



Community Development Department – Five Plaza Drive – Woodridge, IL 60517-5014
(630)719-4750 – TTY (630)719-2497 – FAX (630)719-2900

**Lawn Sprinkler Agreement
To Be 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" 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 this office 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 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.

Please print:

DATE	
ADDRESS	
OWNER(S)	
OWNER(S) SIGNATURE	



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Contractors Lawn Sprinkler 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.
- 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 forwarded to this office for the file. A licensed plumber holding a valid Cross Connection Control Device Inspector (CCCDI) registration must test the RPZ annually.

Permit Fee: \$75.00



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FOR LOCATION OF ALL UTILITIES CONTACT J.U.L.I.E AT (800) 892-0123

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 Services 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 1/2') 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 Services 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 Services 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 Services 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 Services. 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 Services.
- 7) Tampering is Prohibited: No persons other than the Director of Public Services 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 Services 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 Services at the time of each inspection.
- 11) Original records submitted to the Director of Public Services 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 Services at least once a year that the device is in proper working order.

K. Violations:

- 1) The Director of Public Services 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 Services; 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 Services 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 Services 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 Services, and any required fees are paid.

- 4) Neither the Village, the Director of Public Services 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)

Permit Fee: \$75.00