

## LAWN IRRIGATION SYSTEMS

Many homeowners wish to install lawn sprinklers or lawn irrigation systems to water their grass. The city offers a second meter or a Sewer Deduct Meter which can be purchased from the Public Utilities Division. The meter will only monitor the water usage for the irrigation system and outside faucets without the sewer charges that are standard on your utility bill. Please call the Public Utilities Division at (440) 490-2049 for meter cost. All applicants making connections to the city water system for a lawn irrigation system shall comply with the following provisions:

- <u>Engineering Permit</u>. A permit is required from the Engineering Division for both the second meter (if to be installed) and the lawn irrigation system. No lawn irrigation system permit will be issued for a new home until the final grade has been approved.
- The city water supply to the lawn irrigation system shall be protected by an atmospheric-type vacuum breaker, a pressure-type vacuum breaker or a reduced pressure principal backflow preventer.
- A valve shall not be installed downstream from an atmospheric vacuum breaker. Where chemicals are introduced into the system, the city water supply shall be protected against backflow by a reduced pressure principal backflow preventer.
- If the irrigation system is to be installed in the right-of-way or in an easement, the irrigation system will NOT be repaired or replaced by the city of North Ridgeville should the city have to service the easement or right-of-way.

## **TESTING AND INSPECTIONS**

- Inspections for a second water meter are required when the piping is ready and before the meter can be installed. A final inspection is required for an irrigation system.
- Backflow prevention assemblies shall be tested by a certified backflow tester at the time of installation, immediately after repairs are made or the device is relocated and annually. Backflow test reports are required to be provided to the Engineering Division before or at the final inspection and every year by June 15. Failure to provide the test report at inspection will result in a FAILED inspection.

## **GENERAL INFORMATION AND ACKNOWLEDGEMENT**

Construction site address	Permanent parcel number
Construction site address	Permanent parcer number
Contractor	Contractor address
Contractor phone	Contractor email
Property owner	Property owner address
Property owner phone	Property owner email
Signing below confirms your acknowledgement of the lawn irrigation installation, inspection and maintenance procedures.	
Property Owner's Signature:	Date
Contractor's Signature:	Date

# Irrigation Systems and Second Water Meters **PROJECT GUIDE**



# WATER METER INSTALLATION REQUIREMENTS

- 1. Meters must be installed horizontally.
- 2. A minimum clearance of 4 inches must be present between center-line of meter to any wall or object.
- 3. The second meter MUST be installed downstream of the first meter. Please refer to "T" connection in drawing.
- 4. All pipe fittings used for the meter set must be of an approved type. No black pipe or fittings that may rust/corrode.
- 5. Meters must be properly supported with appropriate clamps or supports to prevent accidental breakage.
- 6. A jumper or spanner must be fit into the space for the meter. IT IS CRITICAL THAT THE SPACE FOR THE METER IS EXACTLY 12 INCHES. The jumper or spanner will be removed when the meter is installed and is necessary to check for leaks up and downstream of the meter installation.
- 7. The incoming water line must have a turn off on each side of the meter. See drawing.
- 8. A reduction to  $2\frac{1}{2}$  inch female brass fittings must be on either side of the meter set as shown.
- 9. If there are leaks in the assembly, the meter will not be installed.
- 10. Shark bite fittings that allow for rotation of the meter are unacceptable.
- 11. All water lines attached to the second meter must supply exterior uses only.

