

## ***Requirements for Irrigation Systems***

**Town of Highland Park, Dallas County, Texas**

1. Irrigation system plans (Two Copies) shall bear the **seal of the irrigator** and **show the maximum precipitation rate (2"max) in inches per hour per zone** and submit **\$50.00** irrigation permit fee.
2. Separate water meter is required for irrigation system.
3. Copper line between water meter & irrigation back-flow prevention assembly.
4. Show rain & freeze sensor location on irrigation plan.
5. Irrigation system shut-off valve shall be placed within 5.0' of the water meter and located on private property & freeze/rain sensor installed.
6. Backflow prevention device shall be tested by a certified tester.
7. Backflow **test report shall be submitted** to the Town within thirty (30) days of the date of the permit and **prior** to the irrigation system final inspection.
8. Backflow test report shall be accompanied by:
  - (1.) a certificate of calibration for the gauges used in the test,
  - (2.) a registration form for the certified tester,
  - (3.) a copy of the tester's certificate/license.

**NOTE: The gauges must be shown to the building inspector for verification of calibration.**
9. A final inspection shall be requested by the irrigator and include:
  - (1.) activation of related zones to verify that water does NOT spray directly on the public sidewalk, on the street, nor on the adjacent property,
  - (2.) verification that copper water line was used between the meter and back-flow prevention assembly,
  - (3.) verification that no public property is damaged due to the installation of the irrigation system,
  - (4.) verification that backflow device test cocks are properly plugged with non-ferrous screws,
  - (5.) verification of **12" air space clearance & 6" of gravel below DCA,**
  - (6.) verification that no part of the irrigation system is located in the easement or alley right of way.
10. The irrigation system shall be designed and comply with Ordinance #1886 "Plumbing Ordinance" Section 614 regulating Irrigation Systems.

**Ordinance No. 1886  
(Adopting and Amending the 2009 IPC)**

Section 614 - IRRIGATION SYSTEMS:

Subsection 614.1 - DEFINITIONS:

Irrigation System - Shall mean any system of underground pipes, valves, and irrigation heads (2 or more), designed for application of water to exterior landscaping; which is connected to the Town's water distribution system.

Substantially Rebuilt - Shall mean any irrigation system which existed prior to the date of this ordinance, and which is being rebuilt or modified to the extent that a new main service line is needed, or to the extent that any irrigation zone(s) is being reinstalled, or new pipes and/or heads are installed on such zone or zones. This definition does not include the repair of a broken pipe or repair of broken irrigation heads.

Main Service Line - Shall mean the pipe which extends from the water meter, on the customer side, and extends to the vacuum breaker which is installed on the customer's premises.

Subsection 614.2 - METERING:

Any new or substantially rebuilt irrigation system shall be connected to a separate water meter and shall be separately billed for water consumption.

Subsection 614.3 - DESIGN:

- (a) Any new or substantially rebuilt irrigation system shall be designed by a registered professional engineer, architect, landscape architect, or licensed irrigator; except that a homeowner can design and perform work on property of which he is the lawful owner.
- (b) A permit shall be required for any new or substantially rebuilt irrigation system, and the application for permit shall be accompanied by a drawing(s) of the proposed installation. The drawing(s) shall be to scale, and indicate the site boundaries, pipe location and sizes, and irrigation heads with design flow rate. The drawing(s) shall also indicate the design pressure at the water meter, maximum flow rate, and design application rate in inches per hour.
- (c) No system shall be approved which has an application rate greater than two (2) inches of water per hour.

- (d) Any new or substantially rebuilt irrigation system shall be designed to limit over spray onto adjacent properties, and to prevent run off during irrigation operation.
- (e) Any substantially rebuilt irrigation system shall comply with all provisions of the International Plumbing Code which requires backflow prevention devices.
- (f) Any new or substantially rebuilt irrigation system shall provide a freeze gauge of a type approved by the Town to prevent operation when temperature is at or below freezing.
- (g) Any new or substantially rebuilt irrigation system shall provide a rain sensing device of a type approved by the Town to prevent operation during periods of precipitation.

Subsection 614.4 - OPERATION:

- (a) A person commits an offense if he knowingly or recklessly irrigates, waters, or causes or permits the irrigation or watering of a lawn or landscape located on premises owned, leased, or managed by the person in a manner that causes:
  - (1) a substantial amount of water to fall upon impervious areas instead of upon the lawn or landscape, such that a constant stream of water overflows from the lawn or landscape onto a street or other drainage area; or
  - (2) an irrigation system or other lawn or landscape watering device to operate during any form of precipitation.
- (b) A person commits an offense if, on premises owned, leased, or managed by him, he operates a lawn or landscape irrigation system or device that:
  - (1) has any broken or missing irrigation head; or
  - (2) has not been properly maintained in a manner that prevents the waste of water.
- (c) A person commits an offense if, on premises owned, leased, or managed by him, he causes a discharge or otherwise permits a discharge to adjacent property, or which causes ice to form on any public street, alley, or sidewalk.

**REGISTRATION EXPIRES 356 days from issuance**

**Registration Fee = \$125.00**

***Registration of Landscape Irrigators***  
***Town of Highland Park, Dallas County, Texas***

Name of Company \_\_\_\_\_

**E-mail:** \_\_\_\_\_

Owner of Company \_\_\_\_\_

Address of Company \_\_\_\_\_

City \_\_\_\_\_ Zip Code \_\_\_\_\_ Phone # \_\_\_\_\_

Name of Licensed Irrigator \_\_\_\_\_

Address of Licensed Irrigator \_\_\_\_\_

City \_\_\_\_\_ Zip Code \_\_\_\_\_ Phone # \_\_\_\_\_

Irrigation License Number \_\_\_\_\_ Date Expires \_\_\_\_\_

Signature of Licensed Irrigator \_\_\_\_\_

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**AFFIDAVIT**

THE STATE OF TEXAS  
COUNTY OF \_\_\_\_\_

Before me the undersigned authority, a Notary Public in and for the said County and State, on this day personally appeared \_\_\_\_\_ known to me to be the person whose name is subscribed on this instrument.

Given under my hand and seal of office this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

\_\_\_\_\_  
Notary Public, \_\_\_\_\_ County

\_\_\_\_\_  
My Commission Expires

**Please attach a copy of the Irrigator's License issued by TCEQ.**

***Certified Backflow Device Testing Registration***  
***Town of Highland Park, Dallas County, Texas***

Name of Company \_\_\_\_\_

Owner of Company \_\_\_\_\_

Address of Company \_\_\_\_\_

City \_\_\_\_\_ Zip Code \_\_\_\_\_ Phone # \_\_\_\_\_

Name of Certified Backflow Tester \_\_\_\_\_ Cert.# \_\_\_\_\_

Certified Tester's Signature \_\_\_\_\_

***Attach copy of T.N.R.C.C. Backflow Certification & Annual Gauge Calibration Certificate***

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AFFIDAVIT

THE STATE OF TEXAS  
COUNTY OF \_\_\_\_\_

Before me the undersigned authority, a Notary Public in and for the said County and State, on this day personally appeared \_\_\_\_\_ known to me to be the person whose name is subscribed on this instrument.

Given under my hand and seal of office this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_

\_\_\_\_\_  
Certified Tester

\_\_\_\_\_  
Notary Public, \_\_\_\_\_ County

\_\_\_\_\_  
My Commission Expires

The following form must be completed for each assembly tested. A signed and dated **original** must be submitted to the public water supplier for recordkeeping purposes:

## BACKFLOW PREVENTION ASSEMBLY TEST AND MAINTENANCE REPORT

NAME OF PWS: Town of Highland Park

PWS I.D. # 0570049

MAILING ADDRESS 4700 Drexel Drive, Highland Park, TX 75205

CONTACT PERSON Don Young, Construction Coordinator

LOCATION OF SERVICE: \_\_\_\_\_

The backflow prevention assembly detailed below has been tested and maintained as required by TCEQ regulations and is certified to be operating within acceptable parameters.

### TYPE OF ASSEMBLY

- |   |  |
|---|--|
| <input type="checkbox"/> Reduced Pressure Principle | <input type="checkbox"/> Reduced Pressure Principle-Detector     |
| <input type="checkbox"/> Double Check Valve         | <input type="checkbox"/> Double Check Detector                   |
| <input type="checkbox"/> Pressure Vacuum Breaker    | <input type="checkbox"/> Spill-Resistant Pressure Vacuum Breaker |

Manufacturer \_\_\_\_\_ Size \_\_\_\_\_

Model Number \_\_\_\_\_ Device Location \_\_\_\_\_

Device Serial Number \_\_\_\_\_ **Meter Serial #** \_\_\_\_\_ (Tagged Sprinkler)

Is the assembly installed in accordance with manufacturer recommendations &/or local codes? \_\_\_\_\_

	Reduced Pressure Principle Assembly			Pressure Vacuum Breaker	
	Double Check Valve Assembly			Air Inlet	Check Valve
	1st Check	2nd Check	Relief Valve	Opened at _____psid	Held at _____psid
Initial Test Date:	Held at _____psid <input type="checkbox"/> Closed Tight <input type="checkbox"/> Leaked	Held at _____psid <input type="checkbox"/> Closed Tight <input type="checkbox"/> Leaked	Opened at _____psid <input type="checkbox"/> Did not open	<input type="checkbox"/> Did Not Open	<input type="checkbox"/> Leaked
Repairs and Materials Used					
Test After Repair	Held at _____psid <input type="checkbox"/> Closed Tight	Held at _____psid <input type="checkbox"/> Closed Tight	Opened at _____psid	Opened at _____psid	Held at _____psid

Test gauge used: Make/Model \_\_\_\_\_ SN: \_\_\_\_\_ Calibration Date: \_\_\_\_\_

The above is certified to be true at the time of testing.

Firm Name \_\_\_\_\_

Firm Address \_\_\_\_\_

City, State Zip

Date: \_\_\_\_\_

Certified Tester \_\_\_\_\_

Certified Tester No. \_\_\_\_\_

Firm Phone # \_\_\_\_\_