

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/2018**

The International Residential Code, 2018 edition, and appendices B, C, D, F, 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**

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 or structures, sidewalk, driveways, fences, and swimming pools; retaining walls; use of a shipping container for temporary storage, if on site for more than 14 consecutive days and in no case shall the shipping container be on site for more than 90 consecutive days; move, demolish, or change the occupancy of a building or structure; install 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(s).

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. Prefabricated swimming pools that are not capable of holding two feet (610 mm) or more of water.
2. Retaining walls that are not over two feet (610 mm) in height measured from the bottom of the footing to the top of the wall, unless supporting a surcharge.
3. Painting, papering, tiling, carpeting, countertops, and similar finish work.
4. Swings and other playground equipment accessory to a one- or two-family dwelling.
5. 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 R105.2.2 Insert new Sections:

**R105.2.2.1 Fence Repair.** The repair or replacement of up to two (2) fence panel sections and/or three (3) support posts.

**R105.2.2.2 Siding and Roof Repair.** The repair or replacement of up to an aggregate total of 200 square feet of roofing material or siding material.

5. 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

6. 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 existing bearing walls or beams, modifications which alter the existing roof of a dwelling unit, retaining walls that are five (5) feet in height or taller measured from the footing to the top of the wall, unless supporting a surcharge 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.

7. 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 prepared by an Illinois licensed professional engineer or land surveyor 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.

8. 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.

9. 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.

10. 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.

11. New 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.

12. 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.

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

Ground Snow Load	30 pounds per square foot
Wind Speed (three second gust)	115 mph
Topographic effects	No
Special Wind Region	No
Windborne Debris Zone	No
Seismic Design Category	B
Weathering	Severe
Frost Line Depth	42 inches minimum below grade
Termite	Moderate
Winter Design Temperature	-4 degrees Fahrenheit
Ice Barrier Underlayment Required	Yes
Flood Hazards	reference Flood Insurance Rate Map for Algonquin 11/16/2006 & Chapter 44
Air Freezing Index	1745
Mean Annual Temperature	47.8 degrees Fahrenheit
Elevation	700
Latitude	42.251264
Winter Heating	-4 degrees Fahrenheit
Summer Cooling	89 degrees Fahrenheit
Altitude correction factor	0.0
Indoor design temperature	72 degrees Fahrenheit
Heating temperature difference	76 degrees Fahrenheit [72-(-4)]
Cooling temperature difference	14 degrees Fahrenheit [89-75]
Wind velocity heating	8.4 miles per hour
Wind velocity cooling	5.7 miles per hour
Coincident wet bulb	74 degrees Fahrenheit
Daily range	M
Winter humidity	30%
Summer Humidity	50%

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

<b>USE</b>	<b>LIVE LOAD</b>
Sleeping rooms	40

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

<b>STRUCTURAL MEMBER</b>	<b>ALLOWABLE DEFLECTION</b>
Floors	L/480

16. Section R302.5.1 shall be amended to add the following:

Doors shall have a net clear opening of not less than 34 inches.

17. Section R302.6 shall be amended to read as follows:

**R302.6 Dwelling-garage fire separation.** All garages attached to a dwelling shall have 5/8-inch Type X gypsum board or equivalent applied to all walls and ceilings. Attachment of gypsum board shall comply with Table R702.3.5.

18. Add a new Section R309.6, which shall read as follows:

**R309.6 Garage exit.** Not less than one exit conforming to Section R311 shall be provided from any attached or detached garage.

19. Section R311.2 shall be amended to read as follows:

**R311.2 Egress door.** Not less than two egress doors shall be provided for each dwelling unit. One egress door shall be side-hinged and shall provide a clear width of not less than 32 inches (813 mm) where measured between the face of the door and the stop, with the door open 90 degrees. The clear height of the door opening shall be not less than 78 inches (1981 mm) in height measured from the top of the threshold to the bottom of the stop. The second required egress door may be a sliding type door, with a net clear opening of not less than 32 inches. Other doors shall not be required to comply with these minimum dimensions. Egress doors shall be readily openable from the inside the dwelling without the use of a key or special knowledge or effort.

20. **Section R313.2 One- and two-family dwellings automatic fire sprinkler systems** shall be deleted in its entirety.

21. **Section R302.13 Fire protection of floors** shall be deleted in its entirety.

22. 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.

23. Chapter 4: All references to wood foundations and rubble stone masonry foundations shall be deleted.

24. 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 and additions to dwelling units 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. Concrete footing shall be designed and constructed in accordance with the provisions of Section R403 or in accordance with ACI 332. 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. 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.
25. 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.
26. Section R404.1.3, Concrete foundation walls, shall be amended to add the following:  
All foundation walls with a basement 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.
27. Section R404.1.5 shall be amended to add the following:  
In no case shall the foundation wall thickness be less than eight inches.
28. 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.
29. 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.

30. 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.

31. 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 R802.5.

32. **Section R504 Pressure Preservative-Treated Wood Floors (On Ground)** shall be deleted in its entirety.

33. 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. Fiber reinforced concrete, with fiber content of not less than 1.5 pounds per cubic yard (0.9 kg per cubic meter) of concrete may be used in place of welded wire fabric.

34. 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.

35. Section R507.3 shall be amended to read as follows:

**Section 507.3 Piers.** Decks shall be supported on top of concrete piers. Deck piers shall be sized to carry the imposed loads from the deck structure to the ground. The base of the concrete pier shall be at a depth in accordance with Section R403.1.4.

Delete Figure R507.3 Deck Posts to Deck Footing Connection.

Delete Exception.



36. Section R507.3.1 shall be amended to read as follows:

**R507.3.1 Minimum size.** The minimum size of a concrete pier shall be not less than 12 inches (305 mm) in diameter.

Delete Table R401.4.1 Minimum Footing size for Decks.

37. Section R507.3.2. Delete Exceptions

38. Table R507.4 Deck Post Height. Replace maximum heights with the following:

<b>Deck Post Size</b>	<b>Maximum Height</b>
4 x 4	6 Feet
4 x 6	8 Feet
6 x 6	10 Feet
8 x 8	14 Feet

39. Section R507.4.1 shall be amended to read as follows:

**R507.4.1 Deck post to deck pier connection.** Deck posts shall bear on the center of the concrete piers. The attachment of the deck post to the concrete pier shall be made by approved manufactured connectors to provide lateral and uplift restraint.

Delete Exception.

40. Section R703.1 Exterior covering 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 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.

42. 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 34, Electrical General Requirements  
Chapter 35, Electrical Definitions  
Chapter 36, Services  
Chapter 37, Branch Circuits and Feeder Requirements  
Chapter 38, Wiring Methods  
Chapter 39, Power and Lighting Distribution  
Chapter 40, Devices and Luminaries  
Chapter 41, Appliance Installation  
Chapter 42, Swimming Pools  
Chapter 43, Class 2 Remote-Control, Signaling and Power-Limiting Circuits

43. All plumbing installations, materials, and fixtures shall comply with the Illinois Plumbing Code, 2014 edition, promulgated by the Illinois Department of Public Health.
44. All electrical installations, materials, fixtures, and devices shall comply with the National Electrical Code, 2017 edition, promulgated by the National Fire Protection Association, as amended by the Village.

#### 23.04 **INTERNATIONAL BUILDING CODE/2018**

The International Building Code, 2018 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**

The Building Code shall be amended as follows:

1. Section [A] 101.1, insert: Village of Algonquin
2. Section [A] 101.4.4 shall be amended to read as follows:  
  
**[A] 101.4.4 Plumbing.** The provisions of the Illinois State Plumbing Code, 2014 edition, shall apply to the installation, alteration, repair, and replacement of plumbing systems, including equipment, appliances, fixtures, fittings, and appurtenances.
3. Section [A] 101.4. Add new Section:  
  
**[A] 104.4.8 Electrical.** The provisions of the National Electrical Code, 2017 edition, promulgated by the National Fire Protection Association, as amended by the Village shall apply to the installation of electrical systems, including alterations, repairs, replacement, equipment, appliances, fixtures, fittings and appurtenances thereto.
4. Section [A] 105.1, Required, shall be amended to read as follows:

**[A] 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 communication towers or antennas; 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.

5. Section [A] 107.3, Examination of documents, shall be amended to read as follows:

**[A] 107.3 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.

6. Section [A] 110.4, Inspection agencies, shall be amended to read as follows:

**[A] 110.4 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.

7. Section [A] General, 113.1 shall be amended to read as follows:

**[A] 113.1 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.

8. Section [A] 113.3, Qualifications, shall be deleted in its entirety.

9. Section 310.3, Residential Group R-2, shall be amended to add the following:

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.

10. Section 310.4, Residential Group R-3, shall be amended to add the following:

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.

11. 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.

Delete Exception.

12. 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.

13. 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.

14. 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.

15. 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.

16. 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.

17. 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.

18. Section [F] 903.2.2 shall be amended to read as follows:  
**[F] 903.2.2 Ambulatory care facilities.** An automatic sprinkler system shall be provided in any area containing an ambulatory care facility.
19. Section [F] 903.2.3 shall be amended to read as follows:  
**[F] 903.2.3 Group E.** An automatic sprinkler system shall be provided throughout all buildings containing a Group E occupancy.
20. Section [F] 903.2.4 shall be amended to read as follows:  
**[F] 903.2.4 Group F-1.** An automatic sprinkler system shall be provided throughout all buildings containing a F-1 occupancy.
21. Section [F] 903.2.4.1 shall be amended to read as follows:  
**[F] 903.2.4.1 Woodworking operations.** An automatic sprinkler system shall be provided throughout all Group F-1 occupancies that contain woodworking operations.
22. Section [F] 903.2.5.3 shall be amended to read as follows:  
**[F] 903.2.5.3 Pyroxylin plastics.** An automatic sprinkler system shall be provided throughout buildings where cellulose nitrate film or pyroxylin plastics are manufactured, stored, or handled.
23. Section [F] 903.2.6 delete exceptions.
24. Section [F] 903.2.7 shall be amended to read as follows:  
**[F] 903.2.7 Group M.** An automatic sprinkler system shall be provided throughout buildings containing a Group M occupancy.
25. Section [F] 903.2.9 shall be amended to read as follows:  
**[F] 903.2.9 Group S-1.** An automatic sprinkler system shall be provided throughout buildings containing a Group S-1 occupancy.
26. Section [F] 903.2.9.1 shall be amended to read as follows:  
**[F] 903.2.9.1 Repair garages.** An automatic sprinkler system shall be provided throughout buildings used as repair garages in accordance with Section 406.
27. Section [F] 903.2.9.2 shall be amended to read as follows:  
**[F] 903.2.9.2 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] 903.2.10.1 shall be amended to read as follows:
- [F] 903.2.10.1 Commercial parking garages.** An automatic sprinkler system shall be provided throughout buildings used for the storage of commercial motor vehicles.
29. Section [F] 903.2.11.1 shall be amended to read as follows:
- [F] 903.2.11.1 Stories without openings.** An automatic sprinkler system shall be installed throughout every story or basement of all buildings.
30. Section [F] 903.2.11.3, Buildings over 55 feet in height, delete exceptions.
31. Section 903 shall be amended to add the following section:
- [F] 903.2.13 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] 903.2.14 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 sections:
- [F] 903.2.15 Group U.** An automatic sprinkler system shall be provided throughout buildings containing a Group U occupancy.
- [F] 603.2.16 Discontinuation of use.** An automatic sprinkler system shall be provided throughout a building containing any occupancy specified in Section 903 that has been unoccupied for more than 365 consecutive days.
- [F] 603.2.17 Substantial improvement.** An automatic sprinkler system shall be provided throughout a building containing any occupancy specified in Section 903 when the building or structure is substantially improved. Substantial improvement is defined when any repair, reconstruction, rehabilitation, addition or improvement of a building or structure, the cost of which equals or exceeds 50 percent of the market value of the structure before the improvement or repair is started.
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. A minimum 10% but less than 5 pounds per square inch safety factor shall be provided in the fire protection system hydraulic calculations. The system demand shall be a minimum of 5 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] 903.3.9 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] 903.3.10 Riser check valve.** Provide a check valve in each sprinkler riser.

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

**[F] 903.3.11 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] 903.3.12 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 [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] 907.5.2.3 and in restrooms. Audible alarms shall be arranged so the alarm can be heard in all areas of the building.

42. 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.

43. 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 feet increments.

44. Section [F] 905.3 shall be amended 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.

45. Section [F] 905.301 shall be amended as follows:

**[F] 905.3.1 Height.** 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.

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

**Section [F] 905.3.9 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 Chapter 23, Page 19 4/22/14 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.

47. Section [F] 905.4 shall be amended to add:

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.

48. 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.

49. 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.

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

51. **Section [F] 905.6 Location of Class III standpipe hose connections** shall be deleted in its entirety.

52. Section [F] 907.1.3, Equipment, shall be amended to read as follows:

**[F] 907.1.3. 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.

53. 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.

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

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

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

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

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

59. 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.

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

**[F] 907.2.9.1 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

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

62. Section [F] 907.6.4, Zones, shall be amended to read as follows:

**[F] 907.6.4 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.

63. 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.

### 23.06 INTERNATIONAL FIRE CODE/2018

The International Fire Code, 2018 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 109.1 shall be amended to read as follows:

**109.1 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 109.3, 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 the Village of Algonquin Municipal Code)

### 23.08 INTERNATIONAL MECHANICAL CODE/2018

The International Mechanical Code, 2018 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 [A] 101.1, insert Village of Algonquin.
2. Section [A] 106.5.2, insert Appendix B of the Village of Algonquin Municipal Code.
3. Section [A]106.5.3 shall be amended to read as follows:

**[A] 106.5.3 Fee refunds.** Refunds for mechanical permits shall be in accordance with Appendix B of the Village of Algonquin Municipal Code

4. Section [A] 108.4, insert Appendix B of the Village of Algonquin Municipal Code.
5. Section [A] 108.5, insert Appendix B of the Village of Algonquin Municipal Code.
6. Section [A] 109.1 shall be amended to read as follows:

**[A] 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 [A] 109.2 Membership of board.  
Section [A] 109.2.2 Alternate members.  
Section [A] 109.2.3 Chairman.  
Section [A] 109.2.4 Disqualification of member.  
Section [A] 109.2.5 Secretary.  
Section [A] 109.2.6 Compensation of members.  
Section [A] 109.3 Notice of meetings.  
Section [A] 109.4 Open hearings.  
Section [A] 109.4.1 Procedure.  
Section [A] 109.5 Postponed hearing.  
Section [A] 109.6 Board decision.  
Section [A] 109.6.1 Resolution.  
Section [A] 109.6.2 Administration.

## 23.10 INTERNATIONAL FUEL GAS CODE/2018

The International Fuel Gas Code, 2018 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 [A] 101.1, insert Village of Algonquin.
2. Section [A] 106.6.2, insert Appendix B of the Village of Algonquin Municipal Code.

3. Section [A] 106.6.3 shall be amended to read as follows:

**[A] 106.6.3 Fee refunds.** Refunds for permit fees shall be in accordance with Appendix B of the Village of Algonquin Municipal Code.

4. Section [A] 108.4, insert Appendix B of the Village of Algonquin Municipal Code.
5. Section [A] 108.5, insert Appendix B of the Village of Algonquin Municipal Code.
6. Section [A] 109.1 shall be amended to read as follows:

**[A] 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 [A] 109.2 Membership of board  
Section [A] 109.2.2 Alternate members  
Section [A] 109.2.3 Chairman  
Section [A] 109.2.4 Disqualification of member  
Section [A] 109.2.5 Secretary  
Section [A] 109.2.6 Compensation of members  
Section [A] 109.3 Notice of meeting  
Section [A] 109.4 Open hearing  
Section [A] 109.5 Postponed hearing  
Section [A] 109.6 Board decision  
Section [A] 109.6.1 Resolution  
Section [A] 109.6.2 Administration

8. Section 401.5 Identification shall be amended to add the follows:

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.

## 23.12 NATIONAL ELECTRICAL CODE/2017

The National Electrical Code, 2017 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 NATIONAL 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 shall be amended to add the following:

110.12(C). All accessible temporary and/or abandoned wiring conductors, conduit systems, raceways, 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:

(G) 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 (6) feet of electric service panels or switch gear.

4. Article 210.8(A)(1) 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:

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

(5) All indoor receptacles in residential, commercial and industrial construction shall be GFCI-protected, if within six feet of sinks, water hose bibs, drinking fountains, any equipment with exposed or accessible water, open water, or similar fixtures.

7. Article 210.10(C) shall be amended to add the following:

(5) 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 or an approved sealant to the top of the junction box entries.

Exception. Existing non-modified structures shall have wireless battery-powered interconnected smoke detectors, at locations where required.
8. 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. All furnaces and air conditioners shall each be supplied by a separate circuit.
9. 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.
10. 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.
11. Article 2240 shall be amended to add the following:

Circuit breakers. Only one conductor per screw terminal shall be permitted on full size single-pole, 2-pole and 3-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.
12. 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.
13. Article 310.10 shall be amended to read as follows:

All conductor material shall be copper.

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

Flexible metal conduit: Type FMC (Greenfield) can be used in enclosed areas with a proper sized equipment grounding conductor in compliance with Article 250.122.
15. Article 358.10(A) shall be amended to add the following:
  1. Interior above slab wiring: All 110-volt and higher voltage conductors shall be enclosed in EMT (Electrical Metallic Tubing), or IMC (Intermediate Metal Conduit) or RMC (Rigid Metal Conduit) installed in accordance with this Code shall be used for interior above slab wiring.
  2. Exterior above grade exposed wiring: All exterior above grade exposed wiring shall be enclosed in IMC (Intermediate Metal Conduit) or RMC (Rigid Metal Conduit) and installed in accordance with the Code.
  3. Under slab and below grade wiring: Rigid PVC and RTRC (Reinforced Thermo-setting Resin Conduit) or RMC (Rigid Metal Conduit) installed in accordance with this code may be used below grade and under slab wiring. Direct burial wiring shall be used for underground service entrance conductors.
  4. Other raceways and wireways may be permitted by express written approval by the Electrical Inspector.
16. Article 404.2 shall be amended to add the following:  

A three-way switch or interior motion sensing switching device or photocell device shall be provided for interior lighting in all screen rooms, sunrooms, and additions classified as three-season rooms, constructed off an exterior door.
17. Article 404.4 shall be amended to add the following:  

(D) Switches shall be located at least five feet measured horizontally, from the inside walls of a bathtub, whirlpool tub, hot tub, spa, hydro-massage bathtub, tub/shower combination, shower stall or shower enclosure.
18. Article 406.9(C) shall be amended to add the following:  

(D) Receptacles shall be located at least six feet measured horizontally, from the inside walls of a bathtub, whirlpool tub, hot tub, spa, hydro-massage bathtub, tub/shower combination, shower stall or shower enclosure.
19. Article 410.10 shall be amended to add the following:  

(G) Ceiling mounted, open or exposed, glass tube fluorescent luminaires shall be provided with fall protection for the light bulbs.
20. Article 410.30 (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.



21. Article 422.16 (B) shall be amended to add the following:

(5) All dishwashers and food waste disposals installed in residential occupancies shall be hardwired and shall be equipped with a disconnect located within sight of the appliance.

Exception: Appliances equipped with factory-installed power cords.

22. Article 700.12.12 IV shall be amended to add the following:

Emergency systems shall be properly identified.

23. 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.

24. 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.

25. Requirements for Electrical Contractors:

It shall be unlawful for any person to engage in the business of electrical contracting without being a licensed Electrical Contractor. If such person is licensed for the current year in another City or Village within the State of Illinois, in conformity with the State Statutes, such Electrical Contractor shall be required to show proof of such license. The term "Licensed Electrical Contractor" as used in Section shall be understood to mean any person installing or altering electric equipment for the utilization of electricity supplied for light, heat or power; not including radio apparatus or equipment for wireless reception of sounds and signals, conductors and other equipment installed under the jurisdiction of the Illinois Commerce Commission, for use in their operation as Public Utilities; but the term "Licensed Electrical Contractor" does not include employees of an electrical contractor who perform and supervise work. The Corporate Authorities, by virtue of the Illinois Compiled Statutes, requires candidates for electrical contracting to successfully complete a written examination administered by any Illinois Municipality that administers written examinations.

#### 23.14 ILLINOIS STATE PLUMBING CODE/2014

The Illinois State Plumbing Code, 2014 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 INTERNATIONAL ENERGY CONSERVATION CODE/2018

The International Energy Conservation Code, 2018 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.

### 23.16 MODIFICATIONS TO THE ENERGY CONSERVATION CODE

The Energy Conservation Code shall be amended as follows:

1. Section C101.1, insert Village of Algonquin
2. Section C109 shall be amended to add the following:

**C109.1 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.

3. Section C109.3 Qualifications, shall be deleted in its entirety

### 23.17 INTERNATIONAL EXISTING BUILDING CODE/2018

The International Existing Building Code, 2018 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.

### 23.18 MODIFICATIONS TO THE EXISTING BUILDING CODE

The Existing Building Code shall be amended as follows:

1. Section [A] 101.1, insert Village of Algonquin
2. Section [A] 101.2 shall be amended to read as follows:

**[A]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. 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 [A] 105.2, Work exempt from permit, delete: 1, 3, 4, and 5.
4. Section [A] 112.1 shall be amended to read as follows:

**[A] 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 [A] 112.3, Qualifications, shall be deleted in its entirety.

#### 23.19 **INTERNATIONAL PROPERTY MAINTENANCE CODE/2018**

The International Property Maintenance Code, 2018 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.

#### 23.20 **MODIFICATIONS TO THE PROPERTY MAINTENANCE CODE**

The Property Maintenance Code shall be amended as follows:

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

**[A] 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 [A] 111.2 Membership of board, shall be deleted in its entirety.
4. Section [A] 111.3 Notice of meeting, shall be deleted in its entirety.
5. Section [A] 111.4 Open hearing, shall be deleted in its entirety.
6. Section [A] 111.5 Postponed hearing, shall be deleted in its entirety.
7. Section [A] 111.6 Board decision, shall be deleted in its entirety.
8. Section 302.2 shall be amended to add:

**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.

9. Section 302.4, 8 inches shall be inserted.

10. 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 ap- proved 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.

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

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

**308.2 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.

13. Section 308.2 shall be amended add:

**308.2.3 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.

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

**SECTION 310 YARDWASTE COMPOSTING.**

**310.1 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.

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

**310.2.1 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

**310.2.2 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

**310.2.3 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

**310.2.4 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.

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

16. Section 602.4, insert September 15 to May 15.
17. 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.

18. The following sections shall be added:

**SECTION 706            SALT STORAGE**

**706.1 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>.

### 23.21 ILLINOIS ACCESSIBILITY CODE/2018

The Illinois Accessibility Code, effective date October 23, 2018, (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.

### 23.22 INTERNATIONAL SWIMMING POOL AND SPA CODE/2018

The International Swimming Pool and Spa Code, 2018 edition, (“Swimming Pool and Spa 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.

### 23.23 MODIFICATIONS TO THE SWIMMING POOL AND SPA CODE

The Swimming Pool and Spa Code shall be amended as follows:

1. Section [A] 101.1 insert Village of Algonquin.
2. Section [A] 108.1 shall be amended to read as follows:

**[A]108.1 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. The following sections shall be deleted in their entirety

Section [A] 108.2 Membership of board  
Section [A] 108.2.1 Qualifications  
Section [A] 108.2.2 Alternate members  
Section [A] 108.2.3 Chairman  
Section [A] 108.2.4 Disqualification of member  
Section [A] 108.2.5 Secretary  
Section [A] 108.2.6 Compensation of members  
Section [A] 108.3 Notice of meeting  
Section [A] 108.4 Open hearing  
Section [A] 108.5 Postponed hearing

Section [A] 108.6 Board decision  
Section [A] 108.6.1 Resolution  
Section [A] 108.6.2 Administration

4. Section 305.5 Onground residential pool structure as a barrier, shall be amended to read as follows:

**Onground residential pool structure as a barrier.** Where an onground 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 and the bottom of the barrier shall be four inches. The minimum vertical height of the barrier above the top of the pool shall be 18 inches and in no case shall the top of barrier be less than 48 inches above grade for the entire perimeter of the pool and comply with the requirements of Section 305.2. Where the barrier is mounted on top of the pool structure and means of access is a ladder or steps:

1. The ladder or steps shall be designed and manufactured to meet the barrier requirements of Section 305.2; or
2. The ladder or steps shall be surrounded by a barrier which meets the requirements of Section 305.2.

#### 23.24 PERMIT FEE SCHEDULE

Permit fees are found in Appendix B of this Code.

#### 23.25 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.

#### 23.26 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.