



RESIDENTIAL IRRIGATION SYSTEMS

Backflow Installation Requirements

The following information is to familiarize the homeowner and contractor with the requirements for the installation of backflow assemblies for residential lawn irrigation systems within the City of Mesquite.

EFFECTIVE JANUARY 1, 2007, ALL NEW IRRIGATION SYSTEMS MUST HAVE A RAIN & FREEZE SENSOR INSTALLED ON THE IRRIGATION TIMER.

1. A permit is required for the installation of a lawn irrigation system. The permit fee is **\$125.00**. Permits may be obtained by homeowner or state-licensed irrigator or licensed plumber.
2. The water supply piping should be provided with a master shut off valve installed in a separate box with a removable cover located between the double check assembly and the meter. A Y-strainer is required after the shut off valve and before the double check assembly as illustrated on back.
3. A backflow prevention assembly, as approved by the 2006 International Plumbing Code and all City of Mesquite water regulations, must be installed as shown in the illustration on the back of this sheet.
 - **Double Check Valve** - Install in separate box in horizontal position large enough to test valve periodically. All double checks must be 12" below final grade and 12" clearance below device with a gravel bed.
4. All installations should be designed to reduce overspray from irrigation heads and to prevent run off of water used for irrigation onto paved surfaces.
5. The City shall not be held liable for damage to a system installed in the right-of-way resulting from sewer or water main installation or repair, or from improvements or widening of any street.
6. Any homeowner that installs a system between the sidewalk and curb shall hold the City harmless against any claim or injury to a person or damage to property.
7. The installed piping material must be approved by the 2006 International Plumbing Code and local amendments of the City of Mesquite, i.e., Copper, SDR or schedule 40 PVC.
8. Inspection and testing are required for the backflow prevention assembly before the final inspection by the Building Inspection Department. A state-licensed backflow tester, registered with the City of Mesquite, must test the backflow prevention assembly. A current list of registered backflow testers is located on the City web site at www.cityofmesquite.com/utilities.

You must contact the Public Works Backflow Inspector at 972-216-6947 before testing.

The Backflow Inspector must be present to witness the backflow test.