



**DEVELOPMENT SERVICES DEPARTMENT  
INSPECTION DIVISION  
8001 SHIN OAK DRIVE  
LIVE OAK, TEXAS 78233  
(210) 653-9140 EXT. 2244 or 2386 FAX (210) 653-0935**



## IRRIGATION PERMIT APPLICATION

*PLEASE TYPE OR PRINT CLEARLY*

JOB ADDRESS:		BUILDING PERMIT #
FIRST AND LAST NAME OF OWNER:	ADDRESS, CITY, ST, ZIP	PHONE:
PLUMBING CONTRACTOR:	ADDRESS, CITY, ST, ZIP:	PHONE:
		FAX:
USE OF BUILDING OR STRUCTURE:		

CLASS OF WORK: NEW  ADDITION  ALTERATION  REPAIR  MOVE  REMOVE

DESCRIBE WORK:				
VALUE OF WORK:				
\$				

**NOTICE**

SEPARATE PERMITS ARE REQUIRED FOR BUILDING, ELECTRICAL; HVAC, THIS PERMIT BECOMES NULL AND VOID WITHIN 1 YEAR OF ISSUANCE. PERMITS ARE NON-TRANSFERABLE FROM ONE PERSON TO ANOTHER. ANYONE HOLDING AN UNEXPIRED PERMIT MAY APPLY FOR AN EXTENSION, IN WRITING.

I HEREBY CERTIFY THAT I HAVE READ AND EXAMINED THIS APPLICATION AND KNOW THE SAME TO BE TRUE AND CORRECT. ALL PROVISIONS OF LAWS AND ORDINANCES GOVERNING THIS TYPE OF WORK WILL BE COMPLIED WITH WHETHER SPECIFIED HEREIN OR NOT. THE GRANTING OF A PERMIT DOES NOT PRESUME TO GIVE AUTHORITY TO VIOLATE OR CANCEL THE PROVISIONS OF ANY OTHER STATE OF LOCAL LAW REGULATING CONSTRUCTION OR PERFORMANCE OF CONSTRUCTION.

\_\_\_\_\_  
SIGNATURE OF CONTRACTOR OR AUTHORIZED AGENT    DATE

\_\_\_\_\_  
SIGNATURE OF OWNER (IF OWNER IS BUILDER)    DATE

02-01-2018 Reviewed

**FOR DEPARTMENT USE ONLY**

**PERMIT FEE: \$** \_\_\_\_\_

\_\_\_\_\_  
**APPLICATION ACCEPTED BY                      DATE**

\_\_\_\_\_  
**APPROVED BY    DATE**

**PERMIT FEES**

Less than \$1,000.00-----	\$50.00
\$1,000.01 to \$50,000.00-----	\$50.00 plus \$6.00 per \$1,000.00
\$50,000.01 to \$100,000.00-----	\$265.00 plus \$5.00 per \$1,000.00
\$100,000.01 to \$500,000.00-----	\$465.00 plus \$4.00 per \$1,000.00
Greater than \$500,000.00-----	\$1,665.00 plus \$3.00 per \$1,000.00

To figure permit cost: Cost of job ÷ 1,000.00 x multiplier + base amount = permit cost

Example: \$3,200.00 ÷ 1,000.00 x \$6.00 + \$50.00 = \$69.20

**ALL APPLICATIONS MUST HAVE A SIGNED CONTRACT BY BOTH PARTIES ATTACHED  
IF HOMESTEAD AND HOMEOWNER WILL BE DOING WORK NO CONTRACT REQUIRED**



# BACKFLOW ASSEMBLY TEST REPORT

Return Legible and Satisfactory Reports to:  
**CITY OF LIVE OAK, TEXAS**  
 8001 SHIN OAK, LIVE OAK, TX 78233  
 210-653-9140, EXT. 244 & 386 210-653-0935 FAX

<input type="checkbox"/>	NEW INSTALL
<input type="checkbox"/>	EXISTING INSTALL
<input type="checkbox"/>	REPLACEMENT OLD ASSY. SERIAL NUMBER

ASSEMBLY MANUFACTURER	MODEL	SERIAL NUMBER	SIZE	REQUIRED FOR ALL NEW, REPLACEMENTS & REMOVALS <input type="checkbox"/> INSPECTED BY BUILDING OFFICIAL <input type="checkbox"/> INSPECTED BY WATER PURVEYOR
OWNER/CONTROLLER NAME				ADMINISTRATIVE AUTHORITY <b>City of Live Oak, Texas</b>
OWNER/CONTROLLER MAILING ADDRESS				FILE NUMBER
CONTACT NAME		CONTACT PHONE		METER NUMBER
FACILITY NAME				
SERVICE ADDRESS				
LOCATION OF ASSEMBLY				
DOWNSTREAM PROCESS			AREA SERVED	
			<input type="checkbox"/> Domestic Water Service <input type="checkbox"/> Irrigation Service <input type="checkbox"/> Fire Service <input type="checkbox"/> Other	

INITIAL TEST RESULTS		TEST AFTER REPAIRS OR CLEANING	
<b>RPBA</b>	LINE PRESSURE AT TIME OF TEST _____ PSIG	PRESSURE DROP ACROSS #1 CHECK VALVE _____ PSID	PRESSURE DROP ACROSS #1 CHECK VALVE _____ PSID
	RELIEF VALVE OPENED AT _____ PSID	RELIEF VALVE OPENED _____ PSID	
	NO. 1 CHECK: <input type="checkbox"/> CLOSED TIGHT <input type="checkbox"/> LEAKED	NO. 1 CHECK: <input type="checkbox"/> CLOSED TIGHT <input type="checkbox"/> LEAKED	
	NO. 2 CHECK: <input type="checkbox"/> CLOSED TIGHT <input type="checkbox"/> LEAKED	NO. 2 CHECK: <input type="checkbox"/> CLOSED TIGHT <input type="checkbox"/> LEAKED	
	PASSED TEST <input type="checkbox"/> YES <input type="checkbox"/> NO	PASSED TEST <input type="checkbox"/> YES <input type="checkbox"/> NO	
<b>DCVA</b>	LINE PRESSURE AT TIME OF TEST _____ PSIG	NO. 1 CHECK: <input type="checkbox"/> CLOSED TIGHT    _____ PSID	NO. 1 CHECK: <input type="checkbox"/> CLOSED TIGHT    _____ PSID
	NO. 1 CHECK: <input type="checkbox"/> LEAKED		<input type="checkbox"/> LEAKED
	NO. 2 CHECK: <input type="checkbox"/> CLOSED TIGHT    _____ PSID	NO. 2 CHECK: <input type="checkbox"/> CLOSED TIGHT    _____ PSID	NO. 2 CHECK: <input type="checkbox"/> CLOSED TIGHT    _____ PSID
	<input type="checkbox"/> LEAKED		<input type="checkbox"/> LEAKED
	PASSED TEST <input type="checkbox"/> YES <input type="checkbox"/> NO	PASSED TEST <input type="checkbox"/> YES <input type="checkbox"/> NO	
<b>PVB</b>	LINE PRESSURE AT TIME OF TEST _____ PSIG	AIR INLET:        OPENED AT _____ PSID	AIR INLET:        OPENED AT _____ PSID
	AIR INLET:        OPENED AT _____ PSID	<input type="checkbox"/> FAILED TO OPEN	<input type="checkbox"/> FAILED TO OPEN
	CHECK VALVE:    HELD TIGHT AT _____ PSID	CHECK VALVE:    HELD TIGHT AT _____ PSID	CHECK VALVE:    HELD TIGHT AT _____ PSID
	<input type="checkbox"/> LEAKED	<input type="checkbox"/> LEAKED	<input type="checkbox"/> LEAKED
	PASSED TEST <input type="checkbox"/> YES <input type="checkbox"/> NO	PASSED TEST <input type="checkbox"/> YES <input type="checkbox"/> NO	

<b>AG</b>	APPROVED AIR GAP SEPARATION PROVIDED? <input type="checkbox"/> YES <small>(Physical Separation = 2 X Diameter of Supply Pipe to Overflow Rim)</small> <input type="checkbox"/> NO	<b>PLEASE RECORD REPAIR OR CLEANING INFORMATION IN REMARKS SECTION BELOW</b>	
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PROPER INSTALLATION? <input type="checkbox"/> YES <input type="checkbox"/> NO	WATER SERVICE RESTORED? <input type="checkbox"/> YES <input type="checkbox"/> NO	RECORD DETECTOR METER READING - WHEN APPLICABLE
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**REMARKS:**

INITIAL TEST BY (PRINTED NAME):	CERT NO.	DATE
REPAIRED BY (PRINTED NAME):		DATE
FINAL TEST BY (PRINTED NAME):	CERT NO.	DATE
TEST KIT MAKE	MODEL	SN#
TESTER'S SIGNATURE:		CAL. DATE
		( )

(I CERTIFY THAT I USED TCEQ APPROVED TEST METHODS AND DIFFERENTIAL PRESSURE TEST EQUIPMENT)      TESTER'S COMPANY NAME      TESTER'S PHONE

FAILED, INCOMPLETE AND ILLEGIBLE TEST REPORTS WILL NOT BE ACCEPTED – PLEASE CHECK YOUR TESTERS REPORTS



## DEVELOPMENT SERVICES

Ken Steiner, Building Official  
8001 Shin Oak Drive  
Live Oak, Texas 78233

## CITY OF LIVE OAK

210-653-9140 Ext. 2244

### LAWN IRRIGATION PERMIT

#### **When is a lawn irrigation permit required?**

A lawn irrigation permit must be obtained before installing any lawn irrigation system, which is permanently connected to the city's water supply.

A lawn irrigation permit is not required when making repairs to the piping of an existing lawn irrigation system unless the backflow prevention device is being repaired or replaced.

#### **How do I obtain a lawn irrigation permit?**

Submit the following items to the Development Services Department:

1. Lawn Sprinkler Permit Application
2. Plan of the property showing the irrigation system layout, stamped and signed by a Licensed Irrigator. Provide one hardcopy and one PDF document. This plan should include the following items:
  - a. The types of sprinkler heads to be utilized, quantities, and approximate locations. Please note, sprinkler heads will not be allowed between sidewalks and curb cuts - only soaker heads or any other device which has zero spray.
  - b. Location of existing water meter.
  - c. Information regarding the backflow device: manufacturer and size.
3. Copy of the signed contract between the company and the homeowner.

#### **Who is authorized to obtain permits?**

A homeowner may obtain his own permit to install the lawn irrigation piping if they are Home stead for that property.

A state licensed irrigator, registered with the city, may also install the irrigation system and connect the backflow device to the city public water system.

**IRRIGATORS:** Contact the Inspection Department to obtain information on registration requirements.

#### **Required Inspections:**

- 1) Open trench inspection-all trenches should be 12 inches in depth.
- 2) Final inspection for certification of backflow device (Backflow paperwork must be available at the time of inspection).



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### Are there any special equipment requirements for an irrigation system?

- 1) The potable water supply to lawn irrigation systems shall be protected against backflow by one of the following: atmospheric-type vacuum breaker, a pressure-type vacuum breaker, or a reduced pressure principle backflow preventer. Double check devices are not allowed for irrigation systems according to the currently adopted plumbing code.
  - a. A ball valve shall be installed on an incoming line and outgoing line after the backflow device. Gate valves are prohibited.
- 2) Underground inspection shall be made after trenches or ditches are excavated and bedded, piping installed, and before any backfill is put in place.
- 3) Provide Separate Zoning for:
  - a. Turf
  - b. Plants with dissimilar watering requirements.
  - c. Areas with greater or lesser sun exposure.
  - d. Slopes from flat/level areas (topographic information is required for zoning for slope and flat/level area design).
- 4) Sprinkler Head Spacing:
  - a. Head spacing shall not exceed 50% of diameter.
  - b. Spacing shall make allowance for local wind conditions.
  - c. Trim perimeters with correct arc and radii selection to eliminate water thrown onto non-landscape areas.
  - d. Show radius/diameter and arc of coverage of a representative number of each type of sprinkler head.
- 5) Valves: Flow control devices on all remote control valves (including a master valve)
- 6) Sprinklers:
  - a. Use of low-angle heads is encouraged.
  - b. Pop-up sprinklers and shrub risers will be at a height to clear turf, trees, shrubs, other planting and objects such fences, allowing no obstruction of spray pattern.
  - c. Pop-up type shrub risers should be used in areas where pedestrian/auto traffic may occur. Drip irrigation should be used in areas between the curb and sidewalk and parking lot areas or where over spray onto pavement may occur in accordance with manufacturer's recommendations. **NOTE:** Soakers or bubblers WILL be used for any area between the sidewalk and curb that is less than 6 feet.
  - d. Low head drainage is to be eliminated or minimized through design or by use of check valves.



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- e. Sprinkler heads shall be attached to rigid lateral lines with flexible material; swing joints top reduce potential for breakage.
- f. All efforts will be made to reduce water runoff.

### **Where should the backflow device be installed?**

It shall be installed as close to the home as possible, on the customer side of the property.

### **Are there any watering restrictions?**

Yes. Watering is prohibited between the hours of 10:00 AM and 8:00 PM daily with the use of a lawn irrigation system or sprinkler head attached to a garden hose. Watering with a garden hose alone or bucket is permitted any time of the day. In addition, if the City of Live Oak is placed on Drought Restriction, as issued by San Antonio Water System (SAWS), there will be additional restrictions on lawn watering. For more information, please call Public Works Utilities at (210) 653-9140 extension 2225 or 2226.