

**BUILDING CODES**  
**CITY OF WASHINGTON, MO**

**AMENDMENTS TO THE INTERNATIONAL CODES**  
**2009 EDITION**

**RESIDENTIAL CODE**  
**For One- And Two Family Dwellings**

**BUILDING CODE**

**FIRE CODE**

**MECHANICAL CODE**

**PLUMBING CODE**

**FUEL GAS CODE**

**2012**



October 19, 2012

Mr. James Briggs  
City of Washington  
405 Jefferson Street  
Washington, MO 63090

Dear Mr. Briggs,

The Ad hoc Building Code Review Committee, with the assistance of Don Peters, reviewed the 2009 edition of the below listed codes. A number of minor amendments are necessary to facilitate local implementation. Most of the amendments are administrative in nature and, in most instances, are the same as those made to the 2003 edition that is now enforce.

1. International Residential Code (IRC) For One- And Two-Family Dwellings
2. International Building Code (IBC)
3. International Fire Code (IFC)
4. International Mechanical Code (IMC)
5. International Plumbing Code (IPC)
6. International Fuel Gas Code (IFG)

The fuel gas code was not adopted in 2003 but is now recommended for adoption.

The BOCA Basic Life Safety Code, 1981 edition is currently enforce but the committee recommends that not be re-adopted. The committee did not review the Property Maintenance Code.

Please contact me if the committee can be of further assistance.

Respectfully submitted

Gary Terschluse, P.E.  
Chairman – Ad hoc Building Code Review Committee

**CITY OF WASHINGTON, MO**

**AMMENDMENTS TO THE**

**INTERNATIONAL RESIDENTIAL CODE, 2009 EDITION**

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Amendments to the International Residential Code, 2009 edition, are given in the following text. Each code section that corresponds to one of the following provisions is hereby deleted where so noted or amended to read as set forth below. Each provision set out below without a corresponding section, sub-section or clause number in the code is hereby enacted and added thereto. Wording that is struck-through is to be deleted from the code. Wording in italics is to be inserted into code.

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**CHAPTER 1**  
**SCOPE AND ADMINISTRATION**

**R-101.1 Title:** These provisions shall be known as the Residential Code for One- and Two-Family Dwellings of *The City of Washington, Missouri*, and shall be cited as such and will be referred to herein as "this code".

**R-105.2 Work Exempt from Permit:** Exemption 1. Delete the exception and replace with the following: *One-story detached accessory structures, provided the floor space does not exceed 100 square feet.*

**R-105.5 Expiration:** Every permit issued shall become invalid unless the work authorized by such permit is commenced within *180 days* after its issuance, or if the work authorized by such permit is not completed within *365 days* after the permit is issued. The building official is authorized to grant, in writing, one or more extensions of time, for periods not more than *90 days* each. The extensions shall be requested in writing and justifiable cause demonstrated.

**R-106.2.1 Scale:** *The site plan shall be drawn to scale.*

**R-106.2.2 Erosion Control Plan:** *The construction documents shall include an erosion control plan.*

**R-108.2 Schedule of Permit Fees:** *(No change.)*

*R-108.2.1 When construction has commenced and been completed without a permit, the permit fee shall be twice the total fee amount to cover the additional inspections and the time necessary to insure compliance with the code. When construction has begun under the authorization of a permit, but the permit holder has failed to contact the building department for an inspection, and the construction has progressed to a point that the inspection cannot be reasonably done, then an additional 25% of the total permit fee will be assessed to cover the increased cost and time devoted beyond normal inspection, and payment received prior to conducting any further inspections.*

**R-113.4 Violation Penalties:** *Replace text with the following:*

*Except as hereby provided, the violation of any portion of this code shall be punishable by a fine not exceeding five hundred dollars (\$500), or by imprisonment for a period of not exceeding ninety (90) days, or by both such fine and imprisonment.*

**SECTION R115**  
**FIRE SAFETY SIGNAGE**

**116.1 Fire Safety Signage.** *New buildings having roof or floor areas constructed with the below listed lightweight engineered wood framing materials shall have fire safety signage placed on the electric meter base.*

1. Pre-fabricated wood I-joists
2. Metal-plate-connected wood trusses
3. Finger-jointed wood trusses

The signage shall be 2 1/2" wide x 4" high and have red letters on a white reflective background as specified and furnished by the City of Washington. Signage samples are given below. T indicates metal-plate-connected or finger-jointed wood roof trusses. E indicates one of the above listed lightweight engineered wood framing materials. S indicates the floor framing is protected by an automatic fire sprinkler system.



*Commentary:* Some types of lightweight engineered wood-framed construction can quickly lose strength under certain fire conditions posing a hazard to both the occupant and first responder. This hazard has been studied by recognized authorities including Underwriters Laboratory, the National Institute of Occupation Safety and Health (NIOSH) and the American Wood Council. The addition of a sticker to the electric meter alerts the occupant and first responder to a potential hazard so that appropriate precautions may be taken in the event of a fire.

## CHAPTER 2 DEFINITIONS

### SECTION R202 DEFINITIONS

Add the following definitions:

**BALCONY, EXTERIOR.** An exterior floor projecting from and supported by a structure without additional independent supports.

**DECK.** An exterior floor system supported on at least two opposing sides by adjoining structure and / or columns, piers, or other independent supports.

**CONFINED SPACE.** A room or space having a volume less than 50 cubic feet per 1000 Btu/h (4.83 L/W) of aggregate input rating of all fuel burning appliances installed in that space.

**UNCONFINED SPACE.** A room or space having a volume less than 50 cubic feet per 1000 Btu/h (4.83 L/W) of aggregate input rating of all fuel burning appliances installed in that space. Rooms communicating directly with this space in which the appliance is installed, through openings not furnished with doors, are considered a part of the unconfined space.

**UNUSUALLY TIGHT CONSTRUCTION.** Construction meeting the following requirements: 1. Walls comprising the building thermal envelope have a continuous water vapor retarder with a rating of 1 perm [57.4ng / (s.m2.Pa)] or less with opening therein gasketed or sealed. 2. Doors and operable windows meet the air leakage requirements if IECC Section 502.1.4.1; and 3. Caulking or sealants are applied to areas such as joints around windows and door frames between sole plates and floors, between wall - ceiling joist, between wall panels, at penetrations for plumbing, electrical and gas lines, and other openings.

**CHAPTER 3  
BUILDING PLANNING**

**Table R-301.2 (1) Climate and Geographic Design Criteria:** *Add the following values:*

**TABLE R301.2(1)  
CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA**

Ground Snow Load		20 psf
Wind Design	Speed (mph)	90 mph (3 second gust) 76 mph (fastest mile)
	Topographic effects	No
Seismic Design Category		C
Subject To Damage From	Weathering	Severe
	Frost line depth	30-inches
	Termites	Moderate to Heavy
Winter Design Temperature		0 to 10 degree F
Ice Barrier Underlayment Required		No
Flood Hazards		Ordinance flood plain
Air Freezing Index		767
Mean Annual Temperature		55.3 °F

**Table R-301.5 Minimum Uniformly Distributed Live Loads:** *Delete following table footnote:*

*g.1: The attic area is accessible by a pull-down stairway or framed in accordance with Section 807.1.*

**R-302.2 Townhouses: Exception:** A common 4-hour 2-hour fire-resistance-rated wall assembly tested in accordance with ASTM E 119 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 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 R-302.4.

**Table R-302.6 Dwelling / Garage Separation:** *Replace 1/2" Gypsum Board with 5/8" Type X Gypsum board throughout Table.*

**R-302.11 Fire blocking:** *Add the following subsection.*

*7. Fireblocking is required in common wall between the living space and the garage at the midpoint.*

**R-303.3 Bathrooms:** The exception shall read as follows: Exception: The glazed areas shall not be required where artificial light and a mechanical ventilation system are provided. The minimum ventilation rates shall be 50 cubic feet per minute (24 L/s) for intermittent ventilation or 20 cubic feet per minute (10 L/s) for continuous ventilation. Ventilation air from the space shall be exhausted directly to the outside. *A soffit vent is considered outside. The ridge vent, gable vent, and attic vents are not considered outside.*

**R-309.1 Floor surface:** Garage floor surfaces shall be of approved noncombustible material *and shall set a minimum of 1-inch below the level of combustible framing materials such as a wall sill plate.* The area of floor used for parking of automobiles or other vehicles shall be sloped to facilitate the movement of liquids to a drain or toward the main vehicle entry doorway. *Floor drains are not permitted.*

**R-309.2 Carport:** *Delete the following exception:*

~~**Exception:** Asphalt surfaces shall be permitted at ground level in carports.~~

**R-311.3.2 Floor Elevation for other exterior doors:** *Delete the following exception:*

~~Exception: A landing is not required where a stairway of two or fewer risers is located on the exterior side of the door, provided the door does not swing over the stairway.~~

**R-311.7.7 Handrails:** Handrails shall be provided on at least one side of each continuous run of treads or flight with ~~four~~ three or more risers.

**R-312.3 Guards Opening Limitation:** *Delete the following exception.*

~~2. Guards on the open side of stairs shall not have openings which allow passage of a sphere 4 3/8 inches (111 mm) in diameter.~~

**R-313.3 Automatic Fire Sprinkler System Right to Choose:** *As per Section 67.281 of the Missouri Revised Statutes every owner of a new One Family, Two Family dwelling, or Townhouse shall have the right to choose or decline to install a fire sprinkler system in their dwelling. If an Owner chooses not to install a fire sprinkler system in accordance with section R-313 of this code in their dwelling, the dwelling will be required to comply with the provisions of section R-317 of the 2006 International Residential Building Code.*

**R-313.3.1 Fire Sprinkler Option Form:** *Every applicant for a building permit to construct a new Townhouse, One Family, or Two Family Dwelling shall complete the City of Washington Fire Sprinkler Option Form (Attachment A) prior to the issuance of a building permit.*

**R-315.3.1: Type of Alarm:** *The carbon monoxide detector(s) required for all new construction shall be wired directly into the structures AC power with battery back-up, or an AC power plug-in unit with battery back-up. All existing structures that require carbon monoxide detector(s) may install detector(s) as required for new construction, but a minimum of a battery operated unit.*

**R-317.1 Location Required:** *Modify Item 3 as follows:*

~~3. Sills, plates and sleepers on a concrete or masonry slab that is in direct contact with the ground unless separated from such slab by an impervious moisture barrier.~~

**R-318.2 Chemical Termiticide Treatment:** Chemical termiticide treatment shall include soil treatment and/or field applied wood treatment. The Concentration, rate of application and method of treatment of the chemical termiticide shall be in strict accordance with the termiticide label. *When treating soil with chemicals a certification will be required from a licensed exterminator.*

**R-319.1 Site Address:** *Replace text with the following:*

*New and existing buildings shall have approved address numbers, building numbers or approved building identification placed in a position that is plainly legible and visible from the street or sides of the building with emergency responder access. These numbers shall contrast with their background. Address numbers shall be Arabic numbers or alphabetical letters. Numbers shall be Arabic numbers or alphabetical letters. Numbers shall be a minimum of 4 - inches (101.6 mm) high with a minimum stroke width of 0.5 inch (12.7 mm).*

**R-319.2 Street or Road Signs:** *Streets and Roads shall be identified with signs approved by the City Engineering Department. Temporary signs shall be installed at each street intersection when construction of new roadways allows passage by vehicles. Temporary signs shall be of an approved size, weather resistant and be maintained until replaced by permanent signs.*

## CHAPTER 4 FOUNDATIONS

**R-402.1 Wood Foundation:** *Delete Section.*

**R-403.1 General:** All exterior walls shall be supported on continuous solid or fully grouted masonry, or concrete footings, crushed stone, ~~wood foundations~~, or other approved structural systems which shall be of sufficient design to accommodate all loads according to Section R-301 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 footings shall be designed and constructed in accordance with the provisions of Section R-403 or in accordance with ACI 332.

**R-403.1.1 Minimum Size.** Minimum sizes for concrete and masonry footings shall be as set in table R-403.1 and figure R403.1 (1). The footing width, W shall be based on the load-bearing value of the soil in accordance with table R-403.1. Spread footings shall be at least 6 8 inches. Footing projection P, shall be at least 2", and shall not exceed the thickness of the footing. The size of footings supporting piers shall be based on the tributary load, and allowable soil pressure in accordance with table R-401.4.1. ~~Footings for wood foundations shall be in accordance with the details set forth in Section R-403.2, and figures R403.1 (2) and R403.1 (3).~~

**R403.1.1.1 Minimum Reinforcement for Footings Supporting Walls:** Reinforce footings with a minimum of two #4 continuous reinforcing rods spaced evenly, tied in place and positioned 3-inches clear above the supporting soil. Connect wall to footing with L - shaped vertical dowels spaced on 2 - foot centers maximum along the wall centerline. Fabricate the dowels from #4 minimum reinforcing rods with a vertical leg, or hook, measuring 8 inches minimum from the outside edge of the vertical leg and with a vertical leg sized to extend a minimum of 4 inches to 5 inches into the footing and a minimum of 16 inches into the wall. Reinforcing steel shall be minimum Grade 40.

**Table R-403.1 Minimum Width and Thickness of Concrete or Masonry Footings:** ~~Delete Table R-403.1, and replace with the following:~~

**TABLE 403.1**  
**MINIMUM WIDTH OF CONCRETE,**  
**PRECAST OR MASONRY FOOTINGS**  
**(inches)**

	<i>Load-Bearing Value Of Soil 1500 psf to 4000 psf</i>
1-story	20" wide x 8" thick
2-story	20" wide x 8" thick
3-story	24" wide x 10" thick

**Figure R-403.1 (2) Permanent Wood Foundation Basement Wall Section:** ~~Delete figure.~~

**Figure R-403.1 (3) Permanent Wood Foundation Crawl Space Section:** ~~Delete figure.~~

**R-403.1.4.1 Frost Protection.** *Modify exceptions as follows:*

**Exceptions:**

1. Protection of freestanding accessory structures with an area of ~~600~~ 200 square feet or less, of light framed construction, with an eave height of 10' or less shall not be required.
2. ~~Delete exception.~~
3. ~~Delete exception.~~

**R-403.1.4.3 Cold Weather Requirement:** *No Concrete shall be poured or installed when air temperatures are 25 degrees Fahrenheit (25F) or less.*

**R-403.1.4.4 Hot Weather Requirement:** *During hot weather, proper attention shall be given to ingredients, production methods, handling and placing, protection during curing, to prevent excessive concrete temperatures or water evaporation that could impair the required strength or serviceability of the member or structure. No concrete shall be poured or installed when the air temperature is one hundred five degrees (105F) or higher.*

**R-403.2 Footing for Wood Foundations: Delete Section.**

**R-404.1.1 Design of Masonry Foundation Walls:** Masonry foundation walls shall be designed and constructed in accordance with the provisions of this section or in accordance with the provisions of ACI1530/ASCE5/TMS402 or NCMA TR68-A. When ACI1530/ASCE5/TMS402 or NCMA TR68-A or the provisions of this section are used to design masonry foundation walls, project drawings, typical details and specifications are ~~not~~ required to bear the seal of the architect or engineer responsible for the design. ~~unless otherwise required by the State law of the jurisdiction having authority.~~

**R-404.1.1.1 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) designed by a registered design professional,~~ and shall also comply with applicable provisions of sections R606, R607 and R608. In buildings assigned to seismic design categories Do, D1 and D2, concrete masonry and clay masonry foundation walls shall also comply with section R404.1.4.1. 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 Do,D1,and D2.

**R404.1.2 Concrete foundation walls.** Concrete foundation walls that support light-frame walls shall be designed and constructed in accordance with the provisions of this section, ACI 318, ACI 332 or PCA 100. Concrete foundation walls that support above-grade concrete walls that are within the applicability limits of Section R611.2 shall be designed and constructed in accordance with the provisions of this section, ACI 318, ACI 332 or PCA 100. Concrete foundation walls that support above-grade concrete walls that are not within the applicability limits of Section R611.2 shall be designed and constructed in accordance with the provisions of ACI 318, ACI 332 or PCA 100. When ACI 318, ACI 332, PCA 100 or the provisions of this section are used to design concrete foundation walls, project drawings, typical details and specifications are ~~not~~ required to bear the seal of the architect or engineer responsible for design, unless otherwise required by the state law of the *jurisdiction* having authority.

**Table 404.1.1(1) Plain Masonry Foundation Walls: Delete Table 404.1.1(1)**

**Table 404.1.1(2) 8" Masonry Foundation Walls with Reinforcing: Delete Table 404.1.1(2)**

**Table 404.1.1(3) 10" Masonry Foundation Walls with Reinforcing: Delete Table 404.1.1(3)**

**Table 404.1.1(4) 12" Masonry Foundation Walls with Reinforcing: Delete Table 404.1.1(4)**

**Table 404.1.2(1) Minimum Horizontal Reinforcement for Concrete Basement Walls :** *Delete Table 404.1.2(1), and replace with the following Table R404.1.2 (1).*

**TABLE R404.1.2 (1)  
REINFORCEMENT FOR CONCRETE  
FOUNDATION WALLS**

Maximum Wall Height (feet)	Minimum Reinforcement Size And Spacing For 8", 10" and 12" Walls In All Soil Classes	
	Vertical	Horizontal
4	#4 @48"	#4 @ 24"
8	#4 @ 24"	#4 @ 24" (4 bars minimum)
9	#4 @ 24"	#4 @ 24"
Greater than 9	Design Required	
Notes		
a. Reinforcement shall be Grade 60 minimum. Reinforcement shall be placed		

- 3" from the inside face.
- b. Vertical reinforcement shall extend to within 6" from the top of the foundation wall.
  - c. Wall height is measured from the top of balance fill to the top of the wall.
  - d. Where walls will retain 4 feet or more of unbalanced backfill, they shall be laterally supported at the top and bottom before backfilling.

**R-404.1.2.2 Reinforcement for Foundation Walls:** Concrete foundation walls shall be laterally supported at the top and bottom. Horizontal reinforcement shall be provided in accordance with table R404.1.2(1). Vertical reinforcement shall be provided in accordance with *Table R404.1.2(1)* ~~Table R404.1.2(2), R404.1.2(3), R404.1.2(4), R404.1.2(5), R404.1.2(6), R404.1.2(7), or R404.1.2(8)~~. Vertical reinforcement for flat basement walls retaining 4 feet or more of unbalanced backfill is permitted to be determined in accordance with Table R404.1.2(9). For basement walls supporting above-grade concrete walls, vertical reinforcement shall be the greater of that required by *Table R404.1.2(1)* ~~Tables R404.1.2(2) through R404.1.2(8)~~, or by Section R611.6 for the above grade wall. In buildings assigned to seismic design category Do, D1, or D2 concrete foundation walls shall also comply with Section R404.1.4.2.

**Table 404.1.2(2) Minimum Vertical Reinforcement for 6" Nominal Flat Concrete Basement Walls :**  
*Delete Table 404.1.2(2)*

**Table 404.1.2(3) Minimum Vertical Reinforcement for 8" Nominal Flat Concrete Basement Walls :**  
*Delete Table 404.1.2(3)*

**Table 404.1.2(4) Minimum Vertical Reinforcement for 10" Nominal Flat Concrete Basement Walls :**  
*Delete Table 404.1.2(4)*

**Table 404.1.2(8) Minimum Vertical Reinforcement for 6"-8"-10"-12" Nominal Flat Concrete Basement Walls :** *Delete Table 404.1.2(8)*

**R-404.1.2.3 Concrete, Materials for Concrete, and Forms:** Materials used in Concrete, the concrete itself and forms shall conform to the requirements of this section or ACI 318. *All removable concrete forms shall be coated with a form release agent prior to placement of concrete.*

**R-404.1.3: Design Required:** *Add the following requirement:*

- 3. *Walls supporting suspended reinforced concrete floors, prestressed concrete floor planks, or other floor framing systems not addressed by Chapter 5 of this code.*

**R-404.2 Wood Foundation Walls:** *Delete Section.*

**Table R-404.2.3 Plywood Grade and Thickness for Wood Foundation Construction:** *Delete Section.*

**R-405.2 Wood Foundations:** *Delete Section.*

**R-406.3 Dampproofing for Wood Foundations:** *Delete Section.*

**R-408.4 Access:** Access shall be provided to all under-floor spaces. Access openings through the floor shall be a minimum of 18 inches x 24 inches (457 mm x 610 mm). Openings through a perimeter wall shall not be less than ~~16" x 24"~~ 22 inches x 30 inches. When any portion of the through wall access is below grade, an areaway not less than ~~16 inches x 24 inches~~ 22 inches x 24 inches shall be provided. The bottom of the areaway shall be below the threshold of the access opening. Through wall access openings shall not be located under a door to the residence. See Section M1305.1.4 for access requirements where the mechanical equipment is located under the floor.

## CHAPTER 5

**FLOORS**

**R-501.1.1 Design Required:** *A design in accordance with accepted engineering practice shall be provided for suspended reinforced concrete floors, prestressed concrete plank floors, and other floor framing systems not addressed in Chapter 5 of this code. Construction documents prepared by a licensed design professional shall be submitted. The construction documents shall show the design requirements for the floor system and all supporting elements.*

**R-502.3.1 Sleeping Areas and Attic Joists:** *Delete Section.*

**Table R-503.2.1.1(1) Allowable Spans and Loads for Wood Structural Panels for Roofs, Sub-floors, and Combination Sub-floor Underlayment:** *Delete minimum nominal panel thickness 3/8- inch for sheathing, roof and sub-floors.*

**Table R-503.2.1.1(1) Allowable Spans and Loads for Wood Structural Panels for Roofs, Sub-floors, and Combination Sub-floor Underlayment:** *Delete minimum nominal panel thickness 19/32- inch and 5/8 - inch for underlayment, C-C plugged, Single Floor, Roof, and Combination Sub-floor underlayment.*

**R-504.0 Pressure Preservatively Treated - Wood Floors (On-Ground):** *Delete Section.*

**R-506.2.3 Concrete Floors (on Ground) - Vapor Retarder:** *Delete the following exception:*

2. ~~For unheated storage rooms having an area of less than 70 square feet (6.5m<sup>2</sup>) and carports.~~

**CHAPTER 6  
WALL CONSTRUCTION**

**CHAPTER 7  
WALL COVERING**

**R-702.3.8 Water Resistant Gypsum Backing Board:** Gypsum board used as the base or backer for adhesive application of ceramic tile or other required nonabsorbent finish material shall conform to ASTM C 1396, C 1178 or C1278. Use of water resistant gypsum backing board shall be permitted on ceilings where framing spacing does not exceed 12 inches (305 mm) on center for ½ - inch thick (12.7 mm) or 16 inches (406 mm) for 5/8 - inch thick (16 mm) gypsum board. Water resistant gypsum board shall not be installed over a class I or II vapor retarder in a shower or tub compartment. Cut or exposed edges, including those at wall intersections, shall be sealed as recommended by the manufacturer. *Water resistant gypsum board shall be extended at least twenty-four inches past any tub or shower enclosure area.*

**CHAPTER 8  
ROOF - CEILING CONSTRUCTION**

**CHAPTER 9  
ROOF ASSEMBLIES**

**R-907.1.1 Permit not Required for One - and Two - Family Residential Units:** *A permit shall not be required for re-covering or replacing an existing roof covering on one and two family residential units.*

**CHAPTER 10  
CHIMNEYS AND FIREPLACES**

**CHAPTER 11  
ENERGY EFFICIENCY**

**CHAPTER 12  
MECHANICAL ADMINISTRATION**

**CHAPTER 13  
GENERAL MECHANICAL SYSTEM REQUIREMENTS**

**CHAPTER 14  
HEATING AND COOLING EQUIPMENT**

**CHAPTER 15  
EXHAUST SYSTEMS**

*M-1507.4 Duct Material: All single wall ventilation ducts serving toilet rooms and bathrooms shall be constructed of an approved rigid or flexible metal material. Vinyl duct is not allowed.*

**CHAPTER 16  
DUCT SYSTEMS**

**CHAPTER 17  
COMBUSTION AIR**

**CHAPTER 18  
CHIMNEYS AND VENTS**

**CHAPTER 19  
SPECIAL FUEL BURNING EQUIPMENT**

**CHAPTER 20  
BOILERS AND WATER HEATERS**

**CHAPTER 21  
HYDRONIC PIPING**

**M-2101.10 Test:** Hydronic piping shall be tested hydrostatically at a pressure not less than 100 pounds per square inch (psi) for a duration of not less than ~~15~~ 20 minutes.

**CHAPTER 22  
SPECIAL PIPING AND STORAGE SYSTEMS**

**CHAPTER 23  
SOLAR SYSTEMS**

**CHAPTER 24  
FUEL GAS**

**G-2412.5 identification:** For other than steel pipe, exposed piping shall be identified by a yellow label marked "Gas" in black letters. The marking shall be spaced at intervals not exceeding 5 feet (1524 mm). ~~The marking shall not be required on pipe located in the same room as the appliance served.~~

*G-2420.5.1.1 Gas Fireplace Service Valve: Each gas fireplace shall be provided with a shutoff valve separate from the appliance, and shall be placed in a location protected from being damaged and accessible for operation of the valve.*

**G-2420.5.3 Located at Manifold:** *Delete Section.*

**G-2427.10.2.2 Vent Connectors Located in Unconditioned Areas:** *Delete the exception.*

**G-2433.0 Log Lighters:** *Log lighters are not permitted.*

**CHAPTER 25  
PLUMBING ADMINISTRATION**

**CHAPTER 26  
GENERAL PLUMBING REQUIREMENTS**

**CHAPTER 27  
PLUMBING FIXTURES**

**CHAPTER 28  
WATER HEATERS**

*P2801.1.1 Minimum Water Heater Size: Storage type heaters serving individual dwelling units shall be sized in accordance with Table P2804.1.*

**TABLE P2801.1  
MINIMUM WATER HEATER CAPACITIES**

FUEL		GAS	ELEC	OIL									
Number of Bedrooms		1			2			3					
1 to 1 1/2 Baths	Storage (gal)	20	20	30	30	30	30	30	40	30			
	Input (Btu/h or kw)	27K	2.5	70K	36K	3.5	70K	36K	4.5	70K			
	Draw (gph)	43	30	89	60	44	89	60	68	89			
	Recovery (gph)	23	10	59	30	14	59	30	16	59			
Number of Bedrooms		2			3			4			5		
2 to 2 1/2 Baths	Storage (gal)	30	40	30	40	50	30	40	50	30	50	66	30
	Input (Btu/h or kw)	36K	4.5	70K	36K	5.5	70K	38K	5.5	70K	47K	5.5	70K
	Draw (gph)	60	58	89	70	72	89	72	72	89	90	88	89
	Recovery (gph)	30	18	59	30	22	59	32	22	59	40	22	59
Number of Bedrooms		3			4			5			6		
3 to 3 1/2 Baths	Storage (gal)	40	50	30	50	66	30	50	66	30	50	80	40
	Input (Btu/h or kw)	38K	5.5	70K	38K	5.5	70K	47K	5.5	70K	50K	5.5	70K
	Draw (gph)	72	72	89	82	88	89	90	88	89	92	102	99
	Recovery (gph)	32	22	59	32	22	59	40	22	59	42	22	59
For SI: 1 gallon=3.785 L. 1 gallon per hour - 1.05 mL/s. 1 Btu/h = 0.2931 W. F - 1.8 C - 32													
NOTE: Storage capacity, input and the recovery requirements indicated in the table are typical and may vary with each individual manufacturer. Any combinations of these requirements to produce the 1-hour draw stated will be satisfactory. Recovery is based on 100 F Water temperature rise.													

**CHAPTER 29  
WATER SUPPLY AND DISTRIBUTION**

**P-2902.5.3 Lawn Irrigation Systems:** The potable water supply to lawn irrigation systems shall be separated from the potable water by an atmospheric-type vacuum breaker, a pressure-type vacuum breaker or protected against backflow by a reduced pressure principle backflow preventer. A valve shall not be installed downstream from an atmospheric vacuum breaker. Where chemicals are introduced into the system, the potable water supply shall be protected against backflow by a reduced pressure principle backflow preventer.

**P-2905.4.2 Water Service Installation:** Delete section and replace with the following; *Installation of water service pipe shall be in accordance with Section 700.020 of the City of Washington Municipal Code.*

**Table 2905.4 Water Service Piping:** *Delete Table and replace with the following:*

**TABLE 2905.4  
WATER SERVICE PIPE**

Material	Standard
Copper or Copper alloy pipe	ASTM B42, ASTM B302
Copper or Copper Alloy Tubing (Type K, WK, L, WL, M, OR WM)	ASTM B 75, BASTM B88, ASTM B251, ASTM B447
Ductile Iron Water Pipe	AWWA C151, AWWA C115

**Table 2905.5 Water Distribution Pipe:** *Delete Table and replace with the following:*

**TABLE 2905.5  
WATER DISTRIBUTION PIPE**

Material	Standard
Copper or Copper alloy pipe	ASTM B42, ASTM B302
Copper or Copper Alloy Tubing (Type K, WK, L, WL, M, OR WM)	ASTM B75, BASTM B88 ASTM B251, ASTM B447
Ductile Iron Water Pipe	AWWA C151, AWWA C115

**P-2905.5.1 Under Concrete Slabs:** *Inaccessible water distribution piping under slabs shall be copper water tube minimum Type K, brass, ductile iron pressure pipe, all to be installed with approved fittings or bends. The minimum pressure rating for tubing installed under slabs shall be 100 PSI at 180 degrees Fahrenheit (180F).*

**Table 2905.6 Pipe Fittings:** *Delete the following materials from the table:*

ABS, CPVC, PEX-AL-PEX, PE-AL-HDPE, PEX-AL-HDPE, PE-AL-PE, PE, PP, PVC, and steel.

### CHAPTER 30 SANITARY DRAINAGE

**Table 3002.1(1) Above Ground Drainage and Vent Piping:** *Delete the following materials from the table:*

ABS pipe Schedule 40, solid, or cellular core, or composite wall, Polyolefin pipe, PVC Schedule 40, DR 22 (PS 200) and DR 24 (PS 140) cellular core or composite wall.

**Table 3002.1(2) Underground Building Drainable and Vent Pipe:** *Delete the following materials from the Table:*

ABS pipe schedule 40, DR 22 (PS 200) and DR 24 (PS 140) with a solid, or cellular core, or composite wall, Polyolefin pipe, Asbestos cement pipe, PVC Schedule 40, DR 22 (PS 200) and DR 24 (PS 140) cellular core or composite wall.

**Table 3002.2 Building Sewer Pipe:** *Delete the following materials from the table:*

ABS pipe Schedule 40, DR 22 (PS 200) and DR 24 (PS 140) with a solid, or cellular core, or composite wall, PE plastic pipe, SDR-PR, Polyolefin pipe, PVC 3.25 O.D. cellular core or composite wall, vitrified clay pipe.

**Table 3002.3 Pipe Fittings:** *Delete the following materials from the table:*

ABS plastic pipe, Asbestos Cement, Polyolefin, Vitrified Clay.

**P-3005.4.1 Branch and Stack Sizing:** Branches and stacks shall be sized in accordance with Table P3005.4.1. Below grade drain pipe shall not be less than ~~1½ inches~~ two (2) inch diameter. Drain stacks shall not be smaller than the largest horizontal branch drained.

## CHAPTER 31 VENTS

**P-3102.1 Stack Vent Required:** ~~The vent system serving each building drain shall have at least one vent pipe that extends to the outdoors.~~ Every building shall have a stack vent, a minimum of 3" in diameter. Such vent shall run undiminished in size and as directly as possible from the building drain through to the open air above the roof. All other vent extensions to the outside shall not be less than 2" in diameter.

**P-3103.1 Roof Extension:** Open vent pipes that extend through a roof shall be terminated at least ~~6 inches~~ 12 inches above the roof or ~~6 inches~~ 12 inches above the anticipated snow accumulation, whichever is greater, except that where the roof is to be used for any purpose other than weather protection, the vent extension shall be run at least 7 feet above the roof.

**P-3114.1.1 Air Admittance Valves.** Air admittance valves may not be used in new construction, in rehab, or remodeling except when vent termination to the exterior is not possible, and when the use of the valve is approved by the Building Official.

## CHAPTER 32 TRAPS

## CHAPTER 33 STORM DRAINAGE

**P-3303.1.5 Discharge Piping Location:** All sump pump piping shall be discharged to the outside and diverted to a storm sewer conveyance or other approved collection point acceptable to the code official. Discharge into the sanitary sewer is prohibited.

## CHAPTER 34 GENERAL REQUIREMENTS

**E-3406.2 Conductor Material:** Conductors used to conduct current shall be of copper ~~except as otherwise provided in Chapters 34 through 43.~~ Where the conductor material is not specified, the material and sizes given in the chapters shall apply to copper conductors. ~~Where other materials are used, the conductor sizes shall be changed accordingly.~~

**E-3406.3 Minimum Size of Conductors:** The minimum size of conductors for feeders and branch circuits shall be 14 AWG copper and 12 AWG aluminum. The minimum size of service conductors shall be as specified in Chapter 36. The minimum size of Class 2 remote control, signaling and power - limited circuits conductors shall be as specified in Chapter 43.

## CHAPTER 35 ELECTRICAL DEFINITIONS

## CHAPTER 36 SERVICES

**E-3601.6.2 Service disconnect location:** Delete all text and replace with the following:

*The service disconnect means for services of 400 Amps or less shall be installed at a readily accessible location outside the building, within 10 feet of the nearest point of service entrance conductors. Services over 400 Amps can be located inside the structure no more than 10 feet from the point of service entrance, or as approved by*

*the Code Official. The service disconnect shall be protected against overcurrent by an overcurrent device installed at the point where the conductors receive their supply. Each occupant shall have access to the disconnect serving the dwelling unit in which they reside.*

**Table 3603.1 Service Conductor and Grounding Electrode Conductor Sizing:** Change Table as follows:

1. *Delete 250, 300 and 350 service or feeder rating (Amperes).*
2. *Change the conductor types and sizes for the 400 amp service rating to the following:*
  - a. *Copper (AWG): 400 copper kcmil or two sets of 2/0*
  - b. *Aluminum and copper-clad aluminum (AWG): Aluminum and copper clad aluminum 500 kcmil, or two sets of 4/0.*

**E-3605.5 Protection of Service Cables Against Damage:** 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, Schedule 80 PVC conduit, electrical metallic tubing, or other approved means.

## CHAPTER 37 BRANCH CIRCUITS AND FEEDER REQUIREMENTS

**E-3703.2.1 Kitchen and Dining Area Receptacles:** A minimum of two 20 ampere rated branch circuits shall be provided to serve all wall and floor receptacles outlets located in the kitchen, pantry, breakfast area, dining area, or similar area of a dwelling. The kitchen countertop receptacles shall be served by a minimum of two 20 ampere rated branch circuits, either or both of which shall also be permitted to supply other receptacle outlets in the same kitchen, pantry, breakfast, and dining area ~~including outlets for refrigeration appliances~~

**E-3703.2.1 Kitchen and Dining Area Receptacles:** *Delete the exception.*

**E-3703.2.1 Microwave and Refrigeration appliance circuit:** *A receptacle outlet for a built-in microwave or refrigeration appliance shall be required to be supplied from an individual branch circuit that rates 15 amperes or greater.*

**E-3705.4.4 Conductors of NM Cable:** *Delete text and replace with the following:*

*Conductors of NM Cable shall be rated at 90 C. Type NM Cable identified by the marking NM-B, MNC-B, NMS-B, meet this requirement. All NM cables ran through a wood framing member shall have only one cable per hole or opening and that hole or opening shall be fire or draft stopped using thermal insulation or fire caulk.*

## CHAPTER 38 WIRING METHODS

**E-3802.2.3 Bored Holes:** *Bored holes in framing members may contain a maximum of one cable per hole.*

**E-3802.4 In Unfinished Basements & Crawl Spaces:** Where type SE or NM cables are run at angles with joist 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 the joist, ~~or on running boards,~~ NM 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 NM or SE cable sheath shall extend through the conduit or tubing and into the outlet or device box not less than 1/4". The cable shall be secured within 12 inches 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.

## CHAPTER 39

## POWER AND LIGHTING DISTRIBUTION

**E-3901.3 Small Appliance receptacles:** *Delete exception 2.*

**E-3901.3.2 Limitations:** *Delete Section.*

**E-3902.2 Garage and Accessory Building Receptacles:** *Add the following exception:*

*Exception 1. Dedicated single receptacle*

**E-3902.5 Unfinished Basement Receptacle:** *Add the following exception:*

*Exception 2. Dedicated single receptacle*

**E-3902.11 Arc-Fault Circuit Interrupter Protection:** *Delete this section and replace with the following: All branch circuits that supply 120-volt, single phase 15 and 20 amperes receptacles located in bedrooms shall be protected by a combination type arc fault circuit interrupter installed to provide protection of the branch circuit. Each bedroom shall be individually circuited and protected. Lights and smoke detectors shall not be included on the arc-fault circuit.*

**E-3908.15 Metal Boxes:** *Add the following:*

*#4. Approved grounding clips.*

## CHAPTER 40

### DEVICES AND LUMINARIES

**E-4002.9 Fifteen and Twenty Amperes Receptacles in Wet Locations:** *Where installed in a wet location, 15 - 20 - ampere, 125 and 250 volt receptacles shall have an enclosure that is waterproof whether or not the attachment plug cap is inserted. Fifteen and Twenty ampere, 125 and 250 volt non-locking receptacles installed in wet locations shall be listed weather resistant type. Other approved metal weatherproof covers shall be excepted as approved by the Building Official.*

**E-4002.14 Tamper resistant Receptacles:** *Delete Section.*

**E4003.11 Bathtub & Shower Areas:** *Cord connected luminaries, chain, cable, or chord suspended luminaries, lighting track, pendants, and ceiling suspended (paddle) fans shall not have any parts located within a zone measured 3 feet horizontally and 8 feet vertically from the top of a bathtub rim or a shower stall threshold. This zone is all encompassing and includes the space directly over the tub or shower. Luminaries within the actual outside dimension of the bathtub or shower to a height of 8 feet vertically from the top of the bathtub rim or shower threshold shall be marked for damp locations and where subject to shower spray, shall be marked for wet locations, and shall be ground fault interrupter protected.*

## CHAPTER 41

### APPLIANCE INSTALLATION

## CHAPTER 42

### SWIMMING POOLS

## CHAPTER 43

### CLASS 2 REMOTE - CONTROL, SIGNAL AND POWER - LIMITED CIRCUITS



**CITY OF WASHINGTON, MO**

**AMMENDMENTS TO THE**

**INTERNATIONAL BUILDING CODE, 2009 EDITION**

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Amendments to the International Building Code, 2009 edition, are given in the following text. Each code section that corresponds to one of the following provisions is hereby deleted where so noted or amended to read as set forth below. Each provision set out below without a corresponding section, sub-section or clause number in the code is hereby enacted and added thereto. Wording that is struck-through is to be deleted from the code. Wording in italics is to be inserted into code.

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**CHAPTER 1**  
**SCOPE AND ADMINISTRATON**

**SECTION 101**  
**GENERAL**

**101.1 Title:** These regulations shall be known as the Building Code of the *City of Washington, County of Franklin, State of Missouri*, herein referred to as "this code".

**101.4.4 Property Maintenance.** *Delete.*

**101.4.6 Energy.** *Delete.*

**SECTION 104**  
**DUTIES AND POWERS OF BUILDING OFFICIAL**

**104.6.1 Disasters.** *In the event of a disaster such as a windstorm, tornado, flood, fire, earthquake, bomb blast or explosion, the building official is hereby authorized to enter and inspect structures within the affected areas, subject to constitutional restrictions on unreasonable searches and seizures. When, in the opinion of the building official, there is imminent danger due to an unsafe condition, the building official shall take emergency measures in accordance with this code. If the building official determines, after inspection, that a structure is unfit, the building official shall declare it a public nuisance, cause a report to be prepared and notify the affected parties in accordance with this code.*

**104.6.1.1 Post-disaster inspections.** *The building official is authorized to deputize Missouri Structural Assessment and Visual Evaluation (SAVE) Volunteer Inspectors certified by the Missouri State Emergency Management Agency (SEMA) to conduct emergency Post-Disaster Safety Evaluations of Buildings.*

**SECTION 105**  
**PERMITS**

**105.2 Work Exempt from permit:** *Delete Building Item No. 2.*

**Building:**

~~2.—Fences not over 6 (1829 mm) feet high.~~

**SECTION 107**  
**SUBMITTAL DOCUMENTS**

**107.3.4.1 Pre-engineered or pre-fabricated building systems.** *The owner is required to engage and designate on the building permit application a registered design professional who shall act as the registered design professional in responsible charge of the construction project. The registered design professional shall prepare plans and specifications for the project including the building superstructure, foundation, and building systems and, shall be responsible for reviewing and coordinating submittal documents prepared by the building fabricator and others including phased and deferred submittal items, for compatibility with the design of the building.*

**107.5 Retention of construction documents.** *-One set of construction documents shall be retained by the Engineering Department for a period of not less than 180 days from the date from the date of completion of the permitted work, or as required by state or local laws. One set of approved construction documents shall be returned to the applicant, and said set shall be kept on the site of the building or work at all times during which the work authorized thereby in progress. The construction documents specific to fire protection systems shall be retained on the premises and available at all times for fire department review in accordance with Section 901.6.2. ~~One set of construction documents shall be retained by the fire code official for a period of not less than 180 days from the date of completion of the permitted work, or as required by state or local laws.~~*

## **SECTION 109**

### **FEES**

#### **109.2 Schedule of permit fees. (No change.)**

**109.2.1** *When construction has commenced and has been completed without a permit, the permit fee shall be twice the total permit fee to cover the additional inspections and the time necessary to insure compliance with the code. When construction has begun under the authorization of a permit, but the permit holder has failed to contact the Building Department for an inspection, and the construction has progressed to a point that the inspection cannot be reasonably done, then an additional 25% of the total permit fee will be assessed to cover the increased cost and time devoted beyond normal inspection, and payment received prior to conducting any further inspections.*

## **SECTION 115**

### **STOP WORK ORDER**

**115.4 Failure to comply.** Any person who shall continue any work 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 a fine of not less that **\$500** dollars or more than **\$1,000** dollars per day.

## **SECTION 117**

### **PREMISES IDENTIFICATION**

**117.1 Address identification.** *New and existing buildings shall have approved address numbers, building numbers or approved building identification placed in a position that is plainly legible and visible from the street or sides of the building with emergency responder access. These numbers shall contrast with their background. Address numbers shall be Arabic numbers or alphabetical letters. Numbers shall be Arabic numbers or alphabetical letters. Numbers shall be a minimum of 4 inches (101.6 mm) high with a minimum stroke width of 0.5 inch (12.7 mm) for residential, 6 inches (152 mm) high with a minimum stroke width of 0.75 inch (19 mm) for commercial and, 10 inches (254 mm) high with a minimum stroke of 1.00 inches (25.4 mm) for industrial. Where access is by means of a private road and the building cannot be viewed from the public way, a monument, pole or other sign or means shall be used to identify the structure.*

## **SECTION 118**

### **FIRE SAFETY SIGNAGE**

**118.1 Fire Safety Signage.** New buildings having roof or floor areas constructed with the below listed lightweight engineered wood framing materials shall have fire safety signage placed on the electric meter base.

1. Pre-fabricated wood I-joists
2. Metal-plate-connected wood trusses
3. Finger-jointed wood trusses

The signage shall be 2 1/2" wide x 4" high and have red letters on a white reflective background as specified and furnished by the City of Washington. Signage samples are given below. T indicates metal-plate-connected or finger-jointed wood roof trusses. E indicates one of the above listed lightweight engineered wood framing materials. S indicates the floor framing is protected by an automatic fire sprinkler system.



**Commentary:** Some types of lightweight engineered wood-framed construction can quickly lose strength under certain fire conditions posing a hazard to both the occupant and first responder. This hazard has been studied by recognized authorities including Underwriters Laboratory, The National Institute of Occupation Safety and Health (NIOSH) and the American Wood Council. The addition of a sticker to the electric meter alerts the occupant and first responder to a potential hazard so that appropriate precautions may be taken in the event of a fire.

### CHAPTER 3 USE AND OCCUPANCY CLASSIFICATION

#### SECTION 308 INSTITUTIONAL GROUP I

##### 308.5.1 Adult care facility. *Delete Exception.*

~~**Exception:** A facility where occupants are capable of responding to an emergency situation without physical assistance from the staff shall be classified as Group R-3.~~

### CHAPTER 4 SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY

#### SECTION 406 MOTOR-VEHICLE-RELATED OCCUPANCIES

##### 406.1.4 Separation. *Revise Item 1 as follows:*

1. The private garage shall be separated from the dwelling unit and its attic area by means of a minimum 1/2-inch (12.7 mm) 5/8-inch Type X gypsum board applied to the garage side. Garages beneath habitable rooms shall be separated from all habitable rooms above by not

less than 5/8-inch Type X gypsum board or equivalent. Door openings between the private garage and the dwelling unit shall be equipped with either solid wood doors, or solid or honeycomb core steel doors not less than 1¾-inch (34.9 mm) thick, or doors in compliance with Section 715.4.3. Openings from private garage directly into a room used for sleeping purposes shall not be permitted. Doors shall be self-closing and self-latching. *Where the separation is a floor-ceiling assembly, the structure supporting the separation shall also be protected by not less than 5/8-inch Type X gypsum board or equivalent.*

## SECTION 407 GROUP I-2

**407.7 Automatic fire detection.** *Delete Exceptions #1 and #2.*

### Exceptions:

- ~~1. Corridor smoke detection is not required where patient sleeping units are provided with smoke detectors that comply with UL 268. Such detectors shall provide a visual display on the corridor side of each patient sleeping unit and an audible and visual alarm at the nursing station attending each unit.~~
- ~~2. Corridor smoke detection is not required where patient sleeping unit doors are equipped with automatic door-closing devices with integral smoke detectors on the unit sides installed in accordance with their listing, provided that the integral detectors perform the required alerting function.~~

## CHAPTER 9 FIRE PROTECTION SYSTEMS

### SECTION 903 AUTOMATIC SPRINKLER SYSTEMS

**903.2.6 Group I.** An automatic sprinkler system shall be provided throughout buildings *including all combustible attic spaces* with a Group I fire area.

~~Exception --An automatic sprinkler system installed in accordance with Section 903.3.1.2 or 903.3.1.3 shall be allowed in Group I-1 facilities.~~

**903.2.7 Group M or Group B.** An automatic sprinkler system shall be provided throughout buildings containing a Group M or Group B occupancy where one of the following conditions exists:

1. A Group M or Group B fire area exceeds 12,000 square feet (1115 m<sup>2</sup>).
2. A Group M or Group B fire area is located more than three stories above grade plane.
3. The combined area of all Group M or Group B fire areas on all floors, including any mezzanines, exceeds 24,000 square feet (2230 m<sup>2</sup>).
4. A Group M or Group B occupancy is used for the display and sale of upholstered furniture.

**903.2.11.3 Buildings more than 55 35 feet in height.** An automatic sprinkler system shall be installed throughout buildings with a floor level ~~having an occupant load of 30 or more~~ that is located 55 35 feet or more above the lowest level of fire department vehicle access, *regardless of occupancy.*

**903.3.1.2 NFPA 13R sprinkler systems.** Automatic sprinkler systems in Group R occupancies up to and including four stories in height shall be permitted to be installed throughout *buildings including all combustible attic spaces* in accordance with NFPA 13R.

**903.3.5 Water supplies.** Water supplies for automatic sprinkler systems shall comply with this section and the standards referenced in Section 903.3.1. *A separate domestic water connection shall be made at least ten (10) feet from the fire sprinkler connection on the City main. All connections*

shall be made and approved by the Public Works Department. A private fire water main may supply the fire sprinkler system and domestic supply provided the private main is approved by the Public Works and Fire Departments. The potable water supply shall be protected against backflow in accordance with the requirements of this section and the International Plumbing Code.

**903.3.7 Fire department connections.** *The location of the fire department connections shall be approved by the building official in accordance with Section 912.2.*

**903.3.8 Test outlet.** *An inspector's test outlet, equivalent to the flow from a single sprinkler of the smallest orifice size installed in the system, shall be installed on each floor where a water flow alarm device is required in section 903.4.2*

#### **903.4 Sprinkler system supervision and alarms.**

**Exceptions:** *Delete exception 7.*

~~7. Trim valves to pressure switches in dry, preaction and deluge sprinkler systems that are sealed or locked in the open position.~~

**903.4.2 Alarms.** Approved audible *and visual* devices shall be connected to every automatic sprinkler system *and activate only with the activation of a water flow switch*. Such sprinkler water-flow alarm devices shall be activated by water flow equivalent to the flow of a single sprinkler of the smallest orifice size installed in the system. *A separate water-flow switch shall be located at the point of connection to the riser on each floor of all multi-floored buildings.* Alarm devices shall be provided on the exterior of the building in an approved location *above grade at a level high enough to prevent tampering*. Where a fire alarm system is installed, actuation of the automatic sprinkler system shall actuate the building fire alarm system.

**903.4.3 Floor control valves.** Approved supervised indicating control valves shall be provided at the point of connection to the riser on each floor in ~~high-rise~~ *multi-floor* buildings.

### **SECTION 907 FIRE ALARM AND DETECTION SYSTEMS**

#### **907.2.3 Group E.**

**Exceptions:** *Delete exception 1.*

~~2. A manual fire alarm system is not required in Group E occupancies with an occupant load of less than 50.~~

##### **907.2.11.1 Group R-1. (Modify as follows.)**

3. In each story within guestroom or suite, including basements. In each story within the sleeping unit, including basements. ~~For sleeping units with split levels and without an intervening door between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than one full story below the upper level.~~

##### **907.2.11.2 Groups R-2, R-3, R-4 and I-1. (Modify as follows.)**

3. In each story within a dwelling unit, including basements and cellars but not including crawl spaces and uninhabitable attics. ~~In dwellings or dwelling units with split levels and without an intervening door between the adjacent levels, a smoke alarm install on the upper level shall suffice for the adjacent lower level provided that the lower level is less than one full story below the upper level.~~

##### **907.4.1 Protection of fire alarm control unit.**

**Exceptions:** *Delete exception 2.*

- ~~2.—The smoke detector shall not be required where the building is equipped through with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2.~~

## **SECTION 912 FIRE DEPARTMENT CONNECTIONS**

**912.2 Location.** ~~With respect to hydrants, driveways, buildings and landscaping, fire department connections shall be so located that fire apparatus and hose connected to supply the system will not obstruct access to the buildings for other fire apparatus. The location of fire department connections shall be approved by the fire chief.~~

*The location of fire department connections shall be located as follows:*

1. *Fire department Siamese connections shall be on the address side of the building or unless otherwise approved by the fire code official.*
2. *Fire department Siamese connections shall be located not more than seventy-five (75) feet from a fire hydrant.*
3. *When fire department Siamese connections are located in an area where vehicles may be parked or standing, said parking or standing shall be restricted for fifteen (15) feet in each direction from the Siamese fire connection.*

**912.2.1 Visible location.** Fire department connections shall be located on the street side of buildings, fully visible and recognizable from the street or nearest point of fire department vehicle access or as otherwise approved by the fire chief. *Where the building is more than two stories or twenty (20) feet in height, a sign with a red background with white 10" letters "FDC" shall be provided.*

## **SECTION 913 FIRE PUMPS**

**913.4 Valve supervision.** Where provided, the fire pump suction, discharge and bypass valves and the isolation valves on the backflow prevention device or assembly shall be supervised open by one of the following methods.

1. Central Station, proprietary or remote station signaling service.
- ~~2.—Local signaling service that will cause the sounding of and audible signal at a constantly attendee location.~~
- ~~3.—Locking valves open~~
- ~~4.—Sealing of valves and approved weekly recorded inspection where valves are located within fenced enclosures under the control of the owner.~~

## **CHAPTER 10 MEANS OF EGRESS**

### **Section 104 OCCUPANT LOAD**

#### **1004.8 Outdoor areas.**

**Exceptions:** *Delete exception 1.*

- ~~1.—Outdoor areas used exclusively for service of the building need only have one means of egress.~~

**1004.8.1 Outdoor Area Occupant Load.** *Outdoor areas with an occupant load greater than 50 or a Group A occupancy with a yard, patio, or similar outdoor area shall have at least one direct means to the public way.*

**SECTION 1006  
MEANS OF EGRESS ILLUMINATION**

**1006.3.1 Power Supply Testing.** *When means of egress illumination consist of recessed lighting fixtures, or fixtures more than eight (8) feet above the finished floor line, the egress lighting shall be on a labeled dedicated electrical circuit so that when the egress lighting circuit is turned off the emergency power supply activates. Any means of egress illumination that does not have an external readily visible test button, shall have a red dot permanently affixed to the fixture in visible location as approved by the fire code official.*

**CHAPTER 16  
STRUCTURAL DESIGN**

**Section 1602  
DEFINITIONS AND NOTATIONS**

**SPECIALTY ENGINEER.** *A professional engineer who provides services for specific portions of the project within a particular discipline, but does not have a direct organizational contractual relationship with the corresponding engineer of record, shall be designated the specialty engineer.*

**Section 1603.2 Delegated Engineered Systems.** *The engineer of record for a structure may delegate responsibility for the design of systems or component parts of the structure to a specialty engineer. The engineer of record shall review the drawings, specifications, reports, or other documents submitted by the specialty engineer and confirm in writing that they conform to his/her written requirements and are consistent with the intent of his/her drawings, specifications, reports, or other documents prepared for the project. The following are some examples of delegated systems.*

1. *Prefabricated wood trusses and components*
2. *Pre-engineered metal or wood buildings*
3. *Structural steel connections*
4. *Open web steel joists and joist girders*
5. *Precast, prestressed concrete components*
6. *Cold-formed steel joist/stud/truss framing and pre-fabricated components*
7. *Cast-in-place post-tensioned concrete structural systems*
8. *Tilt-up concrete wall systems*
9. *Foundations systems*
10. *Seismic anchorage of equipment*
11. *Proprietary track for under-hung cranes and monorails*

**CHAPTER 18  
SOILS AND FOUNDATIONS**

**SECTION 1801  
GENERAL**

**1801.3 Prohibited foundations and footing systems.** *The below listed foundation and/or footing systems are prohibited:*

1. *Permanent wood foundation systems as described in Section 1807.1.4.*
2. *Timber footings as described in Section 1809.12.*
3. *Wood pole foundations.*

**1801.4 Pole type structures.** Pole type structures shall have a concrete foundation. The exterior perimeter foundation shall be continuous and extend below frost line.

## CHAPTER 29 PLUMBING SYSTEMS

### SECTION 2901 GENERAL

**2901.1 Scope.** (~~Delete last sentence that reads as follows: "Private sewage disposal systems shall conform to the International Private Sewage Disposal Code."~~)

### Section 2902 MINIMUM PLUMBING FACILITIES

**2902.2.1 Family or assisted-use toilet facilities serving as separate facilities.** Where a building or tenant space requires a separate toilet facility for each sex and each toilet facility is required to have only one water closet, two family/assisted-use toilet facilities shall be permitted to serve as the required separate facilities. Family or assisted-use toilet facilities shall not be required to be identified for exclusive use by either sex as required by Section 2902.4

**2902.3 Required public toilet facilities.** (Modify by adding the following Exception)

*Exception: Public toilet facilities shall not be required in open or enclosed parking garages. Toilet facilities shall not be required in parking garages where there are no parking attendants.*

**2902.5 Drinking fountain location.** Drinking fountains shall not be required to be located in individual tenant spaces provided that public drinking fountains are located within a travel distance of 500 feet of the most remote location in the tenant space and not more than one story above or below the tenant space. Where the tenant space is in a covered or open mall, such distance shall not exceed 300 feet. Drinking fountains shall be located on an accessible route.

## CHAPTER 34 EXISTING BUILDINGS AND STRUCTURES

### SECTION 3401 GENERAL

**3401.3 Compliance with other codes.** Alterations, repairs, additions, and changes of occupancy to existing structures shall comply with the provisions for alterations, repairs, additions, and changes of occupancy in the International Fire Code, International Fuel Gas Code, International Plumbing Code, ~~International Property Maintenance Code, International Private Sewage Disposal Code, International Mechanical Code, International Residential Code, and ICC Electrical Code.~~

### Section 3409 HISTORIC BUILDINGS

**3409.1 Historic Buildings.** ~~The construction, alteration, repair, enlargement, restoration, relocation or movement of existing buildings or structures that are designated as historic buildings shall be in accordance with the provisions of this code. The provisions of this code relating to the construction, repair, alteration, addition, restoration and movement of structures, and change of occupancy shall not be mandatory for historic buildings where such buildings are judged by the building official to not constitute a distinct life safety hazard.~~

### SECTION 3412 COMPLIANCE ALTERNATIVES

**3412.2 Applicability.** Structures existing prior to *the date of adoption of this code*, in which there is work involving additions, alterations or changes of occupancy shall be made to comply with the requirements of this section or the provisions of Section 3403 through 3409. The provisions in Section 3412.2.1 through 3412.2.5 shall apply to existing occupancies that will continue to be, or are proposed to be, in Groups A, B, E, F, M, R, S and U. These provisions shall not apply to buildings with occupancies in Group H or I.

**END OF AMENDMENTS**

# AMMENDMENTS TO THE INTERNATIONAL FIRE CODE, 2009 EDITION

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 Amendments to the International Fire Code, 2009 edition, are given in the following text. Each code section that corresponds to one of the following provisions is hereby deleted where so noted or amended to read as set forth below. Each provision set out below without a corresponding section, sub-section or clause number in the code is hereby enacted and added thereto. Wording that is struck-through is to be deleted from the code. Wording in italics is to be inserted into code.  
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## CHAPTER 1 SCOPE AND ADMINISTRATION

### SECTION 101 SCOPE AND GENERAL REQUIREMENTS

**101.1 Title.** These regulations shall be known as the Fire Code of *the City of Washington, County of Franklin, State of Missouri*, hereinafter referred to as "this code".

### SECTION 102

**102.6 Historic Buildings.** *The construction, alteration, repair, enlargement, restoration, relocation or movement of existing buildings or structures that are designated as historic buildings shall be in accordance with the provisions of this code as adopted.* ~~The provisions of this code relating to the construction, alteration, repair, enlargement, restoration, relocation or moving of buildings or structures shall not be mandatory for existing buildings or structures identified and classified by the state or local jurisdiction as historic buildings when such buildings or structures do not constitute a distinct hazard to life or property. Fire protection in designated historic buildings and structures shall be provided in accordance with an approved fire protection plan.~~

### SECTION 103

**103.2 Appointment.** *The fire code official shall be the Fire Chief.* ~~The fire code official shall be appointed by the chief appointing authority of the jurisdiction; and the fire code official shall not be removed from office except for cause and after full opportunity to be heard on specific and relevant charges by and before the appointing authority.~~

### SECTION 105 PERMITS

**105.4.6 Retention of construction documents.** *-One set of construction documents shall be retained by the Engineering Department for a period of not less than 180 days from the date from the date of completion of the permitted work, or as required by state or local laws. One set of approved construction documents shall be returned to the applicant, and said set shall be kept on the site of the building or work at all times during which the work authorized thereby in progress. The construction documents specific to fire protection systems shall be retained on the premises and available at all times for fire department review in accordance with Section 901.6.2.* ~~One set of construction documents shall be retained by the fire code official for a period of not less than 180 days from the date of completion of the permitted work, or as required by state or local laws. One set of approved construction documents shall be returned to the applicant, and said set shall be kept on the site of the building or work at all times during which the work authorized thereby in progress.~~

**105.6.15 Fire hydrants and valves.** *Refer to City Ordinance 490.036 for fire hydrant, placement, spacing, installation, color-coding and flows.* ~~An operational permit is required to use or operate fire~~

~~hydrants or valves intended for fire suppression purposes which are installed on water systems and accessible to a fire apparatus access road that is open to or generally used by the public.~~

~~Exception: A permit is not required for authorized employees of the water company that supplies the system or the fire department to use or operate fire hydrants or valves.~~

**105.6.28 Magnesium *Flammable Solid*.** An operational permit is required to melt, cast, heat treat or grind more than 10 pounds (4.54 kg) of magnesium *a flammable solid as defined in Chapter 3600*.

**105.6.30 Open burning.** *No open burning shall be allowed within the City Limits of Washington, unless for land clearing operations.* An operational permit is required for the kindling or maintaining of an open fire or a fire on any public street, alley, road, or other public or private ground. Instructions and stipulations of the permit shall follow Missouri Department of Natural Resources open burning guidelines ~~be adhered to.~~

**105.6.35 Private fire hydrants.** *Refer to City Ordinance 490.036 for fire hydrant, placement, spacing, installation, color-coding and flows.* ~~An operational permit is required for the removal from service, use or operation of private fire hydrants.~~

~~**Exception:** A permit is not required for private industry with trained maintenance personnel, private fire brigade or fire departments to maintain, test and use private hydrants.~~

## SECTION 107 MAINTENANCE

**107.2.2 Reinspection 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 fire code official for inspection and testing. *If a second re-inspection is required to gain compliance, a re-inspection fee of \$50.00 shall be paid at the time the second re-inspection is scheduled.*

## SECTION 109 VIOLATIONS

**109.3 Violation penalties.** *Persons who shall violate a provision of this code or shall fail to comply with any of the requirements thereof 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 a certificate used under provisions of this code, shall be guilty of an (offense), punishable by a fine not more than (dollar amount) dollars or by imprisonment not exceeding (number of days), or both such fine and imprisonment. Each day that violation continues after due notices has been served shall be deemed a separate offense.*

## SECTION 111 STOP WORK ORDER

**111.4 Failure to comply.** Any person who shall continue any work 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 a fine of not less that \$500 dollars or more than \$5,000 dollars per occurrence.

## SECTION 114 FIRE SAFETY SIGNAGE

**114.1 Fire Safety Signage.** *New buildings having roof or floor areas constructed with the below listed lightweight engineered wood framing materials shall have fire safety signage placed on the electric meter base.*

1. Pre-fabricated wood I-joists
2. Metal-plate-connected wood trusses
3. Finger-jointed wood trusses

The signage shall be 2 1/2" wide x 4" high and have red letters on a white reflective background as specified and furnished by the City of Washington. Signage samples are given below. T indicates metal-plate-connected or finger-jointed wood roof trusses. E indicates one of the above listed lightweight engineered wood framing materials. S indicates the floor framing is protected by an automatic fire sprinkler system.



**Commentary:** Some types of lightweight engineered wood-framed construction can quickly lose strength under certain fire conditions posing a hazard to both the occupant and first responder. This hazard has been studied by recognized authorities including Underwriters Laboratory, The National Institute of Occupation Safety and Health (NIOSH) and the American Wood Council. The addition of a sticker to the electric meter alerts the occupant and first responder to a potential hazard so that appropriate precautions may be taken in the event of a fire.

### Chapter 3 GENERAL REQUIREMENTS

#### SECTION 307 OPEN BURNING, RECREATIONAL FIRES AND PORTABLE OUTDOOR FIREPLACES

**307.1.2 Violation of open burning.** Any person, business or organization willfully open burning trade waste, debris, trash, etc. and causes a fire department response shall be fined \$150 per hour per unit responding. In addition, a \$150 per hour per every fire unit committed shall be assessed including responses to any exposure fires caused.

#### 307.6 Burning of Landscape or Land Clearance Waste

**307.6.1 Burn permit required.** Open burning of landscape or land clearance waste disposal shall be allowed after obtaining a burn permit and proper authorization from the fire code official and Missouri Department of Natural Resources (DNR). Such burn permit shall be valid for 30 days and shall only apply to the original burn pit. Any relocation of the burn pit will require an additional burn permit.

**3076.6.1.1 Materials Permitted.** Materials permitted to be burned shall be limited to natural vegetation including trees, limbs, shrubs, bushes and the like.

**307.6.1.2 Prohibited materials.** *The burning of processed or milled wood, construction material or waste, garbage, rubbish of any kind, rubber, plastic or any synthetic material, flammable or combustible liquids shall be prohibited.*

**Exception:** *Combustible liquids only used as fuel to ignite the fire.*

**307.6.1.3 Weather conditions.** *The fire code official shall have the authority to prohibit burning at any time due to adverse weather or climatic conditions.*

**307.6.2 Application.** *An application for a burn permit shall be submitted at least 10 days before burning is planned to begin, and shall be in such form and contain such information as required by the fire code official. The application shall be accompanied by MO DNR approval for burning, a locator map or site plan showing the general location of the burn pit, and a deposit as required by Section 307.6.2.1*

**307.6.2.1 Deposit.** *In addition to the burn permit fee as required in Section 105.6.30 of this ordinance, a **\$500.00** cashier's check shall be submitted with the burn permit application. This money will be held for duration of the permit, and returned if no violations occur.*

**307.6.3 Violation.** *The first violation of Section 307.6 causing a fire department response shall cost the offender or property owner **\$150.00** per hour per unit responding. This amount will be deducted for the original deposit.*

*A second violation shall cost the offender or property owner the forfeiture of the deposit moneys and shall void the burn permit.*

*For this section, violations shall include, but are not limited to: burning without a permit, burning outside of the time restrictions, relocation and use of a pit without a separate burn permit, failure to notify dispatch agency, failure to attend the fire, failure to properly extinguish fire, excessive smoke, off-site embers or ashes, and the burning of prohibited materials.*

**307.6.4 Hours of operation.** *Burning shall be conducted during the hours stipulated in the MO DNR requirements. Each day, the permittee shall notify the Washington Communication Center by telephone prior to starting the burn and again contact at the conclusion of the burning.*

**307.6.6 Inspection prior to burning.** *Prior to the issuance of the burn permit, the fire code official shall inspect the burning site to ensure compliance with provisions of this ordinance.*

**307.6.7 Attendance.** *The permittee shall designate a responsible person in charge to conduct and attend the burning. The responsible person in charge shall be required to have the necessary equipment, material and personnel to extinguish the fire at any time, and shall have a means of communication to call the fire department to respond to an emergency. The responsible person in charge shall attend the burning until it is completely extinguished each day.*

**307.6.8 Final Inspection.** *The permittee shall request, in writing, a final inspection of the burn pit and the return of deposit. The fire code official shall inspect the burn site to ensure the pit has been properly filled in with dirt. Upon approval of the final inspection by the fire code official the deposit money minus any deductions authorized in Section 307.6.3 shall be returned to the permittee.*

**SECTION 316  
HAZARDS TO FIRE FIGHTERS FIRST RESPONDERS**

**316.3 Pitfalls.** The intentional design or alteration of buildings to disable, injure, maim or kill intruders is prohibited. No person shall install and use firearms, sharp or pointed objects, razor wire, explosives, flammable or combustible liquid containers or dispensers containing highly toxic, toxic, irritant or other hazardous materials in a manner which may passively or actively disable, injure, maim or kill a fire fighter *first responder* who forcibly enters a building for the purpose of controlling or extinguishing a fire, rescuing trapped occupants or rendering other emergency assistance.

## CHAPTER 5 FIRE SERVICE FEATURES

### SECTION 503 FIRE APPARATUS ACCESS ROADS

**503.2 Specifications.** Fire apparatus access roads shall be installed and arranged in accordance with Sections 503.2.1 through 503.2.8 and Appendix D.

**503.2.1 Dimensions.** Fire apparatus access roads shall have an unobstructed width of not less than 20 26 feet exclusive of shoulders, except for approved security gates in accordance with Section 503.6, and an unobstructed vertical clearance of not less than 13 feet 6 inches.

**503.2.4 Turning radius.** The required turning radius of a fire apparatus shall be determined by the fire code official. *The minimum required turning radius shall be determined by the worst case turning radius of fire units in service in addition to an overhang clearance six(6) feet beyond the outside radius of the curvature. All measurements shall be to the inside face of the curb.*

*a. The minimum turning radii shall be 30 feet inside and 50 feet outside measured from the inside face of curb.*

**503.4 Obstruction of fire apparatus access roads.** *Fire apparatus access roads shall not be obstructed in any manner, including the parking of vehicles. Any person or persons shall not erect, construct, place, or maintain any bumps, fences, chains, bars, pipes, wood or metal horses, or any other type of obstructions in or on any fire apparatus access roads within the boundaries of the City of Washington. The minimum widths and clearances established in Section 503.2 shall be maintained at all times. Fire apparatus access roads shall not be obstructed in any manner, including the parking of vehicles. The minimum widths and clearances established in Section 503.2.1 shall be maintained at all times.*

*Exception: Security gates meeting the requirements of Section 503.6. Fire apparatus shall not be required to pass through more than one gate to access, or pass through, any part of a subdivision, development, facility or building.*

### SECTION 505 PREMISES IDENTIFICATION

**505.1 Address identification.** New and existing buildings shall have approved address numbers, building numbers or approved building identification placed in a position that is plainly legible and visible from the street or sides of the building with emergency responder access. These numbers shall contrast with their background. Address numbers shall be Arabic numbers or alphabetical letters. Numbers shall be Arabic numbers or alphabetical letters. Numbers shall be a minimum of 4 inches (101.6 mm) high with a minimum stroke width of 0.5 inch (12.7 mm) for residential, 6 inches (152 mm) high with a minimum stroke width of 0.75 inch (19 mm) for commercial and, 10 inches (254 mm) high with a minimum stroke of 1.00 inches (25.4 mm) for industrial. Where access is by means of a private road and the building cannot be viewed from the public way, a monument, pole or other sign or means shall be used to identify the structure.

## SECTION 506 KEY BOXES

**506.1 Where required.** ~~Where access is necessary to or within a structure or an area is restricted because of secured openings, or where the structure is protected by an automatic fire alarm, fire suppression system, or any multi-tenant retail structure, a Knox Box key box(es) shall be installed in an approved location(s). The key box(es) shall contain keys to gain access throughout a structure as required by the fire code official. When more than one Knox Box is installed, the boxes shall be marked to indicate that more than one box is present.~~ ~~Where access to or within a structure or an area is restricted because of secured openings or where immediate access is necessary for life-saving or fire-fighting purposes, the fire code official is authorized to require a key box to be installed in an approved location. The key box shall be of an approved type and shall contain keys to gain necessary access as required by the fire code official.~~

## Section 507 FIRE PROTECTION WATER SUPPLIES

**507.2.1 Private fire service mains.** Private fire service mains and appurtenances shall be installed in accordance with NFPA 24 and Section 700.070, (K) of the Code of the City of Washington.

**507.3 Fire flow.** Fire flow requirements for buildings or portions of buildings and facilities shall be determined by an approved method ~~meet the requirements of the Code of the City of Washington, Section 490.036, paragraph D.~~

**507.5.1 Where required.** Where a portion of the facility or building hereafter constructed or moved into or within the jurisdiction is more than 400 feet (122 m) ~~300 feet (91 m)~~ from a hydrant on a fire apparatus access road, as measured by an approved route around the exterior of the facility or building, on-site fire hydrants and mains shall be provided ~~where required by the fire code official as required by the Code of the City of Washington, Section 490.036, paragraph D.~~

### Exceptions:

- ~~1. For Group R-3 and Group U occupancies, the distance requirement shall be 600 feet (183 m).~~
- ~~2. For buildings equipped throughout with an approved automatic sprinkler system installed in accordance with Section 903.3.1.1 or 903.3.1.2, the distance requirement shall be 600 feet (183m).~~

## CHAPTER 6 BUILDING SERVICES AND SYSTEMS

### SECTION 607 ELEVATOR RECALL AND MAINTENANCE

**607.4 Elevator keys.** Keys for the elevator car doors and fire-fighter service keys shall be kept in an approved location for immediate use by the fire department. ~~a Knox Box key box in a location approved by the fire code official.~~

## CHAPTER 9 FIRE PROTECTION SYSTEMS

### SECTION 903 AUTOMATIC SPRINKLER SYSTEMS

**903.2.6 Group I.** An automatic sprinkler system shall be provided throughout buildings including all combustible attic spaces with a Group I fire area.

**Exception** --An automatic sprinkler system installed in accordance with Section 903.3.1.2 or 903.3.1.3 shall be allowed in Group I-1 facilities.

**903.2.7 Group M or Group B.** An automatic sprinkler system shall be provided throughout buildings containing a Group M or Group B occupancy where one of the following conditions exists:

1. A Group M or Group B fire area exceeds 12,000 square feet (1115 m<sup>2</sup>).
2. A Group M or Group B fire area is located more than three stories above grade plane.
3. The combined area of all Group M or Group B fire areas on all floors, including any mezzanines, exceeds 24,000 square feet (2230 m<sup>2</sup>).
4. A Group M or Group B occupancy is used for the display and sale of upholstered furniture.

**903.2.11.3 Buildings more than 55 35 feet in height.** An automatic sprinkler system shall be installed throughout buildings with a floor level having an occupant load of 30 or more that is located 55 35 feet or more above the lowest level of fire department vehicle access, regardless of occupancy.

**903.3.1.2 NFPA 13R sprinkler systems.** Automatic sprinkler systems in Group R occupancies up to and including four stories in height shall be permitted to be installed throughout buildings including all combustible attic spaces in accordance with NFPA 13R.

**903.3.5 Water supplies.** Water supplies for automatic sprinkler systems shall comply with this section and the standards referenced in Section 903.3.1. A separate domestic water connection shall be made at least ten (10) feet from the fire sprinkler connection on the City main. All connections shall be made and approved by the Public Works Department. A private fire water main may supply the fire sprinkler system and domestic supply provided the private main is approved by the Public Works and Fire Departments. The potable water supply shall be protected against backflow in accordance with the requirements of this section and the International Plumbing Code.

**903.3.8 Test outlet.** An inspector's test outlet, equivalent to the flow from a single sprinkler of the smallest orifice size installed in the system, shall be installed on each floor where a water flow alarm device is required in Section 903.4.2. The test outlet shall be piped to the exterior of the building where the full flow will not create damage or, to an interior drain properly sized to accept full flow to atmospheric pressure.

**903.4 Sprinkler system supervision and alarms.**

**Exceptions:** Delete exception 7.

- ~~7. Trim valves to pressure switches in dry, preaction and deluge sprinkler systems that are sealed or locked in the open position.~~

**903.4.2 Alarms.** Approved audible and visual devices shall be connected to every automatic sprinkler system and activate only with the activation of a water flow switch. Such sprinkler water-flow alarm devices shall be activated by water flow equivalent to the flow of a single sprinkler of the smallest orifice size installed in the system. A separate water-flow switch shall be located at the point of connection to the riser on each floor of all multi-floored buildings. Alarm devices shall be provided on the exterior of the building in an approved location above grade at a level high enough to prevent tampering. Where a fire alarm system is installed, actuation of the automatic sprinkler system shall actuate the building fire alarm system.

**903.4.3 Floor control valves.** Approved supervised indicating control valves shall be provided at the point of connection to the riser on each floor in high-rise multi-floor buildings.

## SECTION 907 FIRE ALARM DETECTION SYSTEMS

**907.2.3 Group E.**

**Exceptions:** *Delete exception 1.*

- ~~1. A manual fire alarm system is not required in Group E occupancies with an occupant load of less than 50.~~

**907.2.11.1 Group R-1.** *(Modify as follows.)*

- ~~3. In each story within guestroom or suite, including basements. In each story within the sleeping unit, including basements. For sleeping units with split levels and without an intervening door between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than one full story below the upper level.~~

**907.2.11.2 Groups R-2, R-3, R-4 and I-1.** *(Modify as follows.)*

- ~~3. In each story within a dwelling unit, including basements and cellars but not including crawl spaces and uninhabitable attics. In dwellings or dwelling units with split levels and without an intervening door between the adjacent levels, a smoke alarm install on the upper level shall suffice for the adjacent lower level provided that the lower level is less than one full story below the upper level.~~

**907.5.1 Protection of fire alarm control unit.**

**Exceptions:** *Delete exception 2.*

- ~~2. The smoke detector shall not be required where the building is equipped through with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2.~~

**SECTION 912****FIRE DEPARTMENT CONNECTIONS**

**912.2 Location.** ~~With respect to hydrants, driveways, buildings and landscaping, fire department connections shall be so located that fire apparatus and hose connected to supply the system will not obstruct access to the buildings for other fire apparatus. The location of fire department connections shall be approved by the fire chief.~~

*The location of fire department connections shall be located as follows:*

- 1. Fire department Siamese connections shall be on the address side of the building or unless otherwise required by the fire code official.*
- 2. Fire department Siamese connections shall be located not more than seventy-five (75) feet from a fire hydrant.*
- 3. When fire department Siamese connections are located in an area where vehicles may be parked or standing, said parking or standing shall be restricted for fifteen (15) feet in each direction from the Siamese fire connection.*

**912.2.1 Visible location.** ~~Fire department connections shall be located on the street side of buildings, fully visible and recognizable from the street or nearest point of fire department vehicle access or as otherwise approved required by the fire chief. Where the building is more than two stories or twenty (20) feet in height, a sign with a red background with white 10" letters "FDC" shall be provided.~~

**SECTION 913f****FIRE PUMPS**

**913.4 Valve supervision.** Where provided, the fire pump suction, discharge and bypass valves and the isolation valves on the backflow prevention device or assembly shall be supervised open by one of the following methods.

1. Central Station, proprietary or remote station signaling service.
- ~~2. Local signaling service that will cause the sounding of an audible signal at a constantly attended location.~~
- ~~3. Locking valves open~~
- ~~4. Sealing of valves and approved weekly recorded inspection where valves are located within fenced enclosures under the control of the owner.~~

## CHAPTER 10 MEANS OF EGRESS

### 1004.8 Outdoor areas.

**Exceptions:** *Delete exception 1.*

- ~~1. Outdoor areas used exclusively for service of the building need only have one means of egress.~~

**1004.8.1 Outdoor Area Occupant Load.** *Outdoor areas with an occupant load greater than 50 or a Group A occupancy with a yard, patio, or similar outdoor area shall have at least one direct means to the public way.*

## SECTION 1006 MEANS OF EGRESS ILLUMINATION

**1006.3.1 Power Supply Testing.** *When means of egress illumination consist of recessed lighting fixtures, or fixtures more than eight (8) feet above the finished floor line, the egress lighting shall be on a labeled dedicated electrical circuit so that when the egress lighting circuit is turned off the emergency power supply activates. Any means of egress illumination that does not have an external readily visible test button, shall have a red dot permanently affixed to the fixture in visible location as approved by the fire code official.*

## CHAPTER 22 MOTOR FUEL-DISPENSING FACILITIES AND REPAIR GARAGES

### SECTION 2206 FLAMMABLE AND COMBUSTIBLE LIQUID MOTOR FUEL-DISPENSING FACILITIES

**2206.2.2 Above-ground tanks located inside buildings.** *Above ground storage tanks for the storage of combustible liquids shall be prohibited except when allowed by special use permit from the City of Washington City Council. Above ground storage tanks for the storage of flammable liquids shall be prohibited. Above-ground tanks for the storage of Class I, II and IIIA liquid fuels are allowed to be located in buildings. Such tanks shall be located in special enclosures complying with Section 2206.2.6, in a liquid storage room or a liquid storage warehouse complying with Chapter 34, or shall be listed and labeled as protected above-ground tanks*

**2206.2.3 Above-ground tanks located outside, above grade.** *Above ground storage tanks for the storage of combustible liquids shall be prohibited except when allowed by special use permit from the City of Washington City Council. Above ground storage tanks for the storage of flammable liquids*

~~shall be prohibited. Above-ground tanks shall not be used for the storage of Class I, II or IIIA liquid fuels except as provided by this section.~~

- ~~1. Above-ground tanks used for outside, above-grade storage of Class I liquids shall be listed and labeled as protected above-ground tanks and be in accordance with Chapter 34. Such tanks shall be located in accordance with Table 2206.2.3.~~
- ~~2. Above-ground tanks used for above-grade storage of Class II or IIIA liquids are allowed to be protected above-ground tanks or, when approved by the fire code official, other above-ground tanks that comply with chapter 34. Tank locations shall be in accordance with Table 2206.2.3.~~
- ~~3. Tanks containing fuels shall not exceed 12,000 gallons (45420 L) in individual capacity or 48,000 gallons (181680 L) in aggregate capacity. Installations with the maximum, allowable aggregate capacity shall be separated from other such installations by not less than 100 feet (30480 mm).~~
- ~~4. Tanks located at farms, construction projects, or rural areas shall comply with Section 3406.2.~~

## **CHAPTER 46 CONSTRUCTION REQUIREMENTS FOR EXISTING BUILDINGS**

### **SECTION 4604 MEANS OF EGRESS FOR EXISTING BUILDINGS**

**4604.5.2 Power Supply Testing.** *When means of egress illumination consist of recessed lighting fixtures, or fixtures more than 8 feet above the finished floor line, the egress lighting shall be on a labeled dedicated electrical circuit so that when the egress lighting circuit is turned off the emergency power supply activates. Any means of egress illumination that does not have an external readily visible test button, shall have a red dot permanently affixed to the fixture in a visible location as approved by the fire code official.*

## APPENDIX D FIRE APPARATUS ACCESS ROADS

### SECTION D103 MINIMUM SPECIFICATIONS

**D103.3 Turning radius.** The required turning radius of a fire apparatus shall be determined by the fire code official. *The ~~minimum~~ required turning radius shall be determined by the worst case turning radius of fire units in service in addition to an overhang clearance six(6) feet beyond the outside radius of the curvature. All measurements shall be to the inside face of the curb.*

*a. The minimum turning radii shall be 30 feet inside and 50 feet outside measured from the inside face of curb.*

**END OF AMENDMENTS**

# CITY OF WASHINGTON, MO

## AMMENDMENTS TO THE

### INTERNATIONAL MECHANICAL CODE, 2009 EDITION

Amendments to the International Mechanical Code, 2009 edition, are given in the following text. Each code section that corresponds to one of the following provisions is hereby deleted where so noted or amended to read as set forth below. Each provision set out below without a corresponding section, subsection or clause number in the code is hereby enacted and added thereto. Wording that is struck-through is to be deleted from the code. Wording in italics is to be inserted into code.

#### CHAPTER 1

##### SCOPE AND ADMINISTRATON

#### SECTION 101

##### GENERAL

**101.1 Title:** These regulations shall be known as the Mechanical Code of *the City of Washington, County of Franklin, State of Missouri*, herein referred to as "this code".

**102.6. Historic buildings.** The construction alteration, repair, enlargement, restoration, relocation or movement of existing buildings or structures that are designated as historic buildings shall be in accordance with the provisions of this code as adopted. ~~The provisions of this code relating to the construction, alteration, repair, enlargement, restoration, relocation or moving of buildings or structures shall not be mandatory for existing buildings or structures identified and classified by the state or local jurisdiction as historic buildings when such buildings or structures are judged by the code official to be safe and in the public interest of health, safety and welfare regarding any proposed construction, alteration, repair, enlargement, restoration, relocation or moving of buildings. The construction alteration, repair, enlargement, restoration, relocation or movement of existing buildings or structures that are designated as historic buildings shall be in accordance with the provisions of this code as adopted.~~

#### SECTION 106

##### PERMITS

**106.5.2 Fee schedule.** The fees for all mechanical work shall be ~~as indicated in the following schedule: be paid as required, in accordance with the schedule as established by the applicable governing authority.~~

**106.5.3 Fee refund.** *Delete paragraph.*

#### SECTION 108

##### VIOLATIONS

**108.4 Violation penalties.** Persons who shall violate a provision of this code or shall fail to comply with any requirements thereof or who shall erect, install, alter or repair mechanical work in violation of the approved construction documents or directive of the code official, or of a permit or certificate issued under the provisions of this code, shall be guilty of (**SPECIFY OFFENSE**), punishable by a fine or not more than (**AMOUNT**) dollars or by imprisonment not exceeding (**NUMBER OF DAYS**), or both such fine and

imprisonment. Each day that a violation continues after due notice has been served shall be deemed a separate offense.

**108.5 Stop work orders.** Upon notice from the code official, work on any mechanical system that is being done contrary to the provisions of this code or in a dangerous or unsafe manner shall immediately cease. Such notice shall be in writing and shall be given to the owner of the property, or to the owner's agent, or to the person doing the work. The notice shall state the conditions under which work is authorized to resume. Where an emergency exists, the code official shall not be required to give a written notice prior to stopping the work. Any person 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 a fine of not less than **(AMOUNT)** dollars or more than **(AMOUNT)** dollars.

**SECTION 109  
MEANS OF APPEAL**

**109.1 THROUGH 109.7:** *Delete paragraphs.*

**109.1Appeal.** *Appeals shall be made in accordance with the provisions of the Building Code.*

**END OF AMENDMENTS**

# CITY OF WASHINGTON, MO

## AMMENDMENTS TO THE

### INTERNATIONAL PLUMBING CODE, 2009 EDITION

Amendments to the International Plumbing Code, 2009 edition, are given in the following text. Each code section that corresponds to one of the following provisions is hereby deleted where so noted or amended to read as set forth below. Each provision set out below without a corresponding section, sub-section or clause number in the code is hereby enacted and added thereto. Wording that is struck-through is to be deleted from the code. Wording in italics is to be inserted into code.

#### CHAPTER 1

##### SCOPE AND ADMINISTRATON

#### SECTION 101

##### GENERAL

**101.1 Title:** These regulations shall be known as the International Plumbing Code of *the City of Washington, County of Franklin, State of Missouri*, herein referred to as "this code".

**102.6. Historic buildings.** The construction alteration, repair, enlargement, restoration, relocation or movement of existing buildings or structures that are designated as historic buildings shall be in accordance with the provisions of this code as adopted. ~~The provisions of this code relating to the construction, alteration, repair, enlargement, restoration, relocation or moving of buildings or structures shall not be mandatory for existing buildings or structures identified and classified by the state or local jurisdiction as historic buildings when such buildings or structures are judged by the code official to be safe and in the public interest of health, safety and welfare regarding any proposed construction, alteration, repair, enlargement, restoration, relocation or moving of buildings. The construction alteration, repair, enlargement, restoration, relocation or movement of existing buildings or structures that are designated as historic buildings shall be in accordance with the provisions of this code as adopted.~~

#### SECTION 106

##### PERMITS

**106.6.2 Fee schedule.** The fees for all plumbing work shall be ~~as indicated in the following schedule: be paid as required, in accordance with the schedule as established by the applicable governing authority.~~

**106.6.3 Fee refund.** *Delete paragraph.*

#### SECTION 108

##### VIOLATIONS

**108.4 Violation penalties.** Any person who shall violate a provision of this code or shall fail to comply with any requirements thereof or who shall erect, install, alter or repair plumbing work in violation of the approved construction documents or directive of the code official, or of a permit or certificate issued under the provisions of this code, shall be guilty of (**SPECIFY OFFENSE**), punishable by a fine or not more than (**AMOUNT**) dollars or by imprisonment not exceeding (**NUMBER OF DAYS**), or both such fine and

imprisonment. Each day that a violation continues after due notice has been served shall be deemed a separate offense.

**108.5 Stop work orders.** Upon notice from the code official, work on any plumbing system that is being done contrary to the provisions of this code or in a dangerous or unsafe manner shall immediately cease. Such notice shall be in writing and shall be given to the owner of the property, or to the owner's agent, or to the person doing the work. The notice shall state the conditions under which work is authorized to resume. Where an emergency exists, the code official shall not be required to give a written notice prior to stopping the work. Any person 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 a fine of not less than **(AMOUNT)** dollars or more than **(AMOUNT)** dollars.

## **SECTION 109 MEANS OF APPEAL**

**109.1 THROUGH 109.7:** *Delete paragraphs.*

**109.1 Appeal.** *Appeals shall be made in accordance with the provisions of the Building Code.*

## **CHAPTER 3 GENERAL REGULATIONS**

### **SECTION 305 PROTECTION OF PIPES AND PLUMBING SYSTEM COMPONENTS**

**305.6.1 Sewer Depth.** Building sewers that connect to private sewage disposal systems shall be a minimum of thirty (30) inches below finished grade at the point of septic tank connection. Building sewers shall be a minimum of thirty (30) inches below grade. *These minimum depth requirements may be reduced at the discretion of the code official.*

**312.5 Water Supply system test.** Change 50 psi to 80 psi.

## **CHAPTER 4 FIXTURES, FAUCETS AND FIXTURE FITTINGS**

### **Section 403 MINIMUM PLUMBING FACILITIES**

**403.2.1 Family or assisted-use toilet facilities serving as separate facilities.** *Where a building or tenant space requires a separate toilet facility for each sex and each toilet facility is required to have only one water closet, two family/assisted-use toilet facilities shall be permitted to serve as the required separate facilities. Family or assisted-use toilet facilities shall not be required to be identified for exclusive use by either sex as required by Section 403.4*

**403.3 Required public toilet facilities.** *(Modify by adding the following Exception)*

*Exception: Public toilet facilities shall not be required in open or enclosed parking garages. Toilet facilities shall not be required in parking garages where there are no parking attendants.*

**403.5 Drinking fountain location.** *Drinking fountains shall not be required to be located in individual tenant spaces provided that public drinking fountains are located within a travel distance of 500 feet of the most remote location in the tenant space and not more than one story above or below the tenant space. Where the tenant space is in a covered or open mall, such distance shall not exceed 300 feet. Drinking fountains shall be located on an accessible route.*

**417.3 Shower waste outlet.** *Change from 1 ½" to 2" in diameter.*

**CHAPTER 5  
WATER HEATERS  
SECTION 502  
INSTALLATION**

**502.6 Prohibited Location.** *Gas-fired water heaters shall not be installed in a sleeping room, bathroom, or a closet accessed through a sleeping room or bathroom.*

**CHAPTER 6  
WATER SUPPLY AND DISTRIBUTION**

**SECTION 603  
WATER SERVICE**

**603.1.1 Water service pipe.** *Water service pipe shall furnished and installed in accordance with Section 700.020 of the City of Washington Municipal Code.*

**603.1.2 Water service and metering.** *Each building not a part of another building shall have a separate water service connection, and a separate water meter as required by Section 700.040 of the City of Washington Municipal Code.*

**603.2 Separation of water service and building sewer.** *Delete Exception #2.*

**Exceptions:**

*2. ~~Water service pipe is permitted to be located in the same trench with a building sewer, provided such sewer is constructed of materials listed in Table 702.2.~~*

**SECTION 605  
MATERIALS, JOINTS AND CONNECTIONS**

**TABLE 605.3 WATER SERVICE PIPING.** Replace Table 605.3 with the following.

**TABLE 605.3  
WATER SERVICE PIPING**

<b>MATERIAL</b>	<b>STANDARD</b>
<i>Copper or copper alloy pipe</i>	<i>ASTM B 42; ASTM B 302</i>
<i>Copper or copper alloy tubing (Type K, WK, L, WL, M OR WM)</i>	<i>ASTM B 75; BASTM B 88; ASTM B 251; ASTM B 447</i>

Ductile iron water pipe	AWWA C151; AWWA C115
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**TABLE 605.4 WATER DISTRIBUTION PIPING.** Replace Table 605.4 with the following.

**TABLE 605.4  
WATER SERVICE PIPING**

<b>MATERIAL</b>	<b>STANDARD</b>
Copper or copper alloy pipe	ASTM B 42; ASTM B 302
Copper or copper alloy tubing (Type K, WK, L, WL, M OR WM)	ASTM B 75; ASTM B 88; ASTM B 251; ASTM B 447
Ductile iron water pipe	AWWA C151; AWWA C115

**CHAPTER 7  
SANITARY DRAINAGE**

**SECTION 702  
MATERIALS**

**SECTION 702  
MATERIALS**

**TABLE 702.1 ABOVE-GROUND DRAINAGE AND VENT PIPE.** Delete the following materials from the table:

1. Acrylonitrile butadiene styrene (ABS) plastic pipe in IPS diameters, including Schedule 40; DR 22 (PS 200) and DR 24 (PS 140); with a solid, cellular core or composite wall.

**TABLE 702.2 UNDERGROUND BUILDING DRAINAGE AND VENT PIPE.** Replace Table 702.2 with the following.

**TABLE 702.2  
UNDERGROUND BUILDING DRAINAGE AND VENT PIPE**

<b>MATERIAL</b>	<b>STANDARD</b>
Cast-iron pipe	ASTM A 74; ASTM A 888, CISPI 301
Copper or copper alloy tubing (Type K, L, M or DWV)	ASTM B 75; ASTM B 88; ASTM B 251; ASTM B 306
Polyvinyl chloride (PVC) plastic pipe in IPS diameters, including Schedule 40, DR 22 (PS200) and DR 24 (PS) 140; with a solid core.	ASTM D 2665; ASTM F 891, ASTM F 1488, CSA B181.2
Polyvinyl chloride (PVC) plastic pipe with a 3.25-inch O.D. and a solid wall.	ASTM D 2949, ASTM F 1488

**TABLE 702.3  
BUILDING SEWER PIPE**

<b>MATERIAL</b>	<b>STANDARD</b>
Cast-iron pipe	ASTM A 74; ASTM A 888; CISPI 301
Concrete Pipe	ASTM C14; ASTM C76; CAN/CSA A257.1 M; CAN/CSA A257.2M
Copper or copper-alloy tubing (Type K or L)	ASTM B 75; ASTM B 88; ASTM B 251

Polyvinyl chloride (PVC) plastic pipe in IPS diameters, including Schedule 40, DR 22 (PS200) and DR 24 (PS 140); with a solid-wall.	ASTM D 2665; ASTM F 891; ASTM F 1488
Polyvinyl chloride (PVC) plastic pipe in sewer and drain diameters, including PS 25, SDR 41 (PS28), PS 35, SDR 35 (PS 46), PS 50, PS 100, SDR 26 (PS 115), PS 140 AND PS 200; with a solid wall.	ASTM F 891; ASTM F 1488; ASTM D 3034; CSA B182.2; CAS B182.4

## CHAPTER 9 VENTS

### SECTION 904 VENT TERMINALS

**904.1 Roof extension.** Replace [NUMBER] with *twelve (12) inches*.

**904.4 Prohibited use.** Vent terminals shall not be used as a flag pole or to support flag poles, television aerials or similar items, except when the piping has been anchored in an approved manner *and approved by the code official*.

### SECTION 917 AIR ADMITTANCE VALVES

**917.1.1 Permitted use.** *Air admittance valves may not be used except when termination to the exterior is not possible, or approved by code official.*

## CHAPTER 11 STORM DRAINAGE

### SECTION 113 SUMPS AND PUMPING SYSTEMS

**1113.1.5 Pipe Discharge.** *All sump pump piping shall be discharged to the outside and diverted to a storm sewer conveyance or other approved collection point acceptable to the code official. Discharge into the sanitary sewer is prohibited.*

**END OF AMENDMENTS**

# CITY OF WASHINGTON, MO

## AMMENDMENTS TO THE

### INTERNATIONAL FUEL GAS CODE, 2009 EDITION

Amendments to the International Fuel Gas Code, 2009 edition, are given in the following text. Each code section that corresponds to one of the following provisions is hereby deleted where so noted or amended to read as set forth below. Each provision set out below without a corresponding section, sub-section or clause number in the code is hereby enacted and added thereto. Wording that is struck-through is to be deleted from the code. Wording in italics is to be inserted into code.

#### CHAPTER 1

##### SCOPE AND ADMINISTRATION

#### SECTION 101

##### GENERAL

**101.1 Title:** These regulations shall be known as the Fuel Gas Code of *the City of Washington, County of Franklin, State of Missouri*, herein referred to as "this code".

**102.6. Historic buildings.** The construction alteration, repair, enlargement, restoration, relocation or movement of existing buildings or structures that are designated as historic buildings shall be in accordance with the provisions of this code as adopted. ~~The provisions of this code relating to the construction, alteration, repair, enlargement, restoration, relocation or moving of buildings or structures shall not be mandatory for existing buildings or structures identified and classified by the state or local jurisdiction as historic buildings when such buildings or structures are judged by the code official to be safe and in the public interest of health, safety and welfare regarding any proposed construction, alteration, repair, enlargement, restoration, relocation or moving of buildings. The construction alteration, repair, enlargement, restoration, relocation or movement of existing buildings or structures that are designated as historic buildings shall be in accordance with the provisions of this code as adopted.~~

#### SECTION 106

##### PERMITS

**106.6.2 Fee schedule.** The fees for all work shall be as indicated in the following schedule: *be paid as required, in accordance with the schedule as established by the applicable governing authority.*

**106.6.3 Fee refund.** *Delete paragraph.*

#### SECTION 108

##### VIOLATIONS

**108.4 Violation penalties.** Persons who shall violate a provision of this code or shall fail to comply with any requirements thereof or who shall erect, install, alter or repair mechanical work in violation of the approved construction documents or directive of the code official, or of a permit or certificate issued under the provisions of this code, shall be guilty of (**SPECIFY OFFENSE**), punishable by a fine or not more than (**AMOUNT**) dollars or by imprisonment not exceeding (**NUMBER OF DAYS**), or both such fine and

imprisonment. Each day that a violation continues after due notice has been served shall be deemed a separate offense.

**108.5 Stop work orders.** Upon notice from the code official, work on any mechanical system that is being done contrary to the provisions of this code or in a dangerous or unsafe manner shall immediately cease. Such notice shall be in writing and shall be given to the owner of the property, or to the owner's agent, or to the person doing the work. The notice shall state the conditions under which work is authorized to resume. Where an emergency exists, the code official shall not be required to give a written notice prior to stopping the work. Any person 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 a fine of not less than (**AMOUNT**) dollars or more than (**AMOUNT**) dollars.

**SECTION 109  
MEANS OF APPEAL**

**109.1 THROUGH 109.7:** *Delete paragraphs.*

**109.1 Appeal.** *Appeals shall be made in accordance with the provisions of the Building Code.*

**END OF AMENDMENTS**