

WATER/WASTEWATER CONNECTION PERMIT

Permit No. _____
(For City Use)

I/We _____ (Contractor or Agent for Owner) request permission to make the following connections and install the necessary components in accordance with the attached terms and conditions.

Permission granted by City of Irving to perform work in the City's rights-of-way and easements is conditioned on the applicant conforming and adhering to the stipulated terms and conditions.

Location: Legal Description (Subdivision Block, Lot – if un-platted, Survey/Abstract No and Tract#)

Address: _____

Checklist (Mark as "N/A" if not applicable) (Please scan, email: Meters@cityofirving.org and mail original of applicable items)

- _____ This form (signed) with Property Owner's info (**Email**)
- _____ Performance/Maintenance Bond (**Email & Mail original**)
- _____ Insurance Certificate with City of Irving as additional insured (**Email & Mail original**)
- _____ Send PDF of approved plans including plat of the property by email (**300dpi required**)
- _____ Private Fire Line Service Agreement (PFLSA) signed by owner (For fire line connection) (**Email, Mail original and Survey Site Plan Exhibit**)
- _____ Execute easement dedication with exhibits sealed by a PLS (for vaults) (**Email & Mail original**)
- _____ Send a PDF of Fire line plan approved by Fire Marshal (For fire line connection) (**300dpi required**)

Scope of Work of this permit is as follows:

Water Connections:

- (Qty) (Size)
- _____ Each _____ water connection(s) and Meter box (es) without meter (2" or less)
 - _____ Each _____ water connection(s) and Meter box (es) without meter (2" or less)
 - _____ Each _____ water connection(s) and Meter vault with meter (4" 6" 8" 10" 12")
 - _____ Each _____ (size) water connection(s) and private double check detector assembly (DCDA) vault(s) with ¾-inch meter box (es)
 - _____ Each _____ (size) water connection(s) to public fire hydrant, including 6" lead, 6" gate valve and new fire hydrant assembly

Wastewater Connections:

- (Qty) (Size)
- _____ Each 4 -inch Residential wastewater connection and lateral
 - _____ Each _____ -inch Commercial wastewater Connection to a new manhole on the existing main
 - _____ Each _____ -inch Commercial wastewater Connection to an existing manhole on the main

Storm Drain Connection:

- _____ Each _____ -inch storm drain connection to an existing inlet/main
- _____ Each _____ -inch storm drain connection to an existing inlet/main

Meter Relocation:

_____ each _____ -inch meter relocation can be no more than 10ft either direction

CIP will process permit after all applicable items in checklist are submitted

Applicant understands and agrees to:

- (1) Execute and submit this Permit form (three pages) in one original form. Provide contact information for the Owner of the property. **(Email)**
 - (2) Execute and submit a Performance and Maintenance Surety Bond in an appropriate amount to guarantee the completion of the above work in accordance with City standards and the satisfactory operation of such improvement for a period of two years from the acceptance of the work. **(Email & mail original)**
 - (3) Execute the attached Standard Certificate of Insurance Form for the City of Irving with liability limits as specified. **(Email & mail original)**
 - (4) Provide Capital Improvement Program Department (CIP) with approved construction plans, all files must be in PDF and send via e-mail. **(300dpi required)**
 - (5) Mail documents to CIP department, Development Services, 2nd Floor City Hall 825 W. Irving Blvd., Irving, TX 75060 (Tele: 972-721-2611) and email to Meters@cityofirving.org. Do not transmit the documents via fax.
 - (6) Provide the following for connection(s) to a private fire hydrant and/or fire sprinkler system on an unmetered line. A double-check detector assembly (DCDA) is required. Download the Water and Wastewater Details from City's web site:
<http://www.cityofirving.org/138/CIP-Engineering-Downloads>
 - (a) Execute and submit a **PRIVATE FIRE LINE SERVICE AGREEMENT**. Attach to this document a legal description as Exhibit A, which shall be a description either by subdivision/block/lot or by metes and bounds. The Owner must sign Exhibit A. Ensure the Agreement is notarized using the appropriate Acknowledgement form. An exhibit labeled Exhibit B showing the location of the fire line showing the ROW and LOT lines is required **(Survey Site Plan Exhibit)**.
 - (b) Generally, the vaults will be constructed in an easement adjacent to the utility easement or ROW if no utility easement is present. Contact CIP for the form of the document.
 - (c) Pay for a ¾" detector meter, deposit, and admin fees at Customer Service, 1st Floor of the City Hall.
 - (d) Install a DCDA vault in accordance with the City's standard detail and the City's list of approved models/manufacturers for component items.
 - (e) Ensure fire protection systems have approval of the **Fire Marshal's office** (972-721-2651) prior to commencement of any work.
 - (7) Meters sized 2" or less will be set by City forces after the letter of acceptance is issued by the CIP department, account set up, and all meter fees paid. The contractor will furnish the double check detector and vault assembly (ies) and any meter larger than 2" in size.
 - (8) **Obtain approval of fire protection systems** from the Fire Marshal's office (972-721-2651) prior to commencement of any work. Submit one (1) copy of the stamped plans to CIP.
 - (9) Contact Engineering Inspections Supervisor 972-721-2219, at least 24 hours prior to beginning work in the right-of-way. **Utility easements**, when required, must be field verified (staked) prior to commencement of any work.
 - (10) Locate all underground utilities prior to beginning work by contacting 1-800-DIG-TESS (1-800-344-8377) and Water Utilities dispatcher at 972-721-2261 at least 72 hours prior to beginning work.
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- (11) Notify the City’s inspector at least 48 hours prior to work that requires operation of any gate valves.
- (12) Assume, defend, indemnify, and save harmless the City of Irving, its officers, agents and employees from all claims, demands, causes of action, suits, attorney's fees for any property damage and/or injury to or death of any persons in any manner arising out of or connected with or incidental to the activities or work under this agreement of the contractor, its agents or employees.
- (13) Include a pay item in the Owner/Contractor Agreement for trench safety systems that meet regulations for excavating, trenching, and shoring contained in Subpart P, Part 1926 of the *Code of Federal Regulations*, in accordance with House Bill 665.
- (14) Comply with City standard details, specifications and general notes. Specifically, refer to Specification Section 01005, “Approved Products Listing” and details attached and/or available at City of Irving web site:
<http://www.cityofirving.org/138/CIP-Engineering-Downloads>
- (15) Notify Water Utilities Customer Service (972-721-2288 or 972-721-2411) and they **will place a work order for 2” and smaller meters after** all meter fees are paid with letter of acceptance issued by CIP

I certify I have read and I understand all of the above conditions.

(Initials)

I certify that I have full authority to sign and execute this document:

For Applicant:

Owners Information:

Signature of Contractor’s Representative

Signature of Owner's Representative

Printed Name of Contractor’s Rep.

Printed Name of Owner’s Representative

Contractor or Agent (Company Name)

Company/Partnership/Owner

Contractor’s Address

Owner’s Address (NOT project address)

City, State, Zip

City, State, Zip

Contractor’s Telephone

Property Owner Telephone

Email

Email

Approval of Installation of Facilities:

Engineer, CIP

Date

PERFORMANCE AND MAINTENANCE BOND

BOND No. _____

STATE OF TEXAS §
COUNTY OF DALLAS §

KNOW ALL PERSONS BY THESE PRESENTS:

That _____ (Contractor) of the City
Of _____ County of _____, State of _____, as **Principal**, and
_____ (Surety Company) authorized under the laws
of the State of Texas to act as surety on bonds for principals, as **Surety**, are held and firmly bond
Unto City of Irving (“City”) in the penal sum of _____
Assigns, jointly and severally, by these presents:

WHEREAS, the Principal has entered into a certain written Contract with the Owner, for the
construction/installation of _____

(description and location of work), which contract is hereby referred to and made part hereof as
fully and to the same extent as if copied at length herein.

NOW THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, that if the said
Principal shall faithfully perform the said Contract and shall in all respects duly and faithfully
observe and perform all and singular the covenants, conditions and agreements in and by said
contract agreed and covenanted by the Principal to be observed and performed, and according to
the true intent and meaning of said Contract and the Plans and Specifications hereto annexed, and
if the Principal will maintain and keep in good repair the work herein contracted to be done and
performed for a period of **two (2) years** from the date of acceptance, and do all necessary
backfilling that may arise on account of sunken conditions in ditches, or otherwise, and do and
perform all necessary work and repair any defective condition growing out of or arising from the
improper joining of the same, or on account of any breaking of the same caused by the said
Principal, in laying or building the same, or on account of any defect arising in any of said parts
of said work laid or constructed by the said Principal, or on account of improper excavation or
backfilling, it being understood that the purpose of this section is to cover all defective conditions
by the said Principal; and in case of the said Principal shall fail to do so, it is agreed that the City
may do said work and supply such materials, and charge the same against the said Principal and
Surety(ies) on this obligation, and the said Principal and Surety(ies) hereon shall be subject to the
liquidated damages mentioned in said Contract for each days failure on its part to comply with

The terms of the said provisions of said Contract; then this obligation shall be void; otherwise to remain in full force and effect.

Provided, further, that if any legal action be filed on this bond, venue shall lie in Dallas County, Texas.

And, that said Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract, or to the work performed thereunder, or the plans, specifications, drawings, etc., accompanying the same shall in anywise affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract, or to the work to be performed thereunder.

“PROVIDED, HOWEVER, that this bond is executed pursuant to the provisions of Chapter 2253 of the Texas Government Code for Public Works as amended and all liabilities on this bond shall be determined in accordance with the provisions of said Chapter to the same extent as if it were copied at length herein.”

In witness whereof, this instrument is executed in _____ Copies, each one of which shall be deemed an original, this the _____ day of _____, A.D., 20____.

PRINCIPAL:

SURETY:

(Company)

(Company)

BY: _____
(Signature)

(Signature) ATTORNEY-IN-FACT

ATTEST: _____
SECRETARY

The name and address of the Agent for Surety is:

(The above named Agent is hereby designated by the Surety as the Agent Resident in Dallas County to whom any requisite notices may be delivered and on whom service or process may be had in matters arising out of such suretyship.)

City of Irving CERTIFICATE OF INSURANCE

PRODUCER

DATE (MM/DD/YY)

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO ADDITIONAL RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW

INSURED

COMPANIES AFFORDING COVERAGE

COMPANY A

COMPANY B

COMPANY C

COMPANY D

COVERAGES

THIS IS TO CERTIFY TO THE DIRECTOR OF CIP THAT THE FOLLOWING POLICIES OF INSURANCE, SUBJECT TO THEIR TERMS, CONDITIONS AND EXCLUSIONS, HAVE BEEN ISSUED BY THE COMPANIES COVERING THE INSURED NAMED BELOW FOR THE TYPES OF OPERATIONS AND AT THE LOCATIONS DESCRIBED HEREIN. IT IS UNDERSTOOD AND AGREED THAT NONE OF THE POLICES REFERENCED HEREIN WILL BE CANCELED, CHANGED, REDUCED IN COVERAGE, OR ALLOWED TO EXPIRE WITHOUT AT LEAST THIRTY (30) DAYS ADVANCE WRITTEN NOTICE BY CERTIFIED MAIL TO THE DIRECTOR OF CIP AT THE ADDRESS LISTED UNDER CERTIFICATE HOLDER BELOW.

Co	TYPE OF LIABILITY	POLICY NUMBER	EFFECTIVE DATE	EXPIRATION DATE	LIMITS OF LIABILITY IN THOUSANDS	
	GENERAL LIABILITY				GENERAL AGGREGATE	\$
	COMM GEN LIABILITY				PRODUCTS-COMP/OP AGG	\$
	CLAIMS MADE				PERSONAL & ADV INJURY	\$
					EACH OCCURRENCE	\$
					FIRE DAMAGE(any one fire)	\$
					MED EXP (any one person)	\$
	CITY ADDITIONAL INSURED				COMBINED SINGLE LIMIT	\$
	AUTOMOBILE LIABILITY				BODILY INJURY (per person)	\$
	ANY AUTO				BODILY INJURY (per accident)	\$
	ALL OWNED AUTOS				PROPERTY DAMAGE	\$
	SCHEDULED AUTOS					
	HIRED AUTOS					
	NON-OWNED AUTOS					
	CITY ADDITIONAL INSURED					
	GARAGE LIABILITY				AUTO ONLY-EA ACCIDENT	\$
	ANY AUTO				OTHER THAN AUTO ONLY:	\$
					EACH ACCIDENT	\$
	CITY ADDITIONAL INSURED				AGGREGATE	\$
	EXCESS LIABILITY				EACH OCCURRENCE	\$
	UMBRELLA FORM				AGGREGATE	\$
	OTHER THAN UMBR					
	CITY ADDITIONAL INSURED					
	WORKERS' COMPENSATION				STATUTORY LIMITS	
	EMPLOYER LIABILITY					
	PROPRIETOR/PARTNERS/				EACH ACCIDENT	
	INCLUDED					
	EXECUTIVE OFFICER ARE:				DISEASE - POLICY LIMIT	\$
	INCL				DISEASE -EACH EMPLOYEE	\$
	EXCL					
	All Risk Bunder's Risk					

CITY NAMED INSURED

OTHER						
ENDORSEMENTS: (PLEASE CHECK MARK WHICH ENDORSEMENTS HAVE BEEN ATTACHED TO THESE POLICIES)						
Premises/Operations	Products/Compl. Operations	CG 2503 "Amended Aggregate Limit of Insurance per Project"				Independent Contractor
Blank Cont/Hold Harmless	Owner/Contractor/ Protective	Explosion, Collapse & Underground Damage (XCU)				OCCURRENCE POLICY

Extended Bodily Injury Broad Form PD Personal Injury, with employment exclusion deleted ADDITIONAL INSURED

CERTIFICATE HOLDER

THE CITY OF IRVING has been named an additional insured by an endorsement to the coverages, other than Workers' Compensation and Employers' Liability, listed herein with regard to the Insured's activities under this project and all premiums arising from the coverages herein shall be the responsibility of the Insured.

Should any of the above described policies be canceled before the expiration date thereof, the issuing company will mail at least thirty (30) days advance written notice to the certificate holder by certified mail.

CONTRACTUAL LIABILITY SIGNATURE

Subject to policy terms, conditions and exclusions, specific Contractual Liability coverage is provided as follows:
 Only for liability assumed by the Insured under its Contract with the City of Irving for the operations described herein

Authorized Representative

ACKNOWLEDGEMENT

On this ____ day of _____, 20__ personally appeared _____, an authorized representative of _____ (name of producer) known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same for the purpose of proving that the Insured is covered by the policies of insurance indicated above.

[SEAL]

EXAMPLE FORM

City of Irving CERTIFICATE OF INSURANCE

DATE (MM/DD/YY)

03/10/99

PRODUCER

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO ADDITIONAL RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW

INSURED

COMPANIES AFFORDING COVERAGE

ACME EXCAVATION AND UTILITY CO., INC.

COMPANY
A TEXAS INSURANCE CO.

100 MAIN ST.

COMPANY
B ABC INSURANCE CO.

IRVING, TX 75060

COMPANY
C

COMPANY
D

COVERAGES

THIS IS TO CERTIFY TO THE **DIRECTOR OF CIP** THAT THE FOLLOWING POLICIES OF INSURANCE, SUBJECT TO THEIR TERMS, CONDITIONS AND EXCLUSIONS, HAVE BEEN ISSUED BY THE COMPANIES COVERING THE INSURED NAMED BELOW FOR THE TYPES OF OPERATIONS AND AT THE LOCATIONS DESCRIBED HEREIN. IT IS UNDERSTOOD AND AGREED THAT NONE OF THE POLICIES REFERENCED HEREIN WILL BE CANCELED, CHANGED, REDUCED IN COVERAGE, OR ALLOWED TO EXPIRE WITHOUT AT LEAST THIRTY (30) DAYS ADVANCE WRITTEN NOTICE BY CERTIFIED MAIL TO THE **DIRECTOR OF CIP** AT THE ADDRESS LISTED UNDER CERTIFICATE HOLDER BELOW.

Co	TYPE OF LIABILITY	POLICY NUMBER	EFFECTIVE DATE	EXPIRATION DATE	LIMITS OF LIABILITY IN THOUSANDS	
A	<input type="checkbox"/> GENERAL LIABILITY	AK221963	02/15/99	02/14/00	GENERAL AGGREGATE	\$1,000
	<input checked="" type="checkbox"/> COMM GEN LIABILITY				PRODUCTS-COMP/OP AGG	\$1,000
	<input type="checkbox"/> CLAIMS MADE				PERSONAL & ADV INJURY	\$
	<input checked="" type="checkbox"/>				EACH OCCURRENCE	\$500
	<input type="checkbox"/> CITY ADDITIONAL INSURED				FIRE DAMAGE(any one fire)	\$
	<input type="checkbox"/> AUTOMOBILE LIABILITY				MED EXP (any one person)	\$
	<input type="checkbox"/> ANY AUTO				COMBINED SINGLE LIMIT	\$
	<input type="checkbox"/> ALL OWNED AUTOS				BODILY INJURY (per person)	\$
	<input type="checkbox"/> SCHEDULED AUTOS				BODILY INJURY (per accident)	\$
	<input type="checkbox"/> HIRED AUTOS				PROPERTY DAMAGE	\$
	<input type="checkbox"/>					
	<input type="checkbox"/> NON-OWNED AUTOS					
	<input type="checkbox"/> CITY ADDITIONAL INSURED					
	<input type="checkbox"/> GARAGE LIABILITY				AUTO ONLY-EA ACCIDENT	\$
	<input type="checkbox"/> ANY AUTO				OTHER THAN AUTO ONLY:	\$
	<input type="checkbox"/> CITY ADDITIONAL INSURED				EACH ACCIDENT	\$
	<input type="checkbox"/>				AGGREGATE	\$
	<input type="checkbox"/> EXCESS LIABILITY				EACH OCCURRENCE	\$
	<input type="checkbox"/> UMBRELLA FORM				AGGREGATE	\$
B	<input type="checkbox"/> OTHER THAN UMBR	88277261	03/01/99	02/29/00		
	<input type="checkbox"/> CITY ADDITIONAL INSURED				STATUTORY LIMITS	
	<input type="checkbox"/> WORKERS' COMPENSATION EMPLOYER LIABILITY PROPRIETOR/PARTNERS/INCLUDED				EACH ACCIDENT	
	EXECUTIVE OFFICER ARE:				DISEASE - POLICY LIMIT	\$
	INCL EXCL				DISEASE -EACH EMPLOYEE	\$

CITY NAMED INSURED

OTHER

ENDORSEMENTS: (PLEASE CHECK MARK WHICH ENDORSEMENTS HAVE BEEN ATTACHED TO THESE POLICIES)

Premises/Operations Products/Compl. Operations CG-2503 "Amended Aggregate Limit of Insurance per Project" Independent Contractor
Blank Cont/Hold Harmless Owner/Contractor/Protective Explosion, Collapse & Underground Damage (XCU) OCCURRENCE POLICY

Extended Bodily Injury Broad Form PD Personal Injury, with employment exclusion deleted ADDITIONAL INSURED

CERTIFICATE HOLDER

CANCELLATION

THE CITY OF IRVING has been named an additional insured by an endorsement to the coverages, other than Workers' Compensation and Employers' Liability, listed herein with regard to the Insured's activities under this project and all premiums arising from the coverages herein shall be the responsibility of the Insured.

Should any of the above described policies be canceled before the expiration date thereof, the issuing company will mail at least thirty (30) days advance written notice to the certificate holder by certified mail.

CONTRACTUAL LIABILITY

SIGNATURE

Subject to policy terms, conditions and exclusions, specific Contractual Liability coverage is provided as follows:

- Only for liability assumed by the Insured under its Contract with the City of Irving for the operations described herein.
- All Contracts between the Insured and the City of Irving

Authorized Representative

Jill Weston

ACKNOWLEDGEMENT

On this 10 day of MARCH, 2000 personally appeared JILL WESTON, an authorized representative of SMITH, JONES & WHITE, INC. (name of producer) known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same for the purpose of proving that the Insured is covered by the policies of insurance indicated above. [SEAL]

Notary Public in and for the State of TEXAS My Commission Expires 10/01/00

City of Irving Contractor's
Certification of Workers'
Compensation

I, _____, an authorized
Representative _____, do certify
of _____
(Insurance company)

That the workers' compensation policy, of the insured
_____, on the "City of Irving Certificate of Insurance"
(Contractor's company)

Meets all current Texas state laws and requirements.

By: _____ Address: _____
(Signature) _____
Title: _____ Date: _____

On this _____ day of _____, 20____, before me personally appeared
_____, an authorized representative of
_____ Known to me to be the person whose name is subscribed to the foregoing
Instrument and who acknowledged to me that he/she executed the same for the purpose of certifying that the
Insured is covered by workers' compensation in accordance with current Texas state laws.

My commission expires:

Notary Public In and For the State of Texas

REQUIRED INSURANCE COVERAGE

The Contractor at his own expense shall purchase, maintain and keep in force during the life of this contract, adequate insurance that will protect the Contractor and any Additional Insured from claims which may arise out of or result from operations under this contract. The insurance required shall provide adequate protections from all claims, whether such operations be by the Contractor or by any Additional Insured or by any Subcontractor or by anyone directly or indirectly employed by any of them, or by anyone whose acts of any of them may be liable and from any special hazards, such as blasting, which may be encountered in the performance of this contract in the amounts as shown below in sub-paragraph (A). The Contractor shall provide the following:

- A. **INSURANCE AND AMOUNT:** The Contractor shall furnish and maintain during the life of the contract adequate Workers' Compensation and Commercial General Liability Insurance in such amounts as follows:

Workers' Compensation		as required by law
Commercial General Liability (CGL)	\$ 500,000	Each Accident
	\$ 1,000,000	Aggregate
	\$ 500,000	Products & Completed Operations Aggregate

The Commercial General Liability insurance policy shall include an endorsement CG 2503 "Amendment Aggregate Limit of Insurance per Project". The endorsement shall preserve the entire aggregate required in the Commercial General Liability insurance policy for the exclusive use in this contract. The Commercial General Liability insurance policy shall be on an "Occurrence" basis. The Contractor shall be required to have additional insurance for all work performed within railroad R.O.W. as required by the owner of such R.O.W. and said insurance shall be in addition to the insurance amount required in sub-paragraph (A).

- B. **ADDITIONAL INSURED:** The City of Irving shall be an additional insured on the Commercial General Liability Insurance Policy furnished by the Contractor.
- C. **WRITTEN NOTIFICATION:** Each insurance policy shall contain a provision requiring that thirty (30) days prior to expiration, cancellation, non-renewal or any material change in coverage, a notice thereof shall be given by certified mail to the Capital Improvement Program Department, City of Irving, 825 W. Irving Blvd., Irving, Texas 75060.
- D. **PREMIUMS AND ASSESSMENTS:** Companies issuing the insurance policies shall have no recourse against the City for payment of any premiums or assessments for any deductibility which are at the sole responsibility and risk of the Contractor.
- E. **CERTIFICATE OF INSURANCE:** The Contractor shall furnish the City with one (1) valid City of Irving Standard Certificate of Insurance Form.
- F. **PRIMARY COVERAGE:** The coverage provided herein shall be primary and noncontributory with any other insurance maintained by the City of Irving, Texas for its benefit, including self-insurance.

The Contractor shall not commence work on any Contract in the City of Irving until the Contractor has obtained all the insurance required under this paragraph and such insurance has been approved by the City.

GENERAL NOTES:

1. The developer's engineer shall furnish the City of Irving's CIP Department with a site plan showing the location of all applicable meters, detector checks and wastewater connections. All connections to City infrastructure needs approval from all appropriate departments.
2. Any required easements shall be furnished with connection permit and prior to setting of the meters and construction of the vaults.
3. All water meter relocations more than 10 feet, require a new tap and connection permit with adequate performance & maintenance bond.
4. The developer's engineer shall stake appropriate property lines and easement lines as shown on the plans or as directed by the City of Irving's engineer.
5. All concrete shall be Type I, Class "A", as specified in the Texas Department of Transportation Standard Specifications, latest edition.
6. The developer's engineer shall verify locations and sizes of existing water and wastewater lines with GIS and AS-built plans in CIP department, Please email: maps@cityofirving.org
7. The operation of any public water valves or field verification of existing water or sanitary lines shall be coordinated with assigned CIP inspector and the Water Utilities Division. Phone: (972) 721-2281.
8. All fittings shall be per AWWA C110 and AWWA C153, see the Approved Products List and Specification Section 15060. All fittings and hardware shall be American made.
[Approved Products List](#) [Irving Specifications](#)
9. All construction joints shall be water tight.
10. All reinforcing shall be continuous around all corners, minimum lap 24 inches.
11. All bypasses shall be the same size as the water main size, to any water meter vault inlet size
12. Meters sized 2" or less will be furnished and set by the City of Irving's Water Utilities, phone (972) 721-2288. All turbine and compound meters will come with an external strainer furnished with the meter, unless the meter is a compound meter designed with an internal strainer, a weighted swing check valve and is on the Approved Products list or approved by the City of Irving's City Engineer. **The contractor shall furnish all double check detector vaults assemblies.**
13. All materials used in the construction of the meter vaults shall be per City of Irving construction specifications.
14. Test plug sizes to be 2-3 inches on all meters.
15. Test plug outlets shall be located a minimum distance of 3 pipe diameters from the turbine meter discharge flange. A double strap service saddle with a 2" corporation stop shall be provided. The service saddle shall be as specified in the approved products list. In lieu of a service saddle, an approved spool piece incorporating a 2 inch threaded female outlet is acceptable. A test spool shall **not** be required for compound meters
16. Concrete will not bond to PVC pipe. Therefore, approved water stop shall be installed where the pipe passes through the vault walls.
17. Coupling adapters shall be as specified in the approved products
18. Meter vaults shall have rectangular slab type manhole frame and solid lids, with a 1 ¾" hole drilled out for the 100-W radio read antenna about 10-12inch from its hinges on door, such as BILCO J-3AL aluminum door.
19. The BILCO J-3AL aluminum door is only rated for a live load of 300 PSF. If the owner

believes that greater loads may accrue, an H-10 load-rated BILCO J-3AL aluminum door must be installed. If the H-10 load rated door is not installed and live loads exceeding the doors capacity warp or damage the door, the owner will be responsible for the cost of replacing the door with one that is H-10 load-rated.

20. Meter vaults shall have an **inside clear height** of 5.0 feet.
21. The contractor shall pressure test and sterilize newly installed water systems prior to acceptance.
22. Under no circumstances shall the vault be under existing or proposed streets, sidewalks, parking lot or driveways. Generally, the vaults will be constructed in an easement adjacent to the utility easement or ROW if no utility easement is present.
23. Any variances from the standards shown (extra depth or risers used in landscaping) that require structural modifications to the standards as shown shall require approval by the City of Irving's CIP Department. All final elevations shall be provided by the developer's engineer.
24. Check valves laying length differ according to the manufacture selected. The lengths appearing in the laying length chart are based on a Mueller standard.
25. In lieu of flanged coupling adapters the contractor may use a plain end (or as directed by the engineer) by flanged Class 51 cement lined ductile iron spool piece. (AWWA C151, ANSI A-21.51).
26. Grade 316 stainless nuts and bolts shall be required on all flanges situated within the vault to be constructed. All nuts and bolts used for fittings outside the confines of the vault structure shall be a ductile durabolt, ductile flangeloc durabolt, stainless, galvanized, zinc, and cadmium or approved equal. All fittings outside the vault structure shall be poly-wrapped.
27. Proper grading shall be provided around the vault to allow drainage away from the vault doors. Grading will not be permitted that allows flow over or pond on the vault's door.
28. Meter Set Requirements:
 1. Water meter shall line up properly in the meter box
 2. Meter box installed
 3. Valve shall be accessible:
 - a. Angle stop shall not be rubbing or too close to box
 - b. Angle stop shall not be located under box, concrete, side walk, curb, driveway, drive approach
 4. There shall not be any damage to Meter box & Water meter such as:
 - a. The register, meter, meter box, meter box lid or End Point (ERT) wire cut
 5. There shall not be any damage to:
 - a. Service loop, angle stop valve
 6. Water meter and/or meter box shall not be buried
 7. Water meter shall not be:
 - a. Under mud, dirt, grass, trash, water
 8. Service Line shall not be:
 - a. Leaking
 - b. Angle stop leaking
 - c. Service line leaking
 9. Service line loop/yoke shall not be:
 - a. Leaking
 - b. Bent
 - c. Pinched
 - d. Twisted
 - e. Laid over

You must meet these requirements in order for your meter to be set at the location(s) requested. **For any revisits, there may be a charge and will need to be paid.** To schedule a revisit, please call the City of Irving Contractor Line at 972-721-2288 or Utility Billing at 972-721-2411