

Chapter 23  
**BUILDING CODES**

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**23.01 DEFINITIONS**

In addition to those terms defined in Appendix A of this Code, for purposes of this Chapter, any reference to Code Official and Building Official shall mean the Building Commissioner; any reference to a specific chapter, other than Chapter, shall mean the applicable chapter in the applicable building code; and any reference to a code, other than Code, shall mean that particular building code of that section.

**23.02 INTERNATIONAL RESIDENTIAL CODE/2006**

The International Residential Code, 2006 edition, and appendices F, G, J, and K (“Residential Code”), are hereby adopted by reference and made part of this Section, subject to modifications set forth herein, and shall be applicable to the Village.

**23.03 MODIFICATIONS TO THE RESIDENTIAL CODE** *Amended, 11-0-17*

The Residential Code shall be amended as follows:

1. Section R101.1 insert Village of Algonquin.

2. Section R105.1 shall be amended to read as follows:

**R105.1 Required.** Any owner or authorized agent who intends to construct, enlarge, alter, replace, repair, including the installation of roof coverings, siding, patios, decks, gazebos, porches, detached accessory buildings, sidewalk and fences, move, demolish, or change the occupancy of a building or structure, or replace any electrical gas, mechanical, or plumbing system, the installation of which is regulated by this code, or to cause any such work to be done, shall first make application to the Building Official and obtain the required permit.

3. Section R105.2 shall be amended to read as follows:

**R105.2 Work exempt from permit.** Permits shall not be required for the following. Exemption from the permit requirements of this code shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of this code or any other laws or ordinance of the Village.

Building:

1. Retaining walls that are not over four feet (1219 mm) in height measured from the bottom of the footing to the top of the wall, unless supporting a surcharge.
2. Painting, papering, tiling, carpeting, countertops, and similar finish work.
3. Swings and other playground equipment accessory to a one- or two-family dwelling.
4. Prefabricated storage containers less than 100 cubic feet in volume, accessory to a one- or two-family dwelling, located in the rear yard and outside any easements.

Electrical: No change.

Gas: No change.

Mechanical: No change.

4. Section R105.5 shall be amended to add:

The work authorized by permit shall be completed and a final inspection conducted within 180 days after its issuance.

Exceptions: The following work authorized by permit shall be completed and a final inspection conducted within one year after its issuance.

1. Single-family dwellings
2. Two-family dwellings
3. Townhouse dwellings
4. Dwelling unit additions and/or alterations

5. Section R106.1 shall be amended to read as follows:

**R106.1 Submittal documents.** Construction documents for new single-family dwellings, two-family dwellings, townhouse dwellings, duplex dwellings, additions to dwelling units above the first floor, modifications which alter the roof of a dwelling unit and alterations, repairs, expansion, additions, and/or modifications to a dwelling unit of a substantial scope as determined by the Building Official shall be sealed and signed by an Illinois licensed architect or structural engineer.

6. Section R106.2 shall be amended to read as follows:

**R106.2 Site plan.** The construction documents submitted with the permit application shall be accompanied by a plat of survey showing the size and location of new construction, existing structures, any floodplain or wetland areas, and easements on the site and distances from lot lines. A plat of survey submitted for the construction of a new single-family, two-family, duplex, or townhouse dwelling shall specify the top of foundation elevation proposed for the building based on the approved engineering plan for the subdivision in which the building will be located. In the event there is not an approved engineering plan for the subdivision in which the building will be located, the proposed top of foundation elevation shall be determined using best engineering practices.

7. Section R106.2.1 shall be amended to add the following:

**R106.2.1 As-built plan.** An as-built survey prepared by an Illinois licensed professional engineer or land surveyor shall be completed after the foundation for a single-family dwelling, two-family dwelling, duplex, or townhouse dwelling has been placed and submitted to the Village for review and approval. The as-built survey shall show the location of the foundation, distances from property lines, the proposed top of foundation elevation, and the actual top of foundation elevation. Construction past the first floor deck shall not continue until the as-built survey has been reviewed and approved by the Building Official.

8. Add a new Section R106.2.2, which shall read as follows:

**R106.2.2 Final as-built & grading plan.** A final as-built survey and grading plan prepared by an Illinois licensed professional engineer or land surveyor shall be completed after the construction of a single-family, two-family, duplex, or townhouse dwelling has been completed. The survey shall be submitted to the Village for review and approval prior to the issuance of a Certificate of Occupancy. The final as-built and grading plan shall indicate the location of all construction, site improvements, and final grading on the lot.

9. Section R112 shall be amended to read as follows:

**112.1 General.** In order to hear and decide appeals of orders, decisions, or determinations made by the Building Official relative to the application and interpretation of this code, an appeal may be made to the Village Board.

10. Section R115 shall be added, to read as follows:

## **R115 SITE REQUIREMENTS**

**R115.1 Construction site access.** Access to construction sites and lots shall be by means of a paved roadway(s) capable of supporting a vehicle weighing at least 85,000 pounds.

**R115.2 Street identification.** All streets and roadways leading to construction site(s) shall be identified by their name, on signs clearly visible from the right-of-way with characters not less than three inches in height.

**R115.3 Lot identification.** All construction sites and lots shall be identified by their address, on signs clearly visible from the right-of-way with numbers and letters not less than three inches in height. Once a structure is in place, the address shall be applied legibly to the portion of the structure that faces the right-of-way and remain in place throughout the construction process.

**R115.4 Roadway maintenance.** All roadways, streets, sidewalks, and bike paths shall remain free of mud/dirt and debris at all time.

**R115.5 Construction driveways.** The designated areas for driveways shall, at a minimum, be gravel or crushed stone from the back of the curb or end of the paved right-of-way up to the structure.

**R115.6 Sanitation facilities.** Approved portable sanitation facilities in sufficient quantities shall be provided and maintained on construction sites and located within 200 feet of construction activity.

11. Section R202: The following definition shall be added:

**DUPLEX (TWO-FAMILY DWELLING).** A building not more than three stories in height, consisting of two attached single-family dwelling units in which each unit extends from foundation to roof. Each unit has a separate means of egress and each unit has open space on three sides.

12. Table R301.2(1), insert the following:

|                                |   |
|--------------------------------|---|
| Ground Snow Load               | 30 psf  |
| Wind Speed (three second gust) | 90 mph  |
| Seismic Design Category        | 0.17/b  |
| Weathering                     | severe  |
| Frost Line Depth               | 42 inches minimum below grade                               |
| Termite                        | moderate to heavy   |
| Winter Design Temperature      | -4 degrees Fahrenheit                                       |
| Ice Barrier Underlayment       | required  |
| Flood Hazards                  | reference Flood Insurance Rate Map for Algonquin<br>11/2006 |
| Air Freezing Index             | 1745  |
| Mean Annual Temperature        | 47.8 degrees Fahrenheit                                     |

13. Table R301.5: Substitute the following line items:

| <b>USE</b>     | <b>LIVE LOAD</b> |
|----------------|------------------|
| Decks          | 60               |
| Sleeping rooms | 40               |

14. Table R301.7: Substitute the following line item:

| <b>STRUCTURAL MEMBER</b>     | <b>ALLOWABLE DEFLECTION</b> |
|------------------------------|-----------------------------|
| Floors and plastered ceiling | L/480                       |

15. Section R302.1, delete exceptions 1 and 2.

16. Section R305.1, exception 2 shall be amended to read as follows:

Ceilings in basements without habitable spaces shall have a minimum ceiling height of not less than 7 feet, 7½ inches measured from the underside of the floor joist to the top of the finished floor. Beams, girders, ducts, plumbing, or other obstructions may project within 6 feet, 4 inches of the finished floor.

17. Section R305.1, the following exception shall be added:

1. Ceilings in crawl spaces shall have a minimum ceiling height of not less than 36 inches measured from the underside of the floor joist to the top of the slush coat. Beams, girders, ducts, plumbing, or other obstructions may project within 24 inches of the slush coat.

18. Section R309.1 shall be amended to add the following:

Doors shall have a net clear opening of not less than 34 inches and be self-closing.

19. Section R309.2 shall be amended to read as follows:

**R309.2 Separation required.** All garages attached to a dwelling shall have 5/8-inch Type X gypsum board or equivalent applied to all walls and ceilings.

20. Add a new Section R309.7, which shall read as follows:

**R309.7 Garage exit.** Not less than one exit conforming to Section R311 shall be provided from any attached or detached garage.

21. Section R311.4.1 shall be amended to read as follows:

**R311.4.1 Exit door required.** Not less than two exit doors conforming to this Section shall be provided for each dwelling unit. The required exit doors shall provide for direct access from the habitable portions of the dwelling to the exterior, at grade without requiring travel through a garage. Access to habitable levels not having an exit in accordance with this Section shall be by a ramp in accordance with Section R311.6 or a stairway in accordance with Section R311.5.

22. Section 311.4.2, Door type and size, shall be amended to add the following:

The second required exit may be a sliding type door, with a net clear opening of not less than 32 inches.

23. Section 311.4.3 shall be amended to read as follows:

**R311.4.3 Landings at doors.** There shall be a floor or landing not less than 36 inches by 36 inches on each side of each exit door. The floor or landing at the exterior door shall not be more than 1.5 inches lower than the top of the threshold. The landing shall be permitted to have a slope not to exceed 0.25 units vertical in 12 units horizontal (2%).

24. Section R317.1 shall be amended to read as follows:

**R317.1 Duplex (Two-family dwellings).** Dwelling units in a duplex (two-family dwelling) shall be separated from each other by a noncombustible wall assembly with not less than a two-hour fire-resistance rating. Wall assemblies, other than masonry or concrete, shall be designed to UL U336, U337 or equivalent.

**Exception 2:** Dwelling units in a duplex (two-family dwelling) equipped throughout with an approved automatic sprinkler system installed in accordance with NFPA 13R shall be permitted to be separated from each other by a combustible wall assembly having not less than a one-hour fire-resistance rating.

25. Section R317.2 shall be amended to read as follows and add Exception 2:

**R317.2 Townhouses.** Each townhouse shall be considered a separate building and shall be separated by fire-resistance-rated wall assemblies meeting the requirements of Section R302 for exterior walls. Each townhouse dwelling unit shall be separated from each other by a noncombustible wall assembly with not less than a two-hour fire-resistance rating, wall assemblies other than masonry or concrete shall be designed in accordance with UL U336, U337 or equivalent.

**Exception 2:** Townhouse units equipped throughout with an approved automatic sprinkler system in accordance with NFPA 13R may be separated from each other by a combustible wall assembly with not less than a one-hour fire-resistance rating.

26. Section R401 shall be amended to read as follows:

**R401.4.** A soil test shall be conducted to determine the soil's characteristics in the ultimate bearing strata prior to the placement of footings for all one-family, duplex, two-family, and townhouse dwellings. Additionally, in areas likely to have expansive, compressive, shifting, or other unknown soil characteristics, a soil test shall be conducted prior to the placement of footings for additions to dwellings or detached accessory structures. These tests shall be made by an approved agency using an approved method. A copy of the soil report shall be submitted to the Community Development Department prior to the approval of the footing inspection.

27. Chapter 4: All references to wood foundations and rubble stone masonry foundations

shall be deleted.

28. Section 403.1 shall be amended to read as follows:

**R403.1 General.** All exterior walls for one-family, duplex, two-family, and townhouse dwellings, additions to dwelling units, and dwelling unit separation wall assemblies shall be supported in their entirety on a continuous concrete spread footing and foundation of sufficient design to accommodate all loads according to Section R301 and to transmit the resulting loads to the soil within the limitations as determined from the character of the soil. Footings shall be supported on undisturbed natural soils or engineered fill. Any structure attached to a dwelling unit containing any glazing including but not limited to glass, Lexan, Plexiglas, plastic, or other similar material shall be considered an addition and shall conform to the requirements of this Chapter.

**Exceptions:**

1. Exterior walls for one-family, duplex, two-family, and townhouse dwellings, additions to dwelling units, and dwelling unit separation wall assemblies may be supported in their entirety on a continuous concrete bank poured (trench) foundation not less than 16 inches in width, with the base of the foundation placed at or below the frost line.
2. Single-story additions to a dwelling unit with a total area of 400 square feet or less may be supported by a continuous concrete bank poured (trench) foundation not less than 12 inches in width, with the base of the foundation placed at or below the frost line with 24-inch #5 reinforcing bars doweled six inches into the existing foundation, 12 inches on center vertically, where the foundation for the addition abuts the existing foundation.
3. Decks, balconies, porches, and similar structures without a roof, attached to a dwelling unit, may be supported by a solid concrete pier not less than eight inches in diameter with the base of the pier placed at or below the frost line.
4. Decks, balconies, porches, screened rooms, and similar structures with a roof, attached to a dwelling unit, may be supported by a solid concrete pier not less than 12 inches in diameter with the base of the pier placed at or below the frost line. The exterior walls of any such addition supported by piers shall not be in-filled with any material other than insect screening and the framework necessary to support the screening, except a guard as required by Section R312.1.
5. Wood posts supporting decks, balconies, porches, screened rooms, and similar structures shall be pressure treated to prevent decay and shall not exceed the following lengths:
  - 4 x 4 nominal posts shall not exceed 6'-0" in total length.
  - 4 x 6 nominal posts shall not exceed 8'-0" in total length.
  - Posts in excess of 8'-0" in total length shall be minimum 6 x 6 nominal.
6. Exterior stairs having three or more risers shall have stringers pressure treated to

prevent decay and shall be supported by solid concrete piers not less than eight inches in diameter with the base of the pier placed at or below the frost line.

29. Section R403.1.1, Minimum size, shall be amended to add the following:

In no case shall the footing size be less than 16 inches in width and less than eight inches in thickness.

30. Section R404.1.2, Concrete foundation walls, shall be amended to add the following:

All foundation walls shall have not less than two continuous #4 reinforcing bars tied in place within 12 inches of the top and bottom of the wall and no splices shall be made within 18 inches of a corner.

31. Section R404.1.5 shall be amended to read as follows:

**R404.1.5 Foundation wall thickness based on walls supported.** The thickness of a concrete foundation wall shall not be less than the thickness of the wall or wall assembly supported, and in no case shall the foundation wall thickness be less than eight inches.

32. Section 405.2.3, Drainage system, shall be amended to add the following:

All basement window wells shall be provided with drainage consisting of a vertical drain pipe connected to the foundation drainage system with an approved "T"-type connector.

33. Section R407.3, Structural requirements, shall be amended to add the following:

The amount of exposed loose shims used to support a column or girder shall not exceed one inch in height.

34. Section R408.6, Finish grade, shall be amended to add the following:

The under-floor grade within a crawl space shall be covered with an approved vapor barrier and a slush-coat of concrete not less than two inches thick.

35. Section R502.3.1 shall be amended to read as follows and delete Table R502.3.1(1):

**R502.3.1 Sleeping areas and attic joists.** Table R502.3.1(2) shall be used to determine the maximum allowable span of floor joists that support sleeping areas and attics that are accessed by means of a fixed stairway in accordance with Section R311.5, provided that the design live load does not exceed 40 psf and the design dead load does not exceed 20 psf. The allowable span of ceiling joists that support attics used for limited or no storage shall be determined in accordance with Section R802.4.

36. Section R502.3.3 shall be amended to add the following:

**R502.3.3.1 Exterior deck cantilevers.** Joist cantilever spans on exterior decks shall not exceed 300 percent of the nominal depth of the joist. Girder cantilever spans on exterior decks shall not exceed 150 percent of the nominal depth of the girder.

II. Section R504 shall be deleted in its entirety and all references to Pressure Preservatively Treated-Wood Floors On Ground shall be deleted.

37. Section R506.2.2 shall be amended to read as follows and add Section R506.2.2.1:

**R506.2.2 Base.** A base course not less than four inches thick consisting of a compactible gravel aggregate, such as CA-6 or equivalent, shall be placed on the prepared sub-grade of any slab on grade, not confined on all edges by a footing, foundation, or other permanent structure, and compacted to not less than 95 percent modified proctor density. Any slab on grade confined on all edges may use a four-inch minimum base course of clean graded sand, gravel, crushed stone, or washed stone.

**R506.2.2.1 Slab reinforcement.** Two continuous #4 reinforcing bars shall be placed mid-slab the entire length of all service walks and doweled six inches into abutting stoops. Two continuous #4 reinforcing bars shall be placed mid-slab in any portion of a public walk which crosses over a backfilled excavation.

Six-inch by six-inch #10 welded wire fabric shall be placed in the top one-third of all basement slabs, garage slabs, concrete driveways, and concrete patios with more than 100 square feet of total area.

38. Section R506.2.3, Vapor retarder, exception 1, shall be amended to read as follows:

**Exception:** 1. From detached garages, detached utility buildings, and other detached unheated accessory structures.

39. Section 602.10 shall be amended to read as follows:

**Wall bracing.** All exterior walls shall be braced with wood structural panel sheathing with a nominal thickness of not less than one-half inch, located at each end of wall, and at least every 25 feet on center, installed in accordance with Section R602.10.5.

**Exception:** Noncombustible dwelling unit separation wall assemblies may use diagonal metal bracing in accordance with listed manufacturer instructions.

40. Section R703.1, Exterior coverings general, shall be amended to add the following:

Any enclosed, attached, or detached accessory structure constructed of canvas, nylon, plastic, or other pliable material supported by air, cables, tubing, metal, or wood framework shall be prohibited. The provisions of this Section shall not apply to awnings or canopies which provide weather protection or decoration.

41. Section R703.2, Water-restrictive barrier: delete exceptions 2 and 3.

42. Section R801.3, Roof drainage, shall be amended to read as follows:

**R801.3 Roof drainage.** All dwellings shall have a controlled method of water disposal from roofs that will collect and discharge all roof drainage to the ground surface at least

two feet from foundation walls or to an approved drainage system. Upper roof surfaces shall not be permitted to discharge onto lower roof surfaces. In areas where expansive or collapsible soils are known to exist, all dwellings shall have a controlled method of water disposal from roofs that will collect and discharge drainage to the ground surface at least five feet from foundation walls or to an approved drainage system.

43. Section N1101.2, Compliance, shall be amended to add the following:

The climate zone for the Village is 5A.

44. Section M1602.1, Return air, shall be amended to read as follows:

**M1602.1 Return air.** Return air shall be taken from every habitable room in a dwelling. Dilution of return air with outside air shall not be permitted.

45. The following chapters shall be deleted in their entirety:

Chapter 25, Plumbing Administration  
Chapter 26, General Plumbing Requirements  
Chapter 27, Plumbing Fixtures  
Chapter 28, Water Heaters  
Chapter 29, Water Supply and Distribution  
Chapter 30, Sanitary Drainage  
Chapter 31, Vents  
Chapter 32, Traps  
Chapter 33, Electrical General Requirements  
Chapter 34, Electrical Definitions  
Chapter 35, Services  
Chapter 36, Branch Circuits and Feeder Requirements  
Chapter 37, Wiring Methods  
Chapter 38, Power and Lighting Distribution  
Chapter 39, Devices and Luminaries  
Chapter 40, Appliance Installation  
Chapter 41, Swimming Pools  
Chapter 42, Class2 Remote-Control, Signaling and Power-Limiting Circuits

46. All plumbing installations, materials, and fixtures shall comply with the Illinois State Plumbing Code, 2004 edition and adopted amendments.
47. All electrical installations, materials, fixtures, and devices shall comply with the National Electrical Code, 2002 edition and adopted amendments.
48. Appendix G, Swimming Pools, Spas, and Hot Tubs, Section AG105.2, shall be amended as follows:
1. The top of the barrier shall be at least 48 inches above grade measured on the side of the barrier which faces away from the swimming pool. The maximum vertical clearance between grade and the bottom of the barrier shall be two inches measured on the side of the barrier which faces away from the swimming pool.

2. No change.
3. No change.
4. No change.
5. No change.
6. No change.
7. No change.
9. No change.
10. Where an above-ground pool structure is used as a barrier, an additional barrier shall be mounted on top of the pool structure. The maximum vertical clearance between the top of the pool structure and the bottom of the barrier shall be 4 inches. The minimum vertical height of the barrier above the top of the pool shall be 18 inches. Where the barrier is mounted on top of the pool structure and the means of access is a ladder or steps:
  - 10.1 The ladder or steps shall be designed and manufactured to meet the barrier requirements of Section AG105.2, items 1 through 8. When the ladder or steps are removed, any opening created shall not allow the passage of a 4-inch diameter (102 mm) sphere; or
  - 10.2 The ladder or steps shall be surrounded by a barrier which meets the requirements of Section AG105.2, items 1 through 9. When the ladder or steps are removed, any opening created shall not allow the passage of a 4-inch diameter (102 mm) sphere.

#### 23.04 INTERNATIONAL BUILDING CODE/2006

The International Building Code, 2006 edition, (“Building Code”) is hereby adopted by reference and made part of this Section, subject to the modifications set forth herein, and shall be applicable to the Village.

#### 23.05 MODIFICATIONS TO THE BUILDING CODE *Amended, 11-O-17*

The Building Code shall be amended as follows:

1. Section 101.1, insert Village of Algonquin
2. Section 101.4.4 shall be amended to read as follows:
 

**101.4.4 Plumbing.** The provisions of the Illinois State Plumbing Code, 2004 edition, as amended by the Village, shall apply to the installation, alteration, repair, and replacement of plumbing systems, including equipment, appliances, fixtures, fittings, and appurtenances.
3. Section 105.1, Required, shall be amended to read as follows:
 

**105.1 Required.** Any owner or authorized agent who intends to construct, enlarge, alter, repair, move, demolish, or change the occupancy of a building or structure, or to erect, install, enlarge, alter, repair, remove, convert, or replace any electrical, gas, mechanical, plumbing, or fire protection system, the installation of which is regulated by this code, or

to cause any such work to be done, shall first make application to the Building Official and obtain the required permit.

4. Section 106.3, Examination of documents, shall be amended to read as follows:

**106.3 Examination of documents.** The Building Official shall examine or cause to be examined the accompanying construction documents and fire protection shop drawings and shall ascertain by such examinations whether the construction indicated and described is in accordance with the requirements of this Code and other pertinent laws or ordinances. The Building Official is authorized to submit the construction documents and fire protection shop drawings to a third-party plan review agency chosen by the Building Official. The property owner or owner's agent shall be responsible for the reimbursement to the Village of all fees associated with the review of documents by any third-party plan review agency, and all fees shall be paid in full prior to the issuance of the permit.

5. Section 109.4, Inspection agencies, shall be amended to read as follows:

**109.4 Inspection agencies.** The Building Official is authorized to accept reports of approved inspection agencies, provided such agencies satisfy the requirements as to qualifications and reliability. The Building Official is authorized to engage a third-party inspection agency for inspections of a technical nature in addition to the inspections required in Section 1704. The property owner or the owner's agent shall be responsible for the reimbursement to the Village of all fees associated with inspections conducted by any third-party inspection agency and shall be paid in full prior to the issuance of a Certificate of Occupancy.

6. Section 112.1 shall be amended to read as follows:

**112.1 General.** In order to hear and decide appeals of order, decisions, or determinations made by the Building Official relative to the application and interpretation of this code, an appeal may be made to the Village Board.

7. Section 112.3, Qualifications, shall be deleted in its entirety.

8. Section 310.1, Residential Group R, shall be amended to add the following to R-2:

Buildings with more than two dwelling units where any portion of any individual dwelling unit does not extend from the foundation to the roof, regardless of egress arrangement, shall be classified as R-2.

9. Section 310.1, Residential Group R, shall be amended to add the following to R-3:

Buildings with not more than two dwelling units where any portion of any individual dwelling unit does not extend from the foundation to the roof, regardless of egress arrangement, shall be classified as R-3.

10. Section 310.2, Definitions, shall be amended to add the following definitions:

**DUPLEX (TWO-FAMILY DWELLING).** A building not more than three stories in

height, consisting of two single-family dwelling units, constructed in a group of two attached units in which each unit extends from the foundation to the roof with separate means of egress and with open space on three sides and shall comply with the International Residential Code in accordance with Section 101.2, Exception.

**MULTIPLE FAMILY DWELLING.** A building containing three or more dwelling units, in accordance with Section 310.1.

11. Table 508.2, Incidental Use Areas, shall be amended to add the following:

| <b>ROOM OR AREA</b>       | <b>SEPARATION</b> |
|---------------------------|-------------------|
| Fire sprinkler valve room | two hours         |
| Fire pump room            | two hours         |

12. Section 902, Definitions, shall be amended to add the following definition:

**HIGH-PILED COMBUSTIBLE STORAGE.** As defined in Section 2302 of the International Fire Code.

13. Section [F] 903.2 shall be amended to read as follows:

**[F] 903.2 Where required.** An approved automatic sprinkler system shall be provided throughout all new buildings and structures regardless of Group or fire area and in locations described in the Section.

14. Section [F] 903.2.1 shall be amended to read as follows:

**[F] 903.2.1. Group A.** An automatic sprinkler system shall be provided for in Group A-1 occupancies.

15. Section [F] 903.2.1.1 shall be amended to read as follows:

**[F] 903.2.1.1 Group A-1.** An automatic sprinkler system shall be provided for in Group A-1 occupancies.

16. Section [F] 903.2.1.2 shall be amended to read as follows:

**[F] 903.2.1.2 Group A-2.** An automatic sprinkler system shall be provided for in Group A-2 occupancies.

17. Section [F] 903.2.1.3 shall be amended to read as follows:

**[F] 903.2.1.3 Group A-3.** An automatic sprinkler system shall be provided for in Group A-3 occupancies.

**Exception:** Areas used exclusively as participant sports areas where the main floor area is located at the same level as exit discharge of the main entrance and exit.

18. Section [F] 903.2.1.4 shall be amended to read as follows:

**[F] 903.2.1.4 Group A-4.** An automatic sprinkler system shall be provided for in Group A-4 occupancies.

**Exception:** Areas used exclusively as participant sports areas where the main floor is located at the same level as exit discharge of the main entrance and exit.

19. Section [F] 903.2.1.5 shall be amended to read as follows:

**[F] 903.2.1.5 Group A-5.** An automatic sprinkler system shall be provided in all Group A-5 occupancies in the following areas: concession stands, retail areas, press boxes, and all other accessory use areas.

20. Section [F] 903.2.2 shall be amended to read as follows and the exception shall be deleted:

**[F] 903.2.2 Group E.** An automatic sprinkler system shall be provided in all Group E occupancies.

21. Section [F] 903.2.3 shall be amended to read as follows:

**[F] 903.2.3 Group F-1.** An automatic sprinkler system shall be provided throughout all buildings containing a Group F-1 occupancy.

22. Section [F] 903.2.3.1 shall be amended to read as follows:

**[F] 903.2.3.1 Woodworking operations.** An automatic sprinkler system shall be provided throughout all Group F-1 occupancies that contain woodworking operations.

23. Section [F] 903.2.4.3 shall be amended to read as follows:

**[F] 903.2.4.3 Pyroxylin plastics.** An automatic sprinkler system shall be provided throughout buildings where cellulose nitrate film or pyroxylin plastics are manufactured, stored, or handled.

24. Section [F] 903.2.6 shall be amended to read as follows:

**[F] 903.2.6 Group M.** An automatic sprinkler system shall be provided throughout buildings containing a Group M occupancy.

25. Section [F] 903.2.8 shall be amended to read as follows:

**[F] 903.2.8 Group S-1.** An automatic sprinkler system shall be provided throughout buildings containing a Group S-1 occupancy.

26. Section [F] 903.2.8.1 shall be amended to read as follows:

**[F] 903.2.8.1 Repair garages.** An automatic sprinkler system shall be provided throughout buildings used as repair garages in accordance with Section 406.

27. Section [F] 903.2.8.2 shall be amended to read as follows:
- [F] 903.2.8.2 Bulk storage of tires.** Buildings and structures used for the storage of tires shall be equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1
28. Section [F] 903.2.91 shall be amended to read as follows:
- [F] 903.2.9.1 Commercial parking garages.** An automatic sprinkler system shall be provided throughout buildings used for the storage of commercial trucks or busses.
29. Section [F] 903.2.10.1 shall be amended to read as follows:
- [F] 903.2.10.1 Stories and basements without openings.** An automatic sprinkler system shall be installed throughout every story or basement of all buildings.
30. Section [F] 903.2.10.3, Buildings over 55 feet in height, delete exception 3.
31. Section 903 shall be amended to add the following section:
- [F] 903.2.14 Group B.** An automatic sprinkler system shall be provided throughout buildings containing a Group B occupancy.
32. Section 903 shall be amended to add the following section:
- [F] 903.2.15 Group F-2.** An automatic sprinkler system shall be provided throughout buildings containing a Group F-2 occupancy.
33. Section 903 shall be amended to add the following section:
- [F] 903.2.16 Group U.** An automatic sprinkler system shall be provided throughout buildings containing a Group U occupancy.
- Exception:** Structures regulated by the International Residential Code in accordance with Section 101.2.
34. Section [F] 903.3.1.1, Exempt locations, delete 2, 3, and 4.
35. Section [F] 903.3.5, Water supplies, shall be amended to read as follows:
- [F] 903.5 Water Supplies.** Water supplies for automatic sprinkler systems shall comply with this Section and the standards referenced in Section 903.3.1. The potable water supply shall be protected against backflow in accordance with the requirements of the Illinois Plumbing Code and Chapter 6B of this Code. A minimum 10-pounds-per-square-inch safety factor shall be provided in the fire protection system hydraulic calculations. The system demand shall be a minimum of 10 pounds per square inch below the seasonal low water flow test supply. Hydrant water flow data used for the design of any sprinkler system shall be no more than one year old.

36. Section [F] 903.3.6, Hose threads, shall be amended to add the following sections:

**[F] 903.3.6.1 Algonquin–Lake in the Hills Fire Protection District.** The fire department connection on buildings constructed within the Algonquin-Lake in the Hills Fire Protection District shall be based on the fire protection system demand as follows:

1. 400–999 GPM: One four-inch locking Storz FDC with cap.
2. Greater than 1000 GPM: Two four-inch locking Storz FDC’s with caps. The FDC’s shall be remotely located on the building.

**[F] 903.3.6.2 Huntley Fire Protection District.** The fire department connection on buildings constructed within the Huntley Fire Protection District shall be a single five-inch locking Storz FDC with cap.

**[F] 903.3.6.3 Carpentersville Fire Protection District.** The fire department connection on buildings constructed within the Carpentersville Fire Protection District shall be one 2.5-inch x 2.5-inch x 4-inch NST double-clappered Siamese FDC and one four-inch locking Storz FDC with a check valve in the piping between the connections.

**[F] 903.3.7 Fire Department Connections.** Fire department connections shall be visible and unobstructed on a street front, parking lot, fire lane, or other accessible location approved by the Building Official and appropriate fire protection district. A fire hydrant shall be located within 100 feet of fire department connections. A blue weatherproof 75-candela exterior strobe light shall be installed on the exterior of the building above each fire department connection and shall be activated by water flow only.

37. Section 903 shall be amended to add the following section:

**[F] 903.3.8 Fire pump test header.** An outside test header shall be provided on all fire pump installations. An OS&Y control valve with a tamper switch shall be provided on all fire pump test headers.

38. Section 903 shall be amended to add the following section:

**[F] 903.3.9 Riser check valve.** Provide a check valve in each sprinkler riser.

39. Section 903 shall be amended to add the following section:

**[F] 903.3.10 Hydraulic placard information.** A reproduction of each hydraulic placard shall be included on the design drawings near the corresponding hydraulically calculated area.

40. Section 903 shall be amended to add the following section:

**[F] 903.3.11 Sprinkler room access.** Where fire sprinkler risers or fire pumps are located in a separate room, a minimum of a 36-inch side-swinging door complying with Section 715.4 shall be installed to provide direct access into the room from inside and

outside of the building. Where the fire sprinkler risers are not located in a separate room, a minimum of a 36-inch side-swinging door complying with Section 715.4 shall be installed in an exterior wall, in an approved location, to provide access to the vicinity of the sprinkler risers from the outside of the building. A sign shall be provided on the exterior of the door(s) with minimum four-inch high letters stating, "SPRINKLER CONTROL VALVES" and/or "FIRE PUMP ROOM," as applicable.

41. Section 903 shall be amended to add a new section that will read as follows:

**[F] 903.3.12 Thinwall pipe.** The use of XL thinwall sprinkler pipe shall not be permitted.

42. Section [F] 903.4, Sprinkler system monitoring and alarms, shall be amended to read as follows:

**[F] 903.4 Sprinkler system monitoring and alarms.** All valves controlling the water supply for automatic sprinkler systems, pumps, tanks, water levels and temperatures, critical air pressures, and water-flow switches, shall be electrically supervised by the building fire alarm system.

**Exceptions:** No change

43. Section [F] 903.4.1, Signals, shall be amended to add to read as follows:

**[F] Section 903.4.1 Signals.** Alarm, supervisory, and trouble signals shall be distinctly different and automatically transmitted by direct connections to the appropriate fire protection district communication/dispatch center.

44. Section [F] 903.4.2 shall be amended to read as follows:

**[F] 903.4.2 Alarms.** A fire alarm shall monitor all automatic sprinkler systems. Approved audible and visual devices shall be connected to every automatic sprinkler system. Such sprinkler water-flow alarm devices shall be activated by water flow equivalent to the flow of a single sprinkler of the smallest orifice size installed in the system. Actuation of the automatic sprinkler system shall actuate the building fire alarm system flow alarm, sprinkler bells, and water flow indicating appliances over the fire protection district direct connection. Visual alarm devices shall be arranged so the flashing light beam can be seen at the required level of intensity from all common use areas. Visual alarm appliances shall be provided as directed in Section [F] 907.9.1 and in restrooms. Audible alarms shall be arranged so the alarm can be heard in all areas of the building, as directed in Section [F] 907.9.2.

45. Section [F] 903.4.3 shall be amended to read as follows:

**[F] 903.4.3 Floor control valves.** Approved, supervised indicating floor control valves with water flow switches shall be provided at the point of connection to the riser on each floor in multiple story buildings, including all floor levels below grade.

46. Section [F] 903 shall be amended to add the following section:

**[F] 903.6. Yard Hydrants.** Fire hydrants shall be provided around the perimeter of a building in 300 foot increments.

47. Section [F] 905.3 shall be amended to read as follows:

**[F] 905.3. Required installations.** Class I standpipe systems shall be installed where required by Sections 905.3.1 through 905.3.7 and in locations indicated in Sections 905.4. Standpipe systems are permitted to be combined with automatic sprinkler systems unless otherwise noted.

**Exception:** Standpipe systems are not required in buildings and structures regulated by the International Residential Code in accordance with Section 101.2, Exception 1.

48. Section [F] 905.3.1 shall be amended to read as follows:

**[F] 905.3.1 Building height and area.** Class I standpipe systems shall be installed throughout all buildings and portions of buildings:

1. With more than two stories above the lowest level of fire department vehicle access.
2. With more than two stories below the highest level of fire department vehicle access.
3. Where there is a floor level located more than 30 feet above the lowest level of fire department vehicle access, including mezzanines.
4. Where there is a floor level located more than 30 feet below the highest level of fire department vehicle access, including mezzanines.
5. Where any portion of the building floor area, including mezzanines, is more than 400 feet of travel from the nearest point of fire department vehicle access.

49. Section [F] 905.3 shall be amended to add the following section:

**[F] 905.3.8 High-piled combustible storage.** Buildings or portions of buildings with high-piled combustible storage shall be equipped with a Class I automatic wet standpipe system. Standpipe hose connections shall be located in high-piled combustible storage areas where storage exceeds 12 feet in height. Hose connections shall be located at each door to the high-piled combustible storage area. Where the travel distance between hose connections exceeds 200 feet, the Building Official is authorized to require additional hose connections be provided in approved locations. The standpipe system shall be:

1. A separate riser piping system.
2. Hydraulically calculated for a minimum of 250 gallons per minute at 75 pounds per square inch to the most hydraulically remote fire hose valve.
3. Where system pressures exceed 100 pounds per square inch, a reduced pressure

field-adjustable type hose valve shall be provided.

50. Section [F] 905.4 shall be amended to add the following to the list of locations of Class I standpipe hose connections:

7. In Group A-1 and A-2 occupancies with occupant loads of more than 1,000, hose connections shall be located on each side of any stage, on each side of the rear of the auditorium, on each side of the balcony, and on each tier of dressing rooms.

51. Section [F] 905.4 shall be amended to add the following section:

**[F] 905.4.3 Hose connection threads.** Each Class I standpipe hose connection shall be equipped with a 2.5-inch NST male hose valve, with a removable 2.5-inch female to 1.5-inch male adapter, which shall be permanently chained to the hose connection.

52. Section [F] 905.5, Locations of Class II standpipe hose connections, shall be deleted in its entirety.

53. Section [F] 905.6, Locations of Class III standpipe hose connections, shall be deleted in its entirety.

54. Section [F] 907.1.2, Equipment, shall be amended to read as follows:

**[F] 907.1.2. Equipment.** All fire alarm systems shall be of the addressable type. Systems and their components shall be listed and approved for the purpose for which they are installed.

55. Section [F] 907.2, Where required, shall be amended to read as follows:

**[F] 907.2 Where required.** An approved manual, automatic, or manual and automatic fire alarm system installed in accordance with the provisions of this code and NFPA 72 shall be provided in accordance with Section 907.2.1 through 907.2.23, as amended, and provide occupant notification in accordance with Section 907.9. An approved manual fire alarm system shall be provided in all Groups. An approved automatic fire detection system installed in accordance with NFPA 72 shall be provided in all non-sprinklered Groups. Where automatic sprinkler protection, installed in accordance with Section 903.1.1 or 903.1.2, is provided and connected to the building fire alarm system, automatic heat detection required by this Section shall not be required. Devices, combinations 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. All fire alarm control panels of full function annunciator panels shall be installed within 10 feet of the main entrance or in a location approved by the fire protection district.

**Exception:** Buildings and structures regulated by the International Residential Code in accordance with Section 101.2, Exception 1.

56. Section [F] 907.2.1, Group A, delete the exception.

57. Section [F] 907.2.2, Group B, delete the exception.

58. Section [F] 907.2.3, Group E, delete exception 2.

59. Section [F] 907.2.4, Group F, delete the exception.

60. Section [F] 907.2.5, Group H, shall be amended to read as follows:

**[F] 907.2.5 Group H.** A manual fire alarm system shall be installed in accordance with NFPA 72 in all Group H occupancies. An automatic fire detection system shall be installed in accordance with NFPA 72 in all incidental use areas, all accessory use areas and any non-sprinklered room or area in a Group H occupancy in compliance with Section 903.3.1.1.1, Exception 1.

61. Section [F] 907.2.7, Group M, delete exception 2.

62. Section [F] 907.2.8.1, Manual fire alarm system, shall be amended to read as follows:

**[F] 907.2.8.1 Manual fire alarm system.** A manual fire alarm system shall be installed in accordance with NFPA 72 in all Group R-1 occupancies.

Delete Exceptions 1 and 2.

63. Section [F] 907.2.8.2, Automatic fire alarm system, shall be amended to read as follows:

**[F] 907.2.8.2 Automatic fire alarm system.** An automatic fire alarm system shall be installed in accordance with NFPA 72 in all Group R-1 interior common areas.

Delete: Exception.

64. Section [F] 907.2.9, Group R-2, shall be amended to read as follows:

**[F] 907.2.9 Group R-2.** A manual fire alarm system shall be installed in accordance with NFPA 72 in all Group R-2 common areas. An automatic fire detection system shall be installed in accordance with NFPA 72 in all Group R-2 common areas.

Delete Exceptions 1, 2, and 3

65. Section [F] 907.2.12, High-rise buildings, all exceptions shall be deleted.

66. Section [F] 907.5, Wiring, substitute National Electrical Code in place of ICC Electrical Code.

67. Section [F] 907.8, Zones, shall be amended to read as follows:

**[F] 907.8 Zones.** Each floor shall be zoned separately and a zone shall not exceed 22,500 square feet. The length of any zone shall not exceed 300 feet in any direction. Multi-

tenant buildings shall ring by tenant space.

68. Section [F] 907.8.2, High-rise buildings, shall be amended to read as follows:

**[F] 907.8.2 Zone by floor required.** A separate zone by floor shall be provided for each of the following types of alarm-initiating devices where provided.

1. Manual fire alarm boxes
2. Heat detectors
3. Smoke detectors
4. Sprinkler water-flow switches
5. Other suppression systems
6. Other fire detection devices

69. Section [F] 907.9.1.1, Public and common areas, shall be amended to read as follows:

**[F] 907.9.1.1 Public and common areas.** Visible alarm notification appliances shall be provided in public areas and common areas. A clear weatherproof 75-candela exterior strobe shall be installed on the exterior of all multi-tenant buildings over the main entrance to each tenant space, and shall be activated by the fire alarm devices within that tenant space only. A blue weatherproof 75-candela exterior strobe shall be installed on the exterior of the building above each fire department connection and shall be activated by water flow only.

70. Section [F] 907.13, Fire-extinguishing systems, shall be amended to read as follows:

**[F] 907.13 Fire-extinguishing systems.** Automatic fire-extinguishing systems shall be supervised by the building fire alarm system.

71. Section 1006.3, Illumination emergency power, shall be amended to add an additional location for emergency illumination, which shall read as follows:

6. All rooms containing building fire sprinkler riser(s), fire pump(s), and fire alarm control panel(s) shall be provided with emergency lighting.

72. Section 1019.1, Minimum number of exits, shall be amended to add the following section:

For the purposes of this Chapter, tenant spaces shall be provided with exits as required by Table 1015.1.

73. Section 1019.2, Buildings with one exit, shall be deleted in its entirety.

74. Section 1608.2, Ground snow loads, shall be amended to read as follows:

**1608.2 Ground snow loads.** A ground snow load of not less than 30 pounds per square foot shall be used in determining the design snow loads for roofs.

75. Section 1612.3, insert Village of Algonquin and January 1, 2006.

76. Section 1802.2, Foundations and soils investigations, shall be amended to add the following subsection, which shall read as follows:
- 1802.2.8 Soil Test.** A soil test shall be conducted to determine the soil's characteristics in the ultimate bearing strata prior to the placement of any footings. Additionally, in areas likely to have expansive, compressive, shifting, or other unknown soil characteristics, a soil test shall be conducted prior to the placement of footings for additions to dwellings or detached accessory structures. These tests shall be made by an approved agency using an approved method. A copy of the soil report shall be submitted to the Community Development Department prior to the approval of the footing inspection.
77. The following sections/chapter shall be deleted in their entirety:
- Section 1805.4.5 Timber footings  
Section 1805.4.6 Wood foundations
78. Chapter 29, Plumbing Systems and the Illinois State Plumbing Code shall govern the erection, installation, alterations, repairs, relocation, replacement, addition to, use, or maintenance of plumbing equipment and systems. Plumbing systems and equipment shall be constructed, installed, and maintained in accordance with the Illinois State Plumbing Code.
79. Section 3410.2, insert January 1, 1987.
80. Chapter 35, add the following to the list of NFPA Standards:
- All standards listed in Chapter 45 of the International Fire Code.
81. The following Section shall be added:
1. **Definitions:** The following words and phrases shall have the meanings ascribed to them in this Section:
 

**ALFPD:** The Algonquin/Lake in the Hills Fire Protection District.

**False alarm:** An alarm signal which indicates the existence of any emergency situation when in fact, no such emergency exists, and shall include any alarm signal generated by any fire protection system by whatever means, but shall not include alarms resulting from any of the following causes:

    - a. Fire causing damage to structures or contents of a protected premise verified by the ALFPD.
    - b. Earthquake causing structural damage to the protected premise.
    - c. Tornado winds causing structural damage to the protected premise.
    - d. Flooding to the protected premise due to overflow of natural drainage or

other water leaks within the structure or building.

- e. Lightning causing physical damage to the protected premise.
- f. Telephone line malfunction verified to the ALFPD by an authorized telephone company supervisor within seven days of the occurrence.
- g. Radio receiver malfunction verified by the ALFPD contractor.
- h. Electrical service interruption verified to the ALFPD by the local power company manager within seven days of the occurrence.
- i. Plumbing or electrical malfunctions unrelated to the fire protection system.
- j. Malicious activations when, in the opinion of the ALFPD, beyond the control of the user.

**User:** The owner of the property from which the false alarm originates and any individual, partnership, corporation, organization, or other entity on the property with the permission of the owner.

**Intentional false alarm:** A false alarm that is purposely and non-accidentally activated in a non-emergency situation without prior notification to the ALFPD.

**Improper installation or design:** Systems fall under the scope of this definition when new systems are installed in a negligent or faulty manner, or when a system is designed in a substandard or faulty manner, either of which results in a false alarm activation in a non-emergency situation.

**Improper maintenance:** Systems fall under the scope of this definition when existing systems have not been properly maintained by the property owner, which results in a false alarm activation in a non-emergency situation. This definition includes, but it not limit to, the proper maintenance of all components within any system.

**Improper use:** Systems fall under the scope of this definition when an action of a user results in a false alarm activation in a non-emergency situation due to the user's carelessness or negligence.

**System:** This includes all fire alarm systems, sprinkler systems, and other automated systems that transmit alarms or signals to the ALFPD.

**12-month period:** The 12-month period shall be the 12 calendar months immediately preceding the date of the false alarm for which the citation was issued.

2. The following requirements shall only be applicable to property in the Village that

is within the boundaries of the ALFPD that installs new alarms and existing direct connect systems. In addition, properties within the boundaries of the ALFPD are not prohibited from utilizing third-party central station monitoring in addition to the direct connection to the Network.

- a. The primary and secondary power supply for the fire alarm system shall be provided in accordance with NFPA 72-2007(edition). The secondary power supply requirements shall comply with NFPA 72-2007 (edition) except that 60 hours of standby power shall be provided.
- b. Fire-extinguishing systems: All existing fire suppression systems supervised by a direct connection to the Algonquin Police Department as of August 1, 2005, and thereafter all required new fire suppression systems shall be monitored in accordance with the Fire Alarm System Monitoring Method, of this Code. Existing third party central station alarm systems are excepted until such time as a new fire alarm panel is installed in the building or change in use as defined by the Community Development Department and the ALFPD, whichever occurs first.
- c. Fire Alarm Systems: All existing fire alarm systems connected to the Algonquin Police Department as of August 1, 2005, and thereafter all required new fire alarm systems shall be supervised in accordance with the Fire Alarm System Monitoring Method, of this Code. Existing third-party central station alarm systems are excepted until such time as a new fire alarm panel is installed in the building or a change in use as defined by the Community Development Department and the District, whichever occurs first.
- d. Monitoring Method: All fire alarm systems and fire suppression systems shall be supervised by a direct connection to the ALFPD, which operates a remote supervising station at 1020 West Algonquin Road, Lake in the Hills.
- e. Connection Method: The method of connecting directly to the remote supervising station shall be by the ALFPD Keltron Wireless Alarm Network (“Network”), or other alternate connection means as approved by the Village and the ALFPD Fire Chief. All new fire alarm system control panels connected to a wireless network radio receiver shall be provided with at least one reverse polarity output except that fire alarm control panels monitoring supervisory signals (tamper switches, fire pump conditions, etc.) shall be provided with two reverse polarity outputs or other alternate U.L. listed connections to a remote supervising station as approved by the ALFPD’s vendor and the Fire Chief. All fire alarm control panels shall be UL listed for remote station signaling of manual, automatic, waterflow (where applicable), and supervisory (where applicable) signals by the reverse polarity method. The fire alarm or electrical contractor shall provide a 1900 box directly above and within three feet of the fire alarm control panel. The 1900 box shall house the A/C primary power source for the fire alarm panel. Sufficient additional

wire shall be left in the 1900 box to allow for the ALFPD's radio vendor to splice into the fire alarm contractor's A/C conductors to obtain power for the radio.

- f. **Application Process:** All connections to the Network shall be preceded by an application process. The ALFPD shall provide to owners, agents, or occupants of buildings within the ALFPD requiring or requesting connection to the ALFPD's remote supervising station, forms, and contracts, which shall be completed and returned to the ALFPD prior to the ALFPD's approval of the connection of a fire alarm system to the Network.
- g. **Monitoring Fees:** The fee for the monthly monitoring of fire alarm signals shall be determined as reasonably competitive within the Chicago-land market by the District. The fee for the monthly monitoring of fire alarm signals from buildings owned by governmental units not affected by other agreements shall be at a reduced rate as determined by the ALFPD Board of Trustees. All fees shall be paid on an annual basis to the ALFPD.
- h. **Fire Alarm System Registration and Fees:** Each required fire alarm system within the ALFPD shall be registered. Registration of the fire alarm system is intended to provide the ALFPD with information related to the fire alarm system including, but not be limited to, its owner, the responsible party, night/after hour call information, fire alarm maintenance contractor, and the results of the annual fire alarm inspection. Each fire alarm system owner shall complete a registration form provided by the ALFPD at the time of the initial connection to the wireless network, and annually when the connection to the Network is renewed. The initial registration and renewal fees are found in Appendix B of this Code, which shall be made payable to the ALFPD.
- i. **Initial Connection Fees:** Prior to the initial connection to the Network, subscribers shall pay for the first 12 months of monitoring fees with their registration fee. Connections made to the Network on the 1<sup>st</sup> through the 15<sup>th</sup> of the month shall be charged the applicable full monthly connection fee. Connections made on the 16<sup>th</sup> through the last day of the month shall be charged half of the applicable monthly fee for the first month.
- j. **Renewal of Monitoring and Registration Fees:** Thirty days prior to the end of their annual subscription Network subscribers will be invoiced by the ALFPD or its assigned agent. The invoice will include 12 additional months of monitoring at the current rate and the renewal registration fee. All fees shall be paid prior to the new renewal period. Late payment of fees shall be subject to an additional 1.5 percent for each month the fees are delinquent.
- k. **Wireless Fire Alarm Equipment:** The ALFPD is the owner of all equipment associated with the Network. Network subscribers will be

provided with a radio transceiver that replaces the traditional telephone circuit for connection to the remote supervising station. The radio transceiver shall remain the property of the ALFPD and the subscriber, through the monthly monitoring fee, will be leasing the radio transceiver from the ALFPD.

- l. **Wireless Fire Alarm Equipment Installation and Maintenance:** The installation and the annual and necessary maintenance, testing, and repair of the radio transceiver at the subscriber's premise will be completed solely by a fire alarm company of the ALFPD's choice. The ALFPD will contract with a single vendor for this service. Subscribers to the Network will be advised of the vendor's identity. Subscribers shall allow the vendor to have access to the radio transceiver during normal business hours for all required and necessary installation, maintenance, repairs, and testing. Vendors shall wear a visible identification, identifying him or her as the ALFPD vendor.
- m. **Fees Associated with Radio Transceiver Installation:** The ALFPD will install the necessary radio transceiver at the subscriber's location at no cost to the subscriber when a standard installation can be accomplished by the ALFPD's vendor. When the ALFPD's vendor cannot perform a standard installation, the subscriber will be invoiced a non-standard installation fee by the ALFPD in accordance with a fee schedule established by the ALFPD and its vendor. Fees for non-standard installations shall be paid to the ALFPD within 30 days of invoice receipt.
- n. **Maintenance required:** All fire alarm systems shall be subjected to annual and periodic testing in accordance with NFPA 72 (2007 edition). The results of all required tests shall be recorded and submitted to the ALFPD with registration renewal. While the ALFPD will repair and maintain its wireless equipment, including the radio transceiver at the subscriber's location, it is the responsibility of the owner of the fire alarm control panel within the premise to provide the required annual and periodic testing.

### **23.06 INTERNATIONAL FIRE CODE/2006**

The International Fire Code, 2006 edition, and appendices B, C, and D, ("Fire Code"), be and the same are hereby adopted by reference and made a part of this Section, subject to modifications set forth herein, and shall be applicable to the Village.

### **23.07 MODIFICATIONS TO THE FIRE CODE**

The Fire Code shall be amended as follows:

1. For the purpose of this code, any Fire Code sections repeated within the International Building Code and modified therein shall also be considered modified accordingly within the Fire Code.
2. Section 101.1, insert Village of Algonquin.

3. Section 108.1 shall be amended to read as follows:

**108.1 Board of appeals established.** In order to hear and decide appeals of order, decisions, or determinations made by the fire code/building code official relative to the application and interpretation of this code, an appeal may be made to the Village Board.

4. Section 108.3, Qualifications, shall be deleted in its entirety.
5. Open Burning and Recreational Fires shall be deleted in its entirety (refer to Section 43.08 of this Code)

### 23.08 INTERNATIONAL MECHANICAL CODE/2006

The International Mechanical Code, 2006 edition, (“Mechanical Code”) be and the same is hereby adopted by reference and made part of this Section, subject to modifications set forth herein, and shall be applicable to the Village.

### 23.09 MODIFICATIONS TO THE MECHANICAL CODE

The Mechanical Code shall be amended as follows:

1. Section 101.1, insert Village of Algonquin.
2. Section 106.5.2, insert Section 23.22 of this Code.
3. Section 106.5.3 shall be amended to read as follows:

**106.5.3 Fee refunds.** Refunds for mechanical permits shall be in accordance with Section 23.23 of this Code.

4. Section 108.4, insert Appendix B of this Code.
5. Section 108.5, insert Appendix B of this Code.
6. Section 109.1 shall be amended to read as follows:

**109.1 Application of appeal.** A person shall have the right to appeal a decision of the Code Official to the Village Board. An appeal shall be based on a claim that the intent of this code or the rules legally adopted thereunder have been incorrectly interpreted, the provisions of this code do not fully apply, or an equally good or better form of construction is proposed.

7. The following sections shall be deleted in their entirety.

Section 109.2.2, Alternate members  
Section 109.3, Notice of meeting  
Section 109.5, Postponed hearing

## 23.10 INTERNATIONAL FUEL GAS CODE/2006

The International Fuel Gas Code, 2006 edition, (“Fuel Gas Code”) be and the same is hereby adopted by reference and made part of this Section, subject to modifications set forth herein, and shall be applicable to the Village.

## 23.11 MODIFICATIONS TO THE FUEL GAS CODE

The Fuel Gas Code shall be amended as follows:

1. Section 101.1, insert Village of Algonquin.
2. Section 106.5.2, insert Section 23.22 of this Code.
3. Section 106.5.3 shall be amended to read as follows:

**106.5.3 Fee refunds.** Refunds for permit fees shall be in accordance with Section 23.23 of this Code.

4. Section 108.4, insert Appendix B of this Code.
5. Section 108.5, insert Appendix B of this Code.
6. Section 109.1 shall be amended to read as follows:

**109.1 Application of appeal.** A person shall have the right to appeal a decision of the Code Official to the Village Board. An appeal based on a claim that the intent of this code or the rules legally adopted thereunder have been incorrectly interpreted, the provisions of this code do not fully apply, or an equally good or better form of construction is proposed.

7. The following sections shall be deleted in their entirety:

Section 109.2, Membership of board  
Section 109.2.2, Alternate members  
Section 109.2.3, Chairman  
Section 109.2.4, Disqualification of member  
Section 109.2.5, Secretary  
Section 109.2.6, Compensation of members  
Section 109.3, Notice of meeting  
Section 109.5, Postponed hearing

8. Section 401.5 shall be amended to read as follows:

**401.5 Identification.** Exterior gas piping shall be coated to protect the piping from corrosion. Exterior gas piping located on the roof shall be painted yellow. All other exterior gas piping shall be painted to match the exterior of the building.

9. Section 402: the following tables shall be deleted: 402.4(13), 402.4(14), 402.4(15),

402.4(16), and 402.4(17).

10. Section 403.5.4 shall be amended to read as follows:

The use of corrugated stainless steel tubing is prohibited.

### 23.12 NATIONAL ELECTRICAL CODE/2002

The National Electrical Code, 2002 edition, promulgated by the National Fire Protection Association, (“Electrical Code”) be and the same is hereby adopted by reference and made part of this Section, subject to modifications set forth herein, and shall be applicable to the Village.

### 23.13 MODIFICATIONS TO THE ELECTRICAL CODE

The Electrical Code shall be amended as follows:

1. Article 110.2 shall be amended to add the following:

All electrical devices, conductors, and equipment shall be listed by a recognized and approved testing laboratory, or by express written approval from the Electrical Inspector.

2. Article 110.12(A) shall be amended to read as follows:

110.12(A). All accessible temporary and/or abandoned wiring conductors, conduit systems, race ways, junction boxes, electrical materials, and electrical equipment shall be completely removed, unless express written approval is obtained from the Electrical Inspector.

3. Article 110.34 shall be amended to add the following:

(D) Utility sinks, water hose bibs, drinking fountains, and similar fixtures shall not be installed in a dedicated electric panel or switch gear room in commercial or industrial buildings. In a non-dedicated electric panel or switch gear room, utility sinks, water hose bibs, drinking fountains, and similar fixtures shall not be installed within six feet of electric service panels or switch gear.

4. Article 210.8 shall be amended to add the following:

No less than one 20-ampere GFCI-protected duplex outlet shall be provided for every vanity sink installed in a residential occupancy.

5. Article 210.8(A) (7) shall be amended to add the following:

Not less than one GFCI-protected duplex outlet shall be provided for every wet bar sink.

6. Article 210.8(B) shall be amended to add the following:

(3) All outdoor outlets in all commercial and industrial construction shall be GFCI-protected.

- (4) All indoor outlets within six feet of sinks, water hose bibs, drinking fountains, any equipment with exposed or accessible water, open water, or similar fixtures shall be GFCI-protected.
7. Article 210.10(C) shall be amended to add the following:

All required smoke detectors shall be 110-volt with battery backup, interconnected and supplied by a general lighting circuit. Where smoke detectors are installed adjacent to unconditioned spaces, conduit shall be connected to the side of the junction box.
8. Article 210.11 shall be amended to add the following:

In no case shall there be more than ten 110-volt and/or light fixtures connected to any branch circuit in a residential occupancy.
9. Article 210.11(A) shall be amended to add the following:
  - (1) All sump pumps and ejector pumps shall each be supplied by a separate circuit with a single dedicated receptacle device.
  - (2) All furnaces and air conditioners shall each be supplied by a separate circuit.
10. Article 210.11(C)(3) shall be amended to add the following:

Kitchen outlets shall not be combined with lighting circuits.
11. Article 220.10 shall be amended to add the following:

In no case shall the electric service size for a single-family detached dwelling unit be less than 200 ampere, with a 40-circuit panel; or

Less than 200 ampere electric service with a 40-circuit panel for single-family attached dwelling units with 1,400 square feet or more of living space; or

Less than 100 ampere electric service with a 20-circuit panel for single-family attached dwelling units with 1,399 square feet or less of living space; or

Less than 400 ampere electric service with an 80-circuit panel for single-family dwelling units with 4,000 or more square feet of living space.
12. Article 230.70(A) shall be amended to add the following:

Service disconnecting means shall be located outside of the building or within five feet of the point in which the service conductors enter the building.
13. Article 250.34 shall be amended to add the following:

A permit shall be obtained from the Community Development Department prior to the

use of a portable generator of 10,000 watts or more in size; a separate permit may be issued each day of operation.

14. Article 300 shall be amended to add the following:

300.51(A) Wiring methods for devices. All switches and outlets shall be connected to the branch circuit by use of screw terminals. No more than one conductor shall be connected to an electrical device screw terminal. Conductors connected to screwless terminals shall not be permitted.

300.51(B). Circuit breakers. Only one conductor per screw terminal shall be permitted on full size single-pole, two-pole, and three-pole circuit breakers. Mini-circuit breakers and double/single-pole combination circuit breakers shall not be installed in any service panel, sub-panel, or disconnect enclosure of any size or type.

15. Article 310.2(B) shall be amended to read as follows:

Article 310.2(B) Conductor Material. All conductor material shall be copper.

16. Article 348.10 shall be amended to add the following:

Flexible metal conduit: Type FMC (Greenfield) shall not exceed six feet in length.

17. Article 358.10(A) shall be amended to add the following:

All exterior electrical wiring shall be enclosed in rigid metal conduit or intermediate metal conduit.

Exceptions:

1. Rigid PVC conduit installed in accordance with this code may be used below grade and under slab wiring.
2. Service entrance conductors.

18. Article 404.2 shall be amended to add the following:

A three-way switch or interior motion sensing switching device shall be provided for interior lighting in all screen rooms, sunrooms, and additions classified as three-season rooms, constructed off an exterior door.

19. Article 408.13 shall be amended to add the following:

A sub-panel of any size shall not be connected to an electric panel less than 100 amperes in size.

20. Article 410.8 shall be amended to add the following:

Not less than one light fixture installed in accordance with this Code shall be provided in

all clothes closets of any size.

21. Article 410.15(B) (3) shall be amended to add the following:

A 5/8 inch by eight-foot copper-clad ground rod shall be provided for all light pole bases; the ground rod shall be properly terminated and accessible from the hand hole.

22. Article 422.119G) shall be amended to add the following:

All dishwashers and food waste disposals installed in residential occupancies shall be hard-wired and shall be equipped with a disconnect located within sight of the appliance.

Exception: Appliances equipped with factory-installed power cords.

23. Article 700.12 IV shall be amended to add the following:

Emergency systems shall be properly identified.

24. Article 700.16 shall be amended to add the following:

Emergency lighting consisting of not less than two lamps shall be provided in all non-residential bathrooms, connected to the bathroom lighting circuit.

25. Article 760 shall be amended to add the following:

Accessible fire alarm cable, conduit, and junction boxes shall be the color red in their entirety.

26. Delete the following articles and the equipment, methods, and/or procedures referred to therein, which are prohibited and not approved for installation within the Village:

|                         |   |
|-------------------------|---|
| Article 80              | Administration and Enforcement              |
| Article 320             | Armored Cable                               |
| Article 330             | Metal Clad Cable                            |
| Article 332             | Mineral Insulated Metal Sheathed Cable      |
| Article 334             | Non-Metallic Sheathed Cable                 |
| Article 338             | Service Entrance Cable                      |
| Article 340             | Underground Feeder and Branch Circuit Cable |
| Article 352.10(A)(E)(F) | Rigid Non-Metallic Conduit                  |
| Article 360             | Flexible Metallic Tubing                    |
| Article 382             | Non-metallic Tubing                         |
| Article 388.2           | Surface non-Metallic Raceways               |
| Article 398             | Open Wiring on Insulators                   |
| Article 604             | Manufactured Wiring Systems                 |

23.14 **ILLINOIS STATE PLUMBING CODE/2004**

The Illinois State Plumbing Code, 2004 edition, (State of Illinois Plumbing License Law, Plumbers Licensing Code and Plumbing Code) (“Plumbing Code”) be and the same, is hereby

adopted by reference and made part of this Section, subject to the modifications set forth herein and shall be applicable to the Village. No plumbing work, unless modified by this Chapter, shall be undertaken prior to the issuance of a permit by the Building Commissioner. The application for a permit shall be made on forms provided by the Building Commissioner and shall be accompanied by the prescribed permit fees as set forth in Appendix B.

### 23.15 MODIFICATIONS TO THE PLUMBING CODE

The Plumbing Code shall be amended as follows:

1. Section 890.170(c), Private Water Supply, shall be deleted in its entirety.
2. Section 890.170 shall be amended to add the following:
  - g) Any building connected to the Village public water system that has a private water supply shall disconnect from its private water supply, abandon, and seal its well in accordance with the requirements as set forth by the applicable County Department of Health.
3. Section 890.320 (k), Bituminized Fiber Pipe Joints, shall be deleted in its entirety.
4. Section 890.320 (I)(1)(2), Plastic Pipe Joints & Fittings in Potable Water, shall be deleted in its entirety.
5. Section 890.310 (l)(3) shall be amended to add the following:
  - 3) Purple primer shall be used on all joints and fittings.
6. Section 890.630 shall be amended to add the following:
  - h) Plumbing fixtures attached to a wall or penetrating through a wall shall be made watertight by caulking or a factory-supplied gasket where the fixture contacts the wall surface.
7. Section 890.1190(b) shall be amended to read as follows:

The utility meter may be installed outside in an accessible meter vault or within the building. The meter shall have unions on the inlet and outlet openings. A full-port valve with an open area at least that of the water service shall be provided on the inlet and outlet side of the meter with a dip valve installed on the discharge side of the meter. (See Appendix I: Illustrations H and I.)
8. Section 890.1200(A) shall be amended to read as follows:

Water Service Pipe Sizing. The water service pipe from the street main (including the tap) to the water distribution system for the building shall be sized in accordance with Appendix A, Tables M, N, O, P, and Q. In no case shall the water service pipe and fittings shall be less than one inch in diameter. If flushometers or other devices requiring a high rate of water flow are used, the water service pipe shall be designed and installed

to provide this additional flow.

9. Section 890.1200 shall be amended to add the following:

Section 890.1200(d). The number of separate water taps, the number of separate water services, and the number, location, and arrangement of water meters for multiple dwelling units and/or multiple tenant buildings shall be approved by the Utilities Division of the Public Works Department.

10. Section 890.1210(f)(1) shall be amended to read as follows.

1) Air chambers. An air chamber shall be installed in all fixture supplies and shall be at least 12 inches in length and at least the same size as the fixture supply. An air chamber shall be installed in all risers and shall be at least 24 inches in length and at least the same size as the riser. An air chamber shall be installed at the end of all runs 30 feet or more in length and shall be at least 24 inches in length and at least the same size as the run.

11. Section 890.1320 shall be amended to add the following:

p) Safe Pans. A safe pan shall be installed beneath all clothes washers, water heaters, and water softeners located above the first floor to collect and drain any leakage or discharge. The safe pan shall be connected to the building drainage system.

12. Section 890.1340(b)(4) shall be amended to read as follows:

4) No portion of the drainage system installed underground or below a basement or crawl space, including floor drains, shall be less than three inches in diameter, unless approved by the Plumbing Inspector.

13. Section 890.1360(e) shall be amended to read as follows:

e) Vent sizes. Building sump vents shall be sized in accordance with Appendix A: Table K. In no case shall the vent size be less than two inches in diameter.

14. Section 890.1360 shall be amended to add the following:

h) Ejector Pump and Discharge. The ejector sump shall be at least 30 inches deep. The ejector pump discharge shall be at least two inches in diameter.

15. Section 890.1420(e) shall be amended to read as follows:

e) Building Sub-drain Sump Vent Sizes. Building sub-drain sump vents shall be sized in accordance with Appendix A: Table K. In no case shall the vent size be less than two inches in diameter.

16. Section 890.1420 shall be amended to add the following:

f) In the event a drainage system is installed for fixtures that are to be installed at a future date (roughed-in), the venting for these fixtures shall be completed in accordance with this chapter and the drains sealed airtight by the use of proper fittings.

17. Section 890.1440(a) shall be amended to read as follows:
  - a) Vent Terminal Size. Each vent extension through the roof shall be a minimum of four inches in diameter and no smaller than the vent which it terminates. Vent terminals shall not be screened.
18. Section 890, Appendix A, Table A, Approved Building Drainage/Vent Pipe, shall be amended as follows:
  - 1) Acrylonitrile Butadiene Styrene (ABS) Pipe, delete in its entirety.
  - 12) Polyvinyl Chloride (PVC) Pipe with Cellular Core, delete in its entirety.
19. Section 890, Appendix A, Table A, Approved Materials for Building Sewer, shall be amended as follows:
  - 1) Acrylonitrile Butadiene Styrene (ABS) Pipe, delete in its entirety.
  - 2) Asbestos Cement Pipe, delete in its entirety.
  - 3) Bituminized Fiber Pipe, delete in its entirety.
  - 6) Concrete Pipe, delete in its entirety.
20. Section 890, Appendix A, Table A, Approved Material for Water Service Pipe, shall be amended as follows:
  - 1) Acrylonitrile Butadiene Styrene (ABS) Pipe, delete in its entirety.
  - 2) Brass Pipe, delete in its entirety.
  - 4) Chlorinated Polyvinyl Chloride (CPVC) Pipe, delete in its entirety.
  - 5) Copper/Copper Alloy Pipe, add: Type K only; L & M not permitted.
  - 6) Copper/Copper Alloy Tubing, add: Type K only; L & M not permitted.
  - 7) Galvanized Steel Pipe, delete in its entirety.
  - 8) Polybutylene (PB) Pipe/Tubing, delete in its entirety.
  - 9) Polyethylene (PE) Pipe, delete in its entirety.
  - 10) Polyethylene (PE) Tubing, delete in its entirety.
  - 11) Cross Linked Polyethylene (Pex pipe), delete in its entirety.
  - 12) Polyvinyl Chloride (PVC) Pipe, delete in its entirety.
21. Section 890, Appendix A, Table A, Approved Material for Water Distribution Pipe, shall be amended as follows:
  - 2) Chlorinated Polyvinyl Chloride (CPVC) Pipe/Tubing, delete in its entirety.
  - 3) Copper/Copper Alloy Pipe, add: Type K & L only; M not permitted.
  - 4) Copper/Copper Alloy Tubing, add: Type K & L only; M not permitted.
  - 7) Polybutylene (BP) Pipe/Tubing, delete in its entirety.

### 23.16 INTERNATIONAL ENERGY CONSERVATION CODE/2006

The International Energy Conservation Code, 2006 edition, (“Energy Conservation Code”) be and the same, is hereby adopted by reference and made part of this Section, subject to the modifications set forth herein, and shall be applicable to the Village.

### 23.17 MODIFICATIONS TO THE ENERGY CONSERVATION CODE

The Energy Conservation Code shall be amended as follows:

1. Section 101.1, insert Village of Algonquin

2. Section 104 shall be amended to add the following:

**104.3 Reports.** ResCheck or ComCheck reports shall be submitted with the construction documents. The reports shall be signed by the design professional of record.

3. Section 301.1 shall be amended to read as follows:

**301.1 General.** The climate zone for the Village is Zone 5A.

### 23.18 INTERNATIONAL EXISTING BUILDING CODE/2006

The International Existing Building Code, 2006 edition, (“Existing Building Code”) be and the same, is hereby adopted by reference and made part of the Section, subject to modifications set forth herein, and shall be applicable to the Village.

### 23.19 MODIFICATIONS TO THE EXISTING BUILDING CODE

The Existing Building Code shall be amended as follows:

1. Section 101.1, insert Village of Algonquin

2. Section 101.2 shall be amended to read as follows:

**101.2 Scope.** The provisions of the Existing Building Code shall apply to the repair, alteration, change of occupancy, addition, and relocation of existing, non-residential, and mixed-use occupancy buildings located within the Old Town District, as defined in Section 21.3 of the Algonquin Zoning Ordinance. New buildings or a building or portion of a building that has not been previously occupied or used for its intended purpose shall comply with the provisions of the Building Code for new construction. Repairs, alterations, change of occupancy, existing buildings to which additions are made, historic buildings, and relocated buildings complying with the provisions of the Building Code, Mechanical Code, Plumbing Code, Electrical Code, and Residential Code, as applicable, shall be considered in compliance with the provisions of the code.

3. Section 105.2, Work exempt from permit, delete: 1, 3, 4, and 5.

4. Section 112.1 shall be amended to read as follows:

**112.1 General.** In order to hear and decide appeals of orders, decisions, or determinations made by the Code Official relative to the application and interpretation of this code, an appeal may be made to the Village Board.

5. Section 112.3, Qualifications, shall be deleted in its entirety.
6. Section [ICC] 305.6, Electrical, shall be amended by inserting National Electrical Code in place of ICC Electrical Code.
7. Section [P] 305.9, Plumbing, shall be amended by inserting Illinois State Plumbing Code in place of International Plumbing Code.

#### 23.20 **INTERNATIONAL PROPERTY MAINTENANCE CODE/2006**

The International Property Maintenance Code, 2006 edition, (“Property Maintenance Code”) be and the same, is hereby adopted by reference and made part of this Section, subject to modifications set forth herein, and shall be applicable to the Village.

#### 23.21 **MODIFICATIONS TO THE PROPERTY MAINTENANCE CODE** *Amended, 11-O-17*

The Property Maintenance Code shall be amended as follows:

1. Section 101.1 insert Village of Algonquin.
2. Section 111.1 shall be amended to read as follows:

**111.1 Application for appeal.** Any person directly affected by a decision of the Code Official or a notice of order issued under this code shall have the right to appeal to the Village Board, providing that a written application for an appeal is filed within 20 days after the day the decision, notice, or order was served. An application for appeal shall be based on a claim that the true intent of this code, or the rules legally adopted thereunder, have been incorrectly interpreted, the provisions of this code do not apply, or the requirements of this code are adequately satisfied by other means.

3. Section 111.2, Membership of board, shall be deleted in its entirety.
4. Section 112.3, Notice of meeting, shall be deleted in its entirety.
5. Section 302.2 shall be amended to read as follows:

**302.2.1 Sump pump and downspout discharge.** The discharge from a sump pump and/or roof drainage downspout shall not discharge directly or indirectly on or over any public street, sidewalk, bike path, or right-of-way; and the outlet of sump pump discharge piping shall not be located within five feet of a property line, shall be orientated to discharge in the direction of the engineered drainage path, and shall not cause standing water on adjacent properties.

6. Section 302.4, 8 inches shall be inserted.

7. Section 302.8 shall be amended to read as follows:

**302.8 Motor and recreational vehicles.** All motor and recreational vehicles, including but not limited to cars, vans, trucks, construction/excavating/landscape equipment, motorized bikes/motorcycles, boats, watercraft, snowmobiles, campers, aircraft, all terrain vehicles, and trailers, shall be parked on an approved surface of four inches of concrete over a four-inch compacted gravel base or two inches of asphalt over a six-inch compacted base, or paving bricks designed for motor vehicle traffic, installed in accordance with manufacturer's installation instructions, or completely enclosed in a structure designed and approved for such purpose. Motor vehicles, recreational vehicles, and equipment parked on an approved surface shall be accessible without maneuvering over lawn, grass, curbs, or any unpaved surface. No more than two recreational vehicles shall be visible on a zoning lot. No part of any motor or recreational vehicle, when parked, shall encroach over a public sidewalk or bike path, and in no case shall equipment or a recreational vehicle be parked on public property. No vehicle shall, at any time, be in a state of major disrepair, disassembly, or in the process of being stripped or dismantled.

**Exception:** A vehicle of any type is permitted to undergo major repair provided that such work is performed inside an enclosed structure designed and approved for such purpose.

8. Section 304.14 shall be amended to insert April 15 to November 1.

9. Section 307.2 shall be amended to read as follows:

**307.2 Disposal of rubbish.** Every occupant of a structure shall dispose of all rubbish and recycling in a clean and sanitary manner pursuant to Chapter 13 of this Code and by placing such rubbish and items intended for recycling in approved containers and stored in a location with minimal exposure to the public view.

**Exception:** Rubbish and recycling may be placed on the right-of-way after 5:00 p.m. the day prior to the scheduled rubbish collection day, and all rubbish and recycling containers shall be removed from the right-of-way by 11:00 p.m. the day of rubbish collection.

10. Section 307.2 shall be amended to read as follows:

**307.2.3 Special pick-up.** Items requiring a special pick-up, such as refrigerators, water heaters, stoves, ovens, cook tops, furniture, carpeting, and construction material, shall not remain on the right-of-way for more than 48 hours.

11. Chapter 3 shall be amended to add a new section, which shall read as follows:

## **SECTION 309 YARDWASTE COMPOSTING**

**309.1 Compost piles and bins.** Compost piles and bins shall comply with the following requirements:

1. Compost piles and bins shall be located in side or rear yards.

2. Compost piles and bins shall not exceed four feet in height and in diameter.
3. Compost piles and bins shall not be placed or tended in such a way as to allow materials to be wind blown.
4. Compost piles and bins shall not emit odorous matter in such quantities as to be readily detectable at any point along any lot line, or to otherwise produce a public nuisance or hazard beyond any lot line.
5. Compost piles or bins shall be located not less than five feet from any lot line and out of any easement.

**309.2 Composting material.** Compost material shall be comprised of approximately an equal mixture of carbon-rich (brown) material and nitrogen-rich (green) material.

**309.2.1 Carbon-rich material.** The following examples are acceptable carbon-rich (brown) material:

1. Leaves
2. Pine needles
3. Small twigs and branches
4. Wood chips and shavings
5. Bark pieces
6. Straw

**309.2.2 Nitrogen-rich material.** The following examples are acceptable nitrogen-rich (green) material:

1. Grass clippings
2. Weeds
3. Spent flowers and plants
4. Vine and other soft prunings from the garden
5. House plant trimmings

**309.2.3 Improper compost material.** The following examples are improper composting materials and shall not be permitted:

1. Animal and dairy products
2. Meats
3. Fats, oils and grease
4. Animal feces

**309.3 Compost maintenance.** Compost piles shall be maintained neatly and not allowed to sprawl. Piles of grass clippings and/or large branches are not considered composting and shall not be permitted.

12. Section 602.3, insert September 15 to May 15.

13. Section 602.4, insert September 15 to May 15.

14. The following section shall be added:

**SECTION 801            DRIVEWAYS**

**801.1 Driveways.** All driveways and off-street parking areas shall be paved with a surface of not less than four inches of concrete over a four-inch compacted base course or not less than two inches of asphalt over a six-inch compacted base course or paving bricks designed for motor vehicle traffic, installed in accordance with manufacturer's installation instructions. Gravel driveways and off-street parking areas are not permitted. Any nonconforming gravel driveway or off-street parking area shall be paved in accordance with this code no later than December 1, 2009.

15. The following sections shall be added:

**SECTION 802            SALT STORAGE**

**802.1 Salt Storage.** In the interest of limiting pollution to our environment and waterways and ultimately preventing contamination of our groundwater resources, all properties which store bulk rock salt for winter snow or ice removal operations shall comply with these regulations. Prior to the installation of any salt storage, a permit, which is valid November through April, shall be obtained from the Community Development Department. The permit fee is found in Appendix B of this Code. The permit application shall include the amount of salt to be stored, a site plan that includes the location and dimensions of the storage site, as well as any storm sewer drains within 125 feet of the storage site, the amount of salt to be stored, the method by which the salt will be covered and additional measures that will be undertaken to minimize visual impact to public ways and/or adjacent residential uses.

Properties not in compliance with the salt storage requirements shall be fined pursuant to Appendix B of this Code until the storage is brought into compliance. Those properties containing a salt pile without a valid permit shall be fined pursuant to Appendix B of this Code and required to obtain a permit or remove the salt pile.

Salt storage shall comply with the following requirements:

1. The maximum amount of storage allowed shall not exceed four storm events.
2. The salt within the salt storage location shall be covered with a water-resistant tarp or similar protective cover, which shall be adequately secured to prevent damage from wind and/or water at all times.
3. The location shall be not less than 100 feet from any storm sewer drain.
4. The location shall be uphill and away from snow piles.

5. The location shall be in an area that minimizes visual impact to public ways and/or adjacent residential uses.
6. The salt pile and area used for truck loading and unloading shall be diligently swept and maintained free of loose salt and debris at all times. The area shall be kept in a clean, workmanlike manner at all times.
7. All unused salt and the site shall be cleaned up no later than April 15<sup>th</sup>.

#### **23.22 ILLINOIS ACCESSIBILITY CODE/1997**

The Illinois Accessibility Code, effective date April 24, 1997, (71 Illinois Administrative Code 400) (“Accessibility Code”) be and the same, is hereby adopted by reference and made part of this Section and shall be applicable to the Village. In the event of a conflict between the provisions of the Illinois Accessibility Code and the International Building Code, the most restrictive provisions shall apply.

#### **23.23 PERMIT FEE SCHEDULE**

Permit fees are found in Appendix B of this Code.

#### **23.24 KANE COUNTY ROAD IMPROVEMENT IMPACT FEE**

All developers of new development in Kane County, as defined in Kane County Ordinance No. 04-22, Kane County Road Improvement Impact Fee Ordinance, are required to submit, with their building permit application, a copy of their receipt of payment reflecting payment of the Kane County Road Improvement Impact Fee.

#### **23.25 IDENTIFICATION OF LOCAL BUILDING CODE NOT ADOPTED**

Notwithstanding the provisions of 20 ILCS 3918/55, the Village shall not provide the identification of a new building code or amendment thereto, its title and edition, to the State of Illinois Capital Development Board, or its successor, for placement on the Internet through the State of Illinois worldwide website.