

AN ORDINANCE

amending Sec 26-67 of Chapter 26, Buildings and Building Regulations, Article III., Building Code, Sec. 26-67., Amendments to the International Residential Code., for the purpose of making certain changes to address issues related to the May 22, 2011 tornado.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF JOPLIN, MISSOURI, as follows:

Section 1. That Section 26-67. Amendments to the International Residential Code., of the Joplin City Code, be amended to read as follows:

“Sec. 26-67. Amendments to the International Residential Code.

The [residential] building code adopted by Section 26-66 of this article is hereby amended, changed, and altered, as follows:

R101.1 is amended by inserting: [City of Joplin].

R104.11 is amended by adding the following paragraph to the existing section:

The alternative method commonly known as "pole barn" or "laminated pole" type structures shall be limited to commercial buildings and accessory buildings only and not for residential dwelling units.

R105.2 is amended by deleting item 1 in its entirety.

R105.2 is amended by deleting item 2 in its entirety.

R105.2 is amended by deleting item 5 in its entirety.

R106 is deleted in its entirety.

R107.3 is amended by deleting "ICC Electrical Code" and replacing such text with "2008 National Electrical Code."

Table R301.2 (1) is amended by inserting: [30 lb Ground Snow Load, 90 mph Wind Speed, B Seismic Design Category, Severe Weathering, 30 inches Frost line depth, moderate to heavy termite, slight to moderate decay, 9, Dec. 8, 1976 Flood Hazards].

R403.1.1 is amended by adding wording: "All footings for residential construction are to be at least 16 inches in width and eight inches in thickness."

R403.1.6 Foundation anchorage is amended to read as follows:

"R403.1.6 Foundation anchorage. When braced wall panels are supported directly on continuous foundations, the wall wood sill plate or cold-formed steel bottom track shall be anchored to the foundation in accordance with this section.

The wood sole plate at all exterior walls on monolithic slabs and wood sill plates shall be anchored to the foundation with anchor bolts spaced a maximum of 4 feet on center. 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. In Seismic Design Categories D0, D1 and D2, anchor bolts shall be spaced at 6 feet (1829 mm) on center and located within 12 inches (305 mm) of the ends of each plate section at interior braced wall lines when required by Section R602.10.9 to be supported on a continuous foundation. Bolts shall be at least 1/2 inch (13 mm) in diameter and shall extend a minimum of 7 inches (178 mm) into masonry block cells filled with concrete from the footing up or concrete. Interior bearing wall sole plates on monolithic slab foundation shall be positively anchored with approved fasteners. A nut and washer shall be tightened on each bolt of the plate. Sills and sole plates shall be protected against decay and termites where required by Sections R319 and R320. Cold-formed steel framing systems shall be fastened to the wood sill plates or anchored directly to the foundation as required in Section R505.3.1 or R603.1.1.

Exceptions:

1. Foundation anchorage spaced as required to provide equivalent anchorage to 1/2-inch-diameter (13 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 per Figure R602.10.5 at corners.

3. Walls 12 inches (305 mm) total length or shorter connecting offset braced wall panels shall be permitted to be connected to the foundation without anchor bolts.

The wall shall be attached to adjacent braced wall panels per Figure R602.10.5 at corners.”

Section R404.1.1 Masonry foundation walls is amended to read as follows:

“R404.1.1 Masonry foundation walls. Concrete masonry and clay masonry foundation walls shall be constructed as set forth in Table R404.1.1(1), R404.1.1(2), R404.1.1(3) or R404.1.1(4) and shall also comply with the provisions of Section R404 and the applicable provisions of Sections R606, R607 and R608. In Seismic Design Categories D0, D1 and D2, concrete masonry and clay masonry foundation walls shall also comply with Section R404.1.4. Rubble stone masonry foundation walls shall be constructed in accordance with Sections R404.1.8 and R607.2.2. Rubble stone masonry walls shall not be used in Seismic Design Categories D0, D1 and D2.

Regardless of the height of unbalanced backfill referenced in the tables, every masonry foundation shall have a minimum of one #4 reinforcing bar a maximum of every 4’ on center that is securely anchored in the supporting footing under the wall. The block cells that contain the reinforcing steel and the anchor bolts shall be filled with concrete. If the tables require more than this minimum, then the requirements of the tables shall apply.”

Section R802.10.5 Truss to wall connection is amended to read as follows.

“R802.10.5 Truss to wall connection. In addition to the requirements of this section, every truss shall be connected to wall plates by the use of approved connectors having a resistance to uplift of not less than 175 pounds (779 N) and shall be installed in accordance with the manufacturer’s specifications. For roof assemblies subject to wind uplift pressures of 20 pounds per square foot (960 Pa) or greater, as established in Table R301.2(2), adjusted for height and exposure per Table R301.2(3), see section R802.11.”

Section R802.11 Roof tie-down. is amended to read as follows:

"R802.11.1 Uplift resistance. In addition to the requirements of this section, every rafter shall be connected to the supporting wall assembly by approved connectors. Roof assemblies which are subject to wind uplift pressures of 20 pounds per square foot (960 Pa) or greater shall have roof rafters or trusses attached to their supporting wall assemblies by connections capable of providing the resistance required in Table R802.11. Wind uplift pressures shall be determined using an effective wind area of 100 square feet (9.3 m²) and Zone 1 in Table R301.2(2), as adjusted for height and exposure per Table R301.2(3)."

Section E3301.1 is amended by adding the following paragraph to the existing section:

"Chapters 33 through 42 of the International Residential Code shall be amended to include any applicable sections of the 2008 National Electrical Code as adopted and amended by section 26-74 of the Joplin Code of Ordinances."

Section E3306.10.1, Exception is amended to read:

"Splices shall be permitted within surface-mounted raceways that have removable covers, subject to fill requirements."

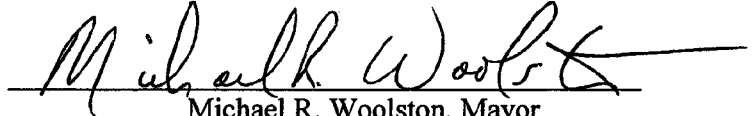
Section E3505 shall be amended by adding the following paragraph at the beginning:

"Only copper wire of the correct size and type shall be permitted as service-entrance conductors, and all conductors within the structure shall also be copper of the correct size and type. Aluminum or copper-clad aluminum shall not be permitted as service-entrance conductors, or conductors within the structure under any circumstance. The wire type and size used to supply the necessary service up to the point of attachment to the structure shall be the sole responsibility of Empire District Electric Company or the Electric Utility Company of the time supplying the City of Joplin."

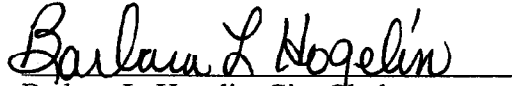
Section E3508 shall be amended by adding the following paragraph at the beginning:

"The primary grounding electrode for all new construction shall be a concrete-encased electrode as defined by section E3508.1.2."

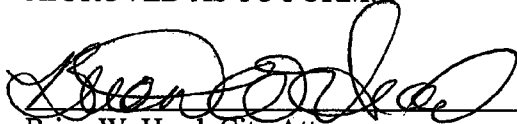
PASSED BY THE COUNCIL OF THE CITY OF JOPLIN, MISSOURI, this 7th day of November, 2011.


Michael R. Woolston, Mayor

ATTEST:


Barbara L. Hogelin, City Clerk

APPROVED AS TO FORM:


Brian W. Head, City Attorney

EFFECTIVE 20 DAYS FROM DATE