

# Appendix B

## Knox County Code Adoptions with Amendments

### ORDINANCE 0-06-11-101 APPROVED 12-18-06

#### ARTICLE III. 2006 INTERNATIONAL RESIDENTIAL CODE (IRC)

##### Section 10-56. Adopted.

##### Section 10-57. Amendments.

##### 1. Section R101.1 Title.

Delete “[NAME OF JURISDICTION]” and insert “Knox County, Tennessee” in its place.

##### 2. Section R102.5 Appendices.

At the end of this section, insert the following:

“The following Appendices are specifically included in the adoption. All others are excluded.

- Appendix A Sizing and Capacities of Gas Piping
- Appendix B Sizing Of Venting Systems Serving Appliances Equipped With Draft Hoods,  
Category I Appliances, And Appliances Listed For Use with Type B Vents
- Appendix C Exit Terminals of Mechanical Draft and Direct-Vent Venting Systems
- Appendix D Recommended Procedure for Safety Inspection of an Existing Appliance Installation
- Appendix E Manufactured Housing Used As Dwellings
- Appendix F Radon Control Methods
- Appendix G Swimming Pools, Spas, and Hot Tubs
- Appendix H Patio Covers
- Appendix J Existing Buildings And Structures
- Appendix K Sound Transmission
- Appendix M Home Day Care – R-3 Occupancy
- Appendix N Venting Methods
- Appendix O Gray Water Recycling Systems
- Appendix Q ICC International Residential Code Electrical Provisions/National Electrical Code Cross-Reference”

##### 3. Section R105.2 Work exempt from permit.

Delete “2. Fences not over 6 feet (1829 mm) high.” and insert “2. Fences.” in its place.

##### 4. Section R106.1 Submittal documents.

At the end of the first paragraph before the exception, insert “All construction documents, including the site plan, for all buildings over 5000 square feet in area and for all buildings with three or more attached dwellings shall be prepared and sealed by a registered design professional licensed by the State of Tennessee.”

##### 5. Section R109.1.2 Plumbing, mechanical, gas and electrical systems.

Delete “, and prior to framing inspection”

**6. Section R109.1.4 Frame and masonry inspection.**

Delete “and after the plumbing, mechanical and electrical rough inspections are approved”

**7. Table R301.2(1) Climatic And Geographic Design Criteria.**

Insert “10 PSF” in the table for Ground Snow Load.

Insert “90” in the table for Wind Speed.

Insert “C” in the table for Seismic Design Category.

Insert “Severe” in the table for Weathering.

Insert “12 inches” in the table for Frost Line Depth.

Insert “Moderate to heavy” in the chart for Termite.

Insert “19 degrees Fahrenheit” in the table for Winter Design Temp.

Insert “No” in the table for Ice Shield Underlayment Required.

Insert “210” in the table for Air Freezing Index.

Insert “59.4” in the table for Mean Annual Temp.

Delete footnote g. in its entirety and in its place insert “g. Flood hazard areas shall be as determined by the Knox County Department of Engineering and Public Works.”

**8. Figure R301.1(7) Component And Cladding Pressure Zones.**

Change the figure number from “R301.1(7)” to “R301.2(7)”

**9. Section R301.2.2 Seismic provisions.**

In the exception insert “and townhouses” after the word “dwellings” and at the end of the section insert “All references to “townhouses in seismic design category C” in Chapters 6, 7 and 28 shall not apply in Knox County.”

**10. Section R311.5.3.1 Riser height.**

Delete “7 ¾ inches (196 mm)” and replace it with “8 inches”.

**11. Section R311.5.3.2 Tread depth.**

Delete “10 inches (254 mm)” and replace it with “9 inches” in both places and change “6 inches (152mm)” to “4 inches” for the winder tread minimum width at the narrow end.

**12. Section 311.5.6 Handrails.**

Change “four or more risers” to “a total rise of 30 inches or more”.

**13. Section R313.2 Location.**

Insert “4. In each garage or storage area with a four foot or wider door to the outside. These smoke alarms shall be specifically approved for use in garages in the manufacturers written instructions. **Exception:** Heat detectors interconnected with the alarm system and having battery back up may be used in a garage or storage area.”

**14. Section R317.1 Two-family dwellings.**

Insert “from the foundation” after the second occurrence of the word “extend”.

**15. Section R324.1.6 Protection of water supply and sanitary sewage.**

Delete “and Chapter 3 of the *International Private Sewage Disposal Code*” and insert “, the requirements of the water and sewer service utility providers and the Knox County Health Department” in its place.

**16. Figure R403.1(1) Concrete and Masonry Foundation Details.**

Insert a note in the figure as follows: “The bottom of all foundations shall extend a minimum of 12 inches below finished grade.”

**17. Section R404.1 Concrete and masonry foundation walls.**

Delete the entire second paragraph including items one through five.

**18. Table R404.1(1) Top Reactions and Prescriptive Support for Foundation Walls**

Delete Table R404.1(1) in its entirety.

**19. Table R404.1(2) Maximum Plate Anchor-Bolt Spacing for Supported Foundation Wall.**

Delete Table R404.1(2) in its entirety.

**20. Table R404.1(3) Maximum Aspect Ratio, L/W for Unbalanced Foundations**

Delete Table R404.1(3) in its entirety.

**21. Section R404.1.3 Design required.**

Delete the word “or” and insert the word “and” in its place at the end of the sentence in item 2. of this section.

**22. Section R404.1.3.1 Permanent lateral support for foundation and retaining walls.**

Add new section numbers, titles and text as follows:

**“R404.1.3.1 Permanent lateral support for foundation and retaining walls.** Masonry foundation walls shall be laterally supported in accordance with the applicable provisions of Chapter 6 Wall Construction Sections R606 General Masonry Construction, R607 Unit Masonry, and R608 Multiple Wythe Masonry.”

**“R404.1.3.2 Masonry and concrete foundation walls supporting less than four feet of unbalanced backfill.** Where masonry or concrete foundation walls supporting less than four feet of unbalanced backfill do not extend and attach to the floor sheathing above, they shall be laterally braced at the top of the wall at intervals not to exceed four feet on center. Bracing shall be provided by the floor structural members where they are perpendicular to the wall and by blocking or bridging where the floor structural members are parallel to the wall. Such blocking or bridging shall be installed in the first two spaces between the floor structural members. For nominal “two by” lumber floor structural members the blocking shall be nominal “two by” solid full depth blocking the same size as the floor joists. For engineered floor structural members such as trusses or I-joists such blocking shall be in accordance with the manufacturers written instructions and shall be not less than a 2”x 4” diagonal brace connected to the sill plate on top of the wall and connected to the top of the first structural member and a 2”x 4” flat block connected to the top of the first and second structural members in line with the diagonal brace.”

**“R404.1.3.3 Masonry and concrete foundation walls supporting four feet or more of unbalanced backfill.** Where masonry or concrete foundation walls supporting four feet or more of unbalanced backfill do not extend and attach to the floor sheathing above, they shall be laterally braced at the top of the wall at intervals not to exceed two feet on center. Bracing shall be provided by the floor structural members where they are perpendicular to the wall and by blocking or bridging where the floor structural members are parallel to the wall. Such blocking or bridging shall be installed in the first three spaces between the floor structural members. For nominal “two by” lumber floor structural members the blocking shall be nominal “two by” solid

full depth blocking the same size as the floor joists. For engineered floor structural members such as trusses or I-joists such blocking shall be in accordance with the manufacturers written instructions and shall be not less than a 2"x 4" diagonal brace connected to the sill plate on top of the wall and connected to the top of the first structural member and a 2"x 4" flat block connected to the top of the first and second structural members in line with the diagonal brace."

**"R404.1.3.4 Lateral support for the bottom of masonry and concrete foundation walls.**

Where masonry or concrete foundation walls are required by Table R404.1.1(1), R404.1.1(2), R404.1.1(3), R404.1.1(4) or R404.1.1(5) to have vertical steel reinforcing, the bottom of the wall shall be laterally supported. Lateral support shall be provided by a full basement concrete slab floor a minimum of a 3 ½" thick poured tight against the bottom of the foundation walls with no compressible materials allowed for expansion or other purposes. If no floor slab is to be poured, such as in crawl spaces, lateral support of the bottom of the foundation wall shall be accomplished by embedding steel reinforcing in the foundation, which shall extend up into the wall and be tied to the wall reinforcing. This reinforcing shall be of the same size and spacing as is required for the wall."

**23. Section R408.1 Ventilation**

At the end of the section, add the following:

**"Exception:** The minimum net area of ventilation openings may be reduced to not less than 1 square foot for each 1500 square feet of the under-floor space area where the ground surface is treated with an approved vapor retarder material and the required openings are placed so as to provide cross ventilation of the under-floor space."

**24. Section R502.11.4 Truss Design Drawings.**

Delete "to the building official and approved prior to installation" and replace it with "for review when required by the building official".

**25. Section R602.6 Drilling and notching studs.**

In subsection "2. Drilling." delete the second occurrence of the word "no".

**26. Table R602.10.1 Wall Bracing.**

In the section for Category C for wall bracing of a one story or top of a two or three story change "30%" to "16%" and change "45%" to "25%" and in the section for Category C for wall bracing of the first story of a two story or the second story of a three story change "16%" to "30%" and change "25%" to "45%".

**27. Section R613.2 Window sills.**

Delete section R613.2 in its entirety.

**28. Section R802.10.1 Truss design drawings.**

Delete "to the building official and approved prior to installation" and replace it with "for review when required by the building official".

**29. Table N1102.1 Insulation And Fenestration Requirements By Component**

In the row for climate zone "4 except Marine", change Ceiling R-Value from "R38" to "R-30" and change Floor R-Value from "R-19" to "R-13".

**30. Section N1103.2.1 Insulation.**

Change "R-8" to "R-6" in the first sentence and delete the second sentence entirely.

**31. Section M1305.1.3 Appliances in attics.**

In the first sentence delete the word “have” and replace with “be provided with”.

**32. Section P2603.6.1 Sewer depth.**

Delete “[NUMBER]” in two places and insert “twelve inches” in two places.

**33. Section E3303.2 Inspection Required.**

Delete the word “shall” and replace with the word “may”.

**34. Section AE304.3.2.1 Investigation.**

Delete the word “shall” and replace with the word “may”.

**35. Section AE304.3.2.2 Fee.**

Delete the word “shall” and replace with the word “may” in the first three places it occurs.

**36. Section AE305.5.1 Structural inspections for the manufactured home installation.**

At the end of the section insert “**Exception:** The inspections required by this section shall not apply to manufactured homes as exempted by the State of Tennessee but shall apply to any construction or installation of decks, porches, steps or other structures or equipment. All manufactured homes shall pass a final inspection and have a certificate of occupancy issued.”

**37. Section AF103.5.3 Vent pipe.**

At the end of the section insert “**Exception:** The vent pipe shall be allowed to terminate in the attic and may be capped unless tests verify the radon potential to be 4 pCi/L or greater.”

**38. Section AF103.6.1 Vent pipe.**

At the end of the section insert “**Exception:** The vent pipe shall be allowed to terminate in the attic and may be capped unless tests verify the radon potential to be 4 pCi/L or greater.”

**39. Section AF103.12 Power source.**

Delete Section AF103.12 in its entirety.

**40. Section AH105.1 General.**

Delete the word “con-forming” and replace with “conforming”.

**Section 10-58.Reserved.**

**ORDINANCE 0-07-3-101 APPROVED 04-16-07**

**Exhibit I**

**Amendments to the 2006 International Building Code**

**Section 101.1 Title.**

Delete “[NAME OF JURISDICTION]” and insert “Knox County, Tennessee” in its place.

**Section 101.2.1 Appendices.**

Insert “The following Appendices are specifically included in the adoption. All others are excluded.

- Appendix A Employee Qualifications
- Appendix B Board Of Appeals
- Appendix C Group U - Agricultural Buildings
- Appendix E Supplementary Accessibility Requirements
- Appendix F Rodent Proofing
- Appendix G Flood-Resistant Construction
- Appendix H Signs
- Appendix I Patio Covers
- Appendix J Grading
- Appendix K ICC Electrical Code”

**Section 101.4.4 Plumbing.**

Delete “*International Private Sewage Disposal Code*” and replace with “Knox County Health Department”.

**Section 104.4 Inspections.**

Add a new section as follows: “**Section 104.4.1 Re-inspections.** As deemed necessary by the code official, the owner/occupant of a facility found in violation of the adopted building codes and/or NFPA 101 shall contact the inspector responsible for identifying the building code and/or NFPA 101 violations to schedule the required re-inspection of the facility within the time frame specified by the inspector. The facility shall not be in compliance until all violations noted have been corrected and a re-inspection has been completed.”

**Section 109.3.3 Lowest floor elevation.**

At the end of the section insert “Compliance with the Knox County Department of Engineering and Public Works requirements regarding building in flood hazard areas shall be deemed to comply with this section.”

**Section 109.3.7 Energy efficiency inspections.**

Change “shall” to “may” in two places.

**Section 109.5 Inspection requests.**

At the end of the section insert “The inspection is not required to be made if the inspector has to put himself / herself at risk due to a violation of the occupational safety and health standards for the construction industry promulgated by Occupational Safety and Health Administration (OSHA).”

### **Section 712.2 Installation details.**

Add a new section as follows: “**Section 712.2.1 Installation requirements.** The IBC fire-stopping certificate of completion form 712.2.1(1) or a functional equivalent must be completed by the fire-stopping installer prior to the issuance of a certificate of completion. (The IBC fire-stopping certificate of completion form 712.2.1(1) is available at the Knox County Fire Prevention Bureau).”

### **Section [F]907.1.1 Construction documents.**

At the end of the section insert:

“12. A point to point wiring diagram for all devices.”

“13. A riser diagram showing the zones for all devices connected to the control panel.”

### **Section [F]907.2.1.1 System initiation in Group A occupancies with an occupant load of 1,000 or more.**

Replace “1,000 or more” with “more than 300” in the title and in the code section.

### **Section [F]907.2.10.1.1 Group R-1.**

Insert “4. In each garage or storage area with a four foot or wider door to the outside.”

### **Section [F]907.2.10.1.2 Groups R-2, R-3, R-4 and I-1.**

Insert “4. In each private garage attached to and serving a dwelling unit.”

### **Section 1013.1 Guards.**

Delete the first sentence and replace with “Guards shall be located along open-sided walking surfaces or ground surfaces, mezzanines, industrial equipment platforms, retaining walls, stairways, ramps, landings and any other locations that are located more than 30 inches (762 mm) above the floor or grade below.”

### **Section 1026.2 Minimum size.**

Delete the Exception subsection in its entirety.

### **Section 1612.3 Establishment of flood hazard areas.**

Delete the text of this section in its entirety and replace with “Flood hazard areas shall be determined in accordance with the regulations enforced by the Knox County Department of Engineering and Public Works.”

### **Section 1704.1 General.**

Change the first occurrence of “shall” to “may be required to”.

In exceptions item 2 insert “Unless otherwise required by the building official,” at the first of the section just before the word “Special” and change the capital S in “Special” to lower case.

### **Section 2701.1 Scope**

At the end of the section insert “All references to the *International Fire Code* in this chapter shall also refer to the NFPA 101 Life Safety Code.”

### **Section [P]2901.1 Scope.**

Change “*International Private Sewage Disposal Code*” to “requirements of the Knox County Health Department”

**Section 3401.3 Compliance with other codes.**

Delete “*International Private Sewage Disposal Code*,” and insert “Knox County Health Department, NFPA 101 Life Safety Code” in its place.

**Section 3410.2 Applicability.**

Delete “[DATE TO BE INSERTED BY THE JURISDICTION. NOTE:IT IS RECOMMENDED THAT THIS DATE COINCIDE WITH THE EFFECTIVE DATE OF BUILDING CODES WITHIN THE JURISDICTION.]” and insert “the adoption of the first building code regulations in Knox County, Tennessee.” In its place.

**Section 3410.3.2 Compliance with other codes.**

At the end of the section insert “These buildings shall also comply with the NFPA 101 Life Safety Code.”

**Section B101.2 Membership of the board.**

Delete “as follows:” and insert a period after the word “authority”

Delete “1. One for five years; one for four years; one for three years; one for two years; and one for one year.”

Delete “2. Thereafter, each new member shall serve for five years or until a successor has been appointed.”

**Section B101.2.2 Qualifications.**

After the word “disciplines” insert “or as determined by the Building Official and the Fire Official”

**Section G102.2 Establishment of flood hazard areas.**

Delete “on [INSERT DATE]”

**Section H101.2 Signs exempt from permits.**

Delete Section H101.2 in its entirety.

**Section J101.1 Scope.**

Immediately after the word “chapter” insert “and the Knox County Department of Engineering and Public Works”

**Section K101.1 Title.**

Delete “[NAME OF JURISDICTION]” and insert “Knox County, Tennessee” in its place.

**Section K401.1 Permits required.**

At the end of the section insert “Compliance with the State of Tennessee electrical inspectors permitting and inspection requirements shall be deemed to comply with the regulations contained herein.”

**Section K404.2 Schedule of permit fees.**

Delete “indicated in the following schedule” and insert “established and regulated by the International Building Code” in its place.

Delete “[JURISDICTION TO INSERT APPROPRIATE SCHEDULE]”

**Section K702.1 General**

Delete the word “shall” and insert the word “may” in its place.

## **Chapter K11 Means of Appeal**

Delete sections K1101, K1102 and K1103 in their entirety and insert “**Section K1101 Board of appeals.** The board of appeals shall be as established and regulated by the 2006 International Building Code.”

### **Exhibit II**

#### **Amendments to the 2006 International Fuel Gas Code**

##### **Section 101.1 Title.**

Delete “[NAME OF JURISDICTION]” and insert “Knox County, Tennessee” in its place.

##### **Section 101.3 Appendices.**

Insert “The following Appendices are specifically included in the adoption. All others are excluded.

- Appendix A Sizing And Capacities Of Gas Piping (IFGS)
- Appendix B Sizing Of Venting Systems Serving Appliances Equipped With Draft Hoods,  
Category I Appliances, And Appliances Listed For Use With Type B Vents (IFGS)
- Appendix C Exit Terminals Of Mechanical Draft And Direct-Vent Venting Systems (IFGS)
- Appendix D Recommended Procedure For Safety Inspection Of An Existing Appliance Installation (IFGS)”

##### **Section 106.5.2 Fee Schedule.**

Delete Section 106.5.2 in its entirety and insert “Fees as adopted by resolution for Knox County, Tennessee.”

##### **Section 106.5.3 Fee Refunds.**

Delete Section 106.5.3 in its entirety including the section number and title.

##### **Section 107.1 Required Inspections And Testing.**

At the end of the first paragraph, insert “The inspection is not required to be made if the inspector has to put himself / herself at risk due to a violation of the occupational safety and health standards for the construction industry promulgated by Occupational Safety and Health Administration (OSHA).”

##### **Section 108.4 Violation Penalties.**

Delete “guilty of a [SPECIFY OFFENSE], punishable by a fine of not more than [AMOUNT] dollars or by imprisonment not exceeding [NUMBER OF DAYS], or both such fine and imprisonment” and insert “subject to penalties as prescribed by law” in its place.

##### **Section 108.5 Stop Work Orders.**

Delete “liable for a fine of not less than [AMOUNT] dollars or more than [AMOUNT] dollars” and insert “subject to penalties as prescribed by law” in its place.

##### **Section 109 (IFGC) Means Of Appeal.**

Delete Section 109 in its entirety and insert “The Board of Appeals shall be as established and regulated by the 2006 International Building Code.” in its place.

**Exhibit III**  
**Amendments to the 2006 International Property Maintenance Code**

**Section 101.1 Title.**

Delete “[NAME OF JURISDICTION]” and insert in its place “Knox County, Tennessee”.

**Section 102.3 Application of other codes.**

Delete “the *International Building Code, International Fuel Gas Code, International Mechanical Code and the ICC Electrical Code*. Nothing in this code shall be construed to cancel, modify or set aside any provision of the *International Zoning Code*.” and insert in its place “all of the adopted codes, ordinances, and resolutions of Knox County, Tennessee.”

**Section 102.5 Workmanship.**

At the end of the section, insert “Residential Construction Performance Guidelines for Professional Builders & Remodelers, Third Edition as published by the National Association of Home Builders may be used as a performance guideline.”

**Section 103.4 Severability.**

Insert “, Public Building Authority employee,” after each occurrence of the word officer.

**Section 103.5 Fees.**

Delete [JURISDICTION TO INSERT APPROPRIATE SCHEDULE] and insert in its place “Fees as adopted by resolution for Knox County, Tennessee.”

**Section 111 Means Of Appeal.**

Delete Section 111 in its entirety and insert in its place “The Board of Appeals shall be as established and regulated by the 2006 International Building Code.”

**Section 201.3 Terms defined in other codes.**

Delete “the *International Building Code, International Fire Code, International Zoning Code, International Plumbing Code, International Mechanical Code or the ICC Electrical Code*” and insert “all of the adopted codes, ordinances, and resolutions of Knox County, Tennessee.”

**Section 302.4 Weeds.**

Delete “(jurisdiction to insert height in inches)” and insert in its place “twelve inches” .

**Section 304.14 Insect screens.**

Delete “During the period from [DATE] to [DATE],” and change “every” to “Every”.

**Section 602.3 Heat supply.**

Delete “during the period from [DATE] to [DATE]”

**Section 602.4 Occupiable work spaces.**

Delete “during the period from [DATE] to [DATE]”

**Chapter 8 Referenced Standards**

Delete “IZC-06 International Zoning Code@ . . . . .102.3, 201.3”

At the end of the section insert “Residential Construction Performance Guidelines for Professional Builders & Remodelers, Third Edition as published by the National Association of Home Builders. . . . .102.5.”

**Exhibit IV**  
**Amendments to the 2006 International Mechanical Code**

**Section 101.1 Title.**

Delete “[NAME OF JURISDICTION]” and insert “Knox County, Tennessee” in its place.

**Section 101.2.1 Appendices.**

Insert “The following Appendices are specifically included in the adoption. All others are excluded.

Appendix A Combustion Air Openings And Chimney Connector Pass-Throughs”

**Section 106.5.2 Fee Schedule.**

Delete Section 106.5.2 in its entirety and insert “Fees as adopted by resolution for Knox County, Tennessee.”

**Section 106.5.3 Fee Refunds.**

Delete Section 106.5.3 in its entirety including the section number and title.

**Section 107.1 Required Inspections And Testing.**

At the end of the first paragraph, insert “The inspection is not required to be made if the inspector has to put himself / herself at risk due to a violation of the occupational safety and health standards for the construction industry promulgated by Occupational Safety and Health Administration (OSHA).”

**Section 108.4 Violation Penalties.**

Delete “guilty of a [SPECIFY OFFENSE], punishable by a fine of not more than [AMOUNT] dollars or by imprisonment not exceeding [NUMBER OF DAYS], or both such fine and imprisonment” and insert “subject to penalties as prescribed by law” in its place.

**Section 108.5 Stop Work Orders.**

Delete “liable for a fine of not less than [AMOUNT] dollars or more than [AMOUNT] dollars” and insert “subject to penalties as prescribed by law” in its place.

**Section 109 Means Of Appeal.**

Delete Section 109 in its entirety and insert “The Board of Appeals shall be as established and regulated by the 2006 International Building Code.” in its place.

**Section 606 Smoke Detection Systems Control.**

Insert a new section as follows: “**Section 606.5 Systems with a capacity of 2,000 CFM or less.** Recirculating air systems with a fan capacity of 2,000 cfm (0.9 m<sup>3</sup>/s) or less, but serving an area used for egress, shall have an automatic shutdown. Automatic shutdown may be by means of an approved smoke detector or fire-stat placed in the return air stream prior to any exhausting from the building or mixing with the fresh air makeup.”

**Exhibit V**  
**Amendments to the 2006 International Plumbing Code**

**Section 101.1 Title.**

Delete “[NAME OF JURISDICTION]” and insert “Knox County, Tennessee” in its place.

### **Section 101.2 Scope**

At the end of the first paragraph insert “The following Appendices are specifically included in the adoption. All others are excluded.

- Appendix B Rates Of Rainfall For Various Cities
- Appendix C Gray Water Recycling Systems
- Appendix D Degree Day And Design Temperatures
- Appendix E Sizing Of Water Piping System
- Appendix F Structural Safety
- Appendix G Vacuum Drainage System”

### **Section 106.6.2 Fee Schedule.**

Delete Section 106.6.2 in its entirety and insert “Fees as adopted by resolution for Knox County, Tennessee.”

### **Section 106.6.3 Fee Refunds.**

Delete Section 106.6.3 in its entirety including the section number and title.

### **Section 107.1 Required Inspections And Testing.**

At the end of the first paragraph, insert “The inspection is not required to be made if the inspector has to put himself / herself at risk due to a violation of the occupational safety and health standards for the construction industry promulgated by Occupational Safety and Health Administration (OSHA).”

### **Section 108.4 Violation Penalties.**

Delete “guilty of a [SPECIFY OFFENSE], punishable by a fine of not more than [AMOUNT] dollars or by imprisonment not exceeding [NUMBER OF DAYS], or both such fine and imprisonment” and insert “subject to penalties as prescribed by law” in its place.

### **Section 108.5 Stop Work Orders.**

Delete “liable for a fine of not less than [AMOUNT] dollars or more than [AMOUNT] dollars” and insert “subject to penalties as prescribed by law” in its place.

### **Section 109 Means Of Appeal.**

Delete Section 109 in its entirety and insert “The Board of Appeals shall be as established and regulated by the 2006 International Building Code.” in its place.

### **Section 301.3 Connections to the sanitary drainage system.**

At the end of the section insert “Exception: Bathtubs, showers, lavatories, clothes washers and laundry trays shall not be required to discharge to the sanitary drainage system where such fixtures discharge to an approved gray water system for flushing of water closets and urinals or for subsurface landscape irrigation.”

### **Section 305.6.1 Sewer Depth.**

Delete “[NUMBER]” in two places and insert “twelve” in its place.  
Delete “(mm)” in two places.

### **Section 701.2 Sewer Required.**

Delete “in accordance with the *International Private Sewage Disposal Code*”.

**Section 904.1 Roof Extension.**

Delete [NUMBER]" and insert "twelve" in its place.

Delete "(mm)"

**Section 1101.1 Scope.**

Insert "This shall be in addition to all regulations enforced by the Knox County Department of Engineering and Public Works." at the end of the section.

**Exhibit VI**

**Amendments to the 2006 International Fire Code**

**Section 101.1 Title.**

Delete "[NAME OF JURISDICTION]" and insert "Knox County, Tennessee" in its place.

**Section 101.2.1 Appendices**

Insert "The following Appendices are specifically included in the adoption. All others are excluded.

- Appendix B Fire-Flow Requirements For Buildings
- Appendix C Fire Hydrant Locations And Distribution
- Appendix D Fire Apparatus Access Roads
- Appendix E Hazard Categories
- Appendix F Hazard Ranking"

**Section 103.1 General.**

At the end of the section insert "This department shall be known as the Knox County Fire Prevention Bureau."

**Section 106.1 Inspection Authority.**

At the end of the section insert "The inspection is not required to be made if the inspector has to put himself / herself at risk due to a violation of the occupational safety and health standards for the construction industry promulgated by Occupational Safety and Health Administration (OSHA)."

**Section 106.2 Inspections.**

Add a new section as follows: "**Section 106.2.1 Re-inspections.** As deemed necessary by the code official, the owner/occupant of a facility found in violation of the adopted fire code and/or NFPA 101 shall contact the inspector responsible for identifying the fire code and/or NFPA 101 violations to schedule the required re-inspection of the facility within the time frame specified by the inspector. The facility shall not be in compliance until all violations noted have been corrected and a re-inspection has been completed."

**Section 108.1 Board Of Appeals Established.**

Insert after the last sentence "The Board of Appeals shall be the same as established and regulated by the 2006 International Building Code."

**Section 109.3 Violation Penalties.**

Delete "guilty of a [SPECIFY OFFENSE], punishable by a fine of not more than [AMOUNT] dollars or by imprisonment not exceeding [NUMBER OF DAYS], or both such fine and imprisonment" and insert "subject to penalties as prescribed by law" in its place.

### **Section 111.4 Failure To Comply.**

Delete “liable for a fine of not less than [AMOUNT] dollars or more than [AMOUNT] dollars” and insert “subject to penalties as prescribed by law” in its place.

### **Section 401.3 Emergency Forces Notification.**

In the first sentence, after “unwanted fire” add “or other emergency”. In the last sentence, after “reporting of a fire” add “or other emergency”.

### **Section 508.5.1 Where required.**

Add a new section as follows: “**Section 508.5.1.1 Fire hydrants required.** Fire hydrants shall be available at a distance of not more than 600 feet to all new dwellings within new residential developments/subdivisions or a manufactured housing parks containing more than four dwellings. Two copies of a site utility plan and designs showing the layout of all underground main and all fire hydrant locations shall be submitted by the owner/developer for review by the fire code official. **Exception:** Dwellings or manufactured houses equipped with an automatic sprinkler system, installed and tested in accordance with NFPA 13D or 13R.”

### **Section 508.5.4 Obstruction.**

At the end of the section insert “Fire hydrants shall be maintained unobstructed in accordance with Section 508.5.5(1)”

### **Section 508.5.5 Clear space around hydrants.**

At the end of the section, before the period, insert “by the fire code official. Fire hydrants shall be maintained unobstructed in accordance with Section 508.5.5.1.”

### **Section 508.5.5.1 Fire hydrant detail.**

(The Fire hydrant detail is available at the Knox County Fire Prevention Bureau).”

### **Section 508.5 Fire hydrant systems.**

Add a new section as follows: “**Section 508.5.7 Hydrant removal.** Fire hydrants required by this code or otherwise installed shall not be removed without approval of the fire code official.”

### **Section 703.1 Maintenance.**

At the end of the section insert “The IBC fire-stopping certificate of completion form 712.2.1(1) or a functional equivalent must be completed by the fire-stopping installer prior to the issuance of a certificate of completion.”

### **Section 901.5 Installation acceptance testing.**

#### **Section 901.5.2 Domestic sprinkler system acceptance testing.**

Add a new section as follows: “Domestic sprinkler systems designed to meet the requirements of NFPA 13D and R shall be required to complete a sprinkler flow test (“put the water in the bucket test”) witnessed by the inspector who must be notified at least 24 hours in advance.”

### **Section 901.6 Inspection, testing and maintenance.**

At the end of the section, before the period, add “only with the approval of the fire code official”.

### **Section 901.6.2 Records.**

At the end of the section, delete the words “upon request” and insert the words “within 10 days of any inspection, test or maintenance”.

**Section 901.7 Systems out of service.**

In the first sentence, after “required” add “or otherwise installed”.

**Section 901.7 Systems out of service.**

Add a new section as follows: “**Section 901.7.7 Fire protection system activation.** The activation or use of any fire protection system or device in connection with the control or extinguishment of a fire shall be reported to the fire code official. Such report shall be made by the owner and contractor of the premises in which the system or device is installed and by the contractor or service firm responsible for restoring the system to normal operation or servicing the actuated system or unit. The owner or contractor shall report its use and performance as required by 901.7 to the fire code official immediately.”

**Section 903.2.7 Group R.**

At the end of the section add “Exception: This section shall not apply to detached one and two-family dwellings and multiple single family dwellings (townhouses) not more than three stories in height where each dwelling extends from the foundation to the roof, is open on at least two sides with each dwelling having a separate means of egress and their accessory structures as regulated by the 2006 International Residential Code.”

**Section 906.1 Where required.**

Delete the Exception section under Section 906.1(1) in its entirety.

**Section 907.1.1 Construction documents.**

At the end of the section insert:

“11. A point to point wiring diagram for all devices.”

“12. A riser diagram showing the zones for all devices connected to the control panel.”

**Section 907.2.1.1 System initiation in Group A occupancies with an occupant load of 1,000 or more.**

Replace “1,000 or more” with “more than 300” in the title and in the code section.

**Section 907.2.10.1.1 Group R-1.**

Insert “4. In each garage or storage area with a four foot or wider door to the outside.”

**Section 907.2.10.1.2 Groups R-2, R-3, R-4 and I-1.**

Insert “4. In each garage or storage area with a four foot or wider door to the outside.”

**Section 912.2.1 Visible location.**

After the words “street side” add “(addressed side)”. At the end of the section add “The fire department connection shall be identified by a permanent approved sign which shall have the letters “FDC” at least 6” high in red on a white background.”

**Section 912.3 Access.**

After the word “walls” insert “gas meters”. Replace “3” with “15”.

**Section 1026.2 Minimum size.**

Delete the Exception section in its entirety.

**Section D103.1 Access road width with a hydrant.**

Delete Section D103.1, including Figure D103.1, in its entirety, and replace with “**D103.1 Fire apparatus access roads.** All fire apparatus access roads shall meet or exceed the Knoxville-Knox County minimum subdivision regulations.”

**Section D103.2 Grade.**

Delete Section D103.2 in its entirety.

**Section D103.3 Turning radius.**

Delete Section D103.3 in its entirety.

**Section D103.4 Dead ends.**

Delete Section D103.4, including Table D103.4, in its entirety.

**Section D103.5 Fire apparatus access road gates.**

Renumber Section D103.5 to D103.2.

**Section D103.6 Signs.**

Delete Section D103.6, including Figure D103.6, in its entirety.

**Section D106.1 Projects having more than 100 dwelling units.**

Replace “100” with “125” where it appears in the title and in the section.

**Section D107 One- or Two-Family Residential Developments**

Delete Section D107 in its entirety.

**Exhibit VII**

**Amendments to the 2006 NFPA 101 Life Safety Code**

**Section 1.2 Purpose.**

At the end of the section add “Exception: This Code shall not apply to detached one and two-family dwellings and multiple single family dwellings (townhouses) not more than three stories in height where each dwelling extends from the foundation to the roof, is open on at least two sides with each dwelling having a separate means of egress and their accessory structures as regulated by the 2006 International Residential Code.”

**Chapter 1 Administration.**

Insert a new section as follows: “**Section 1.7 Annexes.** Annex A, Explanatory Materials, is specifically included in the adoption.”

**Section 3.3.28.3 Apartment Building.**

At the end of the section add “Exception: Townhouses which are a group of three or more attached single-family dwelling units not more than three stories above-grade in height in which each unit extends from foundation to roof and with open space on at least two sides with a separate means of egress and their accessory structures as defined by the 2006 International Residential Code shall not be considered as apartments for the purposes of this code.”

**Section 4.7.1 Where required.**

Immediately after “shall be conducted as” insert “deemed necessary by the fire code official.” And delete the remainder of the section.

#### **Section 4.7.6 Fire Drill Written Record.**

Immediately after the word “manner” insert “, and upon request a copy shall be provided to the fire code official”.

#### **Section 6.1.14.1 General.**

Add a new section as follows: “**6.1.14.1.4** All multiple occupancies of which at least one of the occupancies is of residential use, in which occupants sleep shall be equipped with a fire alarm detection system installed in accordance with LSC 9.6 and NFPA 72. Smoke or heat detection (depending on the area to be protected and the use of the area) shall be installed in the following locations:

Residential area used for sleeping purposes.

1. within all bedrooms or sleeping rooms,
2. centrally located in a corridor or area giving access to each group of rooms used for sleeping purposes, and
3. on every level of the residential apartment.

Occupancies within the same building or structure.

1. within all areas of all occupancies within the same building or structure spaced in accordance with NFPA 72.

Plans and designs shall be submitted for permit and review in accordance with IFC Section 907.1.1, to the Knox County Department of Codes Administration and Inspections prior to installation. An acceptance test of the system must be approved by the fire inspector upon completion.”

#### **Section 7.2.2.1.1**

Add “Exception 1. Residential interior stairs within a single unit of apartments, boarding houses (not transient), convents, dormitories, fraternities and sororities, hotels (non transient), monasteries, motels (non transient), and vacation timeshare properties may comply with the International Building Code section 1009.3 Stair treads and risers exception #4.

#### **Section 9.7.4.1**

Delete the text of this section in its entirety and replace with “Portable fire extinguishers shall be installed, inspected and maintained in all occupancies in accordance with NFPA 10, Standard for Portable Fire Extinguishers.”

#### **Section 14.3.2.1(1)**

At the end of the subsection add the following: “(e) Laundries (equipped only with domestic equipment) and less than or equal to 100 square feet.”

#### **Section 14.3.2.1(2)(a)**

After “Laundries” insert “greater than 100 square feet”

#### **Section 15.3.2.1(1)**

At the end of the subsection add the following: “(e) Laundries (equipped only with domestic equipment) and less than or equal to 100 square feet.”

#### **Section 15.3.2.1(2)(a)**

After “Laundries” insert “greater than 100 square feet”

### **Section 16.1.1 Application**

Add a new section as follows: “**16.1.1.6** Unless otherwise required by the adopted codes of Knox County, Tennessee, all day care facilities (including adult day-care facilities) with seven or more persons shall be sprinklered with an NFPA 13 or 13R system.”

### **Section 16.3.2.3**

Delete “or 16.3.2.5”

### **Section 16.3.2.5**

Delete the text of this section in its entirety and replace with “Domestic cooking equipment capable of producing grease laden vapors shall be protected as required by NFPA 96.”

### **Section 16.3.5.2**

Delete this section in its entirety.

### **Section 16.6.3.5 Extinguishment Requirements.**

Delete this section in its entirety.

### **Section 17.3.2.3**

Delete “or 17.3.2.5”

### **Section 17.3.2.5**

Delete the text of this section in its entirety and replace with “Domestic cooking equipment capable of producing grease laden vapors shall be protected as required by NFPA 96.”

### **Chapter 24 One- and Two-Family Dwellings.**

Delete Chapter 24 in its entirety.

### **Section A.4.7.6 Fire Drill Written Record.**

Immediately after the word “paragraph” delete “should” and insert “shall” in its place.

### **Section A.24**

Delete all six sections with the A.24 prefix in their entirety.

## **Exhibit VIII**

### **Amendments to the 2006 International Code Council Performance Code**

#### **Section 103.3.6.3 Contract and peer review.**

At the end of the section insert “All costs for the required contract and peer reviews shall be the responsibility of the applicant.”

#### **Section 103.3.8.4 Technical opinion.**

At the end of the section insert “All costs for these services shall be the responsibility of the applicant.”

#### **Section 201.3 Terms not defined in other codes.**

Delete this section in its entirety and replace with the following:

“**Section 201.3 Terms defined in other codes.** Where terms are not defined in this code and are defined in other adopted codes such terms shall have the meanings ascribed to them as in those codes.”

**Section 201.4 Terms not defined.**

Insert a new section as follows:

**“Section 201.4 Terms not defined.**

Where terms are not defined through the methods authorized by this section, such terms shall have ordinarily accepted meanings such as the context implies.”

**Exhibit IX**

**Amendments to the 2006 International Existing Building Code**

**Section 101.1 Title.**

Delete “[NAME OF JURISDICTION]” and insert “Knox County, Tennessee” in its place.

**Section 101.2 Scope.**

At the end of the section insert “The use of this code shall not exempt any portion of any existing building from any of the requirements of the 2006 NFPA 101 Life Safety Code.”

**Section 101.4.1 Buildings not previously occupied.**

Immediately after “*International Building Code,*” insert “,the 2006 NFPA 101 Life Safety Code”

**Section 101.4.2 Buildings previously occupied.**

Immediately after “*International Fire Code,*” insert “the 2006 NFPA 101 Life Safety Code,”

**Section 101.5 Compliance methods**

Immediately after the word “applicant” at the end of the first sentence insert “and with the 2006 NFPA 101 Life Safety Code”

**Section 101.7 Appendices.**

Insert “The following Appendices are specifically included in the adoption. All others are excluded.

Appendix A Guidelines For The Seismic Retrofit Of Existing Buildings

Appendix B Supplementary Accessibility Requirements For Existing Buildings And Structures”

**Section 102.4 Referenced codes and standards**

At the end of the section add “Exception: Where differences occur between provisions of this code and the 2006 NFPA 101 Life Safety Code, the code officials shall decide which shall apply.”

**Section 103.1 Creation of enforcement agency.**

Insert “ These departments shall be known as the Knox County Department of Codes Administration & Inspections and the Knox County Fire Prevention Bureau.” at the end of the section.

**Section 109.3 Required inspections.**

Delete this section in its entirety and replace with “When required by the code officials, the inspections set forth in Sections 109.3.1 through 109.3.9 shall be subject to inspection by the code officials.”

**Section 109.5 Inspection requests.**

At the end of the section insert “No inspections shall be performed on any jobsite or portion thereof where there is a unsafe condition or a violation of the occupational safety and health standards for the construction industry promulgated by the Occupational Safety and Health Administration (OSHA).”

**Section 112 Board of Appeals**

Delete this section in its entirety and insert “The Board of Appeals shall be as established and regulated by the International Building Code.”

**Section [B]302.2.2 Live load reduction**

Delete the word “in” from this section

**Section 303.2.3 Seismic.**

Change the section number to “302.2.3”.

**Section 303.2.3.1 Additions to existing buildings.**

Change the section number to “302.2.3.1”.

**Section 303.2.3.2 Alterations**

Change the section number to “302.2.3.2”.

**Section 405.1 Scope**

At the end of the sentence, before the period, insert “or as otherwise deemed necessary by the codes officials”

**Section 1301.2 Applicability.**

Delete “[DATE TO BE INSERTED BY THE JURISDICTION]. Note: it is recommended that this date coincide with the effective date of building codes within the jurisdiction]” and insert “the effective date of building codes within the jurisdiction” in its place.

**Exhibit X**

**Amendments to the 2006 International Energy Conservation Code**

**Section 101.1 Title.**

Delete “[NAME OF JURISDICTION]” and insert “Knox County, Tennessee” in its place.

**Section 105.2 Required approvals.**

At the end of the last sentence before the period insert “except as allowed by the building official”.