

Village of Schaumburg Plumbing Code, Chapter 156

Administration

156.01 Village Manager.

The term "Village Manager" shall mean the village manager or ~~his/her~~ an authorized designee.

156.02 Plumbing Inspector Duties.

(A) As directed by the village manager or an authorized designee, any plumbing inspector, in the employ of the village, and certified pursuant to the Illinois Plumber's Licensing Code, may inspect any private or public property for the purpose of investigating conditions relating to the enforcement of the Illinois Plumbing Code and Illinois Plumbing Licensing Law in the village.

(B) All installations must be compliant with §156.03 of this Code.

~~The plumbing inspector shall perform all necessary inspections, as directed, of all work and/or installations as performed by plumbers, master sewer builders, certified drain layers, gas fitters, and homeowners that reside in residential zoned locations, in connection and/or that may be associated with the plumbing, drainage, and gas fitting of all buildings or structures, and the connecting of such plumbing and drainage with the sewer and water supply systems within the Village of Schaumburg.~~

~~As directed by the village manager or designee, the plumbing inspector shall be required:~~

~~(A) To investigate complaints pertaining to the building drainage, plumbing and/or gas fitting installations, and the like, of all premises and/or structures.~~

~~(B) To supervise tests as required on both existing and new plumbing installations.~~

~~(C) To perform plan review on all plans/drawings as submitted to the community development department, pertaining to drainage, plumbing and gas fitting installations, and the like, prior to the issuance of permits for the work proposed to be installed and/or revised.~~

~~To approve such plans/drawings if the proposed work in all respects complies with the requirements of all ordinances and/or codes as adopted by the Village of Schaumburg.~~

~~To indicate all particulars, if any, in which the proposed plans/drawings submitted for permit, do not conform to the ordinances and/or codes as adopted by the Village of Schaumburg.~~

~~(D) To keep and maintain a record of all inspections performed by said inspector.~~

~~(E) To submit complete and fully detailed reports of any discrepancies and/or violations of the plumbing ordinances and/or codes as adopted by the Village of Schaumburg as so requested by the director of community development or designee.~~

156.03 Codes Adopted by Reference.

(A) The current edition of the State of Illinois Plumbing Code (77 Illinois Administrative Code 890) (hereinafter the "Illinois Plumbing Code");

(B) The Illinois Plumbing License Law (225 ILCS 320, et. Seq.);

(C) The Illinois Plumbers Licensing Code (68 Illinois Administrative Code, Part 750);

(D) The Illinois Lawn Irrigation Contractor and Lawn Sprinkler System Registration Code (77 Illinois Administrative Code, Part 892);

(E) The Illinois Plumbing Contractor Registration Code (77 Illinois Administrative Code, Part 894);

~~The latest adopted edition(s), amendment(s), addendum(s), of the currently adopted International Plumbing Code as adopted by reference. The current State of Illinois Plumbing Code as mandated by law.~~

~~In the event where any provisions, articles, sections, wording, and the like, of the State of Illinois Plumbing Code, and latest amendments or addendums, the International Plumbing Code, and latest amendments or addendums, and all requirements and contents of this chapter, and/or amendments, are in conflict,~~

~~the most restrictive or stringent provisions, articles, sections, wording, and the like, shall prevail.~~

156.04 Plans Required.

(A) Plans/drawings shall be required and submitted to the village, indicating, in detail, all new plumbing installations or extensive remodeling of plumbing installations, including all gas piping ~~fitting~~ installations.

~~The plans/drawings shall indicate the entire plumbing system, which shall include all drains, soil, waste, vent, revent pipes, traps, plumbing fixtures, and all water supply pipes, within the building and/or structure.~~

~~A detailed drawing shall be required for all remodeling installations, and/or revisions thereto, to any plumbing system.~~

(B) Persons that submit plans and designs for plumbing systems shall be qualified per the State of Illinois Plumbing License Law.

~~(B)~~(C) It shall be the sole ~~full~~ responsibility of the person, firm, corporation, for which a permit has been issued, to notify the village and obtain ~~get~~ approval from the village and any other appropriate government body of any revisions and/or alterations of any plans/drawings, for which a permit has been issued, prior to the installation of said revisions and/or alterations.

156.05 Permit Required.

(A) Issuance of Permit: No plumbing, drainage, and/or gas fitting installation of any kind shall be installed, altered, repaired, etc., without a permit being issued ~~accordingly~~ by the community development department for such installations ~~repairs, alterations and the like~~ prior to any work being initiated.

~~Exception: Minor repairs within buildings (not to exceed four hundred ninety nine dollars (\$499.00) in value) may be performed without the issuance of a permit.~~

Exception: Any minor repairs that do not require changes in piping to or from plumbing fixtures or involve the removal, replacement, installation, of any pipe to a plumbing fixture; drain cleaning and

rodding; repair and replacement of sink faucets, removal and re-installation of toilets, repairing leaks in valves or fixtures, and replacing sump/ejector pumps.

(B) Plumbing Contractor License: No permit shall be issued unless the person applying holds a valid license-registration as a plumbing contractor from the State of Illinois as determined by information on the Department of Public Health's (hereinafter "the Department") website. Plumbing contractors shall provide a signed and notarized letter of intent to perform the work.

Exception: A homeowner ~~Homeowners that~~ may perform plumbing installations in the homeowner's owner-occupied, single-family attached or detached residence ~~dwelling~~s, and/or repair existing plumbing systems within and/or encompassing the premises, without the services ~~may be exempt as~~ of a licensed plumber as ~~so~~ required in this subsection. A homeowner ~~Home owner~~ shall be defined as the owner/occupant of a single-family attached or detached residence ~~residential property~~.

This exception does not include single family attached or detached residences requiring a rental license pursuant to §123.02 of this code and multi-family condominium units with shared potable water distribution and sewer collection systems.

(C) Homeowners to Comply with Codes: Homeowners that perform plumbing installations, remodeling and/or revisions to existing plumbing systems, shall be required to comply with all plumbing codes as described in §156.03 of this chapter. ~~and/or ordinances, regulations and the like as adopted by the Village of Schaumburg.~~

~~(C)~~(D) After the completed ~~completion of the~~ plumbing work has been inspected and passed, the owner of the ~~such~~ property must ~~shall~~ retain ownership of and residency of the property in the owner occupied single-family attached and detached residential property for a period of at least six (6) months. The village ~~of Schaumburg~~ shall have the authority to implement a hold on the real estate transfer stamp until such time has expired pursuant to §36.075, et seq., and §99.03 of this code.

(E) Owners of commercial/industrial, retail office, assembly, condominiums, multifamily housing and the like shall not conduct plumbing work without contracting a licensed plumbing contractor.

(F) For emergency conditions that require immediate ~~shall be needed for~~ repairs to restore a property to a habitable condition or prevent damage to a property, a permit ~~A~~ shall be obtained on the following business day and inspected thereafter.

~~All person(s) that have obtained a permit, shall be fully responsible, if so required by representatives of the Village of Schaumburg, to restore the streets, sidewalks, and pavements in as good a state and condition as he found them, and will keep and maintain the same in good order from a reasonable time thereafter, to the satisfaction of the department of engineering and public works, and further conditioned that he will pay all fines that may be imposed upon him for a violation of any ordinance, rule or regulation as adopted by the municipality, and that he will conform to all the lawful regulations of the municipality pertaining to the business of plumbing.~~

(G)All permittees, as defined as a person in §10.05 of this code, that have obtained a permit, shall be fully responsible, if so required by representatives of the village, to restore the streets, sidewalks, and pavements to the same state and condition as existed prior to construction, and will keep and maintain the same in good order from a reasonable time thereafter, to the satisfaction of the department of engineering and public works;

(H)The permittee shall pay all fines that may be imposed for a violation of any chapter of this code, or any stand-alone ordinance, rule or regulation of the village and will conform to all the lawful regulations of the village pertaining to the business of plumbing, but not including licensing violations. All plumbing licensing violations to which the village becomes aware will be referred to the Department.

~~(G)(I)~~ Plans and Specifications: No plumbing related permit ~~with substantive work~~ shall be issued until plans and specifications showing working size detail have been submitted to the village ~~of Schaumburg~~ for

approval and it has been determined, from examination of such plans and specifications, that the work proposed will conform to the provisions of all ordinances and/or codes as adopted by the village ~~of Schaumburg~~.

- i. In the event that a permit is denied, the applicant may submit revised plans and specifications without the payment of an additional fee unless this provision has is been abused by the applicant not properly responding to plan review comments and directions previously provided.
- ii. During the course of the permitted work, if ~~in the course of the work or installation~~ it is found necessary to make any change from the original plans and specifications on which a permit has been issued, amended plans and specifications shall be submitted, and a supplemental permit subject to the same terms and conditions applicable to the original application for permit, shall be obtained to cover the change. Additional permit costs, for significant changes submitted that alter the essential scope of the permitted work, may apply as determined by the village.

(J) Water Main or Service Pipe Installations: It shall be unlawful to excavate for the installation or repair of any water main or service pipe before a permit for such work shall have been obtained from the village ~~of Schaumburg~~.

Exception: Emergency repairs which have not been permitted can be undertaken by an Illinois-licensed plumber or Illinois-registered plumbing contractor, however, a permit must be applied for the next business day and all work undertaken must be left protected, but uncovered, and pass all necessary inspections.

~~(H)~~(K) Permit: No Illinois-registered person, licensed plumbing contractor ~~licensed journeymen plumber or registered apprentice plumber~~ shall install plumbing systems, drainage systems, or gas fittings, in any residential or commercial building, except for minor repairs as defined herein, without first having obtained a permit for doing such work from the community development department.

~~(H)~~(L) _____ Commencement or Continuation of Work: No installation, repair work of plumbing, drain laying, or gas fitting installations, shall be started or continued without a permit first being issued.

~~(H)~~(M) _____ Plans on Construction Site: An approved stamped set of plan(s) (drawings) shall remain on the premises or construction site until all inspections have been completed and the certificate of occupancy has been issued by ~~and approval has been obtained from~~ the community development department ~~with the issuance of a certificate of occupancy.~~

~~156.06 Abating a Nuisance.~~

~~Whenever it shall come to the knowledge of the village that the plumbing or drainage system in any building or structure has become a nuisance, or is contrary to the provisions of this chapter and/or plumbing codes as adopted by the village, or is a faulty construction and liable to endanger the health of the occupants, then the owner, agent, or occupant shall be notified of the revisions which are necessary to assure compliance of such plumbing or drainage systems with the regulations of all ordinances and/or codes as adopted by the village. Said changes shall be made within the time fixed in such notification.~~

~~156.07 Delay in Work.~~

~~If, in the opinion of the village manager, a delay in work is unreasonable, or delay in work is deliberate in the installation or performance of any plumbing or drainage installation, said officials shall have the authority to revoke any permit which may have been issued for said installation.~~

~~156.08 Definitions.~~

Unless specifically stated, the definition of terms utilized in this chapter shall conform to the definitions found in the codes and ordinances identified in §156.03, herein, and the Village of Schaumburg's Municipal Code of Ordinances.

~~The words, phrases and terms used in this chapter shall be used as defined in the Illinois State Plumbing Code and the International Plumbing Code.~~

General Regulations

156.09 General Provisions

- (A) Nature and Purpose of this this Plumbing Code: This plumbing code is intended to be corrective in nature~~remedial~~, and to be construed liberally and justly in order to secure the proper installation of a permanent efficient system for furnishing a potable water supply and sanitary disposal system for each and every habitable building and/or structure. Its purpose is to assure ~~obtain~~ a serviceable plumbing system for the comfort, convenience, health and safety of the occupants and users in ~~each and~~ every habitable building and/or structure in the village.
- (B) Access to Premises: For the protection of ~~to~~ the public water supply and public sanitary systemss and the safety of the ~~for~~ occupants of ~~a~~ buildingss or structuress, the representatives of the village ~~of Schaumburg~~ shall be provided ~~have~~ free and unobstructed access to any part and all parts of the premises that are connected to the ~~Village of Schaumburg~~ public utilities owned and operated by the village or any other government authority having jurisdiction. After notification by the village, ~~A~~ access shall be required ~~provided with notification~~ at any ~~reasonable~~ time of the day for the purpose of examination into the construction, condition and usage of the same.

156.10 Supervision of Plumbing Work.

- (A) All plumbing work and/or ~~plumbing~~ installations ~~(except minor repairs)~~ of plumbing, drainage systems, gas piping fittings, etc., ~~and the like~~ ~~professional~~, shall be performed by a an Illinois-licensed plumber or Illinois-licensed apprentice plumber employed by an Illinois-registered ~~licensed~~ plumbing contractor or as otherwise provided for in 225 ILCS 320/3. ~~licensed journeymen plumber, or registered apprentice plumber under the supervision of a licensed plumbing contractor.~~
- (B) The name of such Illinois-registered plumbing ~~licensed plumber~~ contractor ~~or registered apprentice plumber~~ shall appear on the plumbing permit as

issued ~~required~~ by the village, and the contractor must always provide a letter of intent as required by the Illinois Plumbing Code.

(C) It shall be unlawful for any person, firm, corporation, ~~etc. and the like~~, to secure or furnish a permit, or falsify an application for permit, for the use by another person, firm or corporation ~~of other persons~~.

~~Homeowners of a single-family, owner occupied dwelling, may install and/or repair plumbing systems that relate to or encompass the dwelling or related structures.~~

~~All plumbing work and/or repairs as so installed by said homeowner shall be in full compliance with all codes and ordinances, as adopted by the village.~~

~~**156.11 Workmanship.**~~

~~All plumbing installations, plumbing repairs, and/or plumbing revisions, alterations, and the like, shall be completed to be fully operational and shall be installed in a neat and workmanlike manner as approved by the plumbing inspector.~~

~~**156.12 Corrections of Defects.**~~

~~All defective non-compliant, non-approved plumbing systems, piping, materials, fixtures, public water protection devices and the like, shall be removed, repaired, and/or replaced, as required to comply with this amendment, all its adopted codes and plumbing inspector's approval.~~

~~All non-approved joints, connections, fittings, fixtures, drainage systems, and the like, and all defective and/or unacceptable work shall be replaced and/or repaired to the approval of the plumbing inspector, and shall be so reinstalled as to be in full compliance with the provisions of this chapter and to include all codes and related ordinances as adopted by the Village of Schaumburg.~~

~~156.13 Remodeling.~~

~~Whenever any plumbing and/or piping system is remodeled or replaced, or additional fixtures installed, the entire remodeled plumbing and/or piping system shall be in full compliance with this chapter, and to include any additional codes and/or ordinances that may be related to same, as adopted by the Village of Schaumburg.~~

~~156.14 Building Relocation.~~

~~In the event a building is moved from one location to another, the plumbing thereof shall conform to all the provisions of this chapter and/or codes that are relative to plumbing in new buildings.~~

156.15 Plumbing Systems And Fixtures Used Infrequently.

When, in the judgment of the plumbing inspector, a plumbing system, parts of a plumbing system or plumbing fixture is used so infrequently that there is a danger that the seal of the trap will be dissipated by evaporation, the plumbing inspector may order the fixture removed, and in that case, ~~and~~ all piping in relation to the fixture shall be properly capped at its source and at the drain connection. Dead ends shall not exceed two feet (2') in length, and removal shall not interfere with minimum fixture requirements for a building and/or structure as required by the Illinois Plumbing Code~~State of Illinois Plumbing Code~~. All unused piping and material shall be removed.

156.16 Property Lines.

All appurtenances to building drains and the sewer main~~building sewer~~, including catch basins, manholes, cleanouts, backwater valves and fittings, shall be located within the property lines of the premises served by such drains and sewers.

~~156.17 Protection of Plumbing Systems.~~

~~Plumbing water supply system, soil piping, waste or vent piping, or the like, shall not be installed in and/or adjacent to attached garages or storage areas, in~~

~~exterior walls and/or in walls, ceilings, or the like, where said plumbing systems may be subject to freezing conditions, or subject to temperatures below forty degrees Fahrenheit (40°F).~~

~~No plumbing water supply system shall be installed as to be "outside" of building/structure walls, unless adequate provisions are made to prevent said plumbing systems from freezing conditions, as so approved by the plumbing inspector.~~

156.18 Pavement And Sidewalk Removal And Restoration.

(A) Where it is necessary to remove existing pavement or sidewalk to install a ~~house~~ connection to a water or sewer main, the contractor shall provide adequate barricades, walkways, flares or signals, so as to maintain safe conditions in the area of the excavation as more fully described in §158.20 (B) of this code.

(B) After backfilling the excavation with gravel or other material as more fully described in §158.16 (A) of this code ~~approved by the plumbing inspector~~, the contractor shall backfill and install a ~~two-inch (2")~~ layer of crushed stone.

(C) In addition, ~~the~~ contractor shall be fully responsible to maintain the trench crossing in passable condition until the pavement or sidewalk has been permanently replaced as required by §158.16 (A) of this code.

(D) The contractor shall be required to notify the village when any street or intersection is fully obstructed by any opening of said street or intersection.

~~156.19 Openings In Streets; Protection Requirements.~~

~~All openings made in sidewalks and streets shall be identified and protected at all hours by sufficient barriers, on which signal lights or flares shall be placed, shall be operable, and shall be fully maintained for proper operation after darkness.~~

~~The contractor shall be required to notify the village when any street or intersection is fully obstructed by any opening (digging) of said street or intersection.~~

156.20 Tunneling, Driving, Boring And Open Trenches.

- (A) Tunneling or boring of utilities for distances not greater than six feet (6') may be permitted in yards, courts or driveways of a building site, however, direct boring of utilities shall not be permitted without prior approval from the village ~~of Schaumburg~~.
- (B) Tunneling or boring under streets or alleys shall only be allowed when a right-of-way construction permit has been obtained from the village's engineering and public works department.
- (C) All excavations required for installation of a building drainage system, or any part required for the installation of a building drainage system, or any part thereof, within the walls of a building and/or structure, shall be through the use of open trench work.
- (D) All trenches and tunnels shall be kept open and backfilling shall not proceed until all piping systems have been inspected, tested, and approved by the plumbing inspector.
- ~~Tunneling under streets or alleys shall not be permitted.~~
- (E) Upon approval of the installation by the plumbing inspector, and/or any other government authority having jurisdiction, backfilling of trenches and/or tunnels may proceed with approved materials as so designated by the authority having jurisdiction.

156.21 Winter Excavations.

No persons shall excavate ~~make excavation in~~ any street within four and one-half feet (4-½') of a water main while the ground is frozen, except by ~~special~~ express permission from the village. Adequate provisions shall be made, during the entire process of excavation, for protecting the water main from freezing.

~~156.22 Waterproofing of Openings.~~

~~Where compressor and/or related piping (piping systems), gas piping systems, plumbing piping and/or devices, and the like, pass through a roofing system, an approved flashing material and sealant material shall be used at said location and the opening(s) shall be made and maintained as to be permanently air and water-tight.~~

~~Where compressor and/or related piping (piping systems), gas piping systems, plumbing piping and/or devices, and the like, pass through any portion of an exterior wall, an approved flashing material and sealant material shall be used at said location, and all exterior wall penetrations (openings) shall be made and maintained as to be permanently air and water tight.~~

~~156.23 Plumbing Located in Plenum Locations.~~

~~The entire plumbing system(s) and plumbing installations located in plenum areas of any structure, shall be in full compliance with all requirements as set forth in the adopted building, mechanical and plumbing codes.~~

156.24 General Maintenance Responsibility.

All new and existing plumbing, and drainage systems in a building or structure, including water and sewer services, shall be fully maintained in a proper working condition and in a safe and sanitary manner.

~~All plumbing and drainage systems, regardless of new or existing systems, shall be fully maintained in a safe, sanitary and properly working condition in all buildings, structures, and the like, within the boundaries of the village.~~

Fixtures, Faucets and Fixture Fittings

156.25 Homeowner and Other Property Owner Maintenance Responsibility.

The specific maintenance and repair responsibilities of homeowners, other property owners and the village for broken fractured and/or defective water lines can be found and are more fully described in *Village Policy Statement 7.08 Title: Sanitary Sewer Service Policy*.

~~The homeowner is responsible for the maintenance, repair and ownership of the water line up to the Buffalo box (but not including the Buffalo box) or the property line, whichever is nearest to the dwelling.~~

156.26 Drain Pans.

(A) All appliances (fixtures) such as water softeners, washing machines, hot water heaters, ~~etc. and the like~~, that are installed in locations other than in basement areas or in areas other than directly on concrete floor slabs at grade level, shall be provided with approved drain pans.

~~Drain pans shall be sized a minimum of one and one-half inches (1½") in depth and shall extend beyond a minimum of one inch (1") on all sides from the outside diameter of any appliance (fixture).~~

(B) Drain pans shall be provided with an approved drain and discharge line to extend into or to directly connect to an open drain.

156.27 Minimum Number of Plumbing Fixtures Required.

(A) The number of plumbing fixtures required to be installed in any commercial and/or industrial structure shall be in full compliance with the most current requirements of the Illinois Plumbing Code ~~as set forth in the State of Illinois Plumbing Code and to include latest additions and/or revisions of said plumbing code.~~

(B) Water Savings Device: All new plumbing fixtures, irrigation controllers or replacements installed shall have a WaterSense label (as designated by the U.S. Environmental Protection Agency WaterSense Program) when such labeled fixtures are available.

~~(B)~~ (C) All rooms ~~so~~-designated and/or constructed for the purpose of washroom facilities in any building or structure of any type ~~any residential dwelling (and to include multifamily, condominium, and/or apartment type complexes), commercial structures, and industrial structures~~, shall have all plumbing fixtures and/or plumbing systems, devices, ~~etc. and the like~~, fully installed and operable ~~completely installed and fully operable~~ according to

~~the approved plans as approved by the plumbing inspector having jurisdiction.~~

~~(E)~~(D) Lavatories and hand sinks are required in all bathrooms, commercial kitchens and treatment rooms or similar rooms used by physicians, dentists, chiropractors, medical practitioners, and any similar practitioners whose services require direct contact with the skin.

Exception: In lieu of hand sinks being installed in all treatment rooms, a minimum of one (1) lavatory sink shall be centrally located to the treatment rooms, and be immediately available and accessible for use by the physicians, dentists, chiropractors, medical practitioners, and any similar practitioners whose services require direct contact with the skin.

(E) Lawn Irrigation Devices: All lawn irrigation devices shall bare a WaterSense label irrigation controller and be in full compliance with Section 2.5 (g) of the Illinois Plumbing License Law (225 ILCS 320).

~~156.28 Size Of Toilet Room.~~

~~Each toilet room shall have at least twelve (12) square feet of floor area for each water closet.~~

156.29 Plumbing Installations For Disabled And Related Uses.

All plumbing requirements and installations for the disabled shall comply ~~be in full compliance~~ with the current version of the State of Illinois Accessibility Standards, ~~and to include latest additions and/or revisions of the State of Illinois Accessibility Standards~~ as adopted by reference by the village ~~ordinance~~.

~~156.30 Installation Of Water Softeners.~~

~~All persons engaged in the business of selling, servicing and/or installing water softener appliances, shall obtain a business license from the Village of Schaumburg for said activity.~~

~~The following regulations shall apply to all water softener installations within the Village of Schaumburg:~~

- ~~(A) The waste line from any water softener shall not be connected directly to any sewer, soil, waste or vent line or pipe;~~
- ~~(B) All water softeners shall be installed with a trapped outlet with an open site connection from the water softener appliance;~~
- ~~(C) Every softener shall have a valved bypass on the water supply so that the failure of the water softener appliance shall not cause and/or interfere with water service to the building and/or structure;~~
- ~~(D) All softeners shall be installed with unions or flare disconnect types of water connections to allow ease of disconnection of the softener and servicing equipment.~~

~~All electrical wiring systems shall be in full compliance with the provisions and/or requirements of the National Electrical Code, and other codes adopted by the village.~~

~~**156.31 Care Of Plumbing Fixtures.**~~

~~Plumbing fixtures shall be used only for the purpose for which they are intended and all such fixtures shall be maintained in a clean and sanitary condition.~~

~~**156.32 Quality Of Materials.**~~

~~All materials used in any plumbing system shall conform with the requirements of the Illinois State Plumbing Code, the adopted plumbing code and the adopted residential code.~~

~~**156.33 Hydrant And Pump Protection.**~~

~~Every pump or hydrant for providing a potable water supply shall be protected from surface water and contamination.~~

156.34 Fire Hydrant Use.

Fire hydrants shall not be used to obtain water for construction purposes unless special permission is obtained in writing from the village's ~~Village of Schaumburg~~ department of engineering and public works, and if approval is received, a hydrant meter will be issued by that department~~with the appropriate permit fee paid to the village.~~

Water Heaters

156.35 Domestic Hot Water Circulation System~~Pipes~~.

~~The size of hot water piping shall be determined by the tables in the State Plumbing Code or the International Plumbing Code whichever is more restrictive.~~

~~Valves in circulation pipes shall be installed as near to the base of risers as possible and where possible such valves shall be located with the cold and hot water supply pipe valves.~~

Circulation pipes shall be installed in all domestic hot water systems for hotel and apartment buildings over two (2) stories in height~~high~~.

~~**156.36 Space Heating.**~~

~~No radiator used for space heating shall be connected to a domestic hot water heating system.~~

~~**156.37 Heating Device Safety.**~~

~~All devices for heating water or storing heated water in tanks or boilers shall be so constructed and installed as to avoid any conditions that would result in excess pressure on pipes, boilers or storage tanks or cause backflow of heated water into or through the water meter.~~

~~No water in any plumbing system shall be heated to a higher temperature than two hundred degrees Fahrenheit (200°F).~~

~~156.38 Swing Section.~~

~~Each hot water riser pipe shall be provided with a swing section for every fifty feet (50') of its length.~~

~~Such swing section shall be located midway between the clamps which anchor such riser pipe to the structural members of the building.~~

~~Each swing section shall be installed at right angles to the riser pipe, and shall be so constructed that it shall absorb the strain and stresses of expansion and contraction thereof.~~

~~Each hot water distributing pipe shall be provided with a swing section which shall be located as near as practicable to its connection with the hot water riser pipe.~~

Water Supply and Distribution

156.39 Water Supply.

(A) Water Required: Every building equipped with plumbing fixtures and/or used for human occupancy or habitation, shall be provided with a potable supply of ~~cold~~ water properly sized for the fixture in the building as per the Illinois Plumbing Code. The minimum incoming potable water supply service shall be no less than a one inch (1") in diameter~~supply line~~.

(B) Only potable water shall be accessible to plumbing fixtures supplying water for drinking, bathing, culinary use, or the processing of food, medical or pharmaceutical products, except as may be provided pursuant to 77 IL Admin Code 890.140 or 890.1940 by the Department.

(C) For all residential dwelling units and all commercial and industrial buildings, water heated to a minimum temperature as specified by Subpart F: (Plumbing Fixtures) of the Illinois Plumbing Code shall be available to all occupants and shall always be maintained to at least those temperatures.

~~For single-family dwellings, multifamily dwellings, condominium-type complexes, apartment-type buildings, retail stores, commercial and industrial buildings, in which people reside, conduct business, and/or are employed, water heated to a minimum temperature of one hundred ten degrees Fahrenheit~~

~~(110°F) shall be available to all occupants and shall be maintained to the temperature as so stipulated.~~

(D) Water Savings Device: All new plumbing fixtures, irrigation controllers or replacements installed shall have a WaterSense label (as designated by the U.S. Environmental Protection Agency WaterSense Program) when such labeled fixtures are available.

~~Water Savings Device: In all new construction and in all repair and/or replacement of fixtures or (rim, every building equipped with plumbing fixtures and used for human occupancy or habitation shall be provided with a WaterSense labeled device on all plumbing fixtures when available or as otherwise specified by the U.S. EPA.~~

~~These fixtures shall not utilize a water flow rate in excess of the maximum rates published by the Illinois Department of Transportation in "Rules and Procedures for Lake Michigan Allocation", or as may be forthcoming from the secretary of housing and urban development pursuant to the Energy Conservation and Production Act (MR 12169) in its "Energy Conservation Standards for New Buildings" (PL 94-3850).~~

156.40 Tapping Water Street Mains.

(A) Only persons authorized by the village shall be permitted to tap village water mains ~~the street main~~ or insert service valves therein. Such work shall be done by an properly Illinois-licensed plumber/plumbing contractor employed by a licensed Illinois-registered plumbing contractor as defined by the Illinois Plumbing Code ~~State of Illinois~~.

(B) All service valves shall be inserted at or near the top of the water street main, but and in no case less nearer than one foot (1') from the bell of the pipe, however ~~except that~~, when a water ~~said street~~ main is less than five feet (5') below curb grade, the tap ~~such trap~~ shall be made in a manner that least exposes ~~to least expose~~ the service pipe to damage by frost.

156.41 Water Inspection of Service Pipe Material and Installation.

(A) All material used in connection with water service pipes shall be subject to the inspection of the village, and shall be rejected if not in strict compliance with the requirements of this section~~of the quality, and/or not in compliance as prescribed in this chapter and related plumbing codes as adopted by the village.~~

(B) The water service pipe and connection must be capable of sustaining a pressure of one hundred fifty ~~(150)~~ pounds per square inch (150 psi) for one (1) hour, and all work must be done in a workman-like manner.

(C) Water service pipes shall be located not less than five feet, six inches (5'6") below finished grade.

~~(C)~~(D) Material of Service Pipes: All service pipe, of two inches (2") or less in diameter, shall only be composed of extra strong type "K" copper/copper alloy tubing, and be installed from the street main to the water meter. All other piping material, listed in Section 890. Appendix A (Approved Materials for Water Service Pipe) of the Illinois Plumbing Code is not allowed for the installation of water service pipe material.

~~(D)~~(E) Service pipes shall not be buried in or covered by any earth, material, or substance that contains stones, glass, cinders and/or foreign matter that may (in the opinion of the plumbing inspector) be injurious to such pipe.

(F) Where a water service pipe larger than two inches (2") is shall be required, it shall be composed of ductile iron, and shall comply with the internal diameter requirements of the Illinois Plumbing Code and ASTM 377 class 250 cast iron pipe shall be used and the least inside diameter of same shall be three inches (3").

~~(E)~~(G) The connection to the water mains shall measure be three inches (3"), and in all cases, shall be previously approved by the village.~~The connection to the mains shall in all cases be approved by the village.~~

~~(F)~~(H) The charge or tap-on fee to be paid for such connection shall be assessed pursuant to §41.01 of this code~~determined by the village.~~

156.42 Stopvalve Location.

(A) Each water service pipe shall have a "T" handle roundway water service valve inserted (installed) and shall be located on the private property for which the water service pipe serves, or as indicated on the approved engineering site plan.

(B) The line of the service pipe shall be approximately at right angles to the main and the water service valve shall be located directly opposite the tap in the main.

(C) Each new water service valve shall be protected with a cast iron Buffalo box with the word "Water" ~~or "Fire"~~ permanently cast on the cover as appropriate.

~~(C)~~(D) Each existing dual connection service valves shall be protected with a cast iron Buffalo box with the word "Water" or "Fire" permanently cast on the cover as appropriate.

~~(D)~~(E) Any water service valve or shutoff or water main larger than two inches (2") in diameter shall have a valve basin constructed of precast concrete with a soil drain or French drain measuring no less ~~smaller~~ than six inches (6") of internal ~~inside~~ diameter.

~~(E)~~(F) Every basin shall have steps to allow easy access to the valve. The internal ~~inside~~ diameter of basins shall not be less than forty-eight inches (48"), and have a solid cover the is clearly marked as specified in §151.14 (C)(2) of this code.

~~It shall have a suburban frame with solid cover, clearly marked "Water, Village of Schaumburg".~~

~~156.43 Service Pipe Inspection.~~

~~The service pipe on the house side of the curb water service valve shall not be covered (backfilled) before it has been inspected and approved by the village.~~

156.44 Meter Spreads And Installation.

(A) A meter spread, of the same size as the meter to be installed, shall be installed on the water service pipe, within one foot (1') inside the front building wall, unless written permission is received from the village to alter the location.

(B) All water meters shall be installed in a horizontal position, and as per the manufacturer's instructions.

~~(B)~~(C) ___ Meter spreads shall be provided with two (2) shutoff valves, one (1) on the supply side, and one (1) on the house side of the meter spread.

(D) A drain valve shall be provided between the water meter and second shut-off valve.

~~(C)~~(E) ___ The size of the meter shall comply with the Illinois Plumbing Code, or as otherwise prescribed by the village ~~be prescribed by the village.~~

156.45 - Meter Vaults

On the exterior ~~outside~~ of all buildings, ~~the~~ water meters shall be set in an approved basin or vault. All water meter vaults shall be made and located according to village specifications ~~prescribed by the village.~~

156.46 Water Meters.

(A) The village will designate all water meters be installed pursuant to the provisions of this chapter, however, the cost of the ~~such~~ water meters, including ~~and to include~~ remote readout device(s), shall be established from time to time and shall be paid by the applicant at the time of securing a building permit.

(B) Setting and Removal of Water Meters: ~~A certified plumbing contractor~~ An Illinois-licensed plumber shall be required to set all water meters. It is not permitted ~~In no case will anyone be allowed~~ to remove or replace any water meters unless authorization is received from the village.

(C) Access for Maintenance and Replacement for Plumbing Appliances and Appurtenances: Appliances shall be accessible for inspection, service, repair and replacement without disabling the function of a fire-resistance-rated assembly or removing permanent construction, other appliances, venting systems or any other piping or ducts not connected to the appliance or appurtenance being inspected, serviced, repaired, or replaced. A level working space at least thirty inches (30") deep and thirty inches (30") wide (762 mm by 762 mm) shall be provided in front of the control side to service an appliance or appurtenance.

(D) Water meters shall not be installed in crawl spaces.

(E) Water meters shall be installed no closer than two feet (2'), but no more than four feet (4') from a finished floor level.

(F) For single-family residential and multifamily residential dwelling units, water meters shall be installed within the heated portion of the dwelling unit, or in a designated room which is heated and publicly accessible, i.e., a water meter closet.

(G) Designated water meter closets shall be constructed and heated to maintain temperatures that will prevent freezing of any water piping system, regardless of outdoor weather conditions and/or temperatures.

(H) In buildings designated as commercial and/or industrial uses, water meters shall be installed in a heated portion of the building, with the location being approved by the plumbing inspector.

(I) In buildings that are designed for commercial or industrial multiple occupancy, where one (1) or more tenants, owners, etc., are supplied from a common designated water meter closet, individual shutoff valves shall be installed for each water meter.

(J) The village shall be provided with means of twenty-four (24) hour access to all buildings or other structures with water meter closets, by being provided a key or the combination to a locked meter closet. The door of the closet shall be labeled "WATER METER ROOM".

~~shall be installed as to provide a minimum of eight inches (8") of clearance from any wall, floor, or object that may obstruct the clearance as required.~~

~~(B) Water meters shall not be installed to exceed more than four feet (4') from finished floor level.~~

~~(C) In structures such as single-family residential and multifamily residential construction, water meters shall be installed within the heated portion of said dwelling, or in a designated public access heated water meter closet (room).~~

~~Designated water meter rooms shall be constructed and heated to maintain temperatures that will prevent freezing of any water piping system, regardless of out of door weather conditions and/or temperatures.~~

~~(D) In structures (buildings) designated as commercial and/or industrial use, water meters shall be installed in a heated portion of said structures, and location of said water meter(s) shall be approved by the plumbing inspector.~~

~~(E) In structures (buildings) that are designed as multi-occupancy, individual shutoff valves shall be installed for each water meter, where one (1) or more tenants, owners, etc., are supplied from a common designated water meter closet (room).~~

~~(F) The Village of Schaumburg shall be provided with means of twenty-four (24) hour access to structures/buildings and the like with water meter closets. Access shall be by a provided key or combination to the lock of the door to the meter closet.~~

~~The door of the closet shall be labeled "WATER METER ROOM".~~

156.47—Service Pipe Size.

~~When required, the service pipe shall be of sufficient size to permit ample and continuous flow of water to provide adequate supply on all floors at any given time.~~

~~156.48~~ **Compression Tank System.**

~~Every compression tank system, where necessary, shall consist of a water pump and compression tank, and shall be provided with all the regulating and control devices necessary to ensure complete automatic operation.~~

~~Each compression tank shall be so constructed and connected that the air content thereof shall be not less than twenty five percent (25%) of its total capacity.~~

~~Each compression tank shall be provided with a valved sludge drain connected to such tank at the lowest level and shall discharge through an open connection to the drainage system.~~

~~The water supply shall be taken from at least four inches (4") above the bottom of the tank.~~

~~156.49~~ **Water Supply Piping Materials.**

~~All water supply pipes less than two inches (2") in diameter shall be of galvanized steel, brass or copper, with wiped solder joints, or brass, copper or galvanized malleable iron fittings.~~

~~No steel or wrought iron pipe or related type fittings shall be installed in the ground.~~

~~No pipe or fittings that have been used for other purposes, shall be used for distributing water.~~

156.50 - Air Chambers or Shock Arrestors.

Air Chambers are prohibited and shall be replaced with mechanical shock arrestors when renovations to existing plumbing are made. Shock arrestors are required in conjunction with fast-acting valves and must be installed as per the Illinois Plumbing Code.

~~To provide an air cushion which will absorb shock, stress and strain, air chambers or other approved mechanical devices shall be installed at the upper terminals of all up feed riser pipes and in fixture supply pipes directly above the branch or connection to the plumbing fixture.~~

~~Each supply shall be not less than twelve inches (12") long.~~

156.51 Outside Hose Bib Requirements.

(A) A minimum of one (1) hose bib shall be provided for all ~~installed to provide water facilities for outdoor out-of-door~~ water usage to ~~and shall~~ be installed on the exterior wall of any single-family or ~~or~~ multi-family building, as well as all commercial and industrial buildings ~~condominium, apartment structures, and to include all commercial and/or industrial structures~~

(B) A separate service and water meter is required for any hose bib(s) installed and dedicated to common area usage in condominium buildings.

~~Any hose bib(s) installed and dedicated to common area usage in condominium buildings shall be provided a separate service and water meter.~~

(C) Hose bibs shall be designed and installed to prevent any possibility of water freeze within the hose bib device, and shall be provided with backflow protection as specified by Sections 890.1130 and 890.1140 of the Illinois Plumbing Code.

~~The hose bib shall be so designed, installed, and approved, as to prevent any possibility of water freeze within the sillcock device.~~

(D) The type and location of hose bib device(s) shall be approved by the plumbing inspector.

~~The type of the hose bib device(s), and location of the hose bib device(s), shall be approved by the plumbing inspector having jurisdiction.~~

(E) All hose bib device(s) shall be installed at an angle so that the "flange" will be "set" flush with the exterior finished wall.

~~All hose bib device(s) shall be so installed where the "flange" will be "set" flush with the exterior finished wall.~~

~~156.52 Water Distribution Piping Materials.~~

~~All water distribution shall consist of type "L" copper tubing or galvanized steel piping, for above ground installations only.~~

~~Type "K" copper piping shall be required to be installed in concrete slabs at grade level or below, and for underground installations.~~

~~Type "M" copper tubing shall be allowed in new single family, townhomes, duplex and quad type residential construction. One (1) level retail or as approved by the plumbing inspector.~~

~~Note: CPVC type plastic piping and/or any other plastic piping that may or may not be directly identified in this chapter, shall not be permitted for installation for water distribution, and will not be accepted.~~

~~156.53 Concealed Joints.~~

~~All concealed joints for copper water tubing within buildings may be flared, brazed or soldered.~~

~~Joints for copper water service pipes outside of buildings shall be flared.~~

~~Air chambers shall be of the same size as the pipe which it serves.~~

~~Air chambers for risers shall be no less than eighteen inches (18") long and for fixture.~~

~~156.54 Galvanizing.~~

~~All wrought iron and steel pipe used in plumbing and drainage systems shall be galvanized.~~

~~156.55 Plain Screwed Fittings.~~

~~Plain screwed fittings shall be of cast iron, malleable iron or brass of standard weight, and dimensions.~~

~~156.56 Draining Of Water Pipes.~~

~~Water pipes shall be so graded or pitched or shall be provided with tees with plugs or petcocks so that the entire system or parts thereof can be drained.~~

~~156.57 Protection from Freezing.~~

~~All water pipes, fixtures, storage tanks and drain, waste and vent piping shall be protected from freezing conditions. Such installations shall be approved by the plumbing inspector.~~

Sanitary Drainage

156.58 Overhead Plumbing.

~~From and~~ After December 31, 1970, all new buildings constructed with basements, floors, rooms, or occupancy areas below ground level ~~at the building site~~, and served with a public or private sewer system, shall be equipped with ~~have~~ overhead plumbing.

~~The building sewer shall be constructed of the materials approved by the village.~~

~~Whenever an excavation for building sewer is made in unstable ground, the material for such building sewer shall be extra heavy cast iron pipe.~~

156.59 Sewers.

(A) Permit Required: No person shall install or repair building sewers, drain tile or catch basins without first obtaining a written permit for such work from the village.

(B) Sewer Laying: All installation of ~~work of laying~~ underground sewers and the construction ~~buildings~~ of masonry catch basins shall be done by licensed drain layers, Illinois-licensed plumbers, Illinois-licensed apprentice plumbers employed by Illinois-registered plumbing contractors. ~~licensed journeymen plumbers or registered apprentice plumbers under the supervision of a licensed plumbing contractor.~~

(C) License & Permits: All sewer contractors performing work within the village shall obtain the necessary license(s) from the Department ~~village~~ and conform with the Illinois Plumbing Code, this chapter and all other Village codes and ordinances, ~~all village ordinances adopted by the village,~~ and shall obtain a permit for ~~such~~ connection to any public sewer ~~be installed,~~ and ~~shall~~ pay ~~to the village~~ the appropriate ~~village's~~ a permit and connection fees.

(D) Notification of Proposed Work: Before commencing installation of any sewer service ~~connection~~ ~~house connection~~ ~~sewer service~~, the contractor or owner of the premises shall notify the plumbing inspector of such proposed work, not less than twenty-four (24) hours before commencing same.

(E) No sewer excavations shall be backfilled (concealed) before the installation has been inspected and approved by a village plumbing inspector ~~representative~~.

156.59.1. Metropolitan Water Reclamation District of Greater Chicago

In certain specific cases, as detailed in this chapter, the Metropolitan Water Reclamation District of Greater Chicago (hereinafter "MWRDGC") will have jurisdiction over certain aspects of storm water management and sewage collection and disposal in the village, as outlined in the Cook County Watershed Management Ordinance.

156.59.2. DuPage County Division of Stormwater Management

In certain specific cases, as detailed in the "West Branch DuPage River Watershed Plan" (February 14, 2006), the DuPage County Division of Storm Water Management will have jurisdiction over certain aspects of storm water management in the village.

156.60 Sewer Main ~~Sewer~~ Connections.

Taps to sewer mains shall be made only in accordance with §151.12 of this code and the *Illinois Standard Specifications for Water and Sewer Construction, 6th Edition, July, 2009.*

~~Taps to main street sewers shall be made only at "wyes" or junctions installed for that purpose.~~

~~Where it is necessary to tap into a main sewer where no "wye" is provided, a neat opening shall be made and "Y" or "T" saddle inserted and concreted into place.~~

~~Sewer connection trenches which occur beneath existing or proposed pavement, curb, gutter or sidewalk shall be backfilled with trench backfill consisting of gravel or crushed stone.~~

~~Such trench backfill shall be placed to a point not less than five feet (5') from either edge of existing or proposed pavement, curb, gutter, or sidewalk.~~

~~Such trench backfill shall be thoroughly jetted in a manner and with equipment satisfactory to the village.~~

~~Excess excavated material shall be disposed of on the side of the lot served, in locations designated by the owner.~~

~~The terminus of each service so installed shall be marked by placing a two-inch by four-inch (2" x 4") hardwood stake not less than four feet (4') in length opposite the end of each sewer service terminus.~~

156.61 Connection With Sewage Disposal System.

When a public sewer is not available, an existing building sewer may maintain and replace its connection to a private sewage disposal system as approved by the village in conjunction with the Cook County Health Department. No new connections to a private sewage disposal system shall be permitted.

~~When a public sewer is not available, preexisting building sewer may be connected to an approved system of sewage disposal as approved by the village. No new connections shall be permitted.~~

156.62 Size Of Sanitary Building Sewers and Drains.

The required size of a building drain and a building sewer shall comply with the strictest requirements of the codes listed in §156.03, but in any case, shall not be less than four-inches (4") in internal diameter for the building drain and not less than six-inches (6") in diameter for the building sewer.

~~The required size of building drain and building sewer shall comply with the stricter of State of Illinois Plumbing Code or sections of this amendment, but shall not be less than four inch (4") internal diameter for the building drain and not less than six inch (6") diameter for the building sewer.~~

156.63 Defective Sewers And Laterals.

(A) Whenever a building sewer service line or lateral located on a property is obstructed or is found to be broken, fractured, and/or defective, so that sewage or drainage escapes into surrounding soil or into adjacent properties~~premises~~, repair and/or replacement will be required by the village.

(B) The maintenance and repair responsibilities of a home owner, other property owner and the village for obstructed, broken, fractured and/or defective service lines or laterals can be found and are more fully described in Village Policy Statement 7.08 Title: Sanitary Sewer Service Policy.

~~Repairs shall be at the expense of the owner of such property. However, the owner's responsibility for these repairs shall be restricted to only that portion of the lateral (house service) which lies within the owner's property line.~~

156.64 Water ~~Closet~~ and Sewer Connections.

(A) Every new and existing dwelling unit,~~occupied structure, and to include all~~ and commercial and industrial building, ~~commercial building(s), industrial buildings(s) or place of employment~~ must be equipped with an approved ~~shall be provided with a~~ plumbing system, including water closet facilities.

(B) No new private sewage ~~septic tank~~ systems will be allowed in the village~~permitted~~.

(C) When new sewer and water mains are laid in any street right-of-way or easement, all commercial and industrial buildings located on, or accessible to such street right-of-way or easement, shall connect to the main pursuant to §151.11 (A) and §151.12 (A) of this code. Under the same circumstances, the owners of residential buildings may connect to the main pursuant to the same sections of this code.

(D)When a connection to a sewer main described in paragraph (C) herein is made, all existing septic tanks, vaults, cisterns or cesspools (waste receptacles) used on the premises shall be abandoned pursuant to The Illinois Public Health Code, (77: Public Health, Part 905 Private Sewage Disposal Code, Section 905.40 Septic Tanks). The contents of an abandoned waste receptacle shall be disposed of in a manner as prescribed by State Law.

~~When the sewer and water mains are laid in any street, all buildings located on, or accessible to such street, shall connect with said mains not later than one (1) year after such mains are ready for connection.~~

~~All septic tanks, vaults, cisterns or cesspools used on such premises shall be discontinued when connection to sewer is made and the waste contents shall be hauled away and buried.~~

~~Discontinued receptacles shall be filled with sand or limestone screening and closed in a manner as approved by the inspector.~~

156.65 Installation Of Sewer Services.

(A) Residential sewer services or connections shall be composed of a minimum ~~The installation f house sewer services or connections shall be~~ of six inches (6") of cast iron piping or six inches (6") of polyvinyl chloride (PVC) piping material. The joints shall meet the specifications of the village, and the such sewer lines shall be laid in a straight line from the main sewer to the building in a continuous minimum increasing ~~up~~grade of one-quarter inch (¼") per foot from the sewer main to the building.

(B) The building service sewer line shall generally enter the sewer main or lateral by way of an existing "wye" or "tee". Indiscriminate breaking of the sewer main is not permitted ~~and shall not be accepted.~~

(C) In the event of the absence of a "wye" or "tee", the connection to the sewer main or lateral shall be made by one of the methods indicated below:

i. Installation of a manhole.

- ii. A circular saw cut of the sewer main using the appropriate tools, and the proper installation of a hub wye saddle or hub tee saddle, in accordance with the manufacturer's recommendations and/or specifications.
- iii. The removal of an entire section of sewer main or lateral and replacement of the section with a wye or tee branch. The pipe section shall be removed by breaking only the top of one (1) bell.
- iv. After the wye or tee branch is inserted, concrete shall be poured over the broken area to a level at least four inches (4") thick and to an eight inch (8") radius in all directions. A pipe cutter should be used to neatly and accurately cut out the desired length of pipe for insertion of a proper fitting. Couplings, shear rings and clamps should be used to fasten the inserted fitting and hold it firmly in place.

~~(B) Installation of a manhole.~~

~~Circular saw cut of sewer main by proper tools, and proper installation of hub wye saddle or hub tee saddle, in accordance with manufacturer's recommendations and/or specifications.~~

~~Remove an entire section of pipe and replace with a wye or tee branch section. Pipe section shall be removed by breaking only the top of one (1) bell.~~

~~After the wye or tee branch is inserted, concrete shall be placed over the broken area to a minimum thickness of four inches (4") and to a dimension of eight inches (8") in all directions. Using pipe cutter, neatly and accurately cut out desired length of pipe for insertion of proper fitting. Use couplings, shear rings and clamps to fasten the inserted fitting and hold it firmly in place.~~

(D) If another method is desired, a complete detail of the alternative shall be submitted for review and approval by the village before the connection is made.

156.66 Inspection Manholes and Sewer Trenches.

(A) An inspection manhole is required for all commercial and industrial buildings and must measure at least forty-eight inches (48") in diameter~~having a minimum diameter of forty-eight inches (48") is required for all commercial and industrial buildings.~~

- i. The inspection manhole shall be constructed on the building service sewer line before it connects to the sewer main, and ~~preferably~~ shall not be closer than five feet (5') to the building.
- ii. There shall be no flow into the inspection manhole except flow from the ~~building or~~ building(s) for which the inspection manhole is intended.

(B) Manholes constructed on public sewer mains, or on sewers receiving other flows, are not considered inspection manholes, and are therefore, governed by the specifications in §151.14 of this code.

(C) The material composition, or any other unspecified construction requirements, of inspection manholes shall be as specified in §151.14 of this code.

~~(C)~~(D) Sewer connection trenches located ~~that occur~~ beneath existing or proposed pavement, curb, gutter or sidewalk shall be backfilled with trench backfill consisting of sand, gravel or crushed stone. Such trench backfill shall be placed to a point not less than five feet (5') from either edge of the existing or proposed pavement, curb, gutter or sidewalk. Such trench backfill shall be thoroughly jetted in a manner and with equipment satisfactory to the village.

~~(D)~~(E) Excess excavated material shall be disposed of in an appropriate location ~~in an appropriate location on the lot side of served~~, as designated by the owner, and acceptable to the village.

~~(E)~~(F) The terminus of each newly so-installed service line shall be marked by placing a two-inch by four-inch (2" x 4") by four foot (4') in length of

hardwood stake in the ground~~hardwood stake not less than four feet (4') in length opposite the end of each sewer service terminus.~~

156.67 Drainage Areas To Storm Sewer.

Other than roof areas, all outside areas,~~other than roof areas~~, shall be drained to a storm sewer where necessary to avoid the discharge of water onto adjoining properties~~premises~~. When drained to a storm sewer, but other than roof areas, all outside areas exceeding three hundred (300) square feet, ~~where drained to a sewer~~ shall be trapped and drained through a catch basin not less than three feet (3') in diameter and not less than three feet (3') below the bottom of the trap.

156.68 Plumbing Installed for Future Use~~Drainage Waste Openings~~.

All plumbing or drainage ~~waste~~ openings that are not completed ~~and/or~~ have been ~~so~~ installed for future use, shall be capped at all open drains and re-vented in a manner as approved by the plumbing inspector.

Vents

156.69 Plumbing Materials To Be Used In Drainage And Venting Systems~~Amendments to International Plumbing Code and Appendix~~.

(A) Only the material listed in Section 890. Appendix A, Table A (Approved Materials for Building Sewer) of the Illinois Plumbing Code as approved for building sewer service piping construction are allowed in the village, with the exception of the following:

- 1) Acrylonitrile Butadiene Styrene (ABS) Pipe;
- 2) Asbestos Cement Pipe;
- 5) Concrete Pipe;
- 7) Polyvinyl Chloride (PVC) Pipe with Cellular Core; and
- 8) Vitrified Clay Pipe.

(B) Only the material listed in in Section 890. Appendix A, Table A (Approved Building Drainage/Vent Pipe) of the Illinois Plumbing Code as approved for building drainage materials, and vent piping and fittings are allowed in the village with the exception of the following:

5) Copper/Copper Alloy Tubing (DWV); and

11) Polyvinyl Chloride (PVC) Pipe with ATSM F891-1996 Cellular Core.

~~(A) Approved Materials for Building Sewer Service Piping:~~

~~Cast iron and fittings ASTM A 74.~~

~~PVC schedule 40 solid core piping ASTM F 1886, ASTM D 2665.~~

~~ASTM D 2949, SDR piping ASTM 3034.~~

~~Ductile iron where required ASTM A 377, ANSI A 21.5.~~

~~(B) Approved Material Building Drainage and Vent Piping and Fittings:~~

~~Brass piping ASTM 1343.~~

~~Cast iron ASTM 74, ASTM 888, CISIP 301.~~

~~Note: Commercial/industrial no hub cast iron installations shall use heavy duty four band couplings.~~

~~Copper piping above ground only ASTM B 75, ASTM B 88, ASTM B 42, ASTM B 251 type M copper minimum.~~

~~Galvanized steel piping above ground only ASTM A 53.~~

~~Glass fiber piping ASTM C 1053.~~

~~High silicone cast iron piping ASTM A 377.~~

~~Polyvinylidene fluoride pipe ASTM 3222.~~

~~Stainless steel type 304 and 306L ASME/ANSI A 112.~~

156.70 Waste And Vents Installed In Building Partitions.

(A)Waste Pipe. All waste piping systems installed in any multi-family residential building shall be constructed with cast iron pipe, insulated copper pipe or insulated PVC type piping systems.

(B)Where sound transmission from copper or PVC drain waste piping exceeds 50 Field Tested Sound Transmission Control (hereinafter "FSTC"), insulation shall be applied to reduce the FSTC to a reading below 50. Such need and resolution shall be documented by an appropriate sound testing professional, with the documentation of the design and testing results submitted to the village community development department.

~~Waste and soil pipe of cast iron or insulated PVC pipe. All soil and/or waste piping systems installed in any residential building, residential structure, apartment, multifamily, condominium type structure, and the like, shall be cast iron pipe, insulated copper or insulated PVC type piping systems.~~

~~Where insulated PVC type piping systems are installed, said piping systems and to include the insulation thickness, shall be so installed as designed by an architect, and installed to control any nuisance from sound transmission of the plumbing piping system throughout any residential building, residential structure, apartment, multifamily, condominium type structure, and the like.~~

~~All soil and/or waste piping systems shall be installed as to maintain a field sound and impact test equal to a reading of 50 FSTC (field tested sound transmission control) and shall be certified by an architect or a certified sound testing engineering firm, and documentation of design and/or testing results shall be submitted to the village.~~

~~156.71 Soil Waste And Vent Pipes.~~

~~Material and Protection: Every new main or branch soil, waste and vent pipe within a building shall comply with section 156.69.~~

~~Note: Copper shall only be permitted of four inch (4") in pipe size or less and shall be installed above grade level.~~

~~Note: Copper will not be permitted for any installation below finished grade level, concrete encased, and the like, and shall not be acceptable and/or approved.~~

~~All building drains underground shall be cast iron soil pipe or PVC schedule 40 piping and shall extend a minimum of four feet (4') outside of the building wall.~~

~~No galvanized steel or galvanized wrought iron pipe shall be installed inside a shaft or housing where the pipe is not in direct contact with the ground.~~

~~No cinders or ashes shall be used to backfill over any pipes installed in the ground.~~

~~The plumbing contractor shall be responsible for the placement of gravel, that is required to cover over ground piping after the inspection has been made.~~

~~Liquid wastes of a temperature exceeding one hundred sixty degrees Fahrenheit (160°F) shall not discharge directly into any drain, sewer, culvert or atmosphere.~~

~~Wastes of a higher temperature shall be intercepted and cooled to one hundred sixty degrees Fahrenheit (160°F) or less.~~

~~Blowoff basins shall be of cast or wrought iron and in conformity with ASME approval and shall be trapped and vented to the outside of the building by means of a vent pipe through the roof.~~

156.72 Underground Branches.

~~The minimum required sizes for underground soil and waste branches shall be four inches (4").~~

156.73 Soil Stacks.

~~All soil stacks shall be a minimum of three inches (3") inside diameter.~~

156.74 Cleanouts.

(A) An accessible cleanout shall be provided according to Section 890.420 (Pipe Cleanouts) of the Illinois Plumbing Code.

(B) Secondary Cleanouts shall be required in building sewer services for all residential construction. A secondary cleanout shall be constructed one foot (1') from the edge of the sidewalk, in the direction of the property line, or twenty-nine feet (29') from the building in the direction of the sidewalk or street. Only the installation of a straight "tee", of the same size of the sewer line it serves, is acceptable.

(C) A cleanout shall be brought up to a full size and shall be set flush with the sidewalk or finished grade level. This requirement shall apply to all new building construction, as well as repair or replacement of existing sewers.

Note: A permit from the MWRDGC may be required for any sewer work excluding single-family detached and attached homes.

~~(A) An accessible cleanout shall be provided at the foot of each soil and waste stack and at intervals of not over fifty feet (50') on building drains of eight inches (8") or less. For pipe sizes larger than four inches (4"), cleanouts shall be a minimum of four inch (4") inside diameter. Every building drain shall be provided with a "tee" cleanout where it enters the building. Every horizontal soil or waste pipe shall be provided with a cleanout at every ninety degree (90°) turn, and at the end of each branch. Fixture traps shall be considered as cleanouts. Where cleanouts are installed in basement floors, such floors shall be pitched away from said cleanouts.~~

~~(B) Secondary Cleanouts: There shall be required the installation of secondary cleanouts in building sewer service for single and multifamily dwelling type construction.~~

~~A secondary cleanout shall be installed one foot zero inches (1'0") from edge of sidewalk towards property line or twenty nine feet zero inches (29'0") from building in the direction of the sidewalk or street. Only a straight "tee" will be accepted, and shall be the same size of the sewer it serves.~~

~~PVC, cast iron or ductile iron where required will be accepted. Joints shall be no shear, mission, mechanical.~~

~~Cleanout shall be brought up full size and shall be set flush with the sidewalk or finished grade level.~~

~~This requirement shall apply to all new, repair or replacement of new building construction, repair or replacement of existing sewer service systems, and the like.~~

~~Note: Metropolitan Water Reclamation District permit is required for any sewer work excluding single family homes.~~

Traps, Interceptors and Separators

156.75 Floor Drains.

(A) Floor drains shall comply with the Illinois Plumbing Code, with the following local amendment:

- i. A minimum of one (1) four inch (4") floor drain shall be installed in all basement areas and/or utility rooms of detached and attached single-family dwelling units and in multi-family structures that provide shared laundry facilities.

~~A minimum of one (1) four inch (4") floor drain shall be installed in all basement areas and/or utility rooms of single and multifamily structures.~~

~~A minimum of one (1) four inch (4") floor drain shall be installed in all apartment type complexes, condominium type complexes, and/or other structures that may not be identified in this section of the chapter, that provide public laundry room facilities.~~

- ii. A minimum of one (1) four inch (4") floor drain shall be installed in all commercial and industrial buildings that contain washroom facilities.
- iii. A minimum of one (1) four inch (4") floor drain shall be installed in all designated kitchen areas where cooking and/or food preparation is ~~are~~ conducted in buildings of the commercial and industrial classification.

~~(A)~~(B) All new or existing floor drains must be equipped with an approved cover~~shall have an approved cover installed regardless if the floor drain(s) is of new installation or existing.~~

~~(B)~~(C) All flooring systems shall be ~~so~~-designed and/~~or~~ constructed ~~as~~-to provide for proper ~~"pitch"~~-drainage "pitch" that will be direct ~~directed~~ water towards all floor drains.

156.76 – Commercial Kitchen Requirements~~Interceptors, Traps and Backwater Valves.~~

(A) All buildings where ~~establishments in which~~-commercial kitchens and/or are located ~~and~~-food processing plants are located/operating shall be provided with ~~have an~~-an approved grease interceptor~~provided.~~

(B) All interceptors shall be properly sized to serve the type and amount of fixtures that discharge into it, but shall not be ~~less than~~ capable of less than a fifty (50) ~~less than seventy five (75)~~-gallon per minute flow rate for interior interceptors and a five hundred (500) gallon holding capacity for exterior locations.

(C) All interceptors shall be of durable, non-corrosive material and construction, and shall be located and installed in areas that are unobstructed for servicing and maintenance.

(D) All interceptors shall be installed per the manufacturer's specifications or a certified engineer's approved detail.

(E) All interior and exterior interceptors shall be properly vented, and cleanouts will be installed ~~provided~~-on the inlet and outlet sides of the drainage connections.

(F) Automatic commercial dishwashing equipment shall not discharge into a grease interceptor.

(G) Kitchen fixtures, and equipment designed for cleaning dishware, cookware, utensils, food preparation, etc., shall discharge into an indirect waste. The indirect waste shall be a hub drain receptor located in the floor, measuring

no less than four inches (4") in diameter, or an approved floor sink which shall be installed flush with the floor. Commercial mop, or service sinks located in such settings shall discharge into the grease interceptor.

156.77 Interceptors.

An approved interceptor will be required for ~~provided in~~ establishments where some type of organic or inorganic processing takes place that produces unspecified and/or unregulated ~~a waste with questionable matter or material~~ which drains into the sanitary sewer system.

~~156.78 Backflow And Vacuum Breaker Devices.~~

~~Backflow preventers and vacuum breaker methods, materials, and/or devices, shall be installed and maintained per village ordinance, the State of Illinois Plumbing Code(s), and the International Plumbing Code(s).~~

~~The more stringent wording and/or requirements shall apply.~~

Storm Drainage

156.79 - Separation Of Stormwaters From Sanitary Sewage.

(A) All new ~~sewer~~ construction shall provide two (2) separate and distinct sewer systems as follows:

(B) Storm Sewer Systems: This system shall be for the collection and conveyance of surface runoff and other stormwaters.

- i. All stormwaters shall be collected and conveyed in a pipe or ditch system to the point of discharge into a ~~in the receiving~~ natural or manmade receiving stream, designated ~~approved~~ drainage ditch or ~~approved~~ drainage swale;
- ii. No stormwaters shall be allowed to enter the sanitary sewer systems. ~~except that in "combined sewer areas" only, the stormwaters are allowed to be discharged into the metropolitan water reclamation district interceptors.~~

(C) Sanitary Sewer Systems: This system shall be for the collection and conveyance of sanitary sewage consisting of domestic and other waterborne wastes.

- i. All sanitary sewage shall be collected and conveyed in a pipe system to the point of discharge into an existing village sanitary sewage system, MWDGRC interceptor or treatment plant.
- ii. No sanitary sewage shall be allowed to enter into any storm sewer system or discharge onto the ground or into receiving streams, without first having been treated.

156.80 Roof Drainage, Stormwater and/or Seepage Drains.

(A) Roof drainage, stormwater and/or seepage drains shall comply with the code provisions of §156.03 herein~~adopted plumbing codes.~~

(B) Methods of stormwater ~~water~~ disposal and materials related to same, shall be approved by the plumbing inspector, the village engineer and/or the government authority having jurisdiction.

(C) For the roofing systems of buildings not greater than ten thousand (10,000) square feet in size, stormwater disposal shall be permitted by the use of approved downspouts.

~~Rainwater disposal from building roofing systems constructed of ten thousand (10,000) square feet or less shall be permitted to be connected to approved downspouts.~~

(D) The roofing systems of buildings greater than ten thousand (10,000) square feet, other than the required secondary/emergency roof drains, shall drain directly to a storm sewer.

~~Rainwater disposal from building roofing systems constructed in excess of ten thousand (10,000) square feet shall drain directly to a storm sewer.~~

156.81 Downspout And Erosion Protection.

- (A) Approved durable splash blocks or equivalent erosion protection shall be installed at all open discharge locations of stormwater downspouts.
- (B) The bottom of the downspout, at the water discharge ~~point~~location, shall not exceed six inches (6") above the immediate surrounding grade level and/or splash block.
- (C) Horizontal downspout extensions may be required to be installed to effectively distribute stormwater from the building foundation.
- (D) Prevention of a Nuisance: For new construction or existing property, ~~R~~regardless of the ~~point~~location of stormwater discharge, the discharge shall be on to private property and the downspout installations shall not be directed to any area which will create a nuisance~~in new or existing downspout applications as determined by the director of community development or his/her designee.~~ The determination of what constitutes a nuisance will be established by the community development department.

156.82 Interior ~~Inside~~ Downspouts.

- (A) Every downspout placed within the walls of a building, shall be constructed of one of the following materials:
 - i. extra heavy cast iron;
 - ii. copper galvanized wrought iron;
 - iii. galvanized steel pipe; or
 - iv. schedule 40 solid PVC pipe.
- (B) A gas and watertight connection shall be made at all roof locations.

~~Every downspout placed within the walls of a building, shall be of extra heavy cast iron, copper galvanized wrought iron, galvanized steel pipe, or schedule 40 solid PVC pipe. A gas and watertight connection shall be made at all roof locations.~~

~~Note: Interior downspouts shall not be permitted for installation in any zoned residential building or structure.~~

156.83 Footing Drains.

- (A) Where underground ~~subsoil~~ drains are located ~~placed~~ under cellars, basement floors, or adjacent to ~~outside or inside~~ the building foundation footings, they shall be drain tile made of ~~drain tile, approved material,~~ or other approved pipings~~pipe material,~~ but in any case, the tile or pipe shall not be less than four inches (4") of internal diameter, and the entire footing drain tile system shall be directed to and inserted into an approved storm and groundwater sump pit.
- (B) All internal ~~inside~~ foundation footing drain tile shall be located within a maximum of two feet (2') from the foundation footings.
- (C) All outside foundation footing drain tile shall be placed immediately adjacent to the foundation footing, and all foundation footing drain tile shall be located so that ~~placed where~~ the bottom of the ~~said~~ drain tile is not shall not be installed as to be higher than the top of the foundation footing.
- (D) The entire drain tile system shall be installed on top of no less than a four-inch (4") bed of No. 6 gravel~~number six stone and shall be~~, completely covered by not less than ~~with a minimum of~~ eight inches (8") of the same sized gravel~~of stone placed on top of the drain tile.~~ ~~All stone shall be sized as a minimum of number six stone.~~

156.84 Window Well Drains.

(A) All window wells shall ~~contain an~~ have adequate drainage ~~system installed,~~ with a drain pipe of not less than four-inches (4") of internal ~~inside~~ diameter, consisting ~~which shall be~~ of a solid and rigid drain pipe, which is ~~shall be~~ connected to a "tee" fitting incorporated with the building foundation footing drain tile system.

Note: Flexible type piping is not acceptable as window well drain piping.

(B) An approved cover shall be installed on all window well drain piping systems to prevent foreign matter from entering the drain system.

(C) Not less than ~~A minimum of~~ two inches (2") of No. 6 gravel ~~stone~~ shall be placed in the bottom of each window well.

(D) Not less than ~~a minimum clearance of~~ one inch (1"), but not more than ~~not to exceed~~ one and one-half inches (1½") of clearance shall be provided below the bottom of each window well frame to the top of the No. 6 gravel ~~said stone~~.

(E) As a condition of ~~Upon~~ final occupancy ~~inspection~~, all window well areas shall be clean and "free" of dirt, construction material, or other ~~and/or~~ foreign ~~materials~~, which may obstruct the proper drainage flow.

156.85 Sump Pump Discharge.

(A) All sump pump water discharge line(s) shall ~~be so installed as to~~ extend not less than ~~a minimum of~~ three feet (3'), but not more than ~~to exceed~~ ten feet (10'), from the foundation of a building and/or structure.

Exception: An exception to this requirement may be granted by written permission of the village manager or an authorized ~~his~~ designee. Exceptions may be granted for individual situations such as:

- i. when an accessory structure is in the way of the sump discharge;
- ii. if the discharge area is flat or back-pitched towards the foundation, and in order to avoid recirculation of sump water;
- iii. in order to avoid a new or add to an existing drainage issue on ~~the~~this property in question or a neighboring property; and
- iv. in order to connect the sump pump discharge to a dry well system.

(B) Regardless of the point/~~location~~ of water sump pump discharge, ~~it the sump water discharge~~ shall be located on private property and shall not be directed to any area or location which will create a nuisance, or hazard on the property in question, or allow the collection of water to remain on any adjacent or downstream property ~~which is not owned by the user~~.

(C) No private person shall ~~be directed~~, water discharge to or on to ~~and/or on to~~ any public property ~~or private properties owned by other persons~~.

(D) Sump pump water discharge lines may be connected to a storm sewer system when approved by the village.

Special Piping and Storage Systems

~~§ 156.86 – Water Pressure Ejectors.~~

~~Water pressure ejectors or siphons shall not be installed and will not be permitted.~~

156.87 - Backwater Valve Cleanouts.

(A) All backwater valves shall be provided with cleanouts measuring not less than four inches (4") in diameter, and placed where the interior of such valves may be conveniently reached for cleaning or adjustment.

(B) Backwater valves set below the floor, except those set flush with the floor surface, and all outdoor underground valves, shall be made accessible through manholes with proper covers.

Violation/Penalties

156.88 - Penalties.

Any person, firm, or corporation who violates any provision of this chapter may be subject to a fine as contained in §10.99 of this Code. All plumbing licensing violations to which the village becomes aware will be referred to the Department for additional prosecution and penalties.

~~Any person, firm, or corporation who violates any provision of this chapter or adopted plumbing codes may be fined as referenced by section 10.99, "General Penalty", of this Code and also may be referred to State of Illinois, Department of Public Health, plumbing program, for additional penalties.~~