks or pavement adjacent to Driveways require permits).

~~Building: Delete item 1 accessory structures. These shall require permitting except for playhouses.~~

~~Delete item 2 fences. These shall require permitting.~~

~~Delete item 5 sidewalks and driveways. These shall require permitting.~~

~~Delete item 10 decks. These shall require permitting.~~

Subsection R106.1.3-4 shall be changed to read as follows:

R106.1.34 Information for construction in areas prone to flooding. For buildings and structures in flood hazard areas as established on local floodway rate maps, locally adopted floodplain ordinances shall apply.

Subsection R109.1.3 Floodplain inspections. Shall be deleted in its entirety.

Subsection R109.5 shall be added:

R109.5 Dry and Stable access- 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.

Subsection R112.3-1.1 shall be changed to read added as follows:

R112.3-1.1 Board of Appeals. Appeals shall be made and conducted in accordance with the provisions of the ~~2009-adopted~~ International Building Code - Appendix B Board of Appeals as amended.

Table R301.2(1) insert – CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA:

Ground Snow Load	Wind Design				Seismic Design Category ¹	Subject to Damage From			Winter Design Temp ⁶	Ice Barrier Underlayment Required ^h	Flood Hazards ⁹	Air Freezing Index ^l	Mean Annual Temp
	Speed ^d (mph)	Topographic Effects ^k	Special Wind Region ^l	Wind-borne debris zone ^m		Weathering ^a	Frost Line Depth ^b	Termite ^c					
25 lbs/sf	115	NO	NO	NO	B	Severe	42 inches below grade	Mod-Heavy	-5degF	YES	YES see Aurora Engineering Division	1635	48.7degF

Commented [Aurora1]: Modified table to include new categories for wind.

Subsection R301.2.4 Floodplain Construction shall be changed to read as follows:

R301.2.4 Information for construction in areas prone to flooding. For buildings and structures in flood hazard areas as established on local floodway rate maps, locally adopted floodplain ordinances shall apply.

The following section R302.2 exception shall be amended as follows:

R302.2 Exception 1. In a fully sprinklered townhome structure, A common 1 hour fire resistance rated wall assembly tested in accordance with ASTM E119 or UL 263 is permitted for fully sprinklered townhome structures if such walls do not contain plumbing or mechanical equipment, ducts or vents in the cavity of the common wall. The wall shall be rated for fire exposure from both sides and shall extend to and be tight against exterior walls and the underside of the roof sheathing. Electrical installations shall be installed in accordance with Chapters 34 through 43. Penetrations of electrical outlet boxes shall be in accordance with Section R302.4.

The following sub-section R302.2.1 shall be added:

R302.2.1 Exception 2. In lieu of the two 1 hour walls prescribed in Table 302.1 for common walls of townhome structures, A common 2 hour fire resistance rated wall acceptable to the code official shall separate un-sprinklered townhome structures.

Commented [Aurora2]: Incorporated in the 2015

The following shall be added to Chapter R302.5.1:

R302.5.1.1: ~~These doors shall be equipped with a self-closing device.~~

Commented [Aurora3]: Incorporated in the 2015

The following subsection shall be added to Section R303.1.1:

R303.1.1 Basements: 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.

The last sentence of the exception to subsection R303.3 shall be amended as follows;

R303.3 -Exception

... Ventilation air from the space shall be **independently** exhausted to the outside.

Exception to Subsection R304.2 shall be deleted and Subsection to R304.2 shall be added as follows:

R304.2 .1 Living Spaces: Living Room, Dining Room, Kitchen and Bedrooms shall provide the minimum floor areas as prescribed in the City of Aurora's Amended Property Maintenance Code -- Occupancy Standards Section 404 - ~~Occupancy Limitations OR 70 square feet whichever is greater.~~

Commented [Aurora4]: IPMC will be proposing increase in area requirements here

The following shall be added to Chapter R308:

R308.7: ~~Sliding Glass Doors.~~ Ground level or easily accessible, sliding glass doors shall have installed an approved permanent anti-slide device.

Subsection R309.3 Flood Hazard areas. Shall be deleted in its entirety.

The following subsection shall be added to Section R310.2:

R310.2.23.3 ~~Basement Windows~~ Wells; window 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

The following subsection shall be added to Section R310.4:

R310.4.1 Window wells shall be provided with flat covers capable of supporting at least 150_lbs.

The following subsection shall be added to Section R311.2:

R311.2.12.1 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. Dead bolts shall contain hardened inserts, or equivalent, so as to repel cutting tool attack. Mortise-type locks may be used; if the above-described requirements are met.

Subsection R313.1 shall be modified as follows:

R313.1 Townhouse automatic fire sprinkler systems. An automatic residential fire sprinkler system shall be installed in each individual townhouse with a first floor Living Space footprint exceeding 5,000 ft²

Subsection R313.2 shall be modified as follows:

R313.2 One- and two family dwellings automatic fire sprinkler systems. ~~Effective January 01, 2011 an~~ automatic residential sprinkler system shall be installed in One and Two family dwellings with a first floor Living Space footprint exceeding 5,000 ft².

Commented [Aurora5]: No need for sunset clause anymore

Subsection R322 Flood-Resistant Construction shall be changed to read as follows:

R322.1.11 ~~-----~~ Additional Information for construction in areas prone to flooding. 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.

Subsection R401.1 Application. Shall be changed to read as follows:

R401.1 ~~-----~~ The provisions of this chapter shall control the design and construction of the foundation and foundation spaces of all buildings. In addition to the provisions of this chapter, the design and construction of foundations in areas prone to flooding as established by Table R301.2 (1) shall meet the provisions of section R322. Wood foundations shall not be allowed.

Subsection R401.4.1 Geotechnical evaluation. Shall be changed to read as follows:

R401.4.1A 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. Copy of the revised report shall be given to inspector at the footing inspection.

Subsection R402.1 Wood Foundations and ~~#4-sits~~ subsections R402.1.1, & R402.1.2 shall be deleted in their entirety.

Subsection R403.1.1 Minimum size. Shall be deleted and changed to read as follows:

R403.1.1 Minimum sizes for concrete and masonry footings shall be as set forth in Table R403.1 and Figure R403.1(1). The footing width, W, shall be based on the load bearing value of the soil in accordance with Table R402.2. *Spread footings **Width** shall be twice the width of the foundation wall and not less than 16 inches. Spread footing **Thickness** (depth) shall be equal to the width of the foundation wall and not less than 8 inches. Footing **Projections**, P, shall be ½ the width of the foundation wall, not less than 4 inches and shall not exceed the thickness of the footing.*

Table R403.1(1) Minimum width of concrete or masonry footing (inches). Shall be deleted and changed to read as follows:

	Height	Load Bearing Value of Soil (psf)			
		1,500	2,000	3,000	≥ 4,000
Trench Footings w/ light-frame construction ----- with Horiz. Reinforcing (one #4 bar within 12" of top and bottom)	1-Story & < 10' joist span	16	12	12	12
Trench Footings w/ light-frame construction ----- with Horiz. Reinforcing (one #4 bar within 12" of top and one #4 bar at mid point)	1-Story	Engineered w/ Soil test	16	16	16
Trench Footings w/ masonry veneer ----- with Horiz. Reinforcing (one #4 bar within 12" of top and one #4 bar at mid point)	1-Story	Engineered w/ Soil test	20	20	20
Trench Footings ----- with Horiz. Reinforcing (one #4 bar within 12" of top and one #4 bar at mid point)	2-Story	Engineered w/ Soil test	24	24	24
Conventional light-frame construction	1-Story	16	16	16	
	2-Story	20			
	3-Story	24			
4-inch masonry veneer over frame or 8 inch hollow concrete masonry	1-Story	20	20	20	
	2-Story	24			
	3-Story	32			
8-inch solid or fully grouted masonry	1-Story	24	20	20	16
	2-Story	32	24	24	20
	3-Story	42	32	24	20

Table R403.1(2) shall be deleted in its entirety.

Table R403.1(3) shall be deleted in its entirety.

Figures R403.1 (2) and R403.1 (3) Permanent Wood Foundations shall be deleted in their entirety.

The following section Chapter R403.1.4 shall be deleted and replaces with the following:

R403.1.4.1: Frost Protection ~~Exterior footings and foundation systems for:~~

Exceptions:

1. Detached and freestanding single story accessory structures less than ~~768~~ gross square feet, with an eave height of less than 10'; shall be allowed to be supported on an approved continuous turned down slab detail per the building code.

2. Deleted

2.—Decks not supported by a dwelling and not adjacent to communicating doorways of a dwelling need not be provided with footings that extend below the frost line. ~~Temporary handicapped ramps may be provided on non frost protected footings provided they are removed upon the lack of medical need of the ramp for the occupants.~~

3.— ~~Non-conditioned attached accessory structures easily capable of converting to conditioned space shall have continuous footings extending to frost depth.~~

a. ~~Determination of whether a space is easily capable of converting to conditioned space shall be per the Building Official. If any of the following are provided, the space may be construed as easily capable of converting to conditioned space.~~

- i) ~~Exterior insulated walls~~
- ii) ~~Insulated roofs~~
- iii) ~~Permanently installed weatherproof windows and or doors~~
- iv) ~~Electrical fixtures or outlets consistent with habitable space~~
- v) ~~Heating or air conditioning appliances or provisions~~
- vi) ~~Plumbing fixtures~~

4. ~~Non-conditioned attached accessory structures not capable of converting to conditioned space may be supported on pier foundation systems, which extend to frost depth.~~

a. ~~Non-conditioned structures built on pier systems shall not be converted to conditioned space without addressing the lack of a continuous footing to the satisfaction of the Building Officials.~~

~~5-3.~~

Subsection R403.2 Footings for Wood Foundations shall be deleted in its entirety.

Table R404.1.1 (1) Plain Masonry Foundation Walls shall be amended as follows:

Maximum Wall Height (feet)	Maximum Unbalanced Backfill Height ^e (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			12	
7	4	8	10	8	
	5			10	
	6			12	
	7			10 solid ^d	12 solid ^d
8	4	8	10	8	
	5			12	
	6			10	12 solid ^d
	7			12	Footnote ^e
	8			10 solid ^d	Footnote ^e
9	4	8	10	8	
	5			12	
	6			10	12 solid ^d
	7			12	Footnote ^e
	8			12 solid ^d	Footnote ^e
	9			Footnote ^e	Footnote ^e

~~Table R404.1.2(2) Minimum Vertical Reinforcement for 6-inch Nominal Flat Concrete Basement walls shall be deleted, 8 inch minimum wall width required see R404.1.2(3).~~

Commented [Aurora6]: 6 inch table removed from code

Table R404.1.2(5) Minimum Vertical wall reinforcement for 6-inch waffle-grid basement walls, shall be deleted, 8 inch minimum wall width required see R404.1.2(6).

Table R404.1.2(7) Minimum Vertical wall reinforcement for 6-inch screen-grid basement walls, shall be deleted,

Subsection R404.2 Wood Foundations walls and its subsections R404.2.1, R404.2.2, R404.2.3 and Table R404.2.3, R404.2.4, R404.2.5, and R404.2.6 shall be deleted in their entirety.

~~Table R404.2.3 Plywood grade and thickness for wood foundation construction shall be deleted in its entirety.~~

Commented [Aurora7]: Moved up one section

Section R405.2 Wood Foundations and its subsections R405.2.1, R405.2.2, and R405.2.3 shall be deleted in their entirety.

Section R406.3 Dampproofing for Wood Foundations and its subsections R406.3.1, R406.3.2, and R406.3.3 shall be deleted in their entirety.

Subsection R502.7.1 Bridging. Shall be deleted and changed to read as follows:

R502.7.1 Bridging. 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.

Section R504 Pressure Preservatively-Treated Wood Floors (on Ground) shall be deleted in its entirety.

Subsection R506.2.1.1 Shall be added:

R506.2.1.1 ~~Back-fill under concrete floors in attached garages. The sub-base for poured concrete garage floors shall be undisturbed inorganic soil.~~

~~a. Fill materials brought from offsite shall be clean, graded sand, crushed stone or gravel.~~

~~b. When site soil is used as fill, it shall be appropriately soaked and compacted.~~ The slab shall be doweled into the foundation wall as follows. Dowels (#4) shall be 3'-4" long, shall be doweled into foundation wall a minimum of 4", and shall be spaced at 24" on center; on all walls that do not provide 4" of bearing for slab.

Commented [Aurora8]: Has been added to the codes

Section R602.3.2 Single Top plate Exception only. Shall be deleted in its entirety.

Subsection R703.9 -Shall be modified

R703.9 –Exterior Insulation Finish Systems, general. All Exterior Insulation Finish Systems (EIFS) shall be installed in accordance with the manufacturer's installation instructions and the requirements of this section. Where permitted EIFS installations shall be required to provide a manufacturer's inspection of certification 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.

~~R703.9.1 EIFS systems without drainage shall not be installed permitted on new Type V buildings or in contact with wood sheathing or structural members. Where permitted EIFS installations shall be required to provide a manufacturer's inspection of certification to the owner and shall be kept for inspection upon request. Repairs to existing EIFS systems on wood shall be permitted to be repaired provided the damage is limited to less than 50% of the EIFS area.~~

Commented [Aurora9]: Systems have improved wish to provide more options for homes with existing systems.

~~Subsection R703.9.1 shall be modified as follows:~~

~~R703.9.1 When permitted for repairs to existing systems, Exterior Insulation and Finish system (EIFS) shall be required to provide drainage per R703.9.2.~~

Commented [Aurora10]: Moved above

Subsection R1003.9.1 shall be amended to read:

R1003.9.2.4 ~~Spark Arrestors. A spark arrestor is required to be installed on all masonry chimneys; the spark arrestor shall meet all of the following requirements;~~

Chapter 11 Energy Conservation shall be deleted in its entirety; Compliance shall be determined by the current ~~IECC and the State~~ of Illinois Energy Code amended International Energy Code Council.

The following Subsection shall be added to section M1401.1;

M1401.1.1 Temporary Heat system required; 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).

The following subsection shall be added to Section M1502.3:

M1502.3.1 Clothes Dryer Termination: Clothes Dryer exhaust duct systems shall terminate with a removable guard to prevent bird or rodent entry. For maintenance purposes, termination shall be located no greater than 12 feet above the walking surface or grade below.

The following subsection shall be added to Section ~~M1507~~M1506.23:

~~M1507~~M1506.23.1 **Termination.** Bathroom exhaust ducts systems shall be equipped with a back draft damper and shall be terminated with a guard to prevent bird or rodent entry.

The following Subsection shall be added to section M1601.1.1-:

M1601.1.1 (8); Ductwork; Shall not protrude from the framing cavity when applications of finishes will compress or deform the duct.

The following Subsection M1602.1-2 shall be amended added as follows;

M1602.1.2 Return Air; Disbursal of r 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.

The following Subsection shall be added to section M1601.4.1;

M1601.4.1.1 Furnace Filter Cap; An air tight furnace filter cap shall prevent infiltration of air from the surrounding area and provide easy access to change the filter;

Commented [Aurora11]: We feel this is dealt with by mandated State Energy Efficiency codes

The following Subsection to G2414 shall be deleted:

G2414.5 Metallic tubing; All metallic tubing types 5.1-5.3 shall be deleted.

The following Subsection shall be added to section M2426.6;

G2426.6.1 Vent support; 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.

Commented [Aurora12]: This is covered with MFR recommendations and Fastener penetrations. BUT We are reluctant to ask contractors to backout screws to verify the inner liner has not been penetrated. Should we find screws we should allow the contractor to prove that the inner liner has not been penetrated as one of the solutions.

Chapters 25-32 Plumbing shall be deleted and The following subsection shall be added to Section P2501.1:

P2501.1.1 Scope. Per the State of Illinois pre-emption A all Plumbing work shall conform to the current edition of the Illinois State Plumbing Code, the provisions of this code, and the amended 2009 International Plumbing Code, whichever is more restrictive.

The following non-preempted subsections shall additionally be added to Section P2903.10:

P2903.10.2501.21 Hose bibb locations: 2 hose bibbs located as remotely as practicable shall be required per residence (e.g. front and rear yards).

Table P2905.5 shall be deleted and replaced with amended IPC Table 605.3

Material	Standard
Chlorinated polyvinyl chloride (CPVC) plastic piping and tubing. ³	ASTM D 2846; ASTM F 441; ASTM F 442; CSA B 137.6
Cross-linked polyethylene (PEX) plastic tubing. ³	ASTM F 876; ASTM F 877; CSA B137.5
Cross-linked polyethylene / aluminum / Cross-linked polyethylene (PEX-AL-PEX) pipe. ³	ASTM F 1281; ASTM F 2262; CAN/CSA B137.10M
Cross-linked polyethylene / aluminum / high density polyethylene (PEX-AL-HDPE) pipe. ³	ASTM F 1986
Polyethylene / aluminum / polyethylene (PE-AL-PE) composite pipe. ⁴	ASTM F 1282
Polypropylene (PP) Plastic pipe or tubing. ³	ASTM F 2389; CSA B137.11

Table P2905.5 shall be deleted and replaced with amended IPC table 605.4

The following subsection shall be added to Section P2905:

P2905.5.12501.3 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. Minimum new water service size shall be 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.

The following subsection shall be added to Storm Drainage Section P3303 Sumps and Pumping Systems

P3303.1.5 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

Commented [Aurora13]: Repeated in the Fox Metro and Engineering standards don't need to repeat.

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.

Commented [Aurora14]: More clearly allows enforcement using the IPMC with this reference.

Table P2905.6 shall be deleted and replaced with amended IPC table 605.5

Table P3002.1(1) shall be deleted and replaced with amended IPC table 702.1

Table P3002.1(2) shall be deleted and replaced with amended IPC table 702.2

Table P3002.2 shall be deleted and replaced with amended IPC table 702.3

Table P3002.3 shall be deleted and replaced with amended IPC table 702.4

Table P3302.1 shall be deleted and replaced with amended IPC table 1102.5

The following subsection shall be added to Section E3401.1

Chapter 34 General Requirements:

Commented [Aurora15]: ELECTRICAL COMMISSION RECOMMENDATION SHALL BE ADDED TO THIS DOCUMENT

Here

The following subsection shall be added to Appendix F Section AF103.1:

AF103.1.1 All new construction shall comply with this appendix.

The following exception shall be added to Appendix J - EXISTING BUILDINGS AND STRUCTURES:

AJ201 Definitions. The following Definitions shall be added.

EXISTING, EXISTING INSTALLATION. Any structure, component or installation regulated by this code that was legally installed prior to the effective date of this code adoption, AND for which the required permits and inspections have been issued and approved.

Note: In the absence of proof of legal installation or approval, the code official or his/her designee shall use historical code information and research to determine lack of legal installation or approval.

Commented [s25mar-16]: Definition from IRC - Note is our proposed addition requiring COA staff to use research to demonstrate lack of legal installation.

AJ301.4 Electrical. Repair or replacement of existing electrical wiring and equipment undergoing repair with like material shall be permitted.

Exceptions:

1. Replacement of electrical receptacles shall comply with the requirements of Chapters 34 through 43.
2. Plug fuses of the Edison-base type shall be used for replacements only where there is no evidence of over-fusing or tampering per the applicable requirements of Chapters 34 through 43.
3. For replacement of non-grounding-type receptacles with grounding-type receptacles and for branch circuits that do not have an equipment grounding conductor in the branch circuitry, the grounding conductor of a grounding type receptacle outlet shall be permitted to be grounded to any accessible point on the grounding electrode system, or to any accessible point on the grounding electrode conductor, as allowed and described in chapters 34 through 43 below.

Commented [13-5Apr17]: Feel we should consider where there is work at the panel we should require Edison-Base fuses we should require Type S tamper resistant fuses. Note that frequently blown in insulation which should not be in contact with Knob and Tube is present.

(a). A non-grounding-type receptacle(s) shall be permitted to be replaced with a ground-fault circuit interrupter type of receptacle(s). These receptacle(s) shall be marked "No Equipment Ground". An equipment grounding conductor shall be connected from the ground-fault circuit-interrupter-type receptacle to any outlet supplied from the ground-fault circuit-interrupter receptacle.

Commented [s25mar-18]: Under most conditions, it is acceptable to repair existing electrical installations with the same types of wiring materials and electrical equipment as were used previously. However, this section identifies three conditions where additional criteria must be considered. Electrical receptacles must comply as for new construction as described in Chapters 33 through 42. Edison-base-type plug fuses can be replaced with like fuses only if it can be shown that no tampering or over-fusing has occurred. Alternate methods of grounding are also set forth when non-grounding-type receptacles are replaced.

(b). A non-grounding-type receptacle(s) shall be permitted to be replaced with a grounding type receptacle(s) where supplied through a ground-fault circuit interrupter. Grounding-type receptacles supplied through the ground fault circuit interrupter shall be marked "GFCI Protected" and "No Equipment Ground". An equipment grounding conductor shall not be connected between the grounding-type receptacles.

AJ401.5 Electrical equipment and wiring. Newly installed electrical equipment and wiring relating to new work done in any work area shall comply with the materials and methods requirements of Chapters 34 through 43.

Exception: Electrical equipment and wiring in newly installed partitions and ceilings shall comply with all applicable requirements of Chapters 34 through 43; unless otherwise permitted by the building official.

Commented [s22mar-19]: Adding electrical provisions.

AJ501.1 Newly constructed Elements. Newly constructed elements, components and systems shall comply with the requirements of this code.

Exceptions:

3. Additions to existing structures which would create a first floor total Living Space footprint of greater than the sprinklering thresholds in R313 shall not be required to be sprinklered unless more than 50 percent of the area of the dwelling unit is being remodeled.

Commented [CJ20]: Discussed the possibility of running empty conduit

AJ501.3 Extensive alterations. When the total area of all the work areas included in an *alteration* exceeds 50 percent of the area of the *dwelling unit*, the work shall be considered as a reconstruction and shall comply with the requirements of these provisions for reconstruction work.

Exception: NOTE: Work areas in which the alteration work is exclusively plumbing, mechanical or electrical shall not be included in the computation of total area of all work areas.

AJ501.5 Electrical equipment and wiring.

AJ501.5.1 Materials and methods. Newly installed electrical *equipment* and wiring relating to work done in any work area shall comply with the materials and methods requirements of Chapters 34 through 43.

Exception: Electrical *equipment* and wiring in newly installed partitions and ceilings shall comply with all applicable requirements of Chapters 34 through 43; unless otherwise permitted by the building official.

(Code 1969, § 12-2; Ord. No. 087-5615, § 1, 1-20-87; Ord. No. 087-5675, § 1, 6-16-87; Ord. No. 087-5697, § 1, 8-4-87; Ord. No. 087-5715, § 2, 9-15-87; Ord. No. 087-5746, § 1, 12-15-87; Ord. No. 088-71, Exh. A, 6-21-88; Ord. No. 088-66, § 3, 6-7-88; Ord. No. 089-19, § 3, 3-7-89; Ord. No. 089-52, 6-20-89; Ord. No. 092-03, § 1, 1-21-92; Ord. No. 093-54, § 1, 7-6-93; Ord. No. 093-88, § 1, 10-5-93; Ord. No. 094-22, § 1, 3-15-94; Ord. No. 094-38, § 2, 5-3-94; Ord. No. 095-01, § 1, 1-3-95; Ord. No. 095-47, § 3, 7-5-95; Ord. No. 095-58, § 1, 8-1-95)

Cross reference(s)--Fine schedule for violations, § 1-11.

Commented [s25mar-21]: *∩ If the amount of construction activity in a dwelling unit involves more than 50 percent of the unit's floor area, the stringency of the requirements is increased. The category of work is reconstruction, with the requirements for both alterations and reconstruction to be followed. This increase to a higher level category is not required where the alteration consists only of plumbing, mechanical or electrical work.*

Commented [s25mar-22]: Desire to highlight this important definition

Commented [s25mar-23]: *∩ In any work area, electrical equipment and wiring installed must comply with the requirements of Chapters 33 through 42. Such requirements are also applicable in the construction of new walls, partitions and ceiling systems.*