

# Irrigation Requirements

## Requirements for irrigation permits are as follows:

*Once the City reaches a population of 20,000, some changes will be made to comply with State Laws.*

1. All irrigation permit requests will require two (2) complete sets of plans (Must be 11 x 17) on a site plan, plot plan or survey of the lot indicating property lines, structures, fences and any impervious surfaces located on the property.
2. The plans must be submitted by an Irrigation or Plumbing Contractor with a current Anna registration. If submitted by an irrigator, the irrigators seal must be on the plans.
3. The plans must clearly specify the tap location, the installation routing, and the type/sizes of materials to be installed.
4. All new irrigation systems must contain sensors or technology that interrupt the operation of the system during periods of moisture, rainfall or freezing conditions
5. Installations must declare compliance with Section 1903.251, Texas Occupations Code.
6. Sprinkler heads must be located on private property with the heads oriented so as not to spray onto public roads, walls, fences, sidewalks, driveways, brick, wood or stone.
  - No spray heads allowed in turf/landscape areas less than 48"
  - No filling of swimming pools or decorative fountains allowed.
  - Hose bibs must be installed with quick disconnects and labeled "Non-Potable. Not safe for drinking" if installed.
7. The name and phone number of the licensed backflow tester that will test the backflow device at the completion of the job.
8. The name, address and phone number of the licensed irrigation or plumbing contractor.
9. The value of the job.
10. Any system installed with a chemical injection system must utilize a Reduced Pressure Principle Zone (RPZ) backflow device.

## General Information

1. When the permit has been approved, a permit fee for each commercial backflow device installed or for each residential device installed must be paid
  2. Irrigation and plumbing contractors as well as backflow testers must be registered with the City of Anna prior to obtaining any permit. Registration fees for irrigation contractors. There is no registration fee for plumbing contractors, but registration is required.
  3. Permits must be obtained before any work can begin. At any time work is being done, a licensed irrigator or irrigation technician — or a journeyman or master plumber must be present on the job. If the permit has been issued to a verified homesteaded homeowner, the homeowner must do the work and be present at all times while work is being done.
  4. At all times during the installation of the irrigation system, the building permit must be displayed in such a way that it is visible from the street.
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## Installation Requirements

1. A Double Check Assembly (DCA), Pressure Vacuum Breaker (PVB) or a Reduced Pressure Principle Zone (RPZ) device are the only approved backflow devices for a lawn sprinkler system. An RPZ backflow device must be used when a chemical injection system is installed as a part of the irrigation system.
2. All new irrigation systems must contain sensors or technology that interrupt the operation of the system during periods of moisture, rainfall or freezing conditions.
3. Sprinkler heads must be located on private property with the heads oriented so as not to spray onto public roads, walls, fences, sidewalks, driveways, brick, wood or stone.
  - No spray heads allowed in turf/landscape areas less than 48"
  - No filling of swimming pools or decorative fountains allowed.
  - Hose bibs must be installed with quick disconnects and labeled "Non-Potable. Not safe for drinking" if installed.

## Installation Requirements (continued)

4. **Double Check Assembly (DCA).** The following provisions apply to installation requirements when a Double Check Assembly is installed:
  - a. The **Double Check** must be installed within 5' of the connection to the water supply and on private property for residential lots.
  - b. The **Double Check** Assembly must be installed in a box.
  - c. There must be at least six inches (6") of pea gravel and 6" of air space below the double check.
  - d. There must be a clearance of six inches (6") between any test cock and the side of the box.
  - e. An isolation valve and a y-type strainer (pointing down) are required prior to the Double Check
  
5. **Pressure Vacuum Breaker (PVB) or Reduced Pressure Assemblies (RP).** The following provisions apply to installation requirement when Pressure Vacuum Breaker (PVB) or a Reduced Pressure Principle Assembly (RP) backflow device is installed.
  - a. If the **RP** is installed in a box, the box must contain drain holes. Additionally, the RP must be placed in a box large enough to provide the following clearances:
    1. Twelve inches (12") between the bottom of the assembly and the highest sprinkler head in the system for a **PVB** and twelve inches (12") between relief valve opening and the ground for an RP.
    2. Six inches (6") between the assembly test cocks and any portion of the box.
  - b. All plumbing lines and any backflow device located above the ground must be protected from freezing conditions. Such lines and devices must be installed in an approved hotbox or wrapped with heat tape. Any electrical circuit required for the heat tape or hot box requires a separate electrical permit. The permit can only be issued to a licensed electrician or the homeowner if the homeowner has homesteaded the property.
  - c. The device must be installed within five feet (5') of the connection to the water supply and located on private property for residential lots.
  - d. Any system installed with a chemical injection system must utilize a Reduced Pressure Principle Assembly (RP) backflow device.