

VILLAGE OF DOWNERS GROVE
COUNCIL ACTION SUMMARY

INITIATED: Code Services **DATE:** April 5, 2005
(Name)

RECOMMENDATION FROM: _____ **FILE REF:** _____
(Board or Department)

NATURE OF ACTION:

- Ordinance
- Resolution
- Motion
- Other

STEPS NEEDED TO IMPLEMENT ACTION:

Motion to Adopt "AN ORDINANCE ADOPTING THE 2000 INTERNATIONAL BUILDING CODE", as presented.



SUMMARY OF ITEM:

Adoption of the attached ordinance will adopt the 2000 International Building Code.

RECORD OF ACTION TAKEN:

ORDINANCE NO. _____

AN ORDINANCE ADOPTING THE 2000 INTERNATIONAL BUILDING CODE

BE IT ORDAINED by the Village Council of the Village of Downers Grove in DuPage County, Illinois, as follows: (Additions are indicated by /underline; deletions by ~~strikeout~~):

Section 1. That Section 7.7. is hereby amended to read as follows:

7.7. International Building Code--Adoption.

The ~~Building Officials and Code Administrators National~~ International Code Council International Building Code, as promulgated by ~~Building Officials and Code Administrators International, Inc. International Code Council ("ICC")~~, being particularly the ~~1996~~2000 edition thereof, is hereby adopted for the purpose of establishing rules and regulations for the construction, alteration, removal, demolition, equipment, use and occupancy, location and maintenance of buildings and structures, including permits and penalties required for such purposes. The same is adopted in its entirety, save and except such portions as are hereinafter deleted, modified or amended, and is, together with such amendments, incorporated as fully as if set out at length herein, and shall control in the construction of all buildings and structures therein regulated within the ~~v~~Village. Said Building Code, as modified and amended, may be referred to for all purposes as the "Downers Grove Building Code" or the "Building Code". At least one copy of said Code, including such amendments to it as shall be enacted, shall be filed in the office of the Village Clerk, and additional copies shall be available in the Code Services Department of the Village. (Ord. No. 1281, § 1; Ord. No. 1586, § 1; Ord. No. 2143, § 2; Ord. No. 2584, § 2; Ord. No. 2857, § 2; Ord. No. 3184, § 2; Ord. No. 3391, § 2.)

Section 2. That Section 7.8. is hereby amended to read as follows:

7.8. Definitions.

For the purposes of the Building Code, the following words and phrases shall have the meanings respectively ascribed to them by this section:

Building official. The Director of Code Services of the Village.

Department of Building Safety and/or Department of Code Services. The Village of Downers Grove Code Services Department.

Legal counsel or legal officer. The Village Attorney for the Village of Downers Grove.

Jurisdiction. The Village of Downers Grove. (Ord. No. 1281, § 8; Ord. No. 1586, § 8; Ord. No. 2143, § 3; Ord. No. 2544, § 2.)

Section 3. That Section 7.9. is hereby amended to read as follows:

7.9. Same--Amendments.

The deletions from and modifications and amendments to the ~~Building Officials and Code Administrators National~~2000 International Building Code as referred to in Section 7-7 are the following:

(a) ~~Sections 104.1 through 104.5, 104.7 and 105.8 are amended by deleting the same in their entirety.~~

(b) ~~Section 107.1 is amended by deleting the same in its entirety and by substituting in lieu thereof the following:~~

~~"It shall be unlawful to construct, add to, alter, remove or demolish, or to commence the~~

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construction, addition, alteration, removal or demolition of any building or structure, or to install equipment for the operation of a building or structure without first filing with the building official an application in writing and obtaining a formal permit, except that no permit shall be required for sheds, as defined and regulated in the Comprehensive Zoning Ordinance of the Village of Downers Grove, passed and approved April 19, 1965, as amended."

(c) - Sections 107.6 and 107.6.1 are amended by deleting the same in their entirety and by substituting in lieu thereof the following:

"When required by the building official, there shall be submitted a plot plan in a form and size designated by the building official for filing permanently with the permit record, drawn to scale, with all dimensions figured, showing accurately the size and exact location of all proposed new construction and excavation and the relation to other existing or proposed buildings or structures on the same lot and other buildings or structures on adjoining property within fifteen feet of the property lines. In the case of demolition, the plot plan shall show the buildings or structures to be demolished and the buildings or structures on the same lot that are to remain.

If the permit application contemplates any excavation in connection with a proposed building or structure, there shall also be submitted, if required by the building official, a plan or description of any bracing, shoring, piling or other safety structures required by Chapter 33."

(d) Section 108.1 is amended by deleting the same in its entirety and by substituting in lieu thereof the following:

"The building official shall examine applications for permits within a reasonable time after filing. If, after examination, the building official finds no objections to the same and it appears that the proposed work will be in compliance with the laws and ordinances applicable thereto and the proposed construction work will be safe, he shall approve such application and issue a permit for the proposed work as soon as practicable."

(e) Section 111.4 is amended by deleting the same in its entirety and by substituting in lieu thereof the following:

"The location of all new construction, excavation and grading work as shown on the approved plot plan or an approved amendment thereto, shall be strictly adhered to."

(f) Section 112.0 is amended by deleting the same in its entirety and by substituting in lieu thereof the following:

Section 112.0 Fees

112.1 Determination of fees:--All fees for permits under this Code shall be determined in accordance with the provisions of Section 7-11 of the Downers Grove Municipal Code.

(g) Section 113.2 is hereby amended by adding at the conclusion thereof the following:

"The required inspections are as follows:

1. footing
2. foundation
3. plumbing
4. rough electrical
5. rough framing
6. electrical service
7. garage floor
8. basement floor
9. slab on grade
10. final inspection for issuance of certificate of occupancy
11. Additional inspections as required by the building official which are necessary

to assure code compliance"

(1) Section 101.1 is amended by deleting the same in its entirety.

(2) Section 101.4.1 is amended by deleting the same in its entirety and by substituting in lieu thereof the

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following:

101.4.1 Electrical.

The provisions of the National Electrical Code as adopted and amended by the Village shall apply to the installation of electrical systems, including alterations, repairs, replacement, equipment, appliances, luminaries, fittings and appurtenances thereto, and shall be referenced any time this Code refers to electrical.

(3) Section 101.4.4 is amended by deleting the same in its entirety and by substituting in lieu thereof the following:

101.4.4 Plumbing.

The provisions of the Illinois State Plumbing Code as adopted and amended by the Village shall apply to the installation, alteration, repairs and replacement of plumbing systems, including equipment, appliances, fixtures, fittings and appurtenances.

(4) Section 101.4.6 is amended by deleting the same in its entirety and by substituting in lieu thereof the following:

101.4.6 Fire Prevention.

The provisions of the International Fire Code as adopted and amended by the Village shall apply to matters affecting or relating to structures, processes and premises regarding: (a) hazard of fire and explosion arising from the storage, handling or use of structures, materials or devices; (b) conditions hazardous to life, property or public welfare in the occupancy of structures or premises; and (c) construction, extension, repair, alteration or removal of fire hazards in the structure or on the premises from occupancy or operation.

(5) Section 103 is amended by deleting the same in its entirety.

(6) Section 105.2 is amended by deleting the same in its entirety.

(7) Section 105.7 is amended by deleting the same in its entirety and by substituting in lieu thereof the following:

105.7 Placement of Permit.

The building permit or copy shall be kept on the site and shall be visible from the street until the completion of the project.

(8) Section 106.1 is amended by deleting the same in its entirety, leaving the exception and by substituting in lieu thereof the following:

106.1 Submittal Documents.

Construction documents shall be submitted in one or more sets with each application for permit. The construction documents shall be prepared by an Illinois registered Architect or Structural Engineer.

(9) Section 106.2 is amended by deleting the same in its entirety and by substituting in lieu thereof the following:

106.2 Site Plan.

The construction documents submitted with the application for permit shall be accompanied by a site plan drawn and stamped by the Illinois State registered Architect or Structural Engineer of record. The drawing will show the size and location of the new construction, the existing structures on the site and the distances from the lot lines. A plat of survey must accompany the site plan. In the case of demolition, the site plan or survey shall show the construction to be demolished. The building official is authorized to waive or modify the requirement for a site plan when the application for permit is for alteration or repair or when otherwise warranted.

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(10) Section 107.3 is amended by deleting the words "ICC Electrical Code" and substituting in lieu thereof the following:

107.3 Temporary Power.

The National Electrical Code as adopted and amended by the Village.

(11) Section 107.4 is amended by deleting the same in its entirety and by substituting in lieu thereof the following:

107.4 Termination of Approval.

The building official is authorized to terminate a permit for temporary structure or use and to order the temporary structure or use to be discontinued and to be removed.

(12) Section 108.6 is amended by deleting the same in its entirety and substituting in lieu thereof the following:

108.6 Refunds.

The code official shall authorize the refunding of fees as follows:

a. The full amount of any fees erroneously paid or collected hereunder, except that review fees and twenty-five percent (25%) of the administrative fee will not be refunded.

b. Not more than fifty percent (50%) of the permit fee will be refunded in the event that work has not commenced within sixty (60) days of issuance of the permit.

c. There shall be no refund of any fees more than 60 days after the issuance of the permit or if any work pertaining to the permit has started.

(13) Section 109.3 is amended by deleting the following in their entirety: 109.3, 109.3.1, 109.3.2, 109.3.3, 109.3.4, 109.3.5, 109.3.7, 109.3.9, 109.3.10 and by substituting in lieu thereof the following:

109.3 Required Inspections.

For on-site construction, from time to time the building official, upon a 24-hour notification from the permit holder or his agent, shall make or cause to be made any necessary inspections and shall either approve that portion of the construction as completed or shall notify the permit holder or his/her agent wherein the same fails to comply with this code. The required inspections are as follows:

a. Footing, prior to installation of concrete. (Contractor or representative are required to be present for this inspection.)

b. Foundation, prior to backfill.

c. New construction, a spot survey is to be provided, checked and approved prior to any additional work being done.

d. Plumbing, a stack test is required with water from the highest drain. (Contractor or representative is required to be present for this inspection.)

e. Rough Framing and Electrical. (Contractor or representative is required to be present for this inspection.)

f. Insulation. (Contractor or representative is required to be present for this inspection.)

g. Electrical certification.

h. Commercial Ceiling. (Contractor or representative is required to be present for this inspection.)

i. Garage Floor. (Contractor or representative is required to be present for this inspection.)

j. Basement Floor

k. Floors on Grade

Before concrete is poured in/on basement floors, slabs on grade or any concrete floor within a structure, an inspection will be required on all of the building service equipment, conduit, piping, and any other ancillary equipment placed in the floor/slab.

l. Final. (Contractor or representative are required to be present for this inspection.) A spot survey will be required by the Director of Code Services or the Chief Building Inspector when it is apparent the

need for further clarification is required for the proper placement of a structure on a zoning lot.

(h14) Section ~~121-0112~~ is amended by deleting the same in its entirety and by substituting in lieu thereof the following:

Section ~~121-0112.0~~ Board of Appeals

~~121-112.1~~ Appointment.

There is hereby established in the municipality a board to be called the Board of Appeals, consisting of seven members who are qualified by experience and training to pass upon matters pertaining to building construction and who shall be appointed by the Village Manager, subject to the approval of the Village Council. Members shall hold office for their designated terms and until their successors have been appointed. The Village Manager shall designate one of the members to serve as chairman.

~~121-112.2~~ Term of office.

The Village Manager shall appoint seven members for staggered terms of three years. Vacancies shall be filled for an unexpired term in the manner in which the original appointments are required to be made. Continued absence of any member from regular meetings of the board shall, at the discretion of the Village Manager, render any such member liable to immediate removal from office by the Village Manager.

~~121-112.3~~ Affirmative votes.

In varying the application of any provision of this Code or in modifying an order of the building official, affirmative votes of four members shall be required. No member of the board shall pass vote upon any question in which he, or any corporation in which he is a shareholder, is interested.

~~121-112.4~~ Meetings and records.

Meetings of the board shall be held at the call of the chairman and at such other times as the board may determine. All hearings before the board shall be open to the public. The board shall keep minutes of its proceedings, showing the vote of each member upon every question, or if absent or failing to vote, indicating such facts, and shall also keep records of its examinations and other official action. Such minutes and such records shall be public records.

~~121-112.5~~ Procedure.

The board shall establish rules and regulations for its own procedure not inconsistent with the provisions of this Code.

~~121-112.6~~ Appeals.

a. Any person aggrieved or the head of any agency of the municipality may take an appeal to the Board of Appeals from any decision of the building official.

b. An appeal may be taken within thirty days from the date of the decision appealed, by filing with the building official and with the Board of Appeals a notice of appeal, specifying the grounds thereof, except that in the case of a building or structure which in the opinion of the building official, is unsafe or dangerous, the building official may in his order limit the time for such appeal to a shorter period. The building official shall forthwith transmit to the Board of Appeals all the papers upon which the action appealed from was taken.

~~121-112.7~~ Modifications and variations by the Board of Appeals.

a. The Board of Appeals, when so appealed to and after a public hearing, may vary the application of any provision of this Code to any particular case when, in its opinion, the enforcement thereof would do manifest injustice, and would be contrary to the spirit and purpose of this Code or public interest, or when, in its opinion, the interpretation of the building official should be modified or reversed.

b. A decision of the Board of Appeals to vary the application of any provision of this Code, or to modify an order of the building official, shall specify in what manner such variation or modification is made, the conditions upon which it is made, and the reasons therefor.

~~121-112.8~~ Decisions of the Board of Appeals.

a. The Board of Appeals shall in every case reach a decision without unreasonable or unnecessary delay. Every decision of the Board of Appeals shall be in writing and shall indicate the vote

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upon the decision. Every decision shall be promptly filed in the office of the building official and shall be open to public inspection. A certified copy shall be sent by mail or otherwise to the appellant and a copy shall be kept publicly posted in the office of the building official for 2 weeks after filing.

b. If a decision of the Board of Appeals reverses or modifies a refusal, order, or disallowance of the building official, or varies the application of any provision of this Code, the building official shall take action immediately in accordance with such decision.

~~12112.9~~ Appeals from decisions of the Board of Appeals.

A person aggrieved by a decision of said board, whether previously a party to the proceeding or not, may, within 15 days after the filing of the decision in the office of the building official, ~~apply~~ appeal to the appropriate court to correct errors of law in such decisions.

~~(15) Section 201.3 is amended by deleting the words "International Plumbing Code" and substituting in lieu thereof the following:~~

~~Illinois State Plumbing Code as adopted and amended by the Village.~~

~~(i) Sections 310.5 and 310.6 are amended by deleting the same in their entirety and substituting the following:~~

~~"310.5 Use Group R-3 Structures:--This use group shall include all buildings arranged for occupancy as one or two family dwelling units and includes a child care facility which accommodates five or less children of any age. -- Unless otherwise provided herein, all such structures shall be designed in accordance with the the provisions contained in Article II of Chapter 14 of this Code.~~

~~310.6 Use Group R-4 Structures:--This use group shall include all detached one or two family dwellings not more than three stories in height, and the accessory structures as indicated in the provisions contained in Article II of Chapter 14 of this Code. -- Unless otherwise provided herein, all such structures shall be designed in accordance with the Suburban Building Officials Conference Building Code as adopted and amended.~~

~~(j) The provisions of Chapters 3 through 16, and 27 through 30 shall not apply to one and two family dwellings (Use Groups R-3 and R-4), including duplexes and two flats. -- All of the remaining Chapters of the BOCA National Building Code shall apply to one and two family dwellings.~~

~~(k16) Section 403.1 is amended by deleting the second exception, therein reading "2. Open parking structures (see Section 406.0)."~~

~~(l17) Section 403.2 is amended by deleting the exceptions thereto in their entirety.~~

~~(m18) Section 403.67 is amended by deleting the same in its entirety, and substituting in lieu thereof the following:~~

403.7 Fire Department Communication System.

A two-way Fire Department communication system shall be provided for Fire Department use. The communication station shall operate between the central control system and every elevator cab, enclosed stairway landing, emergency generator room, building engineer's office, fire pump room, remote alarm panel and remote sprinkler riser locations.

The two-way communications system shall consist of a telephone system with plug-in handsets capable of use in the designated jacks. Location of the jacks, zoning of the two-way communication system, and the number of handsets required, will all be determined by the Fire Department.

~~(19) Section 415.7.4 is amended by deleting the words "International Plumbing Code" and substituting in lieu thereof the following:~~

~~Illinois State Plumbing Code as adopted and amended by the Village~~

~~(20) Section 415.9.2.8.1 is amended by deleting the words "ICC Electrical Code" and substituting in lieu~~

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thereof the following:

The National Electrical Code as adopted and amended by the Village.

(n) Section 403.7 is amended by adding the following to the introductory paragraph:

"The following items must also be provided in the central control station:

One table or desk large enough to spread out prints.

One chair.

One complete set of AS-BUILT building prints.

One complete set of AS-BUILT fire alarm system prints, along with alarm system instruction manual and specifications.

One complete set of AS-BUILT sprinkler system prints.

Handsets for Fire Department communications system, properly labeled, and in locked box(es). The quantity must be as specified by the Fire Department.

Current list of key personnel with phone numbers.

A number of complete sets of keys as specified by the Fire Department for the building, elevators, alarm system, and any other keys needed for access or control of systems, all inside a locked cabinet. The cabinet and keys must be properly identified.

High rise equipment box as specified by the Fire Department with equipment also as specified by the Fire Department. The box shall be secured within close proximity to the fire command room.

(o) Section 403.8 is amended by deleting the words "24 inches (610 mm) by 76 inches (1930 mm) in the horizontal open position", and substituting in lieu thereof the words "30 inches (762 mm) by 76 inches (1930 mm) in the horizontal open position without any adjustment or lifting of the eot and four firefighters dressed in protective gear".

(p) Section 405.8 is amended by deleting "Section 2707.0" and by substituting the words "the National Electrical Code as adopted and amended by the Village in Chapter 10, Article III, of this Code".

(q) Section 408.3.1 is amended by deleting the same in its entirety, and substituting in lieu thereof the following:

"Sprinkler System: Public garages shall be equipped throughout with an automatic sprinkler system in accordance with Section 906.2.1 as amended."

(r) Table 503 is amended by deleting therefrom all height limitations under the columns jointly labeled "Types 3III and 4IV" and by substituting in lieu thereof a height limitation of thirty-five feet for all uses under such columns.

Tables 503, 601 and 602 are further amended by deleting the columns jointly labeled "Type 5V" in their entirety.

(22) Section 716.5 is amended by deleting the words "International Plumbing Code" and substituting in lieu thereof the following:

Illinois State Plumbing Code as adopted and amended by the Village

(23) Section 901.6 is amended by deleting the same in its entirety and by substituting in lieu thereof the following:

901.6 Supervisory Services.

All Alarm and Detection Systems as described in Section 907 of this code shall be supervised by a connection to the Village Operations Center in the manner specified by the Municipal Code and shall transmit alarm and trouble signals.

(s) Delete the reference to "Section 906.2.2" therein and substitute in lieu thereof "Section 906.2.1."

(t) Sections 904.1903.1 through 904.9903.2.12 are amended by deleting the same in their entirety and by substituting in lieu thereof the following:

"904.1903.1 Where Required.

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Automatic sprinkler systems shall be installed and maintained in full operating condition, as specified in this code, in all buildings and structures, including open parking structures, regardless of street frontage or fire walls, which exceed two stories or 25 feet in height or which have a total area in excess of the applicable square footage listed in Table 904903.

TABLE 904903

Total area square footages above which installation of automatic sprinkler systems are required:

<u>Use Group</u>	<u>Types of Construction</u>				
	<u>1A, B, 2A and 2B</u>	<u>2C</u>	<u>3A</u>	<u>3B</u>	<u>4</u>
A-1 Assembly, theaters	9,8440	6,3000	8,6620	6,3000	9,4500
A-2 Assembly, nightclubs and similar uses	2,8120	1,8000	2,4750	1,8000	2,7000
A-3 Assembly (lecture halls recreation centers, terminals, restaurants other than night clubs)	9,8440	6,3000	8,6620	6,3000	9,4500
A-4 Assembly, churches	10,8000	10,8000	12,0000	12,0000	12,0000
B Business	16,8751,500	10,8001,500	14,8501,500	10,8001,500	16,2001,500
E Educational	16,8755,000	10,8005,000	14,8055,000	10,8005,000	16,2005,000
F-1 Factory and industrial, moderate	11,2505,000	7,2005,000	9,9005,000	7,2005,000	10,8005,000
F-2 Factory and industrial, low	16,8755,000	10,8005,000	14,8505,000	10,8005,000	16,2005,000
H-1 High hazard, detonation hazards		Automatic Sprinkler System Required In All			
H-2 High hazard, deflagration hazards		Automatic Sprinkler System Required In All			
H-3 High hazard, physical hazards		Automatic Sprinkler System Required In All			
H-4 High hazard, health hazards		Automatic Sprinkler System Required In All			
I-1 Institutional, residential care		Automatic Sprinkler System Required In All			
I-2 Institutional, incapacitated		Automatic Sprinkler System Required In All			
I-3 Institutional, restrained		Automatic Sprinkler System Required In All			
M Mercantile	11,2502,500	7,2002,500	9,9002,500	7,2002,500	10,8002,500
R-1 Residential, hotels		Automatic Sprinkler System Required In All			
R-2 Residential, multiple-family		Automatic Sprinkler System Required In All			
R-3 Residential, one and two family		As required under the Suburban Building Officials Conference Building Code as adopted and amended in Subsection 7-9(i) of the Downers Grove Municipal Code.			
S-1 Storage, moderate	9,8445,000	6,3005,000	8,8625,000	6,3005,000	9,4505,000
S-2 Storage, low	16,8755,000	10,8005,000	14,8505,000	10,8005,000	16,2005,000
U Utility, misc.		For accessory structures, the sprinkling requirements for the corresponding principal use shall be used.			

(#25) Section 906.2-1903.3.1.1.1 is amended by adding the following exception at the conclusion thereof:
 "3-6. Sprinklers may be omitted from attics, crawl spaces, floor ceiling spaces, and other concealed

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spaces that are not used or intended for living purposes or storage."

(v) Sections 906.2.2 and 906.2.3 are deleted in their entirety.

(26) Section 903.3.5 is amended by deleting the words "International Plumbing Code" and substituting in lieu thereof the following:

Illinois State Plumbing Code as adopted and amended by the Village

(w27) Section 906.3.5.3 is amended by adding at the conclusion thereof the following sentence: section:

903.3.5.3 Post Indication Valve Prohibited. "The use of post indicator valves and wall post indicator valves are prohibited."

(x) Section 906.0 is amended by adding the following section:

906.3.1 Fire Pump: "When a fire pump is installed to meet the hydraulic needs of an automatic sprinkler system, it shall operate automatically at all times by connection to an automatically switched emergency power generator of sufficient capacity per the National Electric Code (NFPA 90) as adopted by the Village."

(28) Section 903.4.2 is amended by adding the following section:

903.4.2.1. Alarm Indicating Appliances.

Audio/visual devices shall be provided, seen and heard in all areas of every building. All sprinkled buildings shall be provided with audio/visual devices. At least one exterior audio/visual device shall be mounted over the fire department connection.

(29) Section 903.4.3 is amended by deleting the word "high-rise" and replacing it with "multiple story buildings".

(30) Section 903.6 is hereby added as follows:

903.6 PSI Safety Factor.

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

(31) Section 903.7 is hereby added as follows:

903.7 Hydraulic Nameplate.

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

(32) Section 903.7.1 is hereby added as follows:

903.7.1 Industrial Occupancy Connections.

For industrial occupancy buildings that have large sprinkler systems or fire protection water demands, provide a minimum 5" inch fire department STORTZ connection.

(33) Section 903.8 is hereby added as follows:

903.8 NFPA Standard Appendices.

The appendices of all NFPA standards are to be considered as part of each standard and are mandatory requirements.

(34) Section 903.9 is hereby added as follows:

903.9 NFPA Standards - Adopted.

The following NFPA standards are hereby adopted:

- a. NFPA 14, Standpipe and Hose Systems, 2000 Edition
- b. NFPA 20, Installation of Centrifugal Fire Pumps, 1999 edition

c. NFPA 25, Inspection, Testing and Maintenance of Water-based Fire Protection System, 1998 edition.

d. NFPA 96, Installation of Equipment for Removal of Smoke and Grease-Laden Vapors for Commercial Cooking Equipment, 1998 edition.

e. NFPA 231, General Storage, 1998, edition.

f. NFPA 231C, Rack Storage, 1998 edition.

g. NFPA 231D, Storage of Rubber Tires, 1998 edition.

h. NFPA 30B, Manufacturer and Storage of Aerosol Products, 1998 edition.

(35) Section 903.10 is hereby added as follows:

903.10 Fire Sprinkler System; Fire pump test header.

a. Add-provide an OS&Y control valve on fire pump installations.

b. Provide an outside test header on the fire pump installation.

(36) Section 903.11, is hereby added as follows:

903.11. Yard Hydrants.

Fire hydrants shall be provided around the perimeter of the building in 300' foot increments. A municipal fire hydrant shall be located within 100' feet of the fire department connection on the fire protection water supply to the building. Yard Hydrants shall be tested annually and inspection reports submitted to the Downers Grove Fire Department.

(37) Section 903.12 is hereby added as follows:

903.12 Separate Zones Required.

Manual Pulls, A/V and detectors to be on separate zones per floor.

(38) Section 903.13 is hereby added as follows:

903.13 Access.

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

(39) Section 903.14 is hereby added as follows:

903.14 Separate Valve Room/Fire Pump Room.

Provide a minimum 2 hour separate sprinkler valve room and/or fire pump room.

(40) Section 903.15 is hereby added as follows:

903.15 Check Valve Required.

Provide a check valve in each sprinkler riser.

(41) Section 903.16 is hereby added as follows:

903.16 Residential/Quick Response Sprinklers.

All offices, assembly and residential building and areas shall be provided with residential and/or quick response sprinklers.

Exception: detached single family

(42) Section 903.17 is hereby added as follows:

903.17 Warehouse Valves.

In all warehouse storage areas where storage exceeds 12' feet height, provide inside 2 1/2" fire hose valves with 1 1/2" reducer to a 1 1/2" connection. Locate the valves at each door entrance to the warehouse and/or storage area. Provide additional 2 1/2" fire hose valves so that no portion of the warehouse and/or storage area is more than 120' feet maximum travel distance to a fire hose valve. Show the location of all obstructions and/or racks on the drawing.

(43) Section 903.17.1 is hereby added as follows:

903.17.1 Fire Hose Valve System.

The fire hose valve system piping shall be:

- a. A separate riser piping system.
- b. Hydraulically calculated for a minimum of 250 gpm at 75 psi to the most hydraulically remote fire hose valve.
- c. Where system pressures exceed 100 psi provide Potter reduced pressure field adjustable type valve.

(44) Section 903.18 is hereby added as follows:

903.18 Single Family Home Sprinkler Systems.

Provide a minimum NFPA 13 D sprinkler system in all single-family homes.

Exception: detached single family homes

(45) Section 903.19 is hereby added as follows:

903.19 Addressable Fire Alarm Systems.

All fire alarm systems shall be of the addressable type.

(46) Section 903.20 is hereby added as follows:

903.20 Computer Code Analysis Prohibited.

Performance-based computer code analysis are prohibited.

(47) Section 903.21 is hereby added as follows:

903.21 XL Thin Wall Pipe Prohibited.

The use of XL thin-wall pipe is prohibited.

(48) Section 904.3.1 is amended by deleting the words "ICC Electrical Code" and substituting in lieu thereof the following:

The National Electrical Code as adopted and amended by the Village.

(49) Section 904.3.4 is amended by adding the following:

Kitchen hood suppression systems shall be connected to the building fire alarm system.

(50) Section 905.3.1 is amended by deleting "30 feet (9144 mm)" and by substituting in lieu thereof the following:

"22 feet"

(51) Section 905.3.2 is amended by deleting the exceptions in their entirety.

(52) Section 905.4 is amended by adding the following:

7. The number of risers for multi-story buildings shall be such that all parts of every floor area can be reached by a 30-foot hose stream from a nozzle attached to not more than 100 feet of hose connected to a riser outlet. Standpipe hose connections shall be required to be located in enclosed stairways at each level in multi-story buildings.

(53) Section 905.7 is amended by adding a new section as follows:

905.7.3 Cabinet Equipment Specifications.

The connection shall be not more than 5 feet above the floor and consist of a 2 1/2 inch hose connection with valves and threads conforming to Fire Department standards. If deemed necessary by the

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Fire Department, a 1 1/2 inch hose connection equipped with not more than 100 feet of 1 1/2 inch approved fire hose, an approved shut-off valve, nozzle, and couplings, and an approved rack or cabinet for storing the hose shall be required.

(y) Section 906.5 is amended by deleting the second exception therein in its entirety.

(54) Section 907.1.2 is amended by adding the following at the conclusion thereof:

All Alarm and Detection Systems as described in Section 907 of this code shall be supervised by a connection to the Village Operations Center in the manner specified by the Municipal Code and shall transmit alarm, supervisory, and trouble signals.

(55) Section 907.2 is amended by deleting the same in its entirety and by substituting in lieu thereof the following:

907.2 Where Required.

(a) An approved manual fire alarm system shall be installed and maintained in all Use Groups except in single family homes and as provided in Section 907.2.6.

(b) An approved automatic fire detection system shall be installed and maintained in all Use Groups, not provided with an automatic sprinkler system, and in accordance with NFPA 72. Devices, combination of devices, appliances and equipment shall comply with Section 907.1.2. The automatic fire detectors shall be smoke detectors, except that an approved alternative type of detector shall be installed in spaces such as boiler rooms where during normal operation, products of combustion are present in sufficient quantity to activate a smoke detector.

(56) Section 907.2.1 is amended by deleting the same in its entirety.

(57) Section 907.2.1.1 is hereby renumbered to 907.2.1.

(58) Sections 907.2.2, 907.2.3, 907.2.4, 907.2.5, 907.2.6 and 907.2.6.1 are amended by deleting the same in their entirety.

(59) Section 907.2.6.2 is hereby renumbered to 907.2.6.

(60) Section 907.2.8 is amended by deleting the same in its entirety.

(61) Section 907.2.9 is amended by deleting the same in its entirety.

(62) Section 907.2.12 is amended by deleting "75 feet (22 860 mm)" and substituting the following in lieu thereof:

"45 feet"

(63) Section 907.2.12.3 is amended by deleting the exception.

(64) Section 907.2.12 is amended by adding the following new section:

907.2.12.4 High Rise Communications System.

In all buildings defined as high-rise, suitable fire department radio communications in addition to hard-wired systems shall be approved prior to construction. Suitable repeaters or antenna systems shall be approved by the fire department.

(65) Section 907.2.18.1 is amended by adding the following to #1 after the word "machine": "fire alarm room and sprinkler room".

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(66) Section 907.2.19 is amended by adding the words "and automatic fire detection system" after the words "manual fire alarm system".

(67) Section 907.3.1 is amended by deleting the exception.

(68) Section 907.5 is amended by deleting the words "ICC Electrical Code" and substituting in lieu thereof the following:

National Electrical Code as adopted and amended by the Village

(69) Section 907.8.2 is amended by deleting "75 feet (22 860 mm)" and substituting the following in lieu thereof:

"40 feet"

(70) Section 907.9.1 is amended by deleting the exceptions.

(71) Section 907.14 is amended by adding the following at the end of the first paragraph:

All fire alarm systems shall be supervised by connection to the Village fire alarm receiving panel in the manner specified by the Municipal Code and shall transmit alarm, trouble and supervisory signals.

(72) Section 907.14 is further amended by deleting the exceptions and substituting in lieu thereof the following:

Exceptions:

1) Supervisory service is not required for automatic sprinkler systems in one-and two-family dwellings.

2) In lieu of connecting to the Village's alarm receiving panels as set fourth in Section 907.14 any property within the municipal limits of Downers Grove which is under the jurisdiction of a fire protection district organized pursuant to state law shall instead connect to the alarm receiving panels of the fire protection district. Such alternative connection shall be according to the fire protection district's rules and regulations for connection.

(73) Section 909.11 is amended by deleting the words "ICC Electrical Code" and substituting in lieu thereof the following:

National Electrical Code as adopted and amended by the Village

(74) Section 909.12.1 is amended by deleting the same in its entirety and by substituting in lieu thereof the following:

909.12.1 Wiring.

In addition to meeting requirements of the National Electrical Code, as adopted and amended by the Village, all conductors with a voltage over 50v will need to be fully enclosed within a continuous raceway.

(75) Section 909.16.3 is amended by deleting the words "ICC Electrical Code" and substituting in lieu thereof the following:

National Electrical Code as adopted and amended by the Village

(76) Section 909.20.3 is amended by deleting the same in its entirety:

(77) Section 911.1 is amended by deleting 12 and 13 in their entirety and by substituting in lieu thereof the following:

911.1 Fire Command Center.

12. A complete set of building plans indicating the typical floor plan and detailing the building

~~core, means of egress, fire protection systems, firefighting equipment, fire department access a complete set of as built fire alarm system prints along with the alarm system instruction manual and specifications.~~

~~13. A table large enough to spread out the plans that were indicated above and one chair.~~

~~(78) Section 911.1 is further amended by adding the following:~~

~~16. Handsets for fire department communications system, properly labeled, and in locked box(es). The quantity must be as specified by the fire department.~~

~~17. A current list of key personnel with phone numbers.~~

~~18. A number of complete sets of keys as specified by the fire department for the building, elevators, alarm system, and any other keys needed for access or control of system, all inside locked cabinets. Keys are to be clearly marked for identification.~~

~~19. High-rise equipment box as specified by the Fire Department with equipment also as specified by the Fire Department. The box shall be secured within close proximity to the fire command room.~~

~~(79) A new Section 912.1 is hereby added:~~

~~**912.1 Fire Pump.**~~

~~When a fire pump is installed to meet the hydraulic needs of an automatic sprinkler system, it shall operate automatically at all times by connection to an automatically switched emergency power generator of sufficient capacity per the National Electric Code (NFPA 90) as adopted by the Village."~~

~~(z) The exceptions to Sections 915.2.2, 915.4.1 and 915.4.2 are deleted in their entirety.~~

~~(aa) Section 915.0 is amended by adding the following Section 915.4.3:~~

~~"915.4.3. Number of risers for multi-story buildings:-- The number of risers shall be such that all parts of every floor area can be reached by a 30 foot hose stream from a nozzle attached to not more than 100 feet of hose connected to a riser outlet. Standpipe hose connections shall be required to be located in enclosed stairways at each level in multi-story buildings."~~

~~(bb) Section 915.7 is amended by adding the following at the conclusion of the first paragraph:~~

~~"The connection shall be not more than 5 feet above the floor and consist of a 2 1/2 inch hose connection with valves and threads conforming to Fire Department standards. If deemed necessary by the Fire Department, a 1 1/2 inch hose connection equipped with not more than 100 feet of 1 1/2 inch approved fire hose, an approved shut off valve, nozzle, and couplings, and an approved rack or cabinet for storing the hose shall be required."~~

~~(cc) The exception to Section 915.7.3 are hereby deleted in their entirety.~~

~~(dd) Sections 918.4 through 918.4.6 are amended by deleting the same in their entirety and substituting in lieu thereof the following:~~

~~"918.4 Where Required: - A fire protective signaling system shall be installed and maintained in full operating condition in the locations described in Sections 918.4.1 through 918.4.6.~~

~~918.4.1 Use Groups A 1, A 2, A 4, E, H, I, R 1 and R 2: A fire protective signaling system shall be installed and maintained in all buildings of Use Groups A 1, A 2, A 4, E, H, I, R 1 and R 2.~~

~~918.4.2 Use Group A 3: - A fire protective signaling system shall be installed and maintained in all buildings of Use Group A 3 which exceed total floor area of 2,500 square feet or have basements.~~

~~918.4.3 Use Group B: A fire protective signaling system shall be installed and maintained in all buildings of Use Group B which either exceed total floor area of 10,800 square feet or have basements or have one or more stories above the lowest level of exit discharge.~~

~~918.4.4 Use Group F 1, F 2, and M: A fire protective signaling system shall be installed and maintained in all buildings of use Group F 1, F 2, and M which either exceed total floor area of 7,200 square feet or have basements or have one or more stories above the lowest level of exit discharge.~~

~~918.4.5 Use Group R 3:-- A fire protective signaling system shall be installed and maintained in all buildings of Use Group R 3 which exceed total floor area of 7,200 square feet.~~

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~~918.4.6 Use Groups S-1, S-2, and U: A fire protective signaling system shall be installed and maintained in all buildings of Use Groups S-1 and S-2, including open parking structures and public garages equipped with an automatic sprinkler system in accordance with Section 1002.1 as amended."~~

~~(cc) The exception to Section 918.5 is amended by deleting the same in its entirety.~~

~~(ff) Section 918.7.3 is amended by deleting the words "In buildings that have floors located more than 75 feet (22,860 mm) above the lowest level of Fire Department vehicle access which are used for human occupancy."~~

~~(gg) Section 918.8.1 is amended by deleting the words "and areas of buildings housing the hearing-impaired."~~

~~(hh) Section 921.2 is amended by deleting item number one in its entirety and substituting in lieu thereof the following:~~

~~"1. In all buildings of Use Groups A-1, A-2, A-3, A-4, A-5, B, E, F-1, F-2, H-1, H-2, H-3, H-4, I-1, I-2, I-3, M, R-1, R-2, R-3 if containing a child care facility, S-1, S-2 and U."~~

~~(ii) Section 922.5 is amended by deleting the words "Section 2707.0" and by substituting the words "the National Electrical Code as adopted and amended by the Village" in Chapter 10, Article III of this Code.~~

~~(jj) Section 924.1 is amended by deleting the same in its entirety and substituting in lieu thereof the following:~~

~~"924.1 Fire Suppression Systems: All automatic fire suppression systems shall be supervised by connection to the Village fire alarm receiving panel in the manner specified by the Municipal Code and shall transmit alarm and trouble signals."~~

~~(kk) Section 924.2 is amended by deleting the words "an approved central station system, proprietary system or remote station system" and substituting in lieu thereof the words "the Village fire alarm receiving panel in the manner specified by the Downers Grove Municipal Code"; and by deleting all exceptions thereto except for Exception No. 2.~~

~~(ll) Section 924.0 is amended by adding the following Section 924.3:~~

~~"Section 924.3. Exemption.~~

~~In lieu of connecting to the Village alarm receiving panels as set forth above, any property within the municipal limits of Downers Grove which is under the jurisdiction of a fire protection district organized pursuant to state law shall instead connect to the alarm receiving panels of the fire protection district. Such alternative connection shall be according to the fire protection district's rules and regulations for such connection."~~

~~(mm) Section 1015.5 is amended by deleting the same in its entirety.~~

(81) Section 1003.2.10.5 is amended by deleting the words "ICC Electrical Code" and substituting in lieu thereof the following:

National Electric Code as adopted and amended by the Village

(82) Section 1003.2.11.2 is amended by deleting the words "ICC Electrical Code" and substituting in lieu thereof the following:

National Electric Code as adopted and amended by the Village

~~(nn) Chapter 11 is amended by deleting the same in its entirety.~~

(84) Section 1204.4.1 is amended by deleting the words "ICC Electrical Code" and substituting in lieu thereof the following:

National Electrical Code as adopted and amended by the Village

(85) Section 1205.3.3 is amended by deleting the words "International Plumbing Code" and substituting in lieu thereof the following:

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Illinois State Plumbing Code as adopted and amended by the Village.

(oo) Chapter 13 shall be amended as follows:

(1) ~~Section 1301.1 is amended by adding the following sentence at the conclusion of the first paragraph therein: "These provisions shall apply, whenever practicable, to additions to or remodeling of existing buildings and structures."~~

~~(2) Chapter 13 is amended by adding the following Section 1302.0 Certification:~~

~~"1302.1 Certification: All plans for new construction of buildings subject to this chapter shall include the certification of a registered architect that the plans comply with the regulations herein."~~

(86) Section 1301.2 is hereby added as follows:

1301.2 ComCheck/Inspection List Required.

A ComCheck report and inspection list will need to accompany plans for new commercial construction and common additions of over 250 square feet. The ComCheck report will need to be stamped by an Illinois State Registered Architect of record and the plans will need to reflect the conditions as spelled out in the ComCheck report and the inspection report.

(87) Section 1405.10.4 is amended by deleting the words "ICC Electrical Code" and substituting in lieu thereof the following:

National Electrical Code as adopted and amended by the Village

(88) Section 1503.4 is amended by deleting the words "International Plumbing Code" and substituting in lieu thereof the following:

Illinois State Plumbing Code as adopted and amended by the Village

(89) Section 1806.4.3 is amended by deleting the words "International Plumbing Code" and substituting in lieu thereof the following:

Illinois State Plumbing Code as adopted and amended by the Village

(90) Chapter 27 is amended by deleting the words "ICC Electrical Code" and substituting in lieu thereof the following:

National Electrical Code as adopted and amended by the Village

(pp91) Chapters 27 and 29 are amended by deleting the same in their entirety.

(92) Section 3002.4 is amended by deleting the same in its entirety and by substituting in lieu thereof the following:

3002.4 Elevator Car Size.

In buildings three stories in height or more, the elevators shall provide for fire department emergency access to all floors. Such elevator cars shall be 30 inches (762 mm) by 76 inches (1930 mm) in the horizontal open position without any adjustment or lifting of the car.

(qq) Section 3006.2.1 shall be amended by adding the following to the end of the section:

"Smoke detectors shall not be installed in elevator hoistways."

(rr) Section 3006.2.3 shall be amended by adding the following to the end of the section:

"Exception: Where hydraulic systems do not travel less than 40 feet, the elevator shaft is at least two hour rated and cars meet ASME requirements for non combustibility, sprinklers shall not be required at the top hoistway."

(93) Section 3105 is amended by deleting the same in its entirety.

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(94) Section 3106 is amended by deleting the same in its entirety.

(95) Section 3107 is amended by deleting the same in its entirety.

(96) Section 3109.4.1.8 is amended by adding the words "for an in-ground pool" before the words "one of the following shall apply".

(97) Chapter 32 is amended by deleting the same in its entirety.

(98) Section 3305 is amended by deleting the words "International Plumbing Code" and substituting in lieu thereof the following:

Illinois State Plumbing Code as adopted and amended by the Village

(99) Section 3401.3 is amended by deleting the words "ICC Electrical Code", "International Plumbing Code" and substituting in lieu thereof the following:

National Electrical Code as adopted and amended by the Village, Illinois State Plumbing Code as adopted and amended by the Village

(100) Section 3408 is amended by deleting the same in its entirety.

(ss) Section 3408.2 is amended by deleting the first sentence therein and substituting the following:—

"Existing structures in which there is work involving additions, alterations or changes of occupancy, shall be made to conform to the requirements of this section or the provisions of Sections 3403.0 through 3407.0.

(101) Section 3409 is amended by deleting the same in its entirety.

(tt) That the 1996 ICC International Mechanical Code as adopted by reference in the 1996 BOCA National Building Code is hereby amended by adding the following section:

Section 509.7 System Power Interconnection. - The loss of power to any kitchen hood system shall cause the automatic shut down of the fuel (or electrical) supply to the cooking equipment. The fuel (or electrical) supply shall be reset by manual means only.

(uu) - That the 1996 ICC International Mechanical Code as adopted by reference in the 1996 BOCA National Building Code is hereby amended by adding the following exception to Section 606.0 System Control:

Exception:— Where design capacity exceeds limits and occupancy occurs in only a single-story building. Duct smoke detectors are not required; provided the HVAC system supplies only a single-tenant and only one fire area. In structures where these devices are required but removed by this exception, activation of any initiating device, except pull stations, will shut down the air distribution system. An override switch may be installed to prevent damage to equipment for testing purposes, activation of this switch shall cause a trouble alarm activation.

(102) Chapter 35 is amended by deleting the words "ICC Electrical Code" and "International Plumbing Code" and substituting in lieu thereof the following:

Illinois State Plumbing Code as amended from time to time, National Electrical Code as amended from time to time

(103) Appendices A, B, C, D, E, G, H, I and J are hereby deleted in their entirety.

(Ord. No. 1281, § 15; Ord. No. 1370, § 1; Ord. No. 1586, §§ 2, 3, 6; Ord. No. 1747, § 1; Ord. No. 1846, § 1; Ord. No. 2020, § 1; Ord. No. 2089, §§ 1, 2; Ord. No. 2116, § 2; Ord. No. 2122, § 1; Ord. No. 2143, § 4; Ord. No. 2151, §§ 1, 2; Ord. No. 2208, § 1; Ord. No. 2209, § 1; Ord. No. 2397, § 1; Ord. No. 2547, § 2;

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Ord. No. 2563, § 1; Ord. No. 2584, § 3; Ord. No. 2608, § 2; Ord. No. 2709, § 1; Ord. No. 2768, §1; Ord. No. 2857, § 3; Ord. No. 3118, § 2; Ord. No. 3184, § 3; Ord. No. 3193, § 1; Ord. No. 3391, § 3.)

Section 4. That all ordinances or parts of ordinances in conflict with the provisions of this ordinance are hereby repealed.

Section 5. That this ordinance shall be in full force and effect from and after its passage and publication in the manner provided by law.

Mayor

Passed:

Published:

Attest:

Village Clerk