



# Village of Woodridge

Community Development Department • Five Plaza Drive • Woodridge, IL 60517-5014  
(630) 719-4750 • FAX (630) 719-2900

## **CODES ADOPTED BY THE VILLAGE OF WOODRIDGE:**

2021 International Residential Code	2021 International Building Code
2020 National Electric Code	2014 State of Illinois Plumbing Code
2021 International Mechanical Code	2021 International Fire Code
2021 Illinois / International Energy Conservation Code	2018 Illinois Accessibility Code
2021 International Property Maintenance	Minimum Security Code
DuPage County Countywide Stormwater & Flood Ordinance	Village of Woodridge Local Amendments

## **Lawn Irrigation / Sprinkler Agreement**

### **– To Be Both Read and Signed by the Homeowner –**

By signing and accepting this agreement, I acknowledge that I understand that the following terms and comments are conditions and/or code requirements for the Building Permit being issued for the above referenced work;

The Village Code requires that "Reduced Pressure Principle Backflow Prevention Devices" (also referred to as an "RPZ") shall be tested at the time of installation and annually thereafter. The State of Illinois Department of Public Health requires that every municipality in the state keep record of and ensure that all of these backflow prevention devices be tested annually by a licensed plumber with a valid Cross Connection Control Device Inspector (CCCDI) certification.

Per the Village code, the Property Owner is responsible for the installation, maintenance, and testing of all required backflow prevention devices.

Once your Lawn Sprinkler system has been installed and the RPZ has been certified, please forward a copy of the certification to BSI and call this office to schedule a final inspection for the system. An Inspector will verify that the system was installed correctly and a Certificate of Completion will be mailed to you.

As a homeowner, I understand that the RPZ (Required Reduced Pressure Backflow) device is required, by Title 77 Ch.I.Sub.R.Part 892.50 of Illinois State law, to be installed in the lawn sprinkler system and must be tested once a year for the life of the sprinkler system by a licensed plumber with a valid (CCCDI) certification. **THE RPZ MUST BE INSTALLED INSIDE THE BUILDING.**

All expenses for testing and repair now, and in the future, are to be paid by the owner(s) of the RPZ device.

Contact BSI at: <https://backflow.com/>

Please print legibly:

DATE	
ADDRESS	
OWNER(S)	
OWNER(S) SIGNATURE	



# Village of Woodridge

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(630) 719-4750 • FAX (630) 719-2900

## Lawn Irrigation / Sprinkler System Submittal Checklist

The Village of Woodridge requires a Building Permit for the installation of a Lawn Irrigation System.

### Requirements for Applying for a Lawn Irrigation Permit:

- A completed Permit Application (a blank application is located at the very end of this document)
- 2 copies of a Plat-of-Survey (to Scale indicated on the Plat) must be provided.
- Each Plat-of-Survey shall Indicate the location of:
  - Any / all proposed Sprinkler Heads.
  - Backflow Prevention Device (RPZ) location inside the residence/structure.
  - Any additional equipment.
- Manufacturer’s Backflow Prevention Device (RPZ) Spec. Sheet.

Please note that all Lawn Irrigation submittals must include clear and detailed plans of all aspects of the system. Said plans must be provided to the Village of Woodridge Community Development Department when applying for a Building Permit to install a Lawn Irrigation System. Also, please see FAQ’s section below for additional information.

## Contractors Lawn Sprinkler Design & Installation Checklist

- All taps shall be made downstream of the house meter.
- If a secondary meter is installed, shutoff valves are required each side.
- Type “K” or “L” copper water piping required.
- Backflow Prevention Device (RPZ) must be installed inside building. Valve vaults and manholes not permitted.
- RPZ must be installed upstream of any pump or device.
- In commercial installations RPZ should be located within 10' of meter.
- The RPZ relief valve\vent shall be piped to a floor drain or storm sump pit via air gap.
- If air is used to drain the system, the valve shall be on the house side of the RPZ.
- If a pump is installed, a low-pressure cut-off switch is required on the suction side.
- Pumps shall be wired with an M" Greenfield whip or 1/2" Seal-tite whip with green ground wire pulled, 6' max length, unless pump has a cord and plug installed from the factory as part of a UL listed assembly.
- Copies of the certification shall be both posted on the RPZ and uploaded to BSI by your plumber. A licensed plumber holding a valid Cross Connection Control Device Inspector (CCCDI) registration must test the RPZ annually.
- **New or Replacement** sprinkler systems shall be equipped with a WaterSense labeled irrigation controller and shall be in compliance with section 2.5(g) of the Illinois Plumbing License Law.

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**Always call J.U.L.I.E. before Digging!! – Just Dial: “811”**

<https://www.illinois1call.com/>

**24 Hours a Day - 7 Days a Week / Min. 48 Hrs. Before Digging**

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**7-5B-10: WATER CONSERVATION MEASURES:** A. Restricted Hours For Nonessential Outside Water Uses To Prevent Excessive, Wasteful Use: Commencing on May 15 of each year and extending through the following September 15 of each year, lawn sprinkling shall not occur on consecutive days, nor shall water from the Village water distribution system be used on any day between the hours of eleven o'clock (11:00) A.M. and five o'clock (5:00) P.M. (local time) when evaporation is at its highest for the purpose of watering or sprinkling of gardens, lawns, trees, shrubs and other outdoor plants; except, that such restrictions shall not prohibit the watering of newly planted gardens, lawns, trees, shrubs and plants by means of handheld watering devices designed and intended for such purpose and only when such device is actually being operated by hand. New lawns (less than 3 months old) may be exempted from this provision. In addition, new/replacement sprinkler systems shall be equipped with a WaterSense labeled irrigation controller and shall be in compliance with section 2.5(g) of the Illinois Plumbing License Law.

**NOTICE: Automatic lawn sprinkler systems. Plumbing water piping accessory or feeding and automatic lawn sprinkler systems shall be installed in conformance with the following requirements:**

- 1) A reduced pressure zone backflow prevention device shall be installed inside the building on the water supply line serving the lawn sprinkler system, shall be protected from freezing, shall be installed before any pump or device. Water meters and backflow devices shall not be installed in valve vaults or manholes. The reduced pressure zone backflow device must be a minimum of one and one-half feet (1 ½') and a maximum of four feet (4') above the floor. In all but single family dwellings the RPZ must be installed within ten feet (10') of the water meter.
- 2) All water piping inside the building shall be Type K or L copper, galvanized pipe or brass. All water piping outside the building above grade shall be Type K or L copper, galvanized pipe or brass. Underground piping shall be Type K copper, PVC, polybutylene or polyethylene plastics.
- 3) On every installation but single family residences, the reduced pressure zone backflow device shall be installed by a state licensed plumber. On all installations, a certification report shall be submitted by a licensed plumber stating that the reduced pressure zone backflow device has been tested after installation. **This must be done on a yearly basis.**
- 4) The testing and certification shall be in accordance with Section 7-5B-13 of this Code.
- 5) Lawn sprinkler systems that require freeze protection by using compressed air to evacuate the lines, must have a valved connection point installed after the exterior vacuum breaker.
- 6) No chemical injection systems.
- 7) If a second water meter is installed to record the flow through lawn sprinkler systems, it shall be provided with valves on each side.
- 8) Lawn sprinklers may be installed on parkways and utility easements subject to the following requirements:
  - a) Sprinkler heads shall be flush with grade when not in operation.
  - b) A Declaration of Covenants in a form prepared by the Village of Woodridge shall be executed by the property owners and recorded with the appropriate Recorder(s) of Deeds prior to the issuance of a permit.

**F. Devices Required:**

- 1) An approved backflow prevention device shall be installed on each water service line to a customer's water system, as described in the Plumbing Code, 77 Ill. Adm. Code 890 and the Agency's regulations 35 Ill. Adm. Code 680, and this Section, when in the judgment of the Director of Public Works or his authorized representative, actual or potential hazards to the public water supply system may exist. The installation shall be done by a licensed plumber with a CCCDI registration at the sole expense of the customer being served. All devices shall be installed in accordance with manufacturer's recommendations. Reduced pressure zone principal backflow preventers shall be installed as follows:
  - a) Installation shall be in a location where the unit is readily accessible for maintenance and testing. Location should be immediately "downstream" of the water meter.
  - b) Minimum clearance as recommended by the manufacturer shall be observed.
  - c) All devices shall be protected against flooding and freezing.
  - d) Free draining of the relief port shall be maintained under all conditions.
  - e) Floor drains at least four inches (4") in diameter shall be provided.
  - f) Water meters and backflow devices shall not be installed in valve vaults or manholes.
  - g) The reduced pressure zone backflow prevention device must be a minimum of one and one-half feet (1 ½') and a maximum of four feet (4') above the floor.
  - h) There shall be no reduction made in the size of the relief port drain.
  - i) Provision shall be made for easy and unrestricted removal of the unit.
  - j) All devices shall be located within ten feet (10') of the water meter.
- 2) An approved backflow prevention device shall be installed on each water service line to a customer's water system where the following conditions exist:
  - a) Premises having an auxiliary water system, unless such auxiliary water system is accepted as an additional source by the Director of Public Works and the source is approved by the Agency and Village.

- b) Premises where any substance(s) exist which can create an actual or potential hazard to the public water supply system.
  - c) Premises having internal cross-connections that, in the judgment of the Director of Public Works are not correctable or intricate plumbing arrangements which make it undeterminable or impractical to determine whether or not cross-connections exist.
  - d) Premises where, because of security requirements or other prohibitions or restrictions, it is impossible or impractical as determined in accordance with standard engineering practices to make a complete cross-connection survey.
  - e) Premises having a repeated history of cross-connections being established or re-established.
  - f) Premises having an outdoor landscape or lawn sprinkling system.
- 3) An approved backflow prevention device shall be installed on each water line to a customer's water system serving, but not necessarily limited to, the following types of facilities unless the Director of Public Works determines that no health hazard to the public water supply system exist:
- a) Hospital, mortuaries, clinics, nursing homes.
  - b) Laboratories.
  - c) Piers, docks, waterfront facilities.
  - d) Sewage treatment plants, sewage pumping stations or storm water pumping stations.
  - e) Food or beverage processing plants.
  - f) Chemical plants.
  - g) Metal plating industries.
  - h) Petroleum processing or storage plants.
  - i) Radioactive material processing plants or nuclear reactors.
  - j) Car washes.
  - k) Facilities utilizing an auxiliary water source, and/or booster pumps for fire suppression.
  - l) Pesticide, or herbicide or extermination plants and trucks.
  - m) Farm service and fertilizer plants and trucks.

**G. Type of Protection Required:**

- 1) The type of protection required shall depend on the degree of hazard which exists as follows:
  - a) An approved fixed air gap shall be installed where the public water supply system may be contaminated potentially causing a severe health hazard.
  - b) An approved fixed air gap or an approved reduced pressure zone principle backflow prevention device shall be installed where the public water supply system may be contaminated causing a system hazard or health hazard.
  - c) An approved fixed air gap separation or an approved reduced pressure zone principle backflow prevention device or a double check valve device shall be installed where the public water supply system may be polluted with substances that could cause a pollution hazard not dangerous to health.
- 2) Where a public water supply or an auxiliary water supply is used for a fire protection system, reduced pressure zone principle backflow preventers shall be installed between the fire sprinkler system(s) connected to the public water supply system when:
  - a) The fire safety system contains antifreeze, fire retardant or other chemicals;
  - b) Water is pumped into the system from another source;
  - c) Water flows by gravity from a nonpotable source; or water can be pumped into the fire safety system from any other source;
  - d) There is a connection whereby another source can be connected to the fire safety system; or,
  - e) Reduced principle backflow preventers shall be installed on fire lines and potable water service lines separately. Fire lines shall be equipped with a detector check.

**H. Approved Backflow Prevention Devices:**

- 1) Approved backflow prevention devices, methods, installation and maintenance required by this Section are those approved by the Mayor and Board of Trustees of the Village of Woodridge, including those devices, methods, installation and maintenance requirements as described in List of Approved Backflow Prevention Assemblies, dated August 7, 1987, published by Foundation for Cross-Connection Control and Hydraulic Research University of Southern California, American Society of Sanitary Engineering, American National Standards Institute and certified by the National Sanitation Foundation to be in compliance with applicable industry specifications, devices which are set forth in the American Water Works Association Standard for Backflow Prevention Devices -- Reduced Pressure Principle and Double Check Valve Types AWWA C506-78 (R83) reaffirmed without revision January 30, 1983.
- 2) Installation of approved devices shall be made in accordance with 35 Ill. Adm. Code 653.802, and this Section, and only as specified by the Research Foundation for Cross-Connection Control of the University of Southern California or applicable industry specifications.

**I. Inspection and Maintenance:**

- 1) It shall be the duty of the customer at the premises on which backflow prevention devices required by this Section are installed to have inspections, tests, maintenance and repairs made in accordance with the following schedule or more often where inspections indicate a need or are specified in manufacturer's instructions:
  - a) Fixed air gap separation devices shall be inspected at the time of installation and at least annually thereafter and required service performed within five (5) days.
  - b) Dual check valve assemblies shall be inspected and tested at time of installation and at least .annually thereafter, and required service performed within five (5) days.
  - c) Reduced pressure principle backflow prevention devices shall be tested at the time of installation and at least annually thereafter, and required service performed within five (5) days.
  - d) All inspections and tests shall be conducted within sixty (60) days of the anniversary date of installation.
- 2) Testing and inspection shall be performed by a licensed plumber who is a CCCDI as defined in this Section. Proof of status as a CCCDI shall be in writing.
- 3) Each device shall have a tag attached listing the date of most recent test, name of CCCDI, and type and date of repairs.
- 4) A maintenance log shall be maintained and include:
  - a) Date of each test.
  - b) Name and approval number of person performing the inspection or test.
  - c) Test results-inspection.
  - d) Repairs or servicing required.
  - e) Repairs and date completed.
  - f) Services performed and date completed.
- 5) Whenever backflow prevention devices required by this Section are found to be defective, they shall be repaired or replaced at the expense of the customer within five (5) days or as otherwise specified by the Director of Public Works. All parts necessary to rebuild a unit to meet factory and\or State standards shall be provided by the manufacturer of the backflow preventer, and shall be new parts.
- 6) Backflow prevention devices shall not be bypassed, made inoperative, removed or otherwise made ineffective without specific written authorization by the Director of Public Works.
- 7) Tampering is Prohibited: No persons other than the Director of Public Works or his designee or other CCCDI shall remove, repair, test or perform any maintenance on any reduced pressure principle backflow preventer.
- 8) Out of Service-Repair: When a unit is out of service, or otherwise is in need of service, the Director of Public Works shall be notified within twenty four (24) hours.

- 9) Bypasses: If there is only one (1) service line and the water service cannot be interrupted, a second backflow preventer may be installed in parallel with the first. Under no circumstances will a backflow preventer be bypassed by unprotected piping.
- 10) Copies of all test results shall be forwarded to the Director of Public Works at the time of each inspection.
- 11) Original records submitted to the Director of Public Works shall be available for inspection by Agency personnel in accordance with 415 Illinois Compiled Statutes 5/4(e). These original records will be maintained by the Village of Woodridge as required by law.

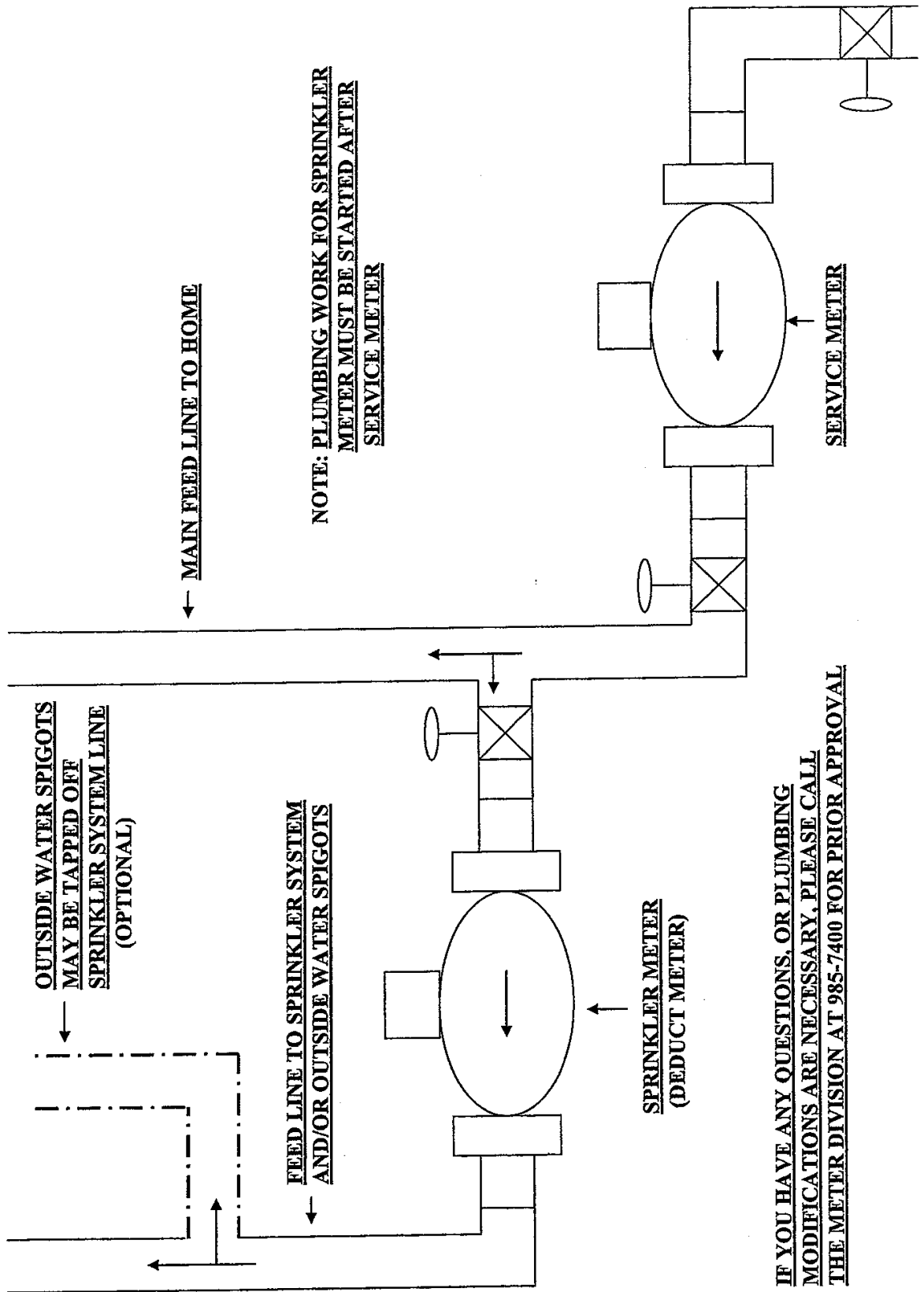
**J. Booster Pumps:**

- 1) Where a booster pump has been installed on the service line to or within any premises, such pump shall be equipped with a low pressure cut-off device designed to shut-off the booster pump when the pressure in the service line on the suction side of the pump drops to twenty (20) psi or less.
- 2) It shall be the duty of the water customer to maintain the low pressure cut-off device in proper working order and to certify in writing to the Director of Public Works at least once a year that the device is in proper working order.

**K. Violations:**

- 1) The Director of Public Works shall deny or discontinue, after reasonable notice to the customer and occupant thereof, the water service to any premises wherein any approved backflow prevention device required by these regulations is not installed, tested, maintained and repaired in a manner acceptable to the Director of Public Works; if it is found that the backflow prevention device has been removed or bypassed; if an unprotected cross-connection exists on the premises; or if a low pressure cut-off required by these regulations is not installed and maintained in working order.
- 2) Immediate disconnection with verbal notice can be effected when the Director of Public Works is assured that imminent danger of harmful contamination of the public water supply system exists. Such action shall be followed by written notification of the cause of disconnection. Immediate disconnection without notice to any party can be effected to prevent actual or anticipated contamination or pollution of the public water supply, provided that, in the reasonable opinion of the Director of Public Works or the Illinois Environmental Protection Agency, such action is required to prevent actual or potential contamination or pollution of the public water supply.
- 3) Water service to such premises shall not be restored until the customer or his successor has corrected or eliminated such conditions or defects in conformance with this Section to the satisfaction of the Director of Public Works, and any required fees are paid.
- 4) Neither the Village, the Director of Public Works or their agents or assigns shall be liable to any customers of the Village water supply system for any injury, damages or lost revenues which may result from termination of said customer's water supply in accordance with the terms of this Section, whether or not said termination of the water supply was with or without notice.
- 5) The customer responsible for back siphoned material or contamination through backflow, if contamination of the potable water supply system occurs through an illegal cross-connection or an improperly installed, maintained or repaired device, or a device which has been bypassed, must bear the cost of cleanup of the potable water supply system.
- 6) Any person found to be violating any provision of this Section shall be served with written notice stating the notice of the violation and providing a reasonable time limit for the satisfactory correction thereof. That person shall, within the period of time stated in such notice, permanently cease all violation.
- 7) Any person violating any of the provisions of this Section, in addition to the fine provided for in Title 1, Chapter 4 of this Code, shall be liable to the Village for any expense, loss or damage occasioned by the Village by reason of such violation, whether the same was caused before or after notice. (Ord. 92-5 1,9-10- 1992)

# SPRINKLER METER PLUMBING SCHEMATIC



**NOTE: PLUMBING WORK FOR SPRINKLER METER MUST BE STARTED AFTER SERVICE METER**

**IF YOU HAVE ANY QUESTIONS, OR PLUMBING MODIFICATIONS ARE NECESSARY, PLEASE CALL THE METER DIVISION AT 985-7400 FOR PRIOR APPROVAL**

*DuPage County*

**DEPARTMENT OF PUBLIC WORKS**

7900 S. Route 53  
Woodridge, Illinois 60517  
630.985.7400

**April 2008**



**IMPORTANT NOTICE**

Please read the following information before installing a sprinkler meter:

1. Confirm that you reside within the DuPage County Sanitary Sewer System. This may be done by examining your sewer bill. ("DuPage County Public Works" will appear on the top of your sewer bill, if you reside within our billing district.)

If you are unclear who your Sanitary Sewer Supplier is, please contact our billing department at 630.985.2905 for confirmation.

NOTE: DuPage County is not accountable for sprinkler meters installed beyond our Sanitary Sewer jurisdiction.

2. Contact your water supplier or Village Hall for plumbing requirements.

**Requirements include:**

- A. Meter Installation by a licensed plumber
- B. A plumbing permit and/or inspection fee
- C. Installation of backflow prevention (RPZ)

**SPRINKLER METERS MUST BE SEALED AND INSPECTED BY THE COUNTY BEFORE A CREDIT CAN BE ISSUED**



April 2008

**REGARDING CREDIT**

DuPage County will read the outside remote in the month of July, and the credit will be reflected on your September bill. **There will be a 100% credit given once a year on sewer charges only (not water).**

If you have any billing questions, please call 630.985.2905, Monday thru Friday, 8:00 A.M. to 3:00 P.M.

**SPRINKLER METERS MUST BE SEALED AND INSPECTED BY THE COUNTY BEFORE A CREDIT CAN BE ISSUED**

**OUTSIDE SOURCES FOR PURCHASING SPRINKLER METERS**

Water Resources (Neptune)  
390 Sadler St.  
Elgin, IL 60120-8038  
Telephone number 847.742.3400

Don Johns (Neptune)  
1312 West Lake St.  
Chicago, IL 60607  
Telephone number 312.666.2210

U.S. Filter (Sensus)  
220 South Westgate Dr.  
Carol Stream, IL 60188  
Telephone number 630.665.1800

**NOTE:** Check with your water supplier, they may sell the required sprinkler meter.

DuPage County also provides sprinkler meters (**plumbing work to accommodate meter is customer's responsibility**). Larger meters are also available.

<b><u>METER SIZE</u></b>	<b><u>METER COST</u></b>
5/8"	\$ 166.00
3/4"	\$ 192.00
1"	\$ 234.00

April 2008

## **REQUIREMENTS FOR SPRINKLER METER INSTALLATION**

1. Plumbing for the installation of a sprinkler meter and outside remote is the responsibility of the homeowner.
2. **THE METER PURCHASED MUST BE EITHER THE SENSUS ECR WITH TOUCH REMOTE, OR THE NEPTUNE A.R.B. WITH REMOTE RECEPTACLE.**
3. Sprinkler meter should be equal to or larger than your household meter (household meter size is printed on meter dial or meter body. If unsure of size, contact your water supplier).
4. Meter must be purchased new and read in U.S. gallons, not in cubic feet.
5. When purchasing a meter from an outside source, be sure to receive the correct outside remote, couplings and gaskets.
6. Sprinkler meter must be installed after the existing household meter, **on water line(s) solely dedicated for outside use only.**
7. Meter must be installed horizontally, at a readable height, and with the meter dial facing upward.
8. A valve must be installed before the sprinkler meter so it may be isolated in the event of repairs.

**NOTE: The meter and remote purchased from an outside source is not covered for service or replacement by DuPage County. Outside remote reading device must be functioning properly at all times in order to receive credit.**

**IF ANY OF THE ABOVE REQUIREMENTS ARE NOT MET, THE METER INSTALLATION WILL NOT BE APPROVED.**

If you have any questions, or need to schedule an appointment for inspection, please call the Meter Department at 630.985.7400, Monday thru Friday, 7:00 A.M. to 3:30 P.M.  
**SPRINKLER METERS MUST BE SEALED AND INSPECTED BY THE COUNTY BEFORE A CREDIT CAN BE ISSUED**

The DECLARATION OF COVENANTS

made this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_\_, by

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(“Declarants”) being **all** of the legal and beneficial owners of the following described property; to-wit:

Lot \_\_\_\_\_ in \_\_\_\_\_, a subdivision of part of Section \_\_\_\_\_, Township \_\_\_\_\_ North, Range \_\_\_\_\_, East of the Third Principal Meridian, situated in the Village of Woodridge, \_\_\_\_\_ County, and State of Illinois.

Parcel Number: \_\_\_\_\_

Commonly known as: \_\_\_\_\_  
(Address - Please Print Legibly)

WHEREAS, the Village of Woodridge is the owner of certain public utility easements across the above described property and the adjacent public parkways; and

WHEREAS, the Declarants wish to install in said easements and/or public parkways an automatic lawn sprinkler system;

NOW, THEREFORE, in consideration of the Village of Woodridge issuing a permit to the Declarants to install the automatic lawn sprinkler system on the above described Property in said easements, and/or adjacent public parkways, said Property is hereby made subject to the following covenants and restrictions, all of which shall be deemed to run with the Property:

1. The Declarants, their assigns and successors in title hereby agree to install and operate said lawn sprinkler system in full compliance with the ordinances of the Village of Woodridge and laws of the State of Illinois.

2. The Declarants, their assigns and successors in title hereby agree to indemnify, defend and hold, the Village of Woodridge, its officers, agents and employees, and all public utilities, their officers, agents and employees harmless from and against any damages, injuries, costs, claims, suits or liabilities including but not limited to damages to any Village or public utility equipment and facilities and to snow removal and street cleaning equipment, occasioned by the installation, maintenance, location, repair and operation of the lawn sprinkler system on the above-described Property. Costs shall be deemed to include attorney fees and costs of litigation.

IN WITNESS WHERE OF, the undersigned have executed this declaration at Woodridge, Illinois.

Print Full Name	Print Full Name
Property Owner's Signature	Property Owner's Signature

STATE OF ILLINOIS     )  
   )     SS  
 COUNTY OF             )

I, \_\_\_\_\_, Notary Public in and for said County, in the State aforesaid, do hereby certify that \_\_\_\_\_ personally know to me to be the same whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that \_\_\_\_\_ signed, sealed and delivered said instrument as \_\_\_\_\_ free and voluntary act for the uses and purposes therein set forth.

Given under my hand and Notarial Seal this \_\_\_\_\_ day of \_\_\_\_\_, AD, 20\_\_\_\_\_.

\_\_\_\_\_  
 NOTARY PUBLIC

RETURN THIS DOCUMENT TO: Village Clerk  
 Village of Woodridge  
 5 Plaza Drive  
 Woodridge, IL 60517

THIS COVENANT MUST BE FILLED OUT COMPLETELY AND TAKEN TO THE COUNTY RECORDERS OFFICE FOR THE COUNTY IN WHICH YOU RESIDE TO BE RECORDED:

DuPage County Recorder of Deeds 421 N. County Farm Rd. Wheaton, IL 60187	Will County Recorder of Deeds 58 East Clinton St. Joliet, IL 60431
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A STAMPED **COPY** MUST BE SUBMITTED WITH YOUR BUILDING PERMIT APPLICATION TO:

**COMMUNITY DEVELOPMENT DEPARTMENT  
 VILLAGE OF WOODRIDGE  
 5 PLAZA DRIVE  
 WOODRIDGE, IL 60517**



## BACKFLOW PREVENTION DEVICES FOR LAWN IRRIGATION SYSTEMS

### FREQUENTLY ASKED QUESTIONS (FAQ's)

#### **What is backflow and why are backflow devices required in certain water applications?**

- Backflow is the unwanted flow of a non-potable substance back into the consumer's plumbing system and/or public water system. Cross Connection is a point in a plumbing system where the potable water supply is connected to a non-potable source. Contaminants can enter the drinking water system through uncontrolled cross connections when backflow occurs. There are generally two types of backflow: back-siphonage and backpressure. Back-siphonage may occur during water main breaks, when repairs or maintenance are done on the water mains, when shutting off the water supply, when the fire department is using a fire hydrant, etc. Backpressure can occur when the potable water supply is connected to another system operated at a higher pressure or has the ability to create pressure. Principal causes are booster pumps, pressure vessels, and elevated plumbing. All devices used for backflow prevention in Illinois must meet the standards of the Illinois Plumbing Code and the Illinois Environmental Protection Agency.

The requirement for a backflow preventer, also referred to as an RPZ (Reduced Pressure Zone) device, on all automated irrigation systems and fire suppression systems is intended to mitigate health hazard concerns. More information can be found via the IEPA's website at <https://epa.illinois.gov/>.

#### **What is a RPZ and why is it important to be tested?**

- An RPZ device is a type of backflow prevention device designed to prevent the reverse flow of polluted water from entering the "potable" public drinking water supply.

#### **Regarding homes with Irrigation Systems, does the Village of Woodridge create and control backflow requirements or does the State of Illinois?**

- In response to the unfunded State mandate established under title 35 of the Illinois Protection Agency's (IEPA) Administrative Code and Illinois Department of Public Health (IDPH), title 77, part 890, Illinois Plumbing Code, all Public Water Supplies are required to have a Backflow Prevention Program. These codes delineate that there should be no arrangement or connection by which an unsafe substance may enter a water supply (cross connection). The mandate requires that all such connections to a Public Water Supply be the responsibility of the official custodian of the supply (i.e., Village of Woodridge).

#### **Regarding Townhomes or Single-Family Houses that have a Fire Suppression System: Do these backflow prevention systems need to be tested and certified every year?**

- Yes.

#### **Is there legislation that says that my backflow device is to be tested every year?**

- Both Agency regulations, 35 Ill. Adm. Code 653.802(e)(1), and the Plumbing Code, 77 Ill. Adm. Code 890.1130, require testing of the backflow assembly at the time of installation and at least annually thereafter.
- Also, while any Illinois licensed plumber can inspect plumbing or install a backflow device or assembly, only licensed plumbing contractors certified as Illinois Cross-Connection Control Device Inspectors (CCCDI) can test that device or assembly.

**Has the Village seen any backflow issues with Commercial, Multi-Family or Residential?**

- There have been no instances of documented backflows since the program was instituted. Typically, any issues would be identified by the licensed plumber and certified cross-connection control device inspector. For example, if the wrong backflow prevention device is in place, the licensed inspector will advise the property owner of what device(s) is required to meet state law. The village's primary concern at this point, regarding residences, is ensuring that we are meeting the mandated requirements of surveying our community for potential cross connections and ensuring those with irrigation systems are provided annual notifications on their responsibilities with respect to operating the system connected to the public water supply.

**Where do backflow mandates come from and who is going to enforce these mandates?**

- The Cross-Connection Control Program in Illinois is one of several tools intended to protect water consumers in the state. Section 18 of the Illinois Environmental Protection Act (P.A. 89-445, eff. 2-7-96; 90-773, eff. 8-14-98) and 35 Ill. Adm. Code 607.104 provides the Illinois Environmental Protection Agency (EPA) direction from both the Illinois legislature and Illinois Pollution Control Board. These statutes establish that no person can threaten a water supply and that local water supply officials are responsible for protecting their water mains from connections that have the potential to allow the backflow of contaminants into their respective distribution systems. Further, 35 Ill. Adm. Code 602.115 gives the Illinois EPA authority to develop and modify "Agency" regulations regarding cross-connection control at community water supplies.

**Who is BSI, and what is their role as it relates to the Village of Woodridge?**

- The Village of Woodridge has contracted with Backflow Solutions Inc. (BSI) to manage our backflow inspection program. BSI has experience managing similar programs for many municipalities in the State of Illinois and across the country. BSI will serve as the primary point of contact for backflow inspections within the Village of Woodridge and can be contacted at (800) 414-4990 or through their website at [www.bsiprograms.com](http://www.bsiprograms.com).

**My irrigation/sprinkler company shared that they would have to charge me an additional cost to "upload" the backflow test results to BSI. Is this true?**

- Yes. BSI charges irrigation/sprinkler companies \$15 to upload/transmit the backflow test results to their company.

**I will not be using my lawn irrigation system this year? Will I still be mandated to have my RPZ tested? What are my options?**

- In the Village of Woodridge, if you are not going to use the irrigation system, the RPZ is still required to be tested.
- If you would like to deactivate your irrigation system permanently, all piping in the house from the supply to the location at the foundation where the system goes outside the needs to be removed, and capped with no pipe section longer than twenty-four inches (24") remaining. Once that is accomplished, contact the Community Development Department (CDD) at (630) 719-4750 and the front desk will schedule an appointment with one of the Building Inspectors to inspect that the system has been fully removed from inside the house. Then, the CDD will notify BSI that the irrigation system and the RPZ was removed.

### Who requires testing?

- The Illinois Plumbing Code requires that a backflow prevention device be installed on all (Commercial and Residential) irrigation systems to protect the potable water supply. The law not only requires the use of backflow prevention devices, but also that the devices be tested once per year. State law also requires that the local municipality provide oversight that all requirements are being met.

### Who needs to have their backflow prevention device tested?

- Any property owner/agent that has an irrigation system in the State of Illinois.

### What credentials must a contractor have to test a backflow prevention device?

- Illinois Plumbing License
- Illinois Plumbing Contractors License
- Backflow Testing License (CCCDI License)

### Who can I contact for specific questions about testing in Woodridge?

- Backflow Solutions Inc. (BSI)
  - Telephone: (800) 414-4990
  - Website: [www.bsiprograms.com](http://www.bsiprograms.com)

### Which Village Department is providing Municipal Oversight?

- Woodridge Community Development Department (CDD):
  - Telephone: (630) 719-4750
  - Website: <https://www.woodridgeil.gov/index.php>

### Other Contacts:

- Illinois Dept. of Public Health:
  - Springfield Office Telephone: (217) 782-4977
  - Chicago, Michigan Ave. Office: (312) 814-2793
  - Chicago, Washington St. Office: (312) 814-5278
  - Website: <https://dph.illinois.gov/>
- Illinois EPA Division of Public Water Supply Field Operations:
  - Telephone: (217) 782-3397
  - Websites:
    - <https://epa.illinois.gov/topics/water-quality.html>
    - <https://epa.illinois.gov/topics/drinking-water.html>

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**IMPORTANT:** Contact J.U.L.I.E. at “**811**” so that the utility lines can be marked on the Property & Public Easements. Utility line damage resulting from the installation of fences prior to locating buried lines shall be the responsibility of the party cutting the line(s).

**Always call J.U.L.I.E. before Digging!! – Just Dial: “811” /**  
**<https://www.illinois1call.com/>**

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**(A Blank Permit Application is located at the very end of this document / next page)**