

ORDINANCE 2014-0-63

AN ORDINANCE AMENDING CHAPTER 7 ("BUILDINGS"),
BY ADDING A NEW ARTICLE 6 ("RESIDENTIAL CODE") TO THE OAK PARK VILLAGE CODE
TO ADOPT THE 2009 INTERNATIONAL RESIDENTIAL CODE

WHEREAS, pursuant to the authority granted by Section 11-30-1 et seq. of the Illinois Municipal Code, 65 ILCS 5/11-30-1 et seq., and pursuant to its home rule powers, the Village of Oak Park ("Village") has determined to adopt *2009 International Residential Code* as set forth in this Ordinance; and

WHEREAS, pursuant to the Municipal Adoption of Codes and Records Act, 50 ILCS 220/0.01 et seq., (hereinafter the "Act") the Village is authorized to adopt by reference any code, as that term is defined in the Act; and

WHEREAS, the *2009 International Residential Code*, (hereinafter the "IRC"), is a code as defined in the Act and the Code has been available for viewing as required by the Act and pursuant to Section 1-2-4 of the Illinois Municipal Code, 65 ILCS 5/1-2-4.

NOW THEREFORE, BE IT ORDAINED by the President and Board of Trustees of the Village of Oak Park, Cook County, Illinois, in the exercise of their home rule powers, as follows:

SECTION 1. VILLAGE CODE AMENDED. Chapter 7 ("Buildings"), Article 6 ("Low Energy Signal Bearing Conduit and Conductors") which was repealed by Ordinance 2004-0-15, on March 1, 2004, of the Oak Park Village Code is hereby deleted in its entirety and replaced with a new Article 6 ("Residential Code") as follows:

ARTICLE 6
RESIDENTIAL CODE

7-6-1: ADOPTION

7-6-2: AMENDMENTS

7-6-1: ADOPTION:

A. The 2009 International Residential Code (2009 IRC) as published by the International Code Council, is hereby adopted by the Village by reference and is made a part hereof as if fully set forth in this Section 7-6-1 with the additions, insertions, deletions and changes set forth in section 7-6-2 of this Article below. To the extent that the provisions of the IRC are inconsistent with any codes previously adopted by the Village by reference, the provisions of the 2009 IRC shall govern unless specifically set forth in this Code. In the event of a conflict between any provisions of the IRC and any provision of the Oak Park Village Code, the provisions of the Oak Park Village Code shall govern.

B. There shall be three (3) copies of the 2009 International Residential Code kept on file for public inspection in the Office of the Village Clerk.

7-6-2: AMENDMENTS: The 2009 International Residential Code, as adopted pursuant to Section 7-6-1 above, is hereby amended by adding the underlined language and deleting the overstricken language as follows:

**CHAPTER 1
SCOPE AND ADMINISTRATION**

PART I – SCOPE AND APPLICATION

SECTION R101 - GENERAL

Section R101.1 Title. These regulations, as amended and adopted by the Village of Oak Park shall be known as the Residential Code of the Village of Oak Park, hereinafter referred to as "this code."

SECTION R102 - APPLICABILITY

Section 102.5 Appendices. ~~Provisions in the Appendices shall not apply unless specifically referenced in the adopting ordinance.~~ Adopted as part of this code are:

1. Appendix A - Sizes and Capacities of Gas Piping;
2. Appendix B - Sizing of Venting Systems Serving Appliances Equipped with Draft Hoods, Category 1 Appliances, and Appliances Listed for Use with Type B Vents;
3. Appendix C - Exit Terminals of Mechanical Draft and Direct-Vent Venting Systems;
4. Appendix D - Recommended Procedure for Safety Inspection of an Existing Appliance Installation;
5. Appendix F - Radon Control Methods, as amended hereinafter;
6. Appendix G - Swimming Pools, Spas and Hot Tubs;
7. Appendix H - Patio Covers;
8. Appendix J - Existing Buildings and Structures;
9. Appendix K - Sound Transmission, and
10. Appendix M - Home Day Care - R-3 Occupancy.

PART II – ADMINISTRATION AND ENFORCEMENT

Chapter 1, PART II - ADMINISTRATION AND ENFORCEMENT, is deleted in its entirety and replaced with the following:

Chapter 1, PART II - ADMINISTRATION AND ENFORCEMENT

Administration and enforcement of this code shall be governed by applicable provisions of Chapter 1 of the International Building Code as amended and adopted by the Village.

**CHAPTER 3
BUILDING PLANNING**

SECTION R301 - DESIGN CRITERIA

TABLE R301.2(1) CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA, is modified to read as follows:

**TABLE R301.2(1)
Climatic and Geographic Design Criteria**

Ground snow load: 30 psf
Wind Design Speed: 90 mph
Topographic effects: No
Seismic Design Category: B
Weathering: Severe
Frost depth line: 42 inches
Termites: Moderate to heavy
Winter design temperature: -4° F, 97.5%
Summer design temperature: 89° F Dry Bulb, 2.5%; 76° F Wet Bulb, 2.5%
Ice barrier underlayment required: Yes
Flood Hazards: No
Air freezing index: 1543 (°F-Days)
Annual mean temperature: 49.4 °F
Heating degree days (HDD): 6,155
Cooling degree days (CDD): 942
Climate zone: 5A
Heating Maximum: 72° F
Cooling Minimum: 75° F
100-Year hourly rainfall rate: 4 inches

TABLE R301.5 MINIMUM UNIFORMLY DISTRIBUTED LIVE LOADS, is hereby modified to include the following:

TABLE R301.5

Minimum Uniformly Distributed Live Loads, in pounds per square foot

USE: Balconies (exterior) and decks

LIVE LOAD: 15, applied laterally and parallel to adjoining main building exterior wall on all horizontal occupiable surfaces, including, but not limited to built-in seating areas, stairs and walking surfaces

SECTION R302 – FIRE-RESISTANT CONSTRUCTION

Section R302.1 Exterior walls. Construction, projections, openings and penetrations of exterior walls of dwellings and accessory buildings shall comply with Table R302.1.

Exceptions:

1. Walls, projections, openings or penetrations in walls perpendicular to the line used to determine the fire separation distance;
2. Existing exterior walls of dwellings and accessory structures, located on the same lot and projections there from, which are within the minimum fire separation distance required between two structures on the same lot shall not be required to comply with the minimum fire-resistance rating;
3. Detached tool sheds and storage sheds, playhouses and similar structures exempted from permits are not required to provide wall protection based on location on the lot. Projections beyond the exterior wall shall not extend over the lot line;
4. Detached garages accessory to a dwelling located within 2 feet (610 mm) of a lot line are permitted to have roof eave projections not exceeding 4 inches (102 mm); and
5. Foundation vents installed in compliance with this code are permitted.

**TABLE R302.1
EXTERIOR WALLS**

Exterior Wall Element / Minimum Fire-resistance Rating / Minimum Fire Separation Distance

Walls / Fire-resistance rated / 1-hour, tested in accordance with ASTM E 119 or UL 263 with exposure from both sides / <5 feet < 3 feet

Walls / Not fire-resistance rated / 0-hours / ≥5 feet ≥ 3 feet

Projections / Fire-resistance rated / 2-hours, underside surfaces / < 1 foot

Projections / Fire-resistance rated / 1-hour, underside surfaces / ≥ 2 feet to 5 feet ≥ 1 foot and < 2 feet

Projections / Fire-resistance rated / 1-hour, underside surfaces / Fire retardant treated framing and decking / < 2 feet

Projections / Not Fire-resistance rated / 0-hours / 5 feet ≥ 2 feet

Openings in walls / Not allowed / Not applicable / < 3 feet

Openings in walls / 25% maximum of wall area / 0-hours / 3 feet ≥ 3 feet and < 5 feet

Openings in walls / Unlimited / 0-hours / 5 feet ≥ 5 feet

Penetrations / All / Comply with Section R302.4 / < 5 feet

Penetrations / All / ~~None required~~ 0-hours / ≥ 5 feet

Section R302.2 Townhouses. Each townhouse shall be considered a separate building and shall be separated by from other townhouses by a minimum 2-hour fire-resistance-rated fire wall assemblies meeting the requirements of Section R302.1 for exterior walls assembly. The cavities of such walls shall not contain plumbing or mechanical equipment, ducts or vents.

Section R302.12 Draftstopping. In combustible construction where there is usable space both above and below the concealed space of a floor/ceiling assembly, draftstops shall be installed so that the area of the concealed space does not exceed 1,000 500 square feet (92.9 m²) or 25 feet in any horizontal direction. Draftstopping shall divide the concealed space into approximately equal areas. ~~Where the assembly is enclosed by a floor membrane above and a ceiling membrane below, draftstopping shall be provided in floor/ceiling assemblies under the following circumstances:~~

- ~~1. Ceiling is suspended under the floor framing.~~
- ~~2. Floor framing is constructed of truss type open web or perforated members.~~

Exception: Draftstopping is not required in buildings equipped throughout with an automatic sprinkler system in accordance with Section P2904. NFPA 13, NFPA 13R or NFPA 13D as approved by the building official.

SECTION R311 – MEANS OF EGRESS

Section R311.1.1 Occupied Roofs. For purpose of means of egress only, roofs that are intended for private or public use occupiable space (uses other than general maintenance or repair) shall have two separate means of egress. For purpose of this Section only, exterior spiral stairways constructed in accordance with Section 1009.9 may be provided as a second means of egress from an occupiable roof area.

Exceptions:

1. Buildings provided throughout with automatic sprinkler protection;
2. Buildings with parapets or roof edges no higher than 30 feet above the level of fire department access; and
3. Buildings with windows or other exterior wall openings leading directly to the occupied roof area which have a sill height no higher than 30 feet above the level of fire department access.

SECTION R313 – AUTOMATIC FIRE SPRINKLER SYSTEMS

Section R313.2 One- and two-family dwellings automatic fire systems. Effective January 1, 2011, an automatic residential fire sprinkler system shall be installed in new construction of one-and two-family dwellings. Dwellings where more than 50% of the original structure above the foundation level is demolished and rebuilt shall be provided with an automatic fire sprinkler system throughout the dwelling.

Exception: An automatic residential fire sprinkler system shall not be required for additions or alterations to existing one- and two-family residential buildings that are not already provided with an automatic residential sprinkler system.

SECTION R314 – SMOKE ALARMS

Section R314.1 Smoke detection and notification. All smoke alarms shall be listed in accordance with UL 217 and installed in accordance with the provisions of this code and the household fire warning equipment provisions of NFPA 72. The alarm system shall not be dependent upon a subscription-based service to provide the level of notification intended by the provisions of this code. No provision of this code shall be construed to override any more-restrictive provision of other applicable laws and ordinances.

Section R314.3 Location. In new construction or where renovation or addition work requiring a permit occurs in existing buildings, smoke alarms shall be installed in the following locations:

1. In each sleeping room;

2. In open floor plan areas, within 15 feet of the location used for sleeping purposes;
- 2 3. Outside each separate sleeping area, within 15 feet of and in the immediate vicinity of the door to every bedroom;
- 3 4. On each additional story of the dwelling, including basements and habitable attics 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 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; and
5. In occupiable spaces of accessory structures, other than those used for vehicle or general storage.

When more than one smoke alarm is required to be installed within an individual dwelling unit the alarm devices shall be interconnected in such a manner that the activation of one alarm will activate all of the alarms in the individual dwelling unit.

When occupiable space, other than that used for vehicle or general storage, is constructed or altered in an accessory structure, an approved smoke alarm shall be installed on each level of the structure. The smoke alarm(s) shall be hard-wire connected to a smoke alarm located within the primary structure on site.

SECTION R315 - CARBON MONOXIDE ALARMS

Section R315.1 Carbon monoxide alarms. For new construction, an approved carbon monoxide alarm shall be installed outside of each separate sleeping area, ~~in the immediate vicinity of the bedrooms in dwelling units within which fuel-fired appliances are installed and in dwelling units that have attached garages~~ within 15 feet of the bedroom door, or in the case of an open floor plan, within 15 feet of the location used for sleeping purposes.

Section R315.2 Where required in existing dwellings. Where work requiring a permit occurs in existing dwellings ~~that have attached garages or in existing dwellings within which fuel-fired appliances exist,~~ carbon monoxide alarms shall be provided in accordance with Section R315.1 an approved carbon monoxide alarm shall be installed outside of each separate sleeping area within the building, within 15 feet of the bedroom door, or in the case of an open floor plan, within 15 feet of the location used for sleeping purposes.

Section R315.3 Alarm requirements. ~~Single station carbon monoxide alarms shall be listed as complying with UL 2034 and shall be installed in accordance with this code and the manufacturer's installation instructions.~~ Where required in accessory structures. Where occupiable space is constructed or altered in an accessory structure an approved carbon monoxide alarm shall be installed in each occupiable space other than space used for

vehicle or general storage. The carbon monoxide alarm(s) shall be hard-wire connected to a carbon monoxide alarm located within the primary structure on site.

~~Section R315.3~~ **Section R315.4 Alarm requirements.** Single station carbon monoxide alarms shall be listed as complying with UL 2034 and shall be installed in accordance with this code and the manufacturer's installation instructions. The alarm system shall not be dependent upon a subscription-based service to provide the level of notification intended by the provisions of this code. No provision of this code shall be construed to override any more-restrictive provision contained in any other law or ordinance.

SECTION R321 - ELEVATORS AND PLATFORM LIFTS

Section R321.1 Elevators. Where provided, passenger elevators, limited-use/limited application elevators or private residence elevators shall conform to the current provisions of the State of Illinois Safety Code for Elevators and Escalators. Codes and Standards for conveyances.

Section R321.2 Platform lifts. Where provided, platform lifts shall comply with ASME A18.1 conform to the current provisions of the State of Illinois Safety Codes and Standards for conveyances.

SECTION R324 TREE HOUSES is added as follows:

SECTION R324 - TREE HOUSES

Section R324.1 General. This section applies to the construction of structures constructed in or around trees.

Section R324.1.1 Definitions: For purposes of this Section, the following words and terms shall have the meanings stated below.

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

TREE HOUSE: A structure constructed around or attached to the trunk or branches of a tree with partial or fully enclosing guards or walls and/or roof, and is occupied for recreational purposes only.

Section R324.1.2 Limitation of location. The construction of tree houses and decks that are built around or supported by a tree shall be subject to the following limitations on site:

1. No tree house or deck that is built around or supported by a tree shall be permitted to be constructed less than three (3) feet from any property line;

2. No deck, treehouse or other structure shall be permitted to be constructed in or around any tree on public property;
3. No deck, treehouse or other structure shall be permitted to be constructed in or around and tree through which a utility line passes or could pass through upon continued growth of the tree; and
4. A treehouse shall be surrounded by a barrier similar in construction to that required for swimming pools, spas and hot tubs. The provisions of Appendix G, SWIMMING POOLS, SPAS AND HOT TUBS, Section AG105.2, items 1 through 8 inclusive, with changing "swimming pool" to "treehouse" and deleting the last two sentences of item 1 shall apply.

Section R324.1.3 Limitation of use. No treehouse or deck that is built around or supported by a tree shall be used for storage.

Section R324.1.4 Design. Due to the continued growth of trees and their dynamic movement under wind loading, mechanical, electrical and plumbing facilities are not permitted to service any structure supported by a tree.

Section R324.1.4.1 Design documents. Design documents that are prepared, signed and sealed by a licensed architect or structural engineer shall be submitted for review and approval for any of the following projects. A structural calculation of the lateral wind load shall be submitted and the method of transferring the lateral load to the tree or ground shall be clearly detailed. No provision of this section shall be construed to override any requirement regarding the construction and permitting of decks as specified elsewhere in this code.

1. Construction or modification of a tree house of any size that is vertically supported wholly or in part by any tree;
2. Construction or modification of a tree house of any size that is constructed around a tree but not attached thereto. The minimum required distance between the tree and structure to allow for future tree growth and movement of the tree must be identified on the drawing;
3. Construction or modification of a deck of any height that is supported wholly or in part by any tree; and
4. Construction or modification of a deck over 6 feet in height above grade level that is constructed around a tree but not attached thereto. The minimum required distance between the tree and structure to allow for future tree growth and movement of the tree must be identified on the drawing.

Section R324.1.5 Condition of tree. For all projects for which a tree is relied upon to support a structure, a written report from an International Society of Arboriculture (ISA) certified arborist shall also be submitted which:

1. Describes the condition of the tree for structural integrity and overall health;
2. Offers the arborist's opinion on the ability of the tree to support the anticipated structure loads; and
3. Recommends fastener types based on the tree condition and proposed structure.

SECTION R325 SAFEGUARDS DURING CONSTRUCTION is added as follows:

SECTION R325 - SAFEGUARDS DURING CONSTRUCTION

Section R325.1 Safeguards during construction. Safety measures shall be provided in accordance with applicable provisions of this code, CHAPTER 33 SAFEGUARDS DURING CONSTRUCTION of the International Building Code as amended and adopted by the Village, and applicable laws.

CHAPTER 4 FOUNDATIONS

SECTION R401 - GENERAL

Section R401.4.1 Geotechnical evaluation. ~~In lieu of a complete geotechnical evaluation, the load-bearing values in Table R401.4.1 shall be assumed. Unless proven otherwise by submittal of a complete geotechnical soils evaluation of the soils at the site, the maximum load-bearing capacity of foundation materials shall be assumed to be 1,500 pounds per square foot. Where the building official determines that in-place soils with an allowable bearing capacity of less than 1,500 pounds per square foot are likely to be present at the site, the allowable bearing capacity shall be determined by a geotechnical soils evaluation.~~

TABLE R401.4.1, shall be deleted in its entirety.

SECTION R403 - MATERIALS

Section R403.1.4 Minimum depth. All exterior footings shall be placed at least ~~12~~ 14 inches (305 mm) below the undisturbed ground surface. Where applicable, the depth of footings shall also conform to Sections R403.1.4.1 through R403.1.4.2.

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

1. Extended below the frost line specified in Table R301.2.(1);
2. Constructing in accordance with Section R403.3;
3. Constructing in accordance with ASCE 32; or
4. Erected on solid rock.

Exceptions:

- ~~1. Protection of freestanding accessory structures with an area of 600 square feet (56 m²) or less, of light-frame construction, with an eave height of 10 feet (3048 mm) or less shall not be required.~~
- ~~2. Protection of freestanding accessory structures with an area of 400 square feet (37 m²) or less, of other than light-frame construction, with an eave height of 10 feet (3048 mm) or less shall not be required.~~
- ~~3. Decks not supported by a dwelling need not be provided with footings that extend below the frost line.~~

Exceptions: Free-standing accessory structures meeting all the following conditions shall not be required to be protected:

1. Total building perimeter area is 600 square feet or less for light-frame construction or 400 square feet or less for other than light-frame construction;
2. Building not higher than 1-story and eave height not higher than 10 feet;
3. Building with attic space clear headroom less than 80 inches in height. Higher clear headroom is permitted where the total floor area of the attic space with clear headroom greater than 80 inches occurs over an area less than 70 square feet;
4. Building envelope is not constructed with brittle materials such as masonry, stucco, EIFS or similar materials;
5. Any overall exterior wall line dimension does not exceed 24 feet; and
6. Where the accessory structure is not connected to a plumbing sewer line.

Section R403.1.9 Minimum reinforcement for slabs-on-ground with turned down footings. Slabs-on-ground with turned down footings shall have a minimum of one No. 4 bar at the top and bottom of the footing. Where the slab is not cast monolithically with the footing, No. 3 or larger vertical dowels with standards hooks on each end shall be provided in accordance with Figure R403.1.3.2. Standard hooks shall comply with Section R611.5.4.5.

Section R403.1.10 Minimum reinforcement for slabs-on-ground with interior thickened slabs. Slabs-on-ground with interior thickened slabs shall have a minimum of two No. 4 bars set in and parallel with the direction of the thickened portion of the slab.

CHAPTER 5 FLOORS

SECTION R502 - WOOD FLOOR FRAMING

Section R502.1.8 Exterior wood structural members. Structural members exposed to the weather shall be of single piece construction unless the individual sections that comprise the composite member are separated by permanently installed spacers to provide air ventilation between the sections.

Section R502.3 Allowable joist spans. With the exception of all grades of Southern Pine lumber species, allowable spans for floor joists shall be accordance with Table R502.3.1(1) and R502.3.1(2). For all grades of Southern Pine Lumber, the allowable spans for floor joists shall be determined from the current amendment to the International Residential Code as published by the American Wood Council. For other grades and/or species and for other loading conditions, refer to the AF&PA Span Tables for Joists and Rafters.

Section R502.14 Protection of prefabricated and cold-formed structural members. When there is usable space above a floor/ceiling assembly and the framing members are prefabricated wood I-joists, wood trusses, cold-formed steel joists or similar construction, the assembly shall be separated from the space below by not less than one layer of 5/8-inch Type X gypsum board, taped and sealed with joint compound, or approved equivalent, applied to the bottom of the assembly.

CHAPTER 8 ROOF-CEILING CONSTRUCTION

SECTION R802 - WOOD ROOF FRAMING

Section R802.4 Allowable ceiling joist spans. With the exception of all grades of Southern Pine lumber species, allowable spans for ceiling joists shall be in accordance with Table R802.4(1) and R802.4(2). For all grades of Southern Pine Lumber, the allowable spans for ceiling joists shall be determined from the current amendment to the International Residential Code as published by the American Wood Council. For other grades and/or species and for other loading conditions, refer to the AF&PA Span Tables for Joists and Rafters.

Section R802.5 Allowable rafter spans. With the exception of all grades of Southern Pine lumber species, allowable spans for rafters shall be accordance with Table R802.5.1(1)

through R802.5.1(8). For all grades of Southern Pine Lumber, the allowable spans for rafters shall be determined from the current amendment to the International Residential Code as published by the American Wood Council. For other grades and/or species and for other loading conditions, refer to the AF&PA Span Tables for Joists and Rafters. The span of each rafter shall be measured along the horizontal projection of the rafter.

CHAPTER 9 ROOF ASSEMBLIES

SECTION R905 - REQUIREMENTS FOR ROOF COVERINGS

Section R905.14 Sprayed polyurethane foam roofing, Section R905.14.1 Slope, Section R905.14.2 Material standards, Section R905.14.3 and Section R905.14.4, are deleted in their entirety.

CHAPTER 11 ENERGY EFFICIENCY

Chapter 11 - ENERGY EFFICIENCY, is deleted in its entirety.

CHAPTER 13 GENERAL MECHANICAL SYSTEM REQUIREMENTS

SECTION M1303 - LABELING OF APPLIANCES

Section M1303.1.1 Manufacturer's data sheets. In lieu of providing a label as required by Section M1303.1 the manufacturer's product data sheets may be provided in a permanent protective sleeve located on or near the appliance.

SECTION M1308 - MECHANICAL SYSTEMS INSTALLATION

Section M1308.2.1 Protection for concealed dryer vent ducts. In concealed locations where clothes dryer vent ducts are installed between studs, joists, rafters or similar members less than 1.5 inches from the nearest edge of the member, the duct shall be protected by shield plates. Protective steel shield plates having a minimum thickness of 0.0575-inch (No. 16 gage), shall cover the area of the width of the duct and shall extend a minimum of 2 inches past each side of the duct for the full length of the duct.

CHAPTER 14 HEATING AND COOLING EQUIPMENT

SECTION M1403 - HEAT PUMP EQUIPMENT

Section M1403.1. Heat Pumps. Where outside and/or return air ducts or openings are required by manufacturer specifications, The minimum unobstructed total area of the outside and return air ducts or openings to a heat pump shall not be less than 6 square

inches per 1,000 Btu/h (~~13 208~~ mm²kW) output rating or as indicated by the conditions of the listing of the heat pump. Electric heat pumps shall conform to UL 1995.

SECTION M1411 – HEATING AND COOLING EQUIPMENT

Section M1411.2 Refrigeration coils in warm-air furnaces. Where a cooling coil is located in the supply plenum of a warm-air furnace, the furnace blower shall be rated at not less than 0.5-inch water column (~~124 Pa~~) static pressure at the required airflow for the associated cooling coil unless the furnace is listed and labeled for use with a cooling coil. Cooling coils shall not be located upstream from heat exchangers unless listed and labeled for such use. Conversion of existing furnaces for use with cooling coils shall be permitted provided the furnace will operate within the temperature rise specified for the furnace.

Section M1411.3 Condensate disposal. Condensate from all cooling coils or evaporators shall be conveyed from the drain pan outlet to an approved place of disposal. Such piping shall maintain a minimum horizontal slope in the direction of discharge of not less than 1/8 unit vertical in 12 units horizontal (1-percent slope). Condensate drain lines or piping associated with permanently installed equipment or appliances shall not discharge into a street, alley or other areas where it would cause a nuisance to the exterior through the building envelope.

Section M1411.4 Auxiliary drain pan. Category IV condensing appliances shall have an auxiliary drain pan where damage to any building component will occur as a result of stoppage in the condensate drainage system. These pans shall be installed in accordance with the applicable provisions of Section M1411.3.

~~Exception: Fuel-fired appliances that automatically shut down operation in the event of a stoppage in the condensate drainage system.~~

CHAPTER 15 EXHAUST SYSTEMS

SECTION M1503 – RANGE HOODS

Section M1503.4.1 Makeup air temperature. The temperature differential between makeup air and the air in the conditioned space shall not exceed 10°F except where the added heating and cooling loads of the makeup air do not exceed the capacity of the HVAC system.

CHAPTER 16 DUCT SYSTEMS

SECTION M1601 – DUCT CONSTRUCTION

Section M1601.4.1 Joints and seams, is modified to add the following text:

Unlisted duct tape is not permitted as a sealant on any ductwork.

CHAPTER 18
CHIMNEYS AND VENTS

Section M1806 FLUE LINERS is added as follows:

Section M1806 Flue Liners

Section M1806.1 Retrofit flue liners. Retrofit flue liners shall conform to the manufacturer's written instructions, this code and Sections M1806.1.1 and M1806.1.2.

Section M1806.1.1 Flexible flue liners. Flexible flue liners shall conform to the manufacturer's written instructions, this code and Sections M1806.1.1.1 through M1806.1.1.3.

Section M1806.1.1.1 Attachment. Flexible flue liners shall be firmly attached at the top of the chimney in accordance with the manufacturer's written instructions. In the absence of manufacturer's written instructions, the upper termination of the liner shall be adequately supported and attached with a minimum of three corrosion-resistant fasteners made of material(s) compatible with all materials in contact thereto. The attachment(s) shall be adequate to support the entire flue liner in the chimney.

Section M1806.1.1.2 Transition between horizontal and vertical. Flexible flue liners shall not be utilized to transition between horizontal and vertical sections of the flue liner.

Section M1806.1.1.3 Prohibited installations. Flexible flue liners shall not be utilized in conjunction with solid fuel-burning appliances unless specifically listed and labeled for such use.

Section M1806.1.2 Chimney connection. A flue liner shall be connected by one of the methods prescribed below:

Section M1806.1.2.1 Capped Tee. A capped tee shall be installed at the bottom of the flue liner. The tee stem shall look out toward the appliance connection, the capped end shall be located at the bottom of the vertical length of the flue liner.

Section M1806.1.2.2 Elbow and capped tee. Where it is not possible to install a capped tee in conformance with Section M1806.1.2.1, the transition from the vertical length of flue liner to the horizontal length shall be made with a securely attached elbow. A cleanout shall be provided by installing a capped tee in the connector next to the chimney. The capped end of the tee stem shall face downward. The cap shall include provisions for drainage.

Section M1806.1.2.3 Other approved method. This section is not intended to prevent the use of any material, method of construction, design or system not specifically prescribed herein, provided that such construction, design or system has been approved by the code official as meeting the intent of this code.

**CHAPTER 23
SOLAR SYSTEMS**

SECTION M2301 - SOLAR ENERGY SYSTEMS

Section M2301.2 Installation. Installation of solar energy systems shall comply with Sections M2301.2.1 through M2301.2.9 and the 2008 National Electric Code as amended and adopted by the Village.

Section M2301.5 Backflow prevention. Connections from the potable water supply to solar energy systems shall comply with ~~Section P2902.5.5~~ the State of Illinois Plumbing Code.

**CHAPTER 24
FUEL GAS**

SECTION G2417 (406) - INSPECTION, TESTING AND PURGING

Section G2417.7 Purging. The text of Section G2417.7 is deleted and replaced with the following:

Section G2417.7 Purging requirements. The Ppurging of piping shall comply with be in accordance with Sections G2417.7.1 through G2417.7.3

Section G2417.7.1 Piping systems required to be purged outdoors. The purging of piping systems shall be in accordance with the provisions of Sections G2417.7.1.1 through G2417.7.1.4 where the piping system meets either of the following:

1. The design operating gas pressure is greater than 2 psig; and
2. The piping being purged contains one or more sections of pipe or tubing greater than 2 inches in nominal size and exceeding the lengths in Table G2417.7.1.1.

Section G2417.7.1.1 Removal from service. Where existing gas piping is opened, the section that is opened shall be isolated from the gas supply and the line pressure vented in accordance with Section G2417.7.1.3. Where gas piping meeting the criteria of Table G2417.7.1.1 is removed from service, the residual fuel gas in the piping shall be displaced with an inert gas.

TABLE G2417.7.1.1

Size and Length of Piping
Nominal Pipe Size (inches) / Length of Piping (feet)

2 ½ / >503 / >304 / >156 / >108 or larger / Any length

Section G2417.7.1.2 Placing in operation. Where gas piping containing air and meeting the criteria of Table G2417.7.1.1 is placed in operation, the air in the piping shall first be displaced with an inert gas. The inert gas shall then be displaced with fuel gas in accordance with Section G2417.7.1.3

Section G2417.7.1.3 Outdoor discharge of purged gases. The open end of a piping system being pressure vented or purged shall discharge directly to an outdoor location. Purging operations shall comply with all of the following requirements:

1. The point of discharge shall be controlled with a shutoff valve;
2. The point of discharge shall be located at least 10 feet from sources of ignition, at least 10 feet from building openings and at least 25 feet from mechanical air intake openings;
3. During discharge, the open point of discharge shall be continuously attended and monitored with a combustible gas indicator that complies with Section G2417.7.1.4;
4. Purging operations introducing fuel gas shall be stopped when 90% fuel gas by volume is detected within the pipe; and
5. Persons not involved in the purging operations shall be evacuated from all areas within 10 feet of the point of discharge.

Section G2417.7.1.4 Combustible gas indicator. The combustible gas indicator used during purging operations shall be listed and shall be calibrated in accordance with the manufacturer's instructions and recommended schedule. The combustible gas indicator used for pipe discharge monitoring shall numerically display a volume scale from 0% to 100% with a resolution of not greater than 1% increments.

Section G2417.7.2 Piping systems allowed to be purged indoors or outdoors. The purging of piping systems shall be in accordance with the provisions of Section G2417.7.2.1 where the piping system meets both of the following:

1. The design operating gas pressure is 2 psig or less; and
2. The piping being purged is constructed entirely from pipe or tubing of 2 inch nominal size or smaller, or larger size pipe or tubing with lengths shorter than specified in Table G2417.7.1.1.

Section G2417.7.2.1 Purging procedure. The piping system shall be purged in accordance with one or more of the following:

1. The piping shall be purged with fuel gas and shall discharge to the outdoors;
2. The piping shall be purged with fuel gas and shall discharge to the indoors or outdoors through an appliance burner not located in a combustion chamber. Such burner shall be provided with a continuous source of ignition;
3. The piping shall be purged with fuel gas and shall discharge to the indoors or outdoors through a burner that has a continuous source of ignition and that is designed for such purpose;
4. The piping shall be purged with fuel gas that is discharged to the indoors or outdoors, and the point of discharge shall be monitored with a listed combustible gas detector in accordance with G2417.7.1.2. Purging shall be stopped when fuel gas is detected; or
5. The piping shall be purged by the gas supplier in accordance with applicable written procedures.

Section G2417.7.2.2 Combustible gas detector. The combustible gas detector used during purging operations shall be listed and shall be calibrated or tested in accordance with the manufacturer's instructions and recommended schedule. The combustible gas detector used for pipe discharge monitoring shall indicate the presence of fuel gas.

Section G2417.7.3 Purging appliances and equipment. After the piping system has been placed in operation, appliances and equipment shall be purged before being placed into operation.

SECTION G2454 FLUE LINERS is added as follows:

SECTION G2454 FLUE LINERS

Section G2454.1 Retrofit flue liners. Retrofit flue liners shall conform to the manufacturer's written instructions, this code and Sections G2454.1.1 and G2454.1.2.

Section G2454.1.1 Flexible flue liners. Flexible flue liners shall conform to the manufacturer's written instructions, this code and Sections G2454.1.1.1 through G2454.1.1.3.

Section G2454.1.1.1 Attachment. Flexible flue liners shall be firmly attached at the top of the chimney in accordance with the manufacturer's written instructions. In the absence of manufacturer's written instructions, the upper termination of the liner shall be adequately supported and attached with a minimum of three corrosion-resistant fasteners

made of material(s) compatible with all materials in contact thereto. The attachment(s) shall be adequate to support the entire flue liner in the chimney.

Section G2454.1.1.2 Transition between horizontal and vertical. Flexible flue liners shall not be utilized to transition between horizontal and vertical sections of the flue liner.

Section G2454.1.1.3 Prohibited installations. Flexible flue liners shall not be utilized in conjunction with solid fuel-burning appliances unless specifically listed and labeled for such use.

Section G2454.1.2 Chimney connection. A flue liner shall be connected by one of the methods prescribed below:

Section G2454.1.2.1 Capped Tee. A capped tee shall be installed at the bottom of the flue liner. The tee stem shall look out toward the appliance connection, the capped end shall be located at the bottom of the vertical length of the flue liner.

Section G2454.1.2.2 Elbow and capped tee. Where it is not possible to install a capped tee in conformance with Section G2454.1.2.1, the transition from the vertical length of flue liner to the horizontal length shall be made with a securely attached elbow. A cleanout shall be provided by installing a capped tee in the connector next to the chimney. The capped end of the tee stem shall face downward. The cap shall include provisions for drainage.

Section G2454.1.2.3 Other approved method. This section is not intended to prevent the use of any material, method of construction, design or system not specifically prescribed herein, provided that such construction, design or system has been approved by the building official as meeting the intent of this code.

CHAPTER 25 PLUMBING ADMINISTRATION is deleted in its entirety.

CHAPTER 26 GENERAL PLUMBING REQUIREMENTS

SECTION P2601 - GENERAL

Section P2601.1 Scope. The provisions of this chapter shall govern the installation of plumbing not specifically covered in other chapters applicable to plumbing systems. The installation of plumbing, appliances, equipment and systems not addressed by this code shall comply with the applicable provisions of the International Plumbing Code. The provisions of the current edition of the State of Illinois Plumbing Code shall govern the erection, installation, alteration, repairs, relocation, replacement, addition to, use or maintenance of plumbing equipment and systems.

Section P2601.2 Connection. Plumbing fixtures, drains and appliances used to receive or discharge liquid wastes or sewage shall be connected to the sanitary drainage

~~system of the building or premises in accordance with the requirements of this code. This section shall not be construed to prevent indirect waste systems.~~ **Construction site restroom facilities.** For any temporary building or building under construction, that is not yet occupied for its intended purpose, temporary restroom facilities shall be provided for persons working on the construction site in accordance with applicable laws and ordinances.

Section P2601.3 Flood hazard area, is deleted in its entirety.

Sections P2602, Individual water supply and sewage disposal, through Section P2608 Materials evaluation and listing, inclusive, are deleted in their entirety.

Chapter 27 PLUMBING FIXTURES,
Chapter 28 WATER HEATERS,
Chapter 29 WATER SUPPLY AND DISTRIBUTION,
Chapter 30 SANITARY DRAINAGE,
Chapter 31 VENTS, and
Chapter 32 TRAPS are all deleted in their entirety.

CHAPTER 33 STORM DRAINAGE

Chapter 33 STORM DRAINAGE is deleted in its entirety and replaced with Chapter 11 of the International Plumbing Code appended to this code and re-titled **Chapter 33 STORM DRAINAGE.**

CHAPTER 34 GENERAL REQUIREMENTS

SECTION E3401 - GENERAL

~~Section E3401.1 Scope. The provisions of Chapters 34 through 43 shall establish the general scope of the electrical system and equipment requirements of this code. Chapters 34 through 43 cover those wiring methods and materials most commonly encountered in the construction of one and two-family dwellings and structures regulated by this code. Other wiring methods, materials and subject matter covered in the NFPA 70 are also allowed by this code. This Chapter governs the electrical components, equipment, and systems used in or on buildings, structures, and properties governed by this code. Electrical components, equipment, and systems shall be designed and constructed in accordance with the provisions of the National Electric Code, NFPA 70 as amended and adopted by the Village.~~

Sections E3401.2 Scope, E3401.3 Not covered and E3401.4 Additions and alterations, are deleted in their entirety.

SECTION E3402 BUILDING STRUCTURE PROTECTION, is deleted in its entirety.

SECTION E3403 - INSPECTION AND APPROVAL

Sections E3403.1 Approval and E3403.3 Listing and labeling, are deleted in their entirety.

Section E3403.2 Inspections Required. ~~New electrical work and parts of existing systems affected by new work or alterations shall be inspected by the building official to ensure compliance with the requirements of Chapters 34 through 43. Any electrical work performed where a permit is required to do the work shall be inspected by the building official to ensure compliance with this code. Any electrical work that will be concealed shall be inspected and approved before being concealed. Work inspected and approved shall not be modified without obtaining a subsequent approval after the modification. The building official may require any equipment, component, or panelboard, or access to these elements to be opened for inspection.~~

The building official may require any project related personnel to be on site for any inspection, including, but not limited to property owners, design professionals, general contractor and/or sub-contractor representatives or owners.

Safe access shall be provided to all areas required for inspection. The building official reserves the right to not perform any inspection where safe access is not provided, including but not necessarily limited to, trenches, ladders, temporary stairs, guardrails, areas requiring the removal of safety equipment such as boots or hard hats, and/or manholes or vaults. Where specialty safety equipment is required to perform an inspection, it shall be provided for the inspector to use for the inspection, by a responsible party to the construction project.

The property owner shall ultimately be responsible for assuring that all the required inspections are approved.

Sections E3404 - GENERAL EQUIPMENT REQUIREMENTS; E3405 - EQUIPEMENT LOCATION AND CLEARANCES; E3406 - ELECTRICAL CONDUCTORS AND CONNECTIONS, and E3407 CONDUCTOR AND TERMINAL IDENTIFICATION, are deleted in their entirety.

**Chapter 35 ELECTRICAL DEFINITIONS,
Chapter 36 SERVICES,
Chapter 37 BRANCH CIRCUIT AND FEEDER REQUIREMENTS,
Chapter 38 WIRING METHODS,
Chapter 39 POWER AND LIGHTING DISTRIBUTION,
Chapter 40 DEVICES AND LUMINAIRES,
Chapter 41 APPLICANCE INSTALLATION,
Chapter 42 SWIMMING POOLS, and
Chapter 43 CLASS 2 REMOTE-CONTROL, SIGNALING AND POWER-LIMITED CIRCUITS,**
are all deleted in their entirety.

APPENDIX F

RADON CONTROL METHODS

SECTION AF101 – SCOPE

~~Appendix F, Section AF101.1 General. This appendix contains requirements for new construction in jurisdictions where radon resistant construction is required. Where installed, radon control methods shall be in accordance with this Appendix.~~

~~Inclusion of this appendix by jurisdictions shall be determined through the use of locally available data and a determination of Zone 1 designation in Figure AF101.~~

APPENDIX J EXISTING BUILDINGS AND STRUCTURES

SECTION AJ102 – COMPLIANCE

Appendix J, Sections AJ102.10 and AJ102.11, are added as follows:

Section AJ102.10 Conversion into habitable space. When any area not previously approved or utilized as habitable space is converted into and/or utilized as habitable space, regardless of the amount of construction work done in this area, it shall be considered as reconstruction and shall be subject to the requirements of this Appendix and the provisions of section R310 of this code.

Section AJ102.11 Conversion into a sleeping room. When any area not previously approved or utilized as a sleeping room is converted into and/or utilized as a sleeping room, regardless of the amount of construction work that was or was not done in this conversion or change of utilization, it shall be subject to all requirements for new construction of a sleeping room as found in this code.

SECTION 2. IDENTIFICATION OF ORDINANCE WITH THE ILLINOIS CAPITAL DEVELOPMENT BOARD. This Ordinance shall be identified on the Internet by the Illinois Capital Development Board or any successor agency of the State of Illinois pursuant to Section 1-2-3.1 of the Illinois Municipal Code, 65 ILCS 5/1-2-3.1.

SECTION 3. SEVERABILITY AND REPEAL OF INCONSISTENT ORDINANCES. If any section, paragraph, clause or provision of this Ordinance shall be held invalid, the invalidity thereof shall not affect any of the other provisions of this Ordinance. All ordinances in conflict herewith are hereby repealed to the extent of such conflict.

SECTION 4. EFFECTIVE DATE. This ordinance shall be in full force and effect after its passage, approval and publication as required by law on January 1, 2015.

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ADOPTED this 6th day of October, 2014, pursuant to a roll call vote as follows:

Voting	Aye	Nay	Abstain	Absent
President Abu-Taleb	✓			
Trustee Barber	✓			
Trustee Brewer				✓
Trustee Lueck	✓			
Trustee Ott	✓			
Trustee Salzman	✓			
Trustee Tucker	✓			

APPROVED this 6th day of October, 2014.


Anan Abu-Taleb, Village President

ATTEST:


Teresa Powell, Village Clerk

Published in pamphlet form this 6th day of October, 2014.


Teresa Powell, Village Clerk