

**ADDITIONS, DELETIONS AND AMENDMENTS**

**TO THE**

**INTERNATIONAL RESIDENTIAL CODE**

**2009**

## **ADDITIONS, DELETIONS, AND AMENDMENTS**

### **TO THE**

### **INTERNATIONAL RESIDENTIAL CODE/2009**

The word “ADD” preceding a provision of this section means that such provision thereby added to and made a part of the International Residential Code/2009 as though full set forth at the referenced section.

The word ‘DELETE’ preceding a provision of this section means that such provision deletes the referenced section from the International Residential Code/2009.

The word “AMEND” preceding a provision of this section means that such provision amends the referenced section of the International Residential Code/2009 to read as provided and that such provision is added to and made a part of such code as though fully set forth at the referenced number.

## **CHAPTER 1 ADMINISTRATION**

**AMEND: R101.1 Title.** These provisions shall be known as the *Residential Code for One- and Two-Family Dwellings* of the City of Champaign, hereinafter referred to as “this code.”

**DELETE: R104.10.1 Areas prone to flooding.**

**AMEND: R105.2 Work exempt from permit.**

Building:

1. One-story detached accessory structures used as tool and storage sheds, playhouses and similar uses, provided the floor area does not exceed 120 square feet (11.148m<sup>2</sup>).
2. Fences not over 8 feet (2438 mm) in height.

10. Decks not exceeding 120 square feet (11.148m<sup>2</sup>) in area, that are not more than 30 inches (762 mm) above *grade* at any point, are not attached to a *dwelling* and do not serve the exit door required by Section R311.4.

**AMEND: R105.3.1.1 Substantially improved or substantially damaged existing buildings and structures in flood hazard areas.** Applications for reconstruction, rehabilitation, addition, or other improvement of existing buildings or structures located in areas prone to flooding shall comply with Article 29.5 of the Municipal Code; the Champaign Drainage Code.

**AMEND: R106.1 Submittal documents.** Submittal documents consisting of *construction documents*, and other data shall be submitted in one or more sets with each application for a *permit*. The *construction documents* shall be prepared by a registered *design professional* where required by the statutes of the *jurisdiction* in which the project is to be constructed. Where special conditions exist, the *building official* is authorized to required additional *construction documents* to be prepared by a registered *design professional*.

**AMEND: R106.1.3 Information for construction in areas prone to flooding.** Buildings and structures in flood hazard areas must comply with all applicable requirements of Article 29.5 of the Municipal Code; the Champaign Drainage Code.

**DELETE: R106.3.1 Approval of construction documents.**

**DELETE: R106.3.2 Previous approvals.**

**DELETE: R106.5 Retention of construction documents.**

**AMEND: R107.3 Temporary power.** The building official is authorized to give permission to temporarily supply and use power in part of an electric installation before such installation has been fully completed and the final certificate of completion has been issued. The part covered by the temporary certificate shall comply with the requirements specified for temporary lighting, heat or power in the adopted Electrical Code.

**AMEND: R108.2 Schedule of permit fees.**

**ADD: R108.2.1 Permit fees: Single family detached dwelling.** A building permit for a single family detached dwelling of less than twenty-five hundred (2,500) square feet shall cost three hundred forty-five dollars (\$345.00). A building permit for a single family detached dwelling with equal to or more than twenty-five hundred (2,500) square feet shall cost four hundred thirty-five dollars (\$435.00). The fee for an addition to a single family detached dwelling shall be computed at the rate of six dollars (\$6.00)

per one thousand dollars (\$1,000.00) of the estimated cost, but not less than forty-five dollars (\$45.00). This shall not include the cost of electrical, heating, ventilating and air conditioning and plumbing work. Footing and Foundation Permit fee shall be (\$100.00) and shall be separate from any subsequent fees.

**ADD: R108.2.2 Permit fees: Two family dwellings.** A building permit for a two family dwelling of less than twenty-five hundred (2,500) square feet shall cost three hundred seventy-five dollars (\$375.00). A building permit for a two family dwelling with equal to or more than twenty-five hundred (2,500) square feet shall cost four hundred seventy dollars (\$470.00). The fee for an addition to a two family dwelling shall be computed at the rate of six dollars (\$6.00) per one thousand dollars (\$1,000.00) of the estimated cost but not less than thirty-five dollars (\$45.00). This shall not include the cost of electrical, heating, ventilating and air conditioning and plumbing work. Footing and Foundation Permit fee shall be (\$110.00) and shall be separate from any subsequent fees.

**ADD: R108.2.3 Detached accessory structures.** The permit fee for a detached accessory structure for one and two family dwellings shall be computed at the rate of six dollars (\$6.00) per one thousand dollars (\$1,000.00) of the estimated cost, but not less than forty-five dollars (\$45.00). This shall not include the cost of electrical, heating, ventilating and air conditioning and plumbing work.

**ADD: R108.2.4 Alterations/renovations/remodeling.** The fee for the alteration, renovation or remodeling of a building or structure shall be computed at the rate of six dollars (\$6.00) per one thousand dollars (\$1,000.00) of the estimated cost, but not less than forty-five dollars (\$45). This shall not include the cost of electrical, heating, ventilating and air conditioning and plumbing work.

**AMEND: R108.2.5 Permit renewal.** A permit which has been expired for three months or less may be renewed provided no changes have been made in the original plans and specifications for such work. The renewal fee shall be one half the amount required for a new permit. Permits which have been expired for greater than three months require a new application and payment of the full permit fee.

**ADD: R108.4.1 Work without a permit.** For all work commenced without a permit for which a permit is required, the fee shall be double the permit fees and the work shall comply with all requirements of this code.

**AMEND: R108.5 Refunds.** No refund shall be made in the event of revocation of a permit or abandonment or discontinuance of a building project.

**DELETE: R108.6 Work commencing before permit issuance.**

**R109.1.2 Plumbing, mechanical, gas and electrical systems inspection.**

**DELETE: Exception.**

**DELETE: R109.1.3 Floodplain inspections.**

**DELETE: SECTION R110 – CERTIFICATE OF OCCUPANCY**

**DELETE: SECTION R112 – BOARD OF APPEALS**

**ADD: SECTION R112 – BOARD OF APPEALS**

**ADD: R112.1 General.** Procedures and rules for the Board of Appeals shall be as set forth in Section 112.0 of the International Building Code, as amended.

**AMEND: R113.4 Violation penalties.** Any person who violates a provision of this code or fails to comply with any of the requirements thereof or who erects, constructs, alters or repairs a building or structure in violation of the approved construction documents or directive of the building official, or of a permit issued under the provisions of this code, shall be subject to penalties prescribed in Section 1-21 of the Municipal Code of Champaign, 1985, as amended.

**AMEND: R114.1 Issuance of a stop work order.** The stop work order shall be in writing and shall be given to the owner of the property involved, or to the owner's agent, or to the person doing the work. Upon issuance of a stop work order, the cited work shall immediately cease. The stop work order shall state the reason for the order.

**AMEND: R114.2 Unlawful continuance.** Any person, firm or corporation who shall continue any work in or about the structure after having been served with a stop work order except such work as that person is directed to perform to remove a violation or unsafe condition, shall be liable to the penalties set out in Section 1-21 of the Municipal Code of Champaign, 1985, as amended.

### **CHAPTER 3 BUILDING PLANNING**

**AMEND: R301.1.1 Alternative provisions.** As an alternative to the requirements in Section R301.1 the following standards are permitted subject to the limitations of this code and the limitations therein. Where engineered design is used in conjunction with these standards, the design shall comply with the International Building Code.

1. American Forest and Paper Association (AF&PA) Wood Frame Construction Manual (WFCM)
2. American Iron and Steel Institute (AISI) Standard for Cold-Formed Steel Framing—Prescriptive Method for One-and-Two-Family Dwellings (AISI S230).
3. ICC-400 Standard on the Design and Construction of Log Structures.
4. APA – The Engineered Wood Association.

**AMEND: Table R301.2(1) Climatic and Geographic Design Criteria**

**TABLE R301.2(1)**  
**CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA.**  
 Establish the design criteria relative to Champaign, IL.

GROUND SNOW LOAD	WIND DESIGN		SEISMIC DESIGN CATERGORY	SUBJECT TO DAMAGE FROM			WINTER DESIGN TEMP	ICE BARRIER UNDERLAYMENT REQUIRED	FLOOD HAZARDS	AIR FREEZING INDEX	MEAN ANNUAL TEMP
	SPEED (MPH)	TOPOGRAPHIC EFFECTS		WEATHERING	FROST LINE DEPTH	TERMITE					
20	90	NO	B	SEVERE	32"	MOD/HVY	-10	YES	1981	1500	50

**AMEND: Table R301.5 Minimum Uniformly Distributed Live Loads.**

**TABLE R301.5**  
**MINIMUM UNIFORMLY DISTRIBUTED LIVE LOADS**  
**(in pounds per square foot)**

USE	LIVE LOAD
Attics with limited storage	20
Attics without storage	10
Decks	40
Exterior balconies	60
Fire escapes	40
Guardrails and handrails	200
Guardrails in-fill components	50
Passenger vehicle garages	50
Rooms other than sleeping rooms	40
Sleeping Rooms	30
Stairs	40

**AMEND: R302.1 Exterior walls.** Construction, projections, openings and penetrations of exterior walls of dwellings and accessory buildings shall comply with Table R302.1. The provisions shall not apply to walls, projections, openings or penetrations in walls that are perpendicular to the line used to determine the fire separation distance. Projections beyond the exterior wall shall not extend more than 12 inches (305 mm) into the areas where openings are prohibited.

**Exception:** Detached garages, tool and storage sheds, and similar detached accessory structures are not required to provide wall protection based on location on the lot. Projections beyond the exterior wall shall not extend over the lot line. Foundation vents installed in compliance with this code are permitted.

AMEND: **R302.2 Townhouses.** Each townhouse shall be considered a separate building and shall be separated by fire-resistant-rated wall assemblies meeting the requirements of Section R302.1 for exterior walls.

**Exceptions:**

1. A common 1-hour fire resistant-rated wall assembly tested in accordance with ASTM E119 or UL 263 is permitted for townhouses 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.
2. Townhouses separated by fire walls built in accordance with Section 706 of the International Building Code shall be classified as independent single-family dwellings.

AMEND: **R302.3 Two-family dwellings.** *Dwelling units* in two-family dwellings shall be separated from each other by wall and/or floor assemblies having not less than a 1-hour fire-resistance rating when tested in accordance with ASTM E 119 or UL 263. Fire-resistance-rated floor-ceiling and wall assemblies shall extend to and be tight against the *exterior wall*, and wall assemblies shall extend from the floor to the underside of the roof sheathing. Fire-resistance-rated wall assemblies shall extend to the foundation when the crawlspace contains heat producing appliances.

**Exceptions:**

1. A fire-resistance rating of ½ hour shall be permitted in buildings equipped throughout with an automatic sprinkler system installed in accordance with NFPA 13.
2. Wall assemblies need not extend through *attic* spaces when the ceiling is protected by not less than 5/8-inch (15.9 mm) Type X gypsum board and an *attic* draft stop constructed as specified in Section R302.12.1 is provided above and along the wall assembly separating the *dwellings*. The structural framing supporting the ceiling shall also be protected by not less than ½-inch (12.7mm) gypsum board or equivalent.

3. When a two-family dwelling is separated by a lot line, (2 attached single-family dwellings), separation shall be in accordance with Section R302.2 Townhouses. If the dwellings are not protected by an automatic sprinkler system, the common fire-resistant-rated wall shall be 2 hour fire-rated.

**AMEND: R302.5.1 Opening protection.** Openings from a private garage directly into a room used for sleeping purposes shall not be permitted. Other openings between the garage and residence shall be equipped with solid wood doors not less than 1 ¾ inch in thickness, solid or honeycomb core steel doors not less than 1 ¾ inches thick, or 20-minute fire-rated doors.

**AMEND: Table R302.6 Dwelling/Garage Separation**

**TABLE R302.6  
DWELLING/GARAGE SEPARATION**

SEPARATION	MATERIAL
From the residence and attics	Not less than ½-inch gypsum board or equivalent applied to the garage side
From all habitable rooms above the garage	Not less than 5/8-inch Type X gypsum board or equivalent
Structure(s) supporting floor/ceiling assemblies used for separation required by this section	Not less than 5/8-inch Type X gypsum board or equivalent
Garages located less than 3 feet from a dwelling unit on the same lot	Not less than ½-inch gypsum board or equivalent applied to the interior side of exterior walls that are within this area

**DELETE: R307 Toilet, Bath and Shower Spaces.**

**AMEND: Table 308.3.1(1) Minimum Category Classification of Glazing Using CPSC 16 CFR 1201.** Per ICC Errata, replace Item 7 with Item 3 and Item 6 with Item 2

**AMEND: Table R308.3.1(2) Minimum Category Classification of Glazing Using ANSI Z97.1.** Per ICC Errata, replace Item 7 with Item 3 and Item 6 with Item 2.

**AMEND: R309.3 Flood hazard areas.** Buildings located in flood areas must fully conform to the requirements of Article 29.5 of the Municipal Code; the Champaign Drainage Code.

**AMEND: R310.1.1 Minimum opening area. Exception:** Grade floor openings in existing dwellings with an established adjacent grade not more than 44 inches below the finished sill height shall have a minimum net clear opening of 5 square feet (0.465 m<sup>2</sup>).

**AMEND: R311.2.1 Security.** All dwelling units covered by this code shall comply with the applicable portions of Section 1030 Standards for Security of the International Building Code, as amended.

**DELETE: R313.2 One-and two-family dwellings automatic fire systems.**

**AMEND: R314.3.1 Alterations, repairs and additions.** When interior alterations, repairs or additions requiring a permit occur, or when one or more sleeping rooms are added or created in existing dwellings, the individual dwelling unit shall be provided with smoke alarms. Where such work is deemed substantial, the smoke alarms shall be located as required for new dwellings; the smoke alarms shall be interconnected and hard wired.

**Exceptions:**

1. Smoke alarms in existing areas shall not be required to be interconnected and hard wired where the alterations or repairs do not result in the removal of interior wall or ceiling finishes exposing the structure, unless there is an attic, crawl space, or basement available which could provide access for hard wiring and interconnection without the removal of interior finishes.
2. Repairs to the exterior surfaces of dwellings are exempt from the requirements of this section.

**AMEND: R315.1 Carbon monoxide alarms.** For new construction, an approved carbon monoxide alarm shall be installed outside of each separate sleeping area within 15 feet of the bedrooms in dwelling units within which fuel-fired appliances are installed and in dwelling units that have attached garages.

**AMEND: R316.5.3 Attics.** The thermal barrier specified in Section 316.4 is not required where attic access is required by Section 807.1. Where the space is entered for the services of utilities located therein or is accessible by a fixed stairway, the foam plastic insulation shall be protected against ignition using one of the following ignition barrier materials.

1. 1.5-inch-thick (38 mm) mineral fiber insulation;
2. 0.25-inch-thick (6.4 mm) wood structural panel;
3. 0.375-inch (9.5 mm) particleboard;
4. 0.25-inch (6.4 mm) hardboard;
5. 0.375-inch (9.5 mm) gypsum board; or
6. Corrosion-resistant steel having a base metal thickness of 0.016 inch (0.406 mm).

The above ignition barrier is not required where the foam plastic insulation has been tested in accordance with Section R316.6.

**AMEND: R316.5.4 Crawl spaces.** The thermal barrier specified in Section 316.4 is not required where crawl space access is required by Section 408.4. Where the space is entered for the services of utilities located therein, the foam plastic insulation shall be protected against ignition using one of the

following ignition barrier materials. Ignition barriers subject to termite infestation must comply with Section R318 Protection Against Subterranean Termites.

1. 1.5-inch-thick (38 mm) mineral fiber insulation;
2. 0.25-inch-thick (6.4 mm) wood structural panel;
3. 0.375-inch (9.5 mm) particleboard;
4. 0.25-inch (6.4 mm) hardboard;
5. 0.375-inch (9.5 mm) gypsum board; or
6. Corrosion-resistant steel having a base metal thickness of 0.016 inch (0.406 mm).

The above ignition barrier is not required where the foam plastic insulation has been tested in accordance with Section R316.6.

**DELETE: R317.3.2 Fastenings for wood foundations.**

**DELETE: SECTION R322 – ACCESSIBILITY**

**DELETE: SECTION R324 – FLOOD-RESISTANT CONSTRUCTION**

**ADD: SECTION R324 – FLOOD-RESISTANT CONSTRUCTION**

**ADD: R324.1 General.** Buildings and structures in flood hazard areas must comply with all applicable requirements of Article 29.5 of the Municipal Code; the Champaign Drainage Code.

## **CHAPTER 4 FOUNDATIONS**

**AMEND: R401.1 Application.** The provisions of this chapter shall control the design and construction of the foundation and foundation spaces for 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 and precast concrete foundations are prohibited.

**AMEND: R401.3 Drainage.** Surface drainage shall be diverted to a storm sewer conveyance or other point of collection so as to not create a hazard. Pumped storm water shall be discharged at a point and in a manner approved by the City Engineer, as set forth in Section 30-23 of the Champaign Municipal Code. Lots shall be graded so as to drain surface water away from foundation walls. The grade away from foundation walls shall fall a minimum of 6 inches (153mm) within the first 10 feet (3048mm).

**Exception:** Where lot lines, walls, slopes or other physical barriers prohibit 6 inches (153mm) of fall within 10 feet (3048mm), drains or swales shall be provided to ensure drainage away from the structure.

**AMEND: R401.4.1 Geotechnical evaluation.** In lieu of a complete geotechnical evaluation, the 1500 psf load bearing value in Table R401.4.1 shall be assumed.

**DELETE: R402.1 Wood Foundations.**

**DELETE: R402.1.1 Fasteners.**

**DELETE: R402.1.2 Wood Treatment.**

**DELETE: R402.3 Precast concrete.**

**DELETE: R402.3.1 Precast concrete foundation materials.**

**AMEND: R403.1 General.** All exterior walls shall be supported on continuous solid or fully grouted masonry or concrete footings, or other approved structural systems which shall be of sufficient design to accommodate all loads according to Section R301 and to transmit the resulting loads to the soil within the limitations as determined from the character of the soil. Footings shall be supported on undisturbed natural soils or engineered fill. Concrete footing shall be designed and constructed in accordance with the provisions of Section R403 or in accordance with ACI 332.

**AMEND: R403.1.1 Minimum size.** Minimum sizes for concrete and masonry footings shall be as set forth in Figure R403.1(1). The footing width,  $W$ , shall be based on the load-bearing value of the soil in accordance with Table R401.4.1. In lieu of a valid soils test and report from an approved testing agency the load-bearing pressure shall be assumed to be 1500 psf maximum. Spread footings shall be at least 8 inches (203 mm) in thickness. Footing projections,  $P$ , shall be at least 2 inches (51 mm) and shall not exceed the thickness of the footing. The size of footings supporting piers and columns shall be based on the tributary load and allowable soil pressure of 1500 psf maximum. In no case shall the footing be less than 24" x 24".

**ADD: Figure 403.1(1) Notes.**

**Figure 403.1(1)  
CONCRETE AND MASONRY FOUNDATION DETAILS**

**Notes:**

1. Exterior footings shall extend to below the frost line unless otherwise protected against frost heave. In no case shall exterior footings be less than 12 inches below grade.
2. Footing widths (W) shall be based on the load-bearing value of the soil in accordance with Table 401.4.1 or shall be designed in accordance with accepted engineering practice. All footings shall meet the following minimum footing widths:
  - A. Minimum Footing Width
    - 16" - 1 Story
    - 19" - 2 Story
    - 22" - 3 StoryFootings for one story structures with monolithic concrete slabs shall be 12" minimum in width.
3. Spread footings shall be a minimum of 8 inches thick, and footing projections (P) shall be a minimum 2 inches.
4. Footings shall be supported on undisturbed natural soil or engineered fill.
5. The sill plate or floor system shall be anchored to the foundation with ½-inch-diameter bolts placed 6 feet on center and not more than 12 inches from corners. Bolts shall extend a minimum of 15 inches into masonry or 7 inches into concrete. Sill plates shall be protected against decay.
6. Pier and column footing sizes shall be based on the tributary load and allowable soil pressure of 1500 psf. In no case shall the footing be less than 24" x 24".

**DELETE: Figure R403.1(2) and Figure R403.1(3).**

**AMEND: R403.1.4.1 Frost Protection.** Except where otherwise protected from frost, foundation walls, piers and other permanent supports of buildings and structures shall be protected from frost by one or more of the following methods:

1. Extended below the frost line specified in Table R301.2(1) (in all new construction);
2. Constructing in accordance with Section R403.3 (for existing buildings).

**AMEND: R403.1.5 Slope.** The top surface of the footings shall be level. Footings shall be stepped where it is necessary to change the elevation of footings.

**AMEND: R403.1.6 Foundation anchorage.** Sill plates and walls supported directly on continuous foundations shall be anchored to the foundation in accordance with this section.

Wood sole plate at all exterior walls on monolithic slabs, wood sole plates of braced wall panels at building interiors on monolithic slabs and all wood sill plates shall be anchored to the foundation with anchor bolts spaced a maximum of 6 feet (1829 mm) on center. Bolts shall be at least ½ inch (12.7mm) in diameter and shall extend a minimum of 7 inches (178 mm) into concrete and 15 inches (381 mm) into grouted cells of concrete masonry units. A nut and washer shall be tightened on each anchor bolt. There shall be a minimum of two bolts per plate section with one bolt located not more than 12 inches (305 mm) or less than seven bolt diameters from each end of the plate section. Interior bearing wall sole plates on monolithic slab foundation that are not part of a braced wall panel shall be positively anchored with approved fasteners. Sill plates and sole plates shall be protected against decay and termites where required by Sections R317 and R318. Cold-formed steel framing systems shall be fastened to wood sill plates or anchored directly to the foundation as required in Section R505.3.1 or R603.3.1.

**Exceptions:**

1. Foundation anchorage spaced as required to provide equivalent anchorage to ½-inch-diameter (12.7 mm) anchor bolts.
2. Walls 24 inches (610 mm) total length or shorter connecting offset braced wall panels shall be anchored to the foundation with a minimum of one anchor bolt located in the center third of the plate section and shall be attached to adjacent braced wall panels at corners as shown in Figure R602.10.4.4(1).
3. Connection of walls 12 inches (305 mm) total length or shorter connecting offset braced wall panels to the foundation without anchor bolts shall be permitted. The wall shall be attached to adjacent braced wall panels at corners as shown in Figure R602.10.4.4(1).
4. All accessory structures over 120 square feet other than detached garages shall be secured to the ground at all corners to prevent lateral movement and uplift, which may consist of screw in anchors, steel posts on inside corners, anchor bolts to concrete floor or any approved ground anchoring system.

**DELETE: R403.4 Footings for precast concrete foundations.**

**DELETE: R403.4.1 Crushed stone footings.**

**DELETE: R403.4.2 Concrete footings.**

**DELETE: Table R403.4 Minimum Depth of Crushed Stone Footings.**

**DELETE:** Figure R403.4(1) Basement or Crawl Space with Precast Foundation Wall Bearing on Crushed Stone.

**DELETE:** Figure R403.4(2) Basement or crawl space with precast foundational wall on spread footing.

**AMEND:** **R404.1 Concrete and masonry foundation walls.** Concrete foundation walls shall be selected and constructed in accordance with the provisions of Section R404.1.2. masonry foundation walls shall be selected and constructed in accordance with the provisions of Section R404.1.1.

In lieu of a complete geotechnical evaluation, the soil classification of SC, ML-CL and inorganic CL soils, 60 shall be assumed.

**AMEND:** Table R404.1.2(2), R404.1.2(3) and R404.1.2(4) **Minimum Vertical Reinforcement for 6, 8 & 10-inch stay-in-place form concrete basement walls.**

**AMEND:** **R404.1.2.3.7 Reinforcement.** Reinforcement shall be in accordance in this section or ACI 318.

**AMEND:** Table R404.1.2(8) **Minimum Vertical Reinforcement for 6, 8, 10 & 12-inch Cast-in-place basement walls.**

**DELETE:** R404.5 Precast concrete foundation walls.

**DELETE:** R404.5.1 Design.

**DELETE:** R404.5.2 Precast concrete foundation design drawings.

**DELETE:** R404.5.3 Identification.

**AMEND:** **R405.1 Concrete or masonry foundations.** Drains shall be provided around all concrete or masonry foundations enclosing habitable or usable spaces located below grade. Drainage tiles, gravel or crushed stone drains, perforated pipe or other approved systems or materials shall be installed six (6) inches below the area to be protected and shall discharge by gravity or mechanical means into an approved drainage system. Gravel or crushed stone drains shall extend at least 1 foot (305mm) beyond the outside edge of the footing and 6 inches (153mm) above the top of the footing and be covered with an approved filter membrane material. The top of open joints of drain tiles shall be protected with strips of building paper, and the drainage tiles or perforated pipe shall be placed on a minimum of 2 inches (51mm) of washed gravel or crushed rock at least one sieve size larger than the tile joint opening or perforation and covered with not less than 6 inches (153mm) of the same material.

**DELETE:** Exception.

**DELETE:** R405.2, R405.2.1, R4.5.2.2 & R405.2.3 Wood Foundations.

**DELETE: R406.1 Concrete and masonry foundation dampproofing.**

**DELETE: R406.3 Dampproofing for Wood Foundations.**

**DELETE: R406.4 Precast concrete foundation system dampproofing.**

**DELETE: R408.7 Flood resistance.**

## **CHAPTER 5 FLOORS**

**AMEND: R502.2.2.3 Deck lateral load connection.** Lateral load connection is required when at top of the deck floor is six feet or more above finish grade. The lateral load connection required by Section R502.2.2 shall be permitted to be in accordance with Figure R502.2.2.3. Hold-down tension devices shall be installed in not less than two locations per deck, and each device shall have an allowable stress design capacity of not less than 1500 pounds (6672 N).

**AMEND: R502.11.1 Design.** Wood trusses and engineered wood products shall be designed in accordance with approved engineering practice. The design and manufacture of metal plate connected wood trusses shall comply with ANSI/TPI 1. The truss design drawings shall be prepared by a licensed design professional. Headers, beams and girders supporting engineered wood joists must be designed by a licensed design professional when the span of the headers or beams exceeds six (6) feet. The design professional must certify that the header or beam design is within the deflection tolerances of the engineered wood joists it supports.

Exception: Engineered wood beams and girders as part of an engineered floor or roof package that is designed under the direct supervision of a licensed design professional.

**AMEND: R502.14 Protected Assemblies.** All engineered wood floor joist assemblies constructed above basements, storage areas, habitable spaces, or other accessory areas must be provided with a finished ceiling or an approved sprinkler system. If a finished ceiling is provided, it shall be a minimum ½” drywall or provide a one (1) hour fire resistance rating.

**DELETE: SECTION R504 PRESSURE PRESERVATIVELY TREATED WOOD FLOORS (ON GROUND)**

**AMEND: R505.1.3 Floor Trusses.** The design, quality assurance, installation and testing of cold-formed steel trusses shall be in accordance with the AISI Standard for Cold-formed Steel Framing-Truss Design (COFS/Truss).

Truss members shall not be notched, cut or altered in any manner without an approved design. All floor joist assemblies constructed above basements, storage areas, habitable spaces, or other accessory areas must be provided with a finished ceiling or an approved sprinkler system. If a finished ceiling is provided, it shall be a minimum ½” drywall or provide a one (1) hour fire resistance rating.

**AMEND: R506.2.2 Base. Delete the Exception.**

## CHAPTER 6 WALL CONSTRUCTION

**AMEND: R601.3 Vapor retarders.** Class I or Class II vapor retarders are required on the interior side of frame walls in Zones 5, 6, 7, 8, and Marine 4. Class I and/or Class II vapor retarders are not permitted on both the interior and the exterior sides of frame walls.

**Exceptions:**

1. Basement walls.
2. Below grade portion of any wall.
3. Construction where moisture or its freezing will not damage the materials.

**DELETE: Table R601.3.1**

**Zone 5**  
 Vented cladding over OSB  
 Vented cladding over plywood  
 Vented cladding over fiberboard  
 Vented cladding over gypsum

**AMEND: Table R602.7 Maximum Spans for Headers over Openings in Walls.**

**TABLE R602.7  
MAXIMUM SPANS FOR HEADERS OVER OPENINGS IN WALLS**

SIZE OF HEADER <sup>1</sup>	HEADERS IN WALLS NOT SUPPORTING FLOORS OR ROOFS
2-2 x 4	-----
2-2 x 6	-----
2-2 x 8	10
2-2 x 10	12
2-2 x 12	16

<sup>1</sup> Nominal 4-inch-thick single headers may be substituted for double members.

**AMEND: R612.3 Window opening limiting devices.** Window fall prevention devices and window guards, where provided, shall comply with the requirements of ASTM F 2090 or ASTM F 2006.

## **CHAPTER 8 ROOF-CEILING CONSTRUCTION**

**AMEND: R802.10.2 Design.** Wood trusses shall be designed in accordance with accepted engineering practice. The design and manufacture of metal plate connected wood trusses shall comply with ANSI/TPI 1. The truss design drawings shall be prepared by a licensed design professional.

**AMEND: R802.11 Roof tie-down.** Roof assemblies shall have rafter or truss ties provided at each rafter or truss bearing location.

## **CHAPTER 9 ROOF ASSEMBLIES**

**AMEND: R903.4.1 Overflow drains and scuppers.** Where roof drains are required, overflow drains having the same size as the roof drains shall be installed with the inlet flow line located 2 inches (51 mm) above the low point of the roof, or overflow scuppers having three times the size of the roof drains and having a minimum opening height of 4 inches (102 mm) shall be installed in the adjacent parapet walls with the inlet flow located 2 inches (51 mm) above the low point of the adjacent roof. The installation and sizing of overflow drains, leaders and conductors shall comply with the currently adopted Illinois State Plumbing Code as locally amended.

Overflow drains shall discharge to an approved location and shall not be connected to roof drain lines.

## **CHAPTER 10 CHIMNEYS AND FIREPLACES**

### **SECTION R1004, FACTORY-BUILT FIREPLACES**

**DELETE: SECTION R1004.4 Unvented gas log heaters.**

## **CHAPTER 11 ENERGY EFFICIENCY**

**DELETE: CHAPTER 11 ENERGY EFFICIENCY**

**ADD: CHAPTER 11 ENERGY EFFICIENCY**

**1301.1 Scope.** All buildings shall be designed and constructed to meet the Illinois Energy Conservation Code.

## **CHAPTER 16 DUCT SYSTEMS**

### **SECTION M1601, DUCT CONSTRUCTION**

#### **M1601.1.1 Above-ground duct systems.**

**AMEND: 3.** Fibrous glass air ducts (duct board) are **not** permitted in any use group.

## **CHAPTER 24 FUEL GAS**

### **SECTION G2414 (403) PIPING MATERIALS**

**DELETE: SECTION G2414.5 (403.5) Metallic tubing.**

**DELETE: SECTION G2414.5.1 (403.5.1) Steel tubing.**

**DELETE: SECTION G2414.5.2 (403.5.2) Copper tubing.**

**DELETE: SECTION G2433 (603) LOG LIGHTERS**

**DELETE: SECTION G2445 (621) UNVENTED ROOM HEATERS**

## **CHAPTERS 25-33 PLUMBING**

**DELETE: CHAPTERS 25 – 33**

**ADD: CHAPTER 25 PLUMBING ADMINISTRATION**

**P2501.1 Scope.** The provisions of the currently adopted plumbing code shall establish the general administrative, installation and inspection requirements applicable to plumbing systems.

**CHAPTERS 34 – 43  
ELECTRICAL**

**DELETE: CHAPTERS 34 – 43**

**ADD: CHAPTER 34 GENERAL REQUIREMENTS**

**E3401.2 Scope.** The currently adopted Electrical Code shall cover the installation of electrical systems, equipment and components indoors and outdoors including services, power distribution systems, fixtures, appliances, devices and appurtenances.

**APPENDICES**

**APPENDIX E - MANUFACTURED HOUSING USED AS DWELLINGS**

**AMEND: AE302.2 Plans and specifications.** Plans, engineering calculations, diagrams and other data as required by the authority having jurisdiction shall be submitted with each application for a permit. The authority having jurisdiction may require plans, computations and specifications to be prepared and designed by an engineer or architect licensed by the state to practice as such.

Where no unusual site conditions exist, the authority having jurisdiction may accept approved standard foundation plans and details in conjunction with the manufacturer's approved installation instructions without requiring the submittal of engineering calculations.

**AMEND: AE303.1 Issuance.** The application, plans and specifications and other data filed by an applicant for permit shall be reviewed by the authority having jurisdiction. Such plans may be reviewed by other departments of this jurisdiction to verify compliance with any applicable laws under their jurisdiction. If the authority having jurisdiction finds that the work described in an application for a permit and the plans, specifications and other data filed therewith conform to the requirements of these provisions and other pertinent codes, laws and ordinances, and that the fees specified in

Section AE304 have been paid, the authority having jurisdiction shall issue a permit therefore to the applicant.

Such approved plans and specifications shall not be changed, modified or altered without authorization from the authority having jurisdiction, and all work shall be done in accordance with the approved plans.

**AMEND: AE303.2 Retention of plans.** One set of approved plans shall be kept on the site of the building or work at all times during which work authorized thereby is in progress. One set of approved plans, specifications and computations shall be retained by the Code Official until final approval of work.

**AMEND: AE303.4 Expiration.** Any permit issued shall become invalid if the authorized work is not commenced within six months after issuance of the permit, or if the authorized work is suspended or abandoned for a period of six months after the time of commencing the work. The Building Official may grant, upon written application and for reasonable cause, one or more extensions of time for additional periods not exceeding ninety (90) days each.

**ADD: AE303.4.1 Unused building materials.** When a permit becomes invalid pursuant to Section AE303.4 as amended, all building materials not stored within a building or permanent structure shall be removed from the job site.

**AMEND: AE304.1 Permit fees.** Permit fees shall be determined by Section R108 Fees.

**DELETE: AE304.2 Plan review fees.**

**AMEND: AE304.3.1 Time limitation of application.** An application for a permit for any proposed work shall be deemed to have been abandoned three (3) months after the date of filing, unless such application has been diligently prosecuted or a permit shall have been issued; except that the code official shall grant one or more extensions of time for additional periods not exceeding ninety (90) days each if there is reasonable cause.

**DELETE: AE304.3.2 Investigation fees: Work without a permit.**

**DELETE: AE304.3.2.1 Investigation.**

**DELETE: AE304.3.2.2 Fee.**

**DELETE: AE304.3.3 Fee refunds.**

**DELETE: AE304.3.3.1 Permit fee erroneously paid or collected.**

**DELETE: AE304.3.3.2 Permit fee paid when no work done.**

**DELETE: AE304.3.3.3 Plan review fee.**

**DELETE: AE305.3 Inspection record card.**

## **APPENDIX F – RADON CONTROL METHODS**

**DELETE: AF103.2 Subfloor preparation, Items 2 & 3.**

**AMEND: AF103.4.1 Floor openings.** Openings around bathtubs, showers, water closets, pipes, wires or other objects that penetrate concrete slabs or other floor assemblies shall be filled with a polyurethane caulk or equivalent sealant device installed in accordance with the manufacturer's recommendations.

**DELETE: AF103.4.5 Foundation walls.**

**AMEND: AF103.4.6 Waterproofing.** The exterior surfaces of portions of concrete and masonry block walls below the ground surface shall be waterproofed in accordance with Section R406 of this code.

**AMEND: AF103.5.3 Vent pipe.** A plumbing tee or other approved connection shall be inserted horizontally beneath the sheeting and connected to a 3- or 4-inch-diameter (76 mm or 102 mm) fitting with a vertical vent pipe installed through the sheeting. The vent pipe shall be extended up through the building floors, terminate at least 12 inches (305 mm) above the roof in a location at least 10 feet (3048 mm) away from any window or other opening into the conditioned spaces of the building that is less than 2 feet (610 mm) below the exhaust point, and 10 feet (3048 mm) from any window or other opening in adjoining or adjacent buildings. The pipe shall be installed with the absolute minimum of fittings other than couplings.

**AMEND: AF103.6.1 Vent pipe.** A minimum 3-inch-diameter (76 mm) ABS, PVC or equivalent gas-tight pipe shall be embedded vertically into the sub-slab aggregate or other permeable material and securely fastened to ensure that the pipe opening remains within the sub-slab permeable material. Alternatively, the 3-inch (76 mm) pipe shall be inserted directly into an interior perimeter drain tile loop or through a sealed sump cover where the sump is exposed to the sub-slab aggregate or connected to it through a drainage system. The pipe shall be extended up through the building floors, terminate at least 12 inches (305 mm) above the surface of the roof in a location at least 10 feet (3048 mm) away from any window or other opening into the

conditioned spaces of the building that is less than 2 feet (610 mm) below the exhaust point, and 10 feet (3048 mm) from any window or other opening in adjoining or adjacent buildings. The pipe shall be installed with the absolute minimum of fittings other than couplings.

**DELETE:** AF103.12 Power Source.

#### **APPENDIX G – SWIMMING POOLS, SPAS, AND HOT TUBS**

**UNDELETE:** AG105.2 Outdoor swimming pools, Item #9.

**UNDELETE:** AG105.3 Indoor swimming pool.

#### **APPENDIX M – HOME DAY CARE – R3 OCCUPANCY**

**AMEND:** AM101.1 General. This appendix shall apply to a home child day care operated within a dwelling. All one and two family dwellings providing home day care services shall comply with the requirements of the Illinois Department of Children and Family Services rules parts 406 Licensing Standards for Day Care Homes and 408 Licensing Standards for Group Day Care Homes.