

Town of Cicero – Local Code Amendments

2009 International Residential Code Local Amendments:

DELETE Table R302.1 (Exterior Walls), see Attachment “A”.

DELETE “Exception” for Subsection R313.2 (One and Two-Family Dwellings Automatic Fire Systems) and Add:

“Approved automatic fire protection sprinkler systems is recommended to be provided in the following:

- 1) New construction
- 2) In the newly constructed portion of any addition which adds 50% or more square footage to the area of an existing residence.
- 3) In the renovated portion of any residence where 50% or more of the existing area of the residence is being renovated.
- 4) In the renovated and newly constructed portion of any residence where the sum total of the area of the addition and the area of the portion being substantially renovated exceeds 50% if the area of an existing residence.”

To the end of the subsection R403.1 (General), **ADD** “Piers are acceptable for open porches only and not for the screen porches, 3 season rooms, or sunrooms. See Attachment “C”.

ADD “R404.0 Wood Foundations are not permitted.” See Attachment “D.”

ADD “R1006.6 Ventless/Vent-free fireplaces are prohibited”. See Attachment “E”.

2004 Illinois Plumbing Code Local Amendments:

DELETE #11 in Table A, Section 890 Appendix A (Appendix A/Page 8). Delete the following: Polyvinyl Chloride (PVC) pipe. See Attachment "G".

DELETE #4 in Table A, Section 890 Appendix A (Appendix A/Page 7). Delete the following: Chlorinated Polyvinyl Chloride (CPVC) pipe. See Attachment "G".

DELETE #2 in Table A, Section 890 Appendix A (Appendix A/Page 9). Delete the following: Chlorinated Polyvinyl Chloride (CPVC) Pipe/Tubing. See Attachment "H".

DELETE #2 in "Agency Notes" (Appendix A/Page 10). Add the following: Type M copper tubing, DWV copper tubing and galvanized steel pipe and approved for above ground uses only. See attachment "I".

DELETE in its entirety: Section 890.1500 Installation of wet venting. See Attachment "J".

AMEND Section 890.1340, #4 shall be amended to read "shall not be less than 3 inches in diameter". See attachment "K".

2008 National Electric Code Local Amendments:

DELETE the following articles:

- A. Article 398 – Pertaining to open wiring in insulators, (see Attachment “L”, “M” and “N”).
- B. Article 394 – Concealed Knob-and-Tube wiring, (see Attachments “O” and “P”).
- C. Article 326 – Integrated Gas Spacer Cable, (see Attachments “Q” and “R”).
- D. Article 328 – Medium Voltage Cable (Type MV) 2001 Volts or higher, (see Attachments “S” and “T”).
- E. Article 324 – Flat Conductor Cable (FT) Usually under carpets, (see Attachments “U” “V” and “W”).
- F. Article 362- Electrical non-Metallic Tubing (flexible corrugated), (see Attachments “X”, “Y” and “Z”).
- G. Article 334 – Non Metallic Sheathed Cable/Type NM, NMC and NMS, (see Attachments “AA”, “BB”, “CC” and “DD”).
- H. Article 338 – Service- entrance Cable/Type SE and USE, (see Attachments “EE” and “FF”).
- I. Article 382 – Non Metallic Extensions, (see Attachments “GG”, “HH” and “II”).
- J. Article 352.10.A – Concealed. In walls, floors and ceilings, (see Attachment “JJ”).
- K. Article 352.10.C – Cinders. In cinder fill, (see Attachment “JJ”).
- L. Article 352.10.F – Exposed, (see Attachment “JJ”).
- M. Article 320.0of the N.E.C., (see Attachments “KK”, “LL” and “MM”).

ADD CHAPTER 10 “AMENDMENTS”

- A. All wiring between the meter box and inside service panel, exceeding then feet (10') shall require proper wire protection.
- B. All new single family dwellings over 2,000 square feet (2,000 s.f.) shall have a minimum of 200 ampere, 3-wire service.
- C. A maximum of three (3) conduits per one and one half inch (1-1/2”) 8-B or four conduits per 1,900 box shall be allowed.
- D. All lights over a bathtub or shower will be G.F.I protected if lower than eight feet (8').
- E. In commercial and industrial building, all receptacles within five feet (5') of water shall be G.F.I. Receptacles. This includes washrooms, whether they are public or private, or around sinks or water fountains.
- F. In all cases duly licensed, by a commission in the State of Illinois that provides a test for electrical competency, a bonded Electrical Contractor shall install electrical services.
- G. Studs, plates and joists must be drilled so as not to break the front half of the wood. If it is broken and the conduit is exposed, a metal plate must be places across the opening.
- H. Jacuzzi, spa or whirlpool tubs shall be hard wired to a J box, with a switch, or G.F.I protected receptacle where is can be plugged. No cords from motors shall protrude through a wall or the floor to be wired. All tub motors will have an access panel with a minimum size of fourteen inches (14” x 14”).
- I. One hundred twenty-five (125) volt receptacles locates within ten feet (10') (3,048 mm) of the inside walls of spas ans hot tubs installed indoors shall be protected by ground-fault circuit-interrupters. One hundred twenty-five (125) volt receptacles located within five feet (5') (1,524 mm) of the inside walls of hydro massage bathtubs shall be protected by a ground-fault circuit-interrupter. All hydro massage bathtubs and whirlpool tubs shall be protected be a faceless ground-fault circuit-interrupter located within the same rooms as the tub.
- J. All sump pumps shall have a single receptacle, not a duplex receptacle, and shall be on a separate circuit. Non-G.F.I. type.
- K. Electrical Metallic Tubing (EMT)- shall not be used underground, outside exposed to the weather, outside walls, on roofs exposed to permanent moisture, in concrete slab in contact with the earth or fill, where installation or afterward it will be subject to mechanical injury. Plastic, visqueen or similar materials under the tubing is considered same as earth or fill.
- L. Low Voltage Wiring- Low voltage wiring for lighting circuits, TV cable controls, telephone,

intercoms, communications, including signaling circuits on commercial and industrial buildings or where there are metal studs being used, may be run exposed only in accessible areas or subject to mechanical injury, or in plenums, all wiring shall be installed in conduit or approved raceway, and all such work requires a permit.

- M. All electrical services shall be in rigid metal conduit, or intermediate metal conduit.
- N. All underground branch-circuit and feeder conductors shall be protected against over-current by an over-current device installed at the point where the conductors receive their supply and all sub-panels will have main breaker located at the panel.
- O. All conductors shall be installed in approved metallic raceways. (Exceptions: See Article 352.10 (B), (D), (E) and (G).
- P. ADD the following:
- Q. Article 320, Armored Cable Type AC (Not Permitted)
- R. Armored Cable (Type A.C.) - Exception
- S. Armored cable may be permitted for use in concealed work in dry location where is is finished in existing walls or partitions where it is not possible to install conduit, EMT or other approved raceway. See Attachment "KK".

2009 International Building Code and 2009 International Fire Code Local Amendments

ADD THIS DEFINITION OF FIRE AREA UNDER THE EXISTING FIRE AREA DEFINITION IN SECTION 902.1 (ATTACHMENT NN)

- Fire Area as Related to Fire Sprinkler System Requirements. The aggregate floor area bounded by the exterior walls of a building; regardless of fire walls, fire barriers, or fire resistance-rated horizontal assemblies for applying fire sprinkler installation requirements.

REVISE 903.2.10 TO READ AS FOLLOWS (ATTACHMENT OO):

- All buildings of all use groups, other than one, two and three family dwellings, greater than 1500 of square footage shall be protected with an automatic fire sprinkler system installed per NFPA 13. Provide all spec warehouse buildings (Use groups S or F) with a ceiling roof height of 25 feet or greater to be protected with an ESFR fire sprinkler system or a hydraulically calculated system for class IV commodities with rack storage calculated to the greatest storage height. All sprinkler systems shall be electronically supervised by a fire alarm system.

DELETE 903.2.1-903.2.10.3.1. (ATTACHMENT PP)

ADD AS LAST SENTENCE TO 903.3.5. (ATTACHMENT QQ)

- Hydrant water flow data used for the design of any sprinkler system shall be no more than 1 year old.

MAKE THIS A NEW SECTION 903.4.1.1 (ATTACHMENT QQ)

- Fire Department Supervision: Where required by the Code Official to protect from hazards to life and property, the fire alarm system shall terminate at the Fire Department Communications Center.

ADD AND CREATE CODE SECTION 903.4.2.1 (ATTACHMENT QQ)

- Provide an outside audio/visual device over the fire department connection.
 - This will make it easier for the fire department to locate the fire department connection at night.

ADD AND CREATE CODE SECTION 903.4.2.2 (ATTACHMENT QQ)

- Alarm Indicating Appliances audio/visual devices; Shall be provided, seen and heard in all areas of every building per NFPA 72.
- All sprinklered buildings shall be provided with occupant notification devices. This will provide full building notification per NFPA 72.

ADD AND CREATE CODE SECTION 903.4.2.3 (ATTACHMENT QQ)

- Fire sprinkler system inspectors test valves shall be accessible at all times and located no more than 6 feet above the finished floor. On multiple riser systems test valves shall be marked as to which riser and area it tests.

ADD AS LAST SENTENCE TO 903.4.3 (ATTACHMENT QQ)

- ... on each floor in ~~high-rise~~ *multiple story buildings*, provide floor control valves with water flow switches for each floor.

This will make it easier for the fire department to locate the fire and will eliminate birdcage sprinkler systems where the alarm is for the whole building.

ADD AND CREATE CODE SECTION 903.4.4 (ATTACHMENT QQ)

- Automatic Sprinklers: Where automatic sprinklers provide protection to an area with an approved flow switch interconnected to the fire alarm system, and the area is easily identifiable as to the location of the activation, additional automatic detectors are not required. When a building has numerous rooms protected by the zoned sprinkler system, the fire department may require additional smoke detectors for a more rapid means to identify the location of smoke or fire.

ADD AND CREATE CODE SECTION 903.3.5.3 (ATTACHMENT QQ)

- Provide a minimum 10% or 5 psi minimum safety factor in the fire protection system hydraulic calculation. The system demand shall be 5 psi minimum below the seasonal low water flow test supply.

The safety factor will allow for low pressures in the water supply.

ADD AND CREATE CODE SECTION 903.7 (ATTACHMENT QQ)

- By each hydraulically calculated area, on each drawings, provide a copy of the hydraulic nameplate.

This will make it easier to check the hydraulics of the sprinkler system for future building or storage changes.

ADD AND CREATE CODE SECTION 903.8 (ATTACHMENT QQ)

- All references to NFPA standards are to be considered part of this code.

This will require sprinkler system installations to be installed per NFPA requirements and NFPA recommendations for good engineering practices and installations.

ADD AND CREATE CODE SECTION 903.9 (ATTACHMENT QQ)

- Fire Sprinkler System; Fire pump test header.
 - a. Add-provide an OS&Y control valve on all fire pump test headers.
 - b. Provide an outside test header on fire pump installations. This will make it easier to test the fire pump.

ADD AND CREATE CODE SECTION 903.10 (ATTACHMENT QQ)

- Private fire hydrants; Fire hydrants shall be provided around the perimeter of the building in 300' increments. Also a fire hydrant shall be located within a 100' of the fire department connection on the fire protection water supply to the building.

ADOPT IFC APPENDIX B FOR FIRE FLOW REQUIREMENTS.

ADD AND CREATE CODE SECTION 903.11 (ATTACHMENT QQ)

- Provide an outside access door to the sprinkler riser valve room and fire pump room.

ADD AND CREATE CODE SECTION 903.12 (ATTACHMENT QQ)

- Provide a minimum 1 hour separation of sprinkler valve room and/or fire pump room. Current NFPA 20 and IBC/IFC does not require the fire pump room to be separated.

ADD AND CREATE CODE SECTION 903.13 (ATTACHMENT QQ)

- In all warehouse storage areas exceeding 20,000 square feet, and where storage exceeds 12'

high, provide inside 2½" fire hose valves with 1½" reducer to a 1½" connection. Locate the valves at each door entrance to the warehouse and/or storage area. Provide additional 2½" fire hose valves so that no portion of the warehouse and/or storage area is more than 120' maximum travel distance to a fire hose valve. Show the location of all obstructions and/or racks on the drawing.

- The fire hose valves system piping shall be:
 - A. A separate riser piping system.
 - B. The 2½ " valves shall be supplied by a minimum of 4" with 2½ " drops to each valve.
 - C. Where system pressures exceed 100 psi provide Potter reduced pressure field adjustable type valves.

CHANGE CODE SECTION 905.3.1 TO READ AS FOLLOWS (ATTACHMENT RR)

- Standpipes
 - IBC section 905.3.1, Building Height; revise this section so that standpipes are required in all buildings over **three** stories high or more than two stories below grade.

ADD AND CREATE CODE SECTION 907.1.4 (ATTACHMENT SS)

- All fire alarm systems shall be of the addressable type and shall be installed per NFPA 72.

DELETE THE EXISTING CODE SECTION 907.2.1 THROUGH 907.2.8.1, (DELETE ALL RELATED EXCEPTIONS). (ATTACHMENT SS)

MAKE THESE NEW CODE SECTIONS AS FOLLOWS:

- a. 907.2 Where required: An approved manual, automatic or manual and automatic fire alarm system shall be provided in all Use Groups including occupant notification appliances throughout the building installed per NFPA 72.
- b. 907.2.1 The specific requirements in the IBC/IFC sections 907.2.1, 907.2.2.1, and 907.2.6 for Use Groups A, B and I shall remain.
- c. Exception: Single Family Homes.
- d. An approved automatic fire detection system shall be installed in all Use Groups (except single family homes), not provided with an automatic sprinkler system, and in accordance with NFPA 72. Devices, combination of devices, appliances, and equipment shall comply with section 907.1.2. The automatic fire detectors shall be smoke detectors, except that an approved alternative type of detector shall be installed in spaces such as boiler rooms where during normal operation products of combustion are present in sufficient quantity to activate a smoke detector.
- e. All fire alarm control panels or full function annunciators panels shall be installed within 10 feet of the main entrance, or in location approved by the fire department.

ADD AND CREATE CODE SECTION 907.7.1

- Multi-tenant Use Group M buildings will be "ring by tenant" activated by the fire sprinkler system flow switch for that space or automatic fire detection and shall include a weatherproof clear outside strobe over the entrance to each tenant space as directed by the fire department. All outside strobes shall be 75 candela minimum.

ADD AND CREATE CODE SECTION 912.1.1

- All fire department connections shall be a 4" Storz connection with 30 degree downturn.

ADD AND CREATE CODE SECTION 1006.3

- All rooms containing the building fire sprinkler riser(s), fire pump(s) and fire alarm control panel(s).