APPENDIX B FIGURES

Figure	Drawing
B-1	Late Notice/Disconnect Policy
B-2	Detail of 1" Copper Service Installation
B-3	Detail of 1-1/2" or 2" Service Installation
B-4	Excavation Detail for Tapping Sleeve
B-5	1st Floor Setting with Crawl Space Below
B-6	Building with Standard Basement
B-7	Adjusting Stop Box to New Grade (Arch pattern Box)
B-8	Typical Comm. Fire Service Line with Domestic Tee in Line
B-9	Detail of the Standard Meter Pit – 5/8". 3/4" & 1" Meters
B-10	Detail of the Standard Meter Pit - 1-1/2" & 2" Meters
B-11	Fire Hydrant Detail
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B-13	Standard Plan for Meter & Bypass Installation
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B-16	Tap Cut at Main Procedures 3/4" to 2" Direct Taps Only
B-17	Private Main Abandonment Details
B-18	Tracer Wire Detail
B-19	Concrete Thrust Block Standard
B-20	Irrigation Meters and System Requirements
B-21	Residential Non-Circulating Fire Service Meters and System Requirements
B-22	Hydrant Meter Rental Agreement
B-23	Private Fire Hydrant Maintenance Agreement

Urbandale Water Utility Late Notice/Disconnect Policy Updated July 1, 2018

Bills are due when issued and are considered late after 20 days.

Reminder Notice issued 21st day or first working day after the due date. A late fee of \$1.50 will be applied to the customer's account when the notice is generated. If account balance is less than \$5.00 the late fee will not be applied and notice will not be sent.

Final Notice issued 32nd Day or first working day after the due date.

Hand Delivered Shut Off Notice delivered 42nd day* If the past due balance is less than \$10.00 disconnection will not be pursued.

Water Disconnected 44th day*

*Hand delivered notices and the actual disconnect date will be coordinated so that water is not disconnected on a Friday or the day prior to an observed holiday by the Utility. The Hand Delivered Shut Off Notice will not be delivered prior to the 42nd day and water will not be disconnected prior to the 44th day.

Customers who contact the Utility to make a payment arrangement prior to the <u>Hand Delivered Shut Off Notice</u> may be given an extension. If payment is not received by the date of the arrangement, a Hand Delivered Shut Off Notice will be delivered the following work day.

Customers who contact the Utility to make a payment arrangement prior to <u>Water Disconnect</u> may be given an extension. If the payment is not received by the date of the arrangement, water will be disconnected the following work day.

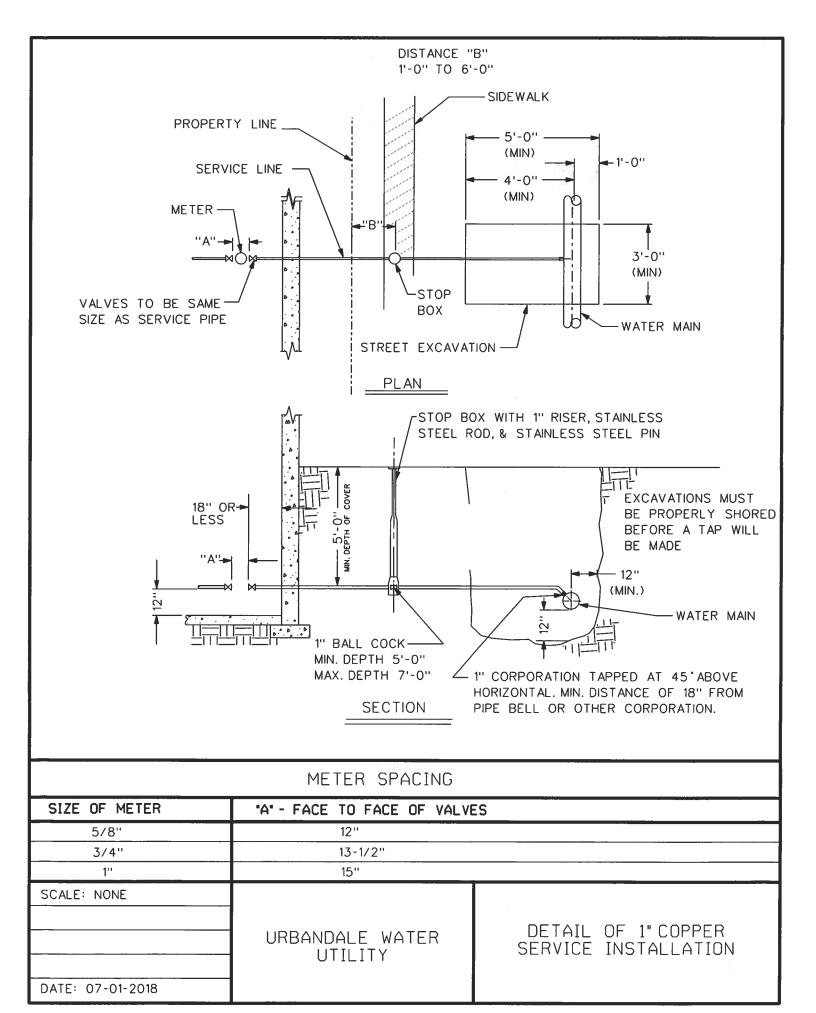
There will be a \$10.00 delivery fee applied to the customer's account with delivery of the Hand Delivered Shut Off Notice.

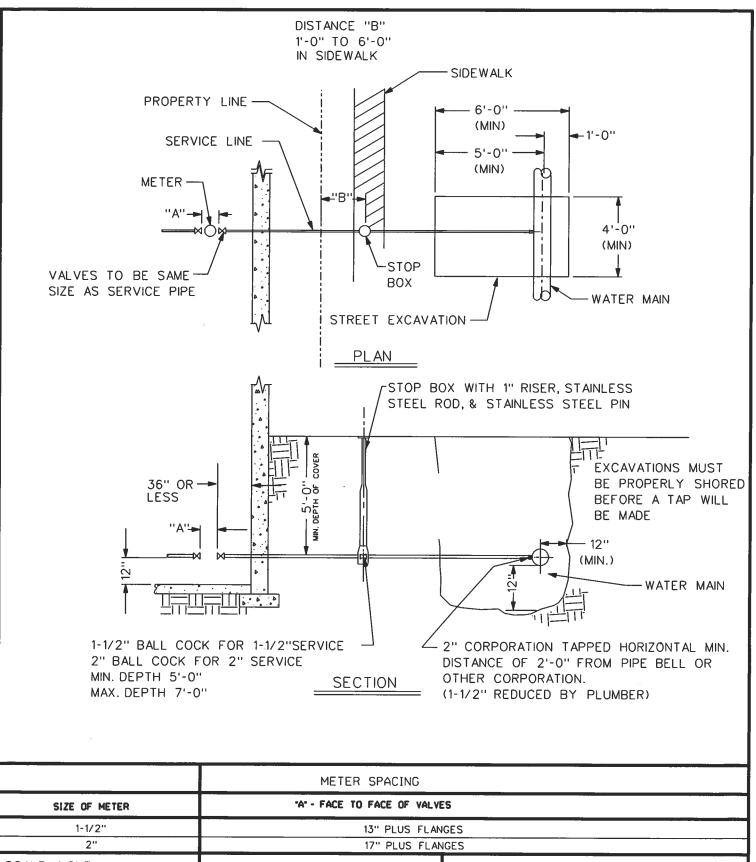
When water has been disconnected for non-payment the following schedule will be used to determine the turn on fee to reinstate service.

Water Turn on during business hours \$40.00 (Monday thru Friday 8:00 a.m. – 4:30 p.m.)

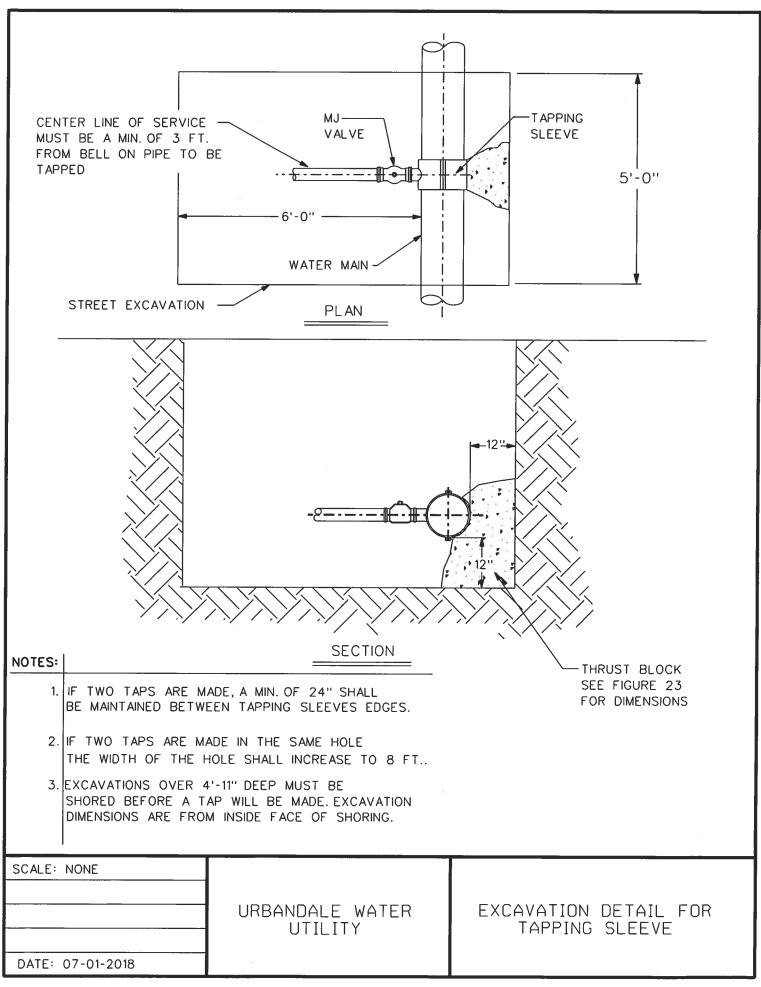
Water Turn on after business hours \$100.00 (Monday thru Friday after 4:30, and on weekends and holidays)
Normal after hours extend to 10:00pm

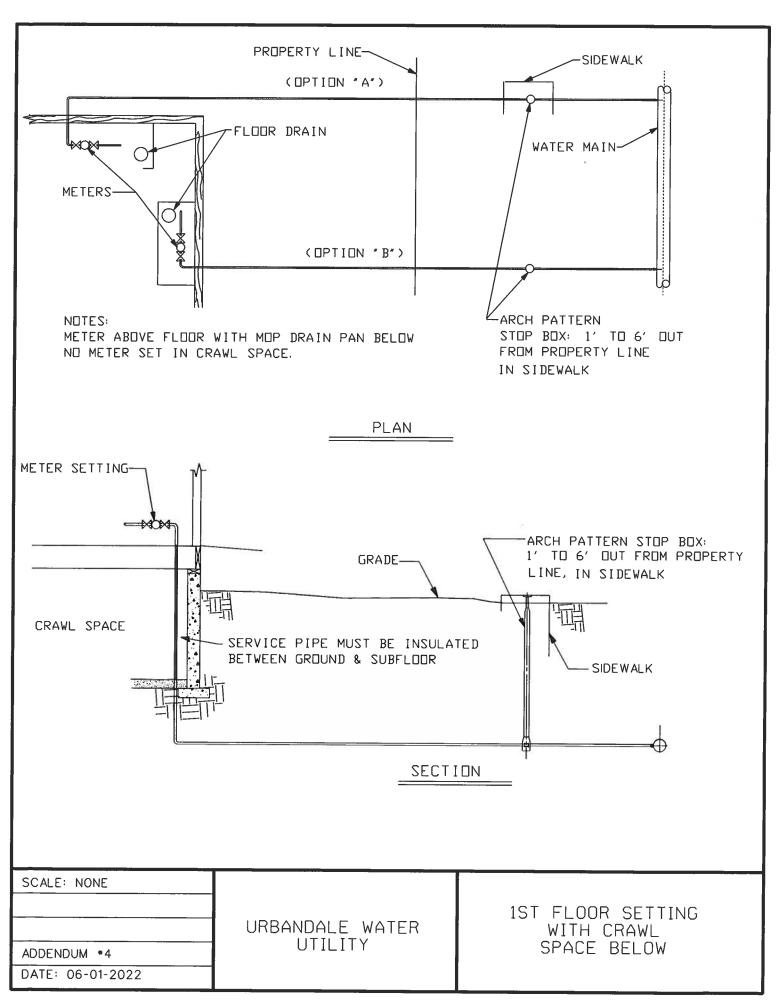
Payment of the turn on fee may be required at the time of turn on or applied to the customer's account. A customer may be given an allowance on the late fee, tag fee and turn on fee one time during a twelve month period.

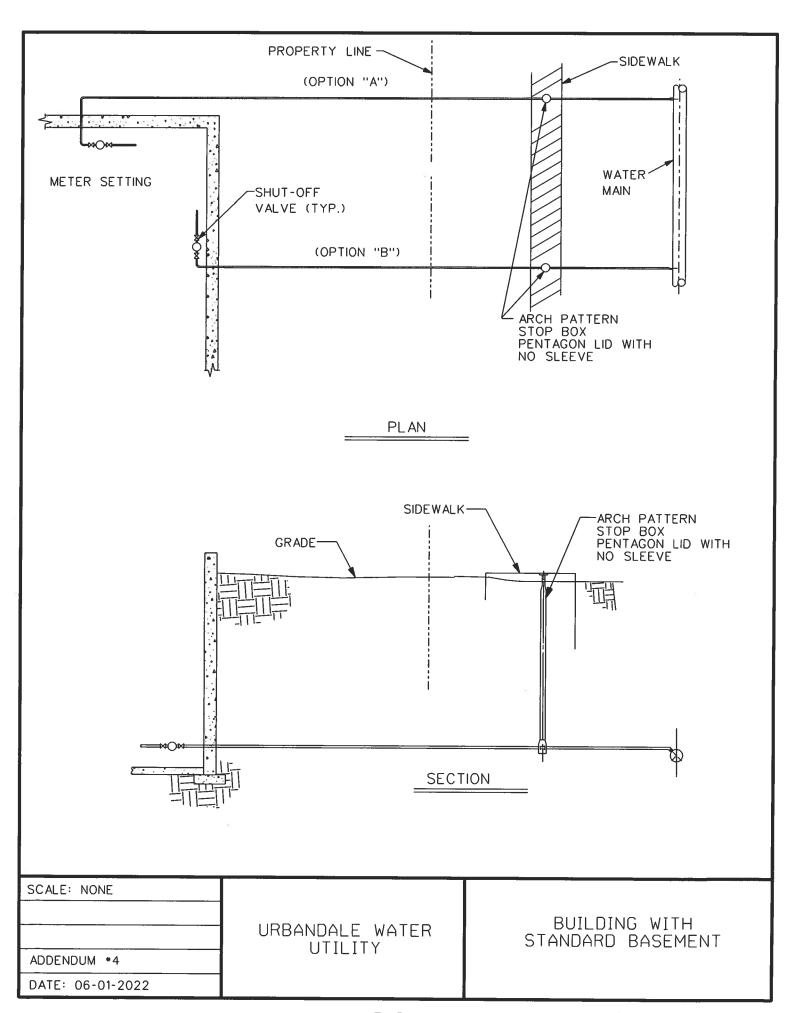


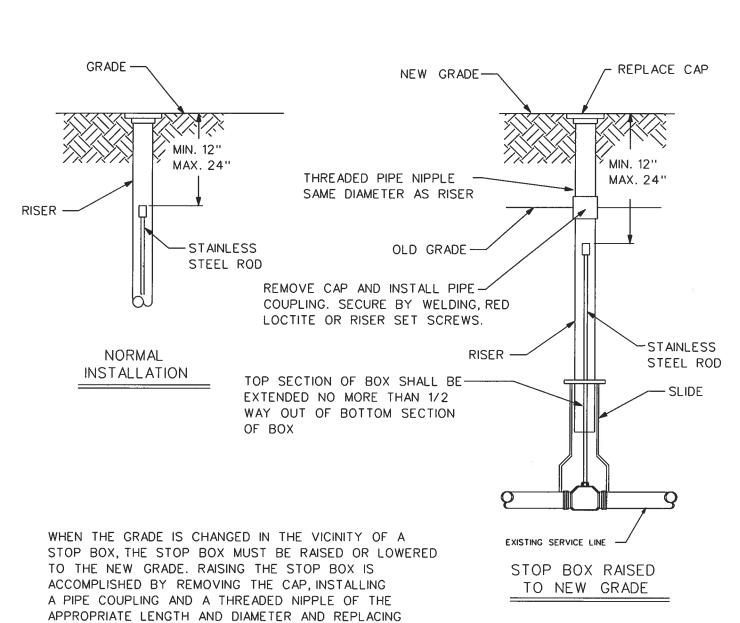


	METER SPACING	
SIZE OF METER	"A" - FACE TO FACE OF VALVE	ES
1-1/2" 13" PLUS FLANGES 2" 17" PLUS FLANGES		
SCALE: NONE	URBANDALE WATER	DETAIL OF 1-1/2" OR 2"
ADDENDUM *4 DATE: 06-01-2022	UTILITY	SERVICE INSTALLATION





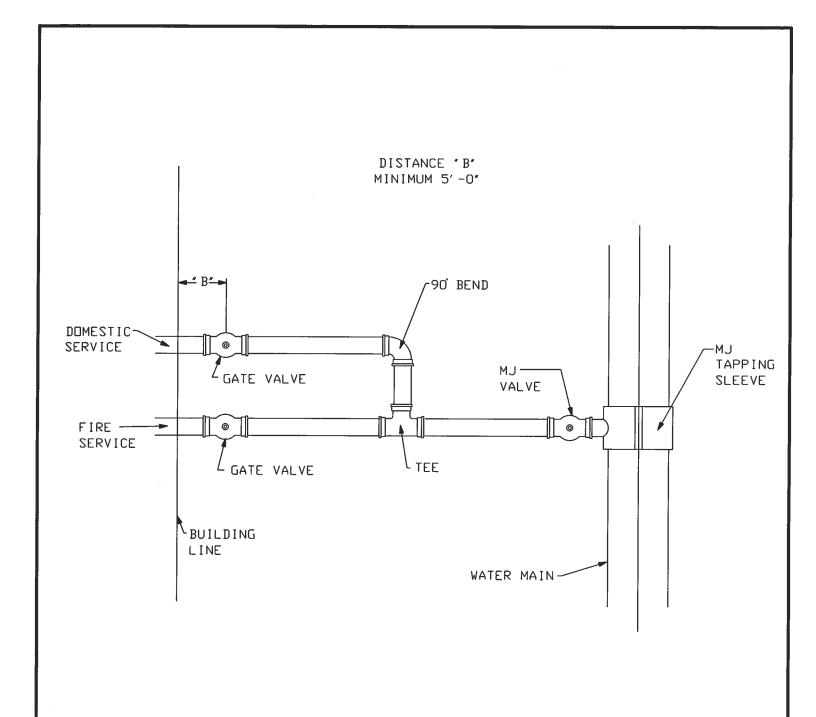




THE CAP. THE RISER MUST BE INTEGRAL AND CONTINUOUS. TO LOWER THE STOP BOX, IT WILL BE NECESSARY TO CUT AND RETHREAD THE RISER PIPE AT THE NEW GRADE AND REPLACE THE CAP. THE ROD MUST BE LOWERED IN PROPER PROPORTION TO RISER PIPE.

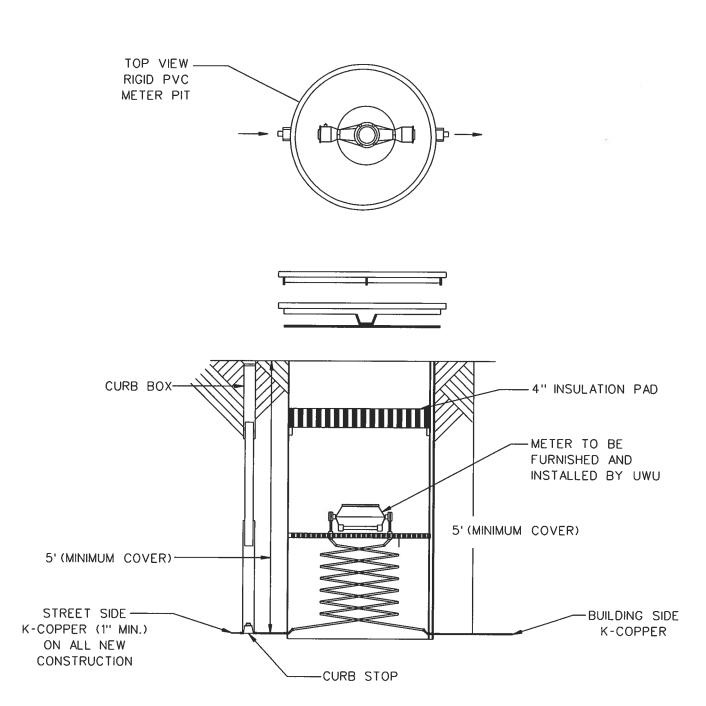
ALL STOP BOX EXTENSIONS SHALL BE SECURED IN SUCH A WAY SO THAT IT BECOMES ONE PERMANENT PIPE, SUCH AS WELDING, RED LOCTITE OR SET SCREWS.

SCALE: NONE		
	URBANDALE WATER UTILITY	ADJUSTING STOP BOX TO NEW GRADE (ARCH PATTERN BOX)
DATE: 07-01-2018	7	



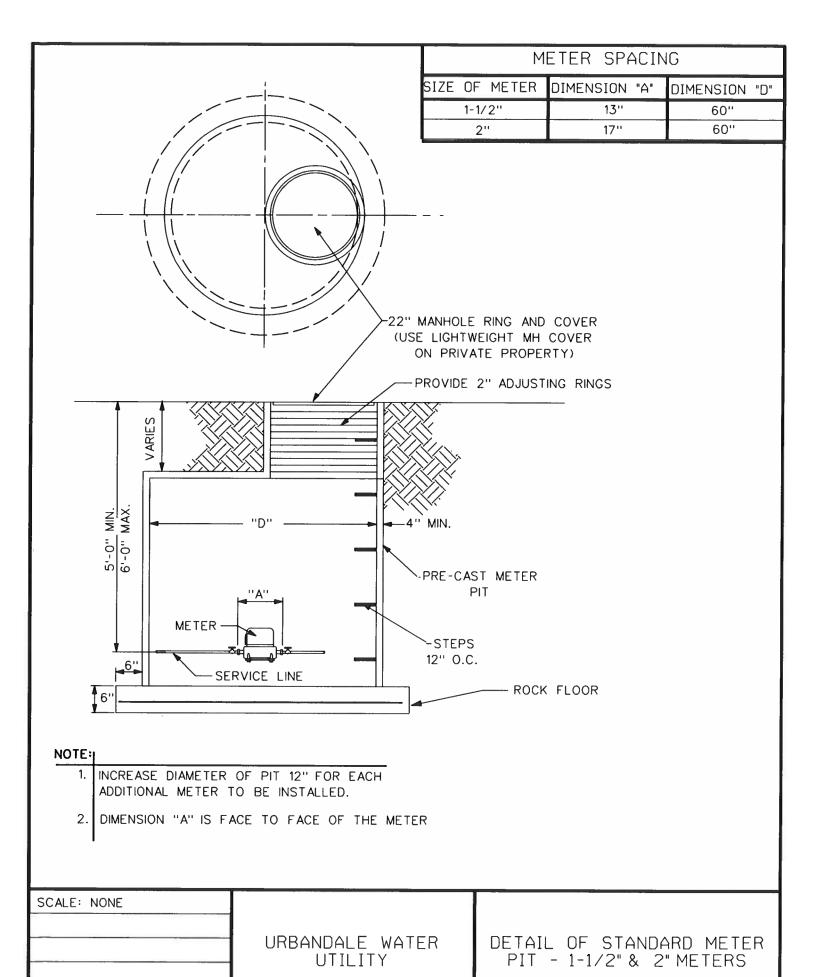
NOTE: DO NOT LOCATE VALVES IN AREAS WHERE CARS CAN BE PARKED.

SCALE: NONE		
	URBANDALE WATER UTILITY	TYPICAL COMMERCIAL FIRE SERVICE LINE WITH DOMESTIC TEE IN LINE
DATE: 07-01-2018		

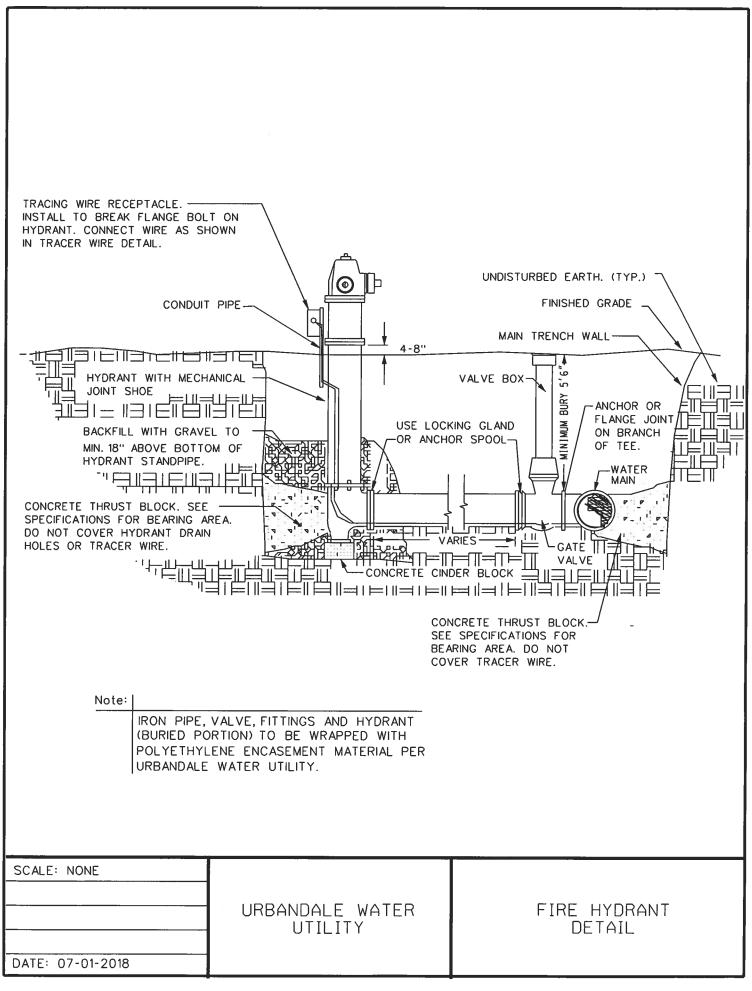


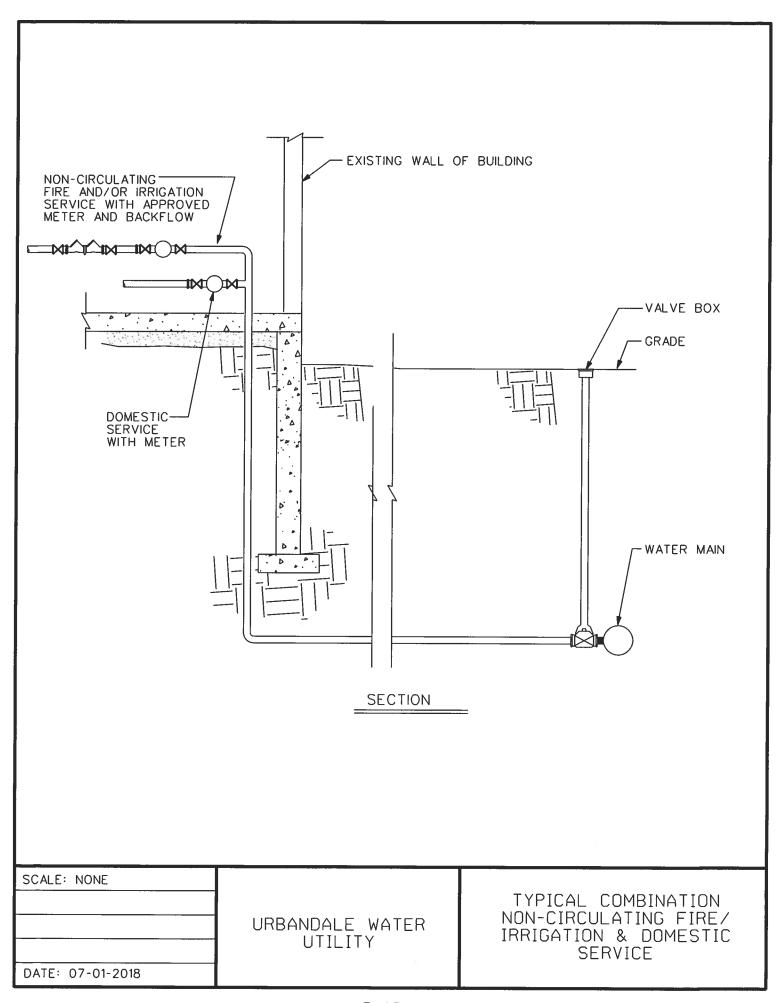
NOTE: METER BOX LOCATED AT PROPERTY LINE ON PRIVATE PROPERTY

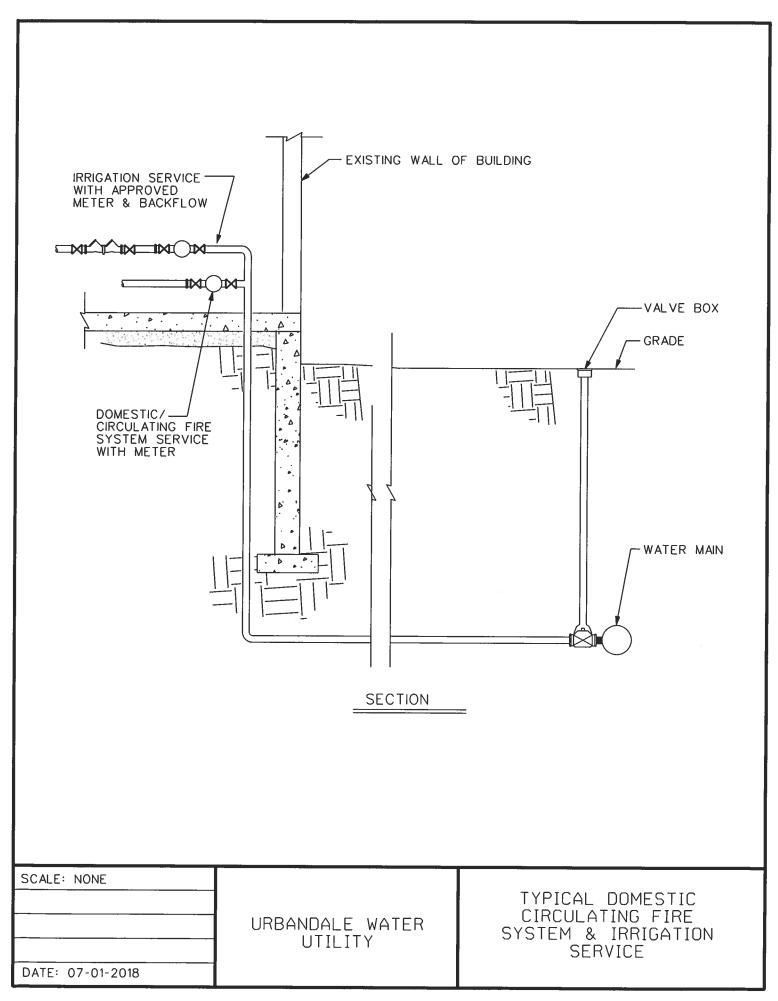
SCALE: NONE		
DATE: 07-01-2018	URBANDALE WATER UTILITY	DETAIL OF THE STANDARD METER PIT 5/8",3/4" & 1" METERS (FOR OFF ROAD USE ONLY)

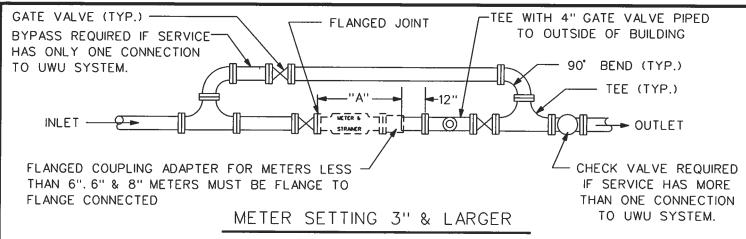


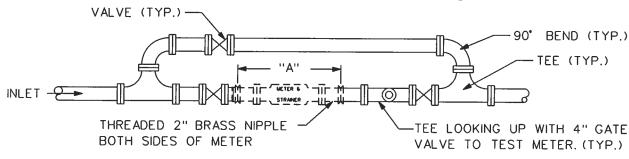
DATE: 07-01-2018











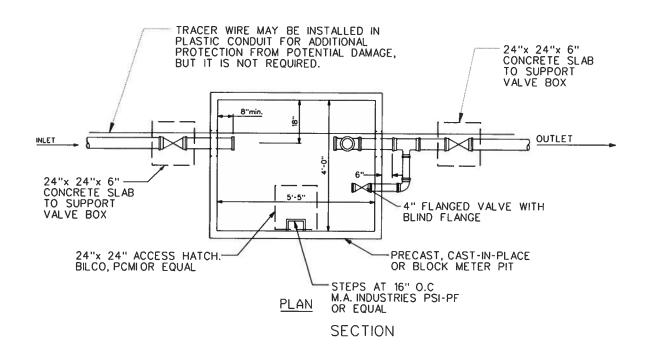
2" METER SETTING

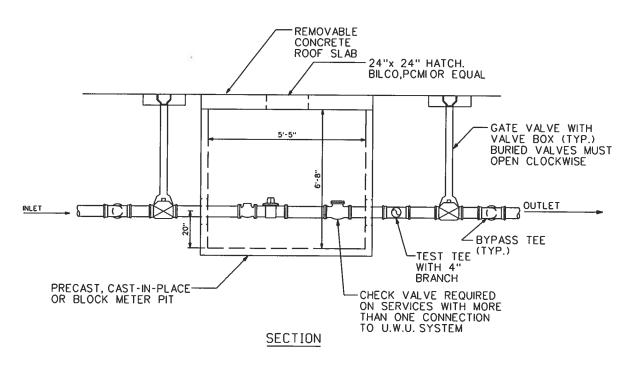
			· ·	DIMEN	SION "A"	,		
SIZE OF	TURBINE METER		TRU FLOW COMPOUND METER		FIRE TURBINE		PROTECTUS	
METER	FLANGE COUPLING ADAPTOR	FLANGE TO FLANGE	FLANGE COUPLING ADAPTOR	FLANGE TO FLANGE	FLANGE COUPLING ADAPTOR	FLANGE TO FLANGE	FLANGE COUPLING ADAPTOR	FLANGE TO FLANGE
2"	29"	N/A	36"	N/A	N/A	N/A	N/A	N/A
3"	19"	18-3/8"	24"	23-3/8"	26-3/4"	26-3/8"	N/A	N/A
4"	22"	21-7/8"	28-1/2"	27-7/8"	35-3/8"	35-1/4"	33-1/2"	33-1/4"
6"	28"	27-7/8"	34"	33-7/8"	45-1/2"	45-1/8"	45-1/2"	45-1/4"
8"	31"	30-3/8"	N/A	N/A	51-15/16"	51-9/16"	53-1/2"	53-1/4"

NOTES:

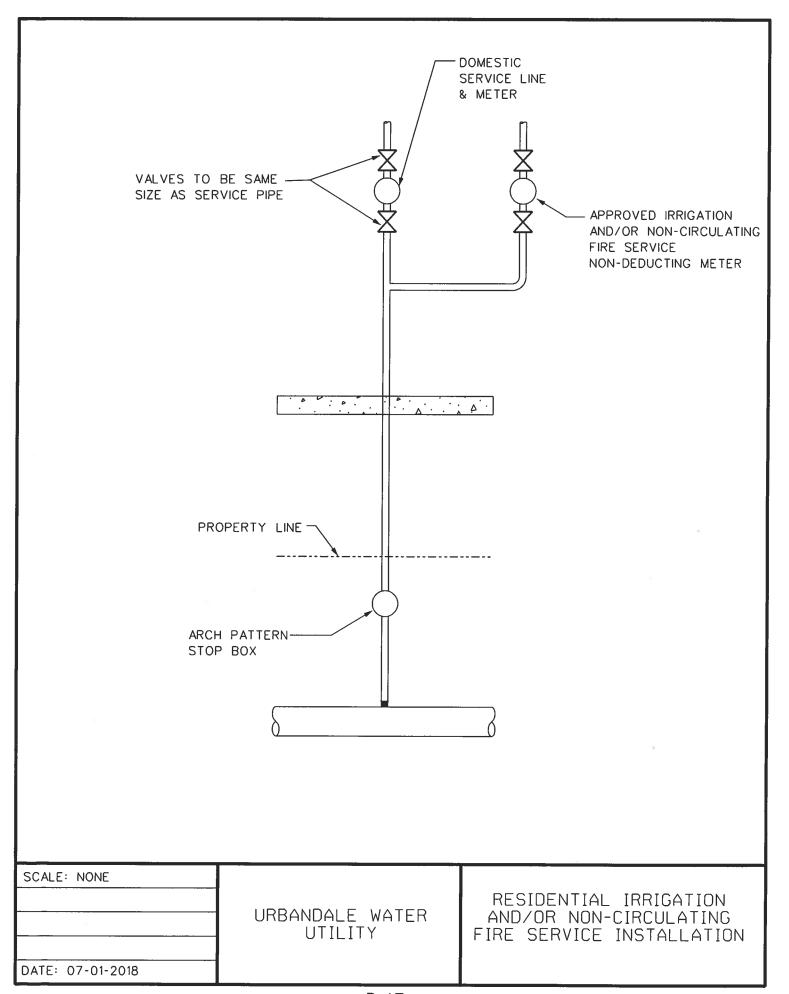
- 1. INSTALL 1/2" CONDUIT FROM METER TO AN ACCEPTABLE LOCATION FOR MOUNTING METER READING EQUIPMENT.
- 2. PIPE MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF URBANDALE PLUMBING CODE.
- 3. IF THE METER SETTING IS INSIDE A BLDG. 4" PIPE MUST BE INSTALLED FROM THE TEST TEE VALVE TO AN APPROVED LOCATION ON THE OUTSIDE WALL OF THE BUILDING.
- 4. THRUST RESTRAINTS MUST BE PROVIDED AT FLEXIBLE COUPLINGS AND FLANGED COUPLING ADAPTERS WHEN NECESSARY TO PREVENT LEAKAGE AND OVERSTRESSING OF THE PIPE.
- 5. METER SHALL BE NO MORE THAN 3'OFF THE FLOOR. PROVIDE PIPE SUPPORTS AT TEES OR AS REQUIRED IN METER PITS.
- 6. MINIMUM HORIZONTAL CLEARANCE FROM CENTER LINE OF METER TO WALL OR OTHER OBSTRUCTION SHALL BE 30" UNLESS OTHERWISE APPROVED BY URBANDALE WATER UTILITY.

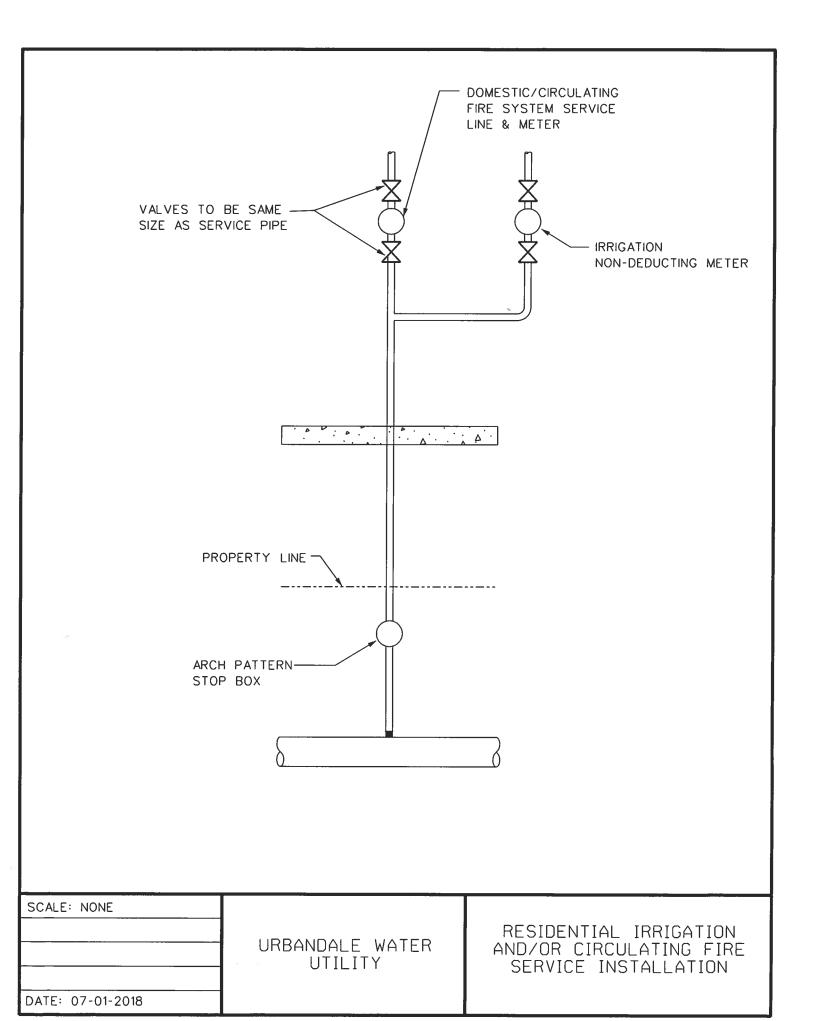
SCALE: NONE		
	URBANDALE WATER UTILITY	STANDARD PLAN FOR METER & BYPASS INSTALLATION
DATE: 07-01-2018		

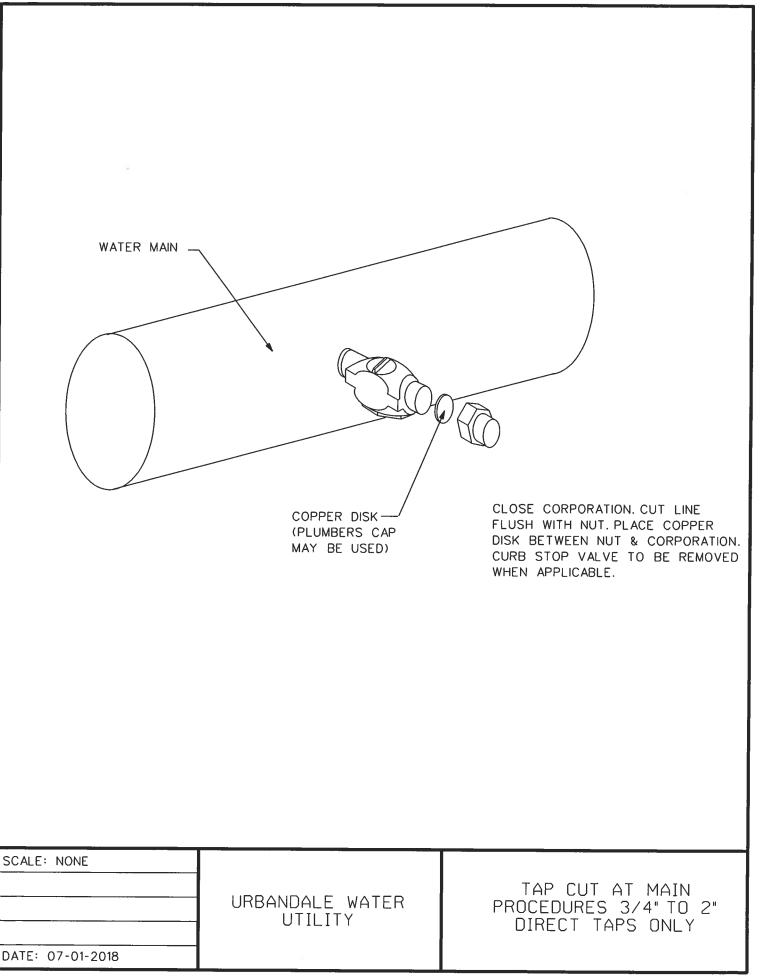


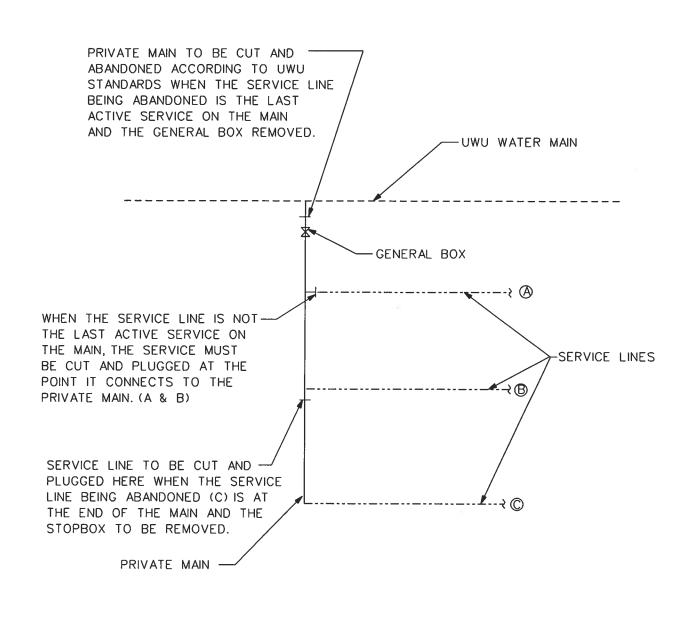


SCALE: NONE		
	URBANDALE WATER UTILITY	TURBINE OR COMPOUND METER PIT DETAIL WITH TRACER WIRE
DATE: 07-01-2018		

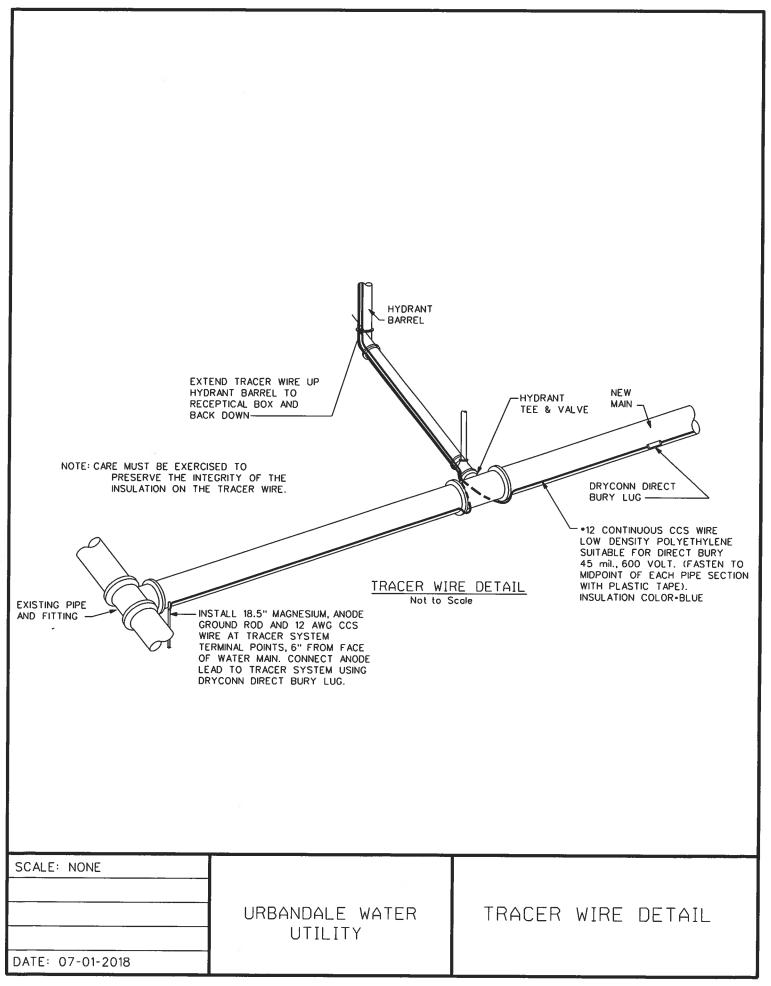


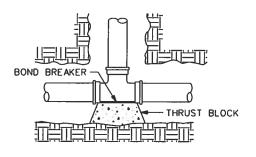


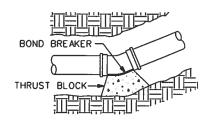




SCALE: NONE		
	URBANDALE WATER UTILITY	PRIVATE MAIN ABANDONMENT DETAILS
DATE: 07-01-2018		



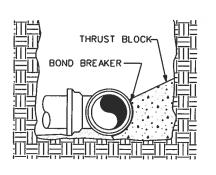


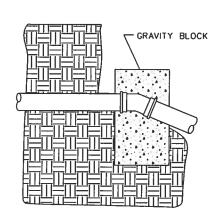


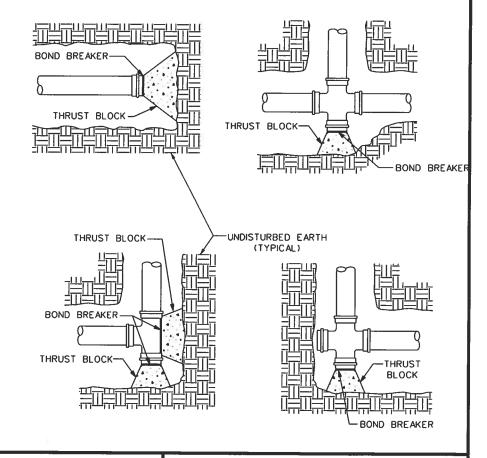
MINIMUM BEARING SURFACE (IN SO. FT.)						
SIZE		BENDS				
PĬPE	11-1/4*	22-1/2°	45°	90°	DEAD END	
6"	1.00	1.25	2.25	4.50	3.00	
8"	1.00	2.00	4.00	7.90	5.25	
12"	2.00	4.25	8.25	18.00	11.00	
16"	8.00	15.25	28.00	48.00	35.00	
20"	8.50	16.50	32.00	57.00	40.00	
24"	9.00	18.00	35.00	65.00	45.00	

Note:

Restrained joints may be used in lieu of blocking with prior approval from Urbandale Water Utility.







SCALE: NONE

URBANDALE WATER
UTILITY

CONCRETE THRUST BLOCK STANDARD

DATE: 07-01-2018

IRRIGATION METERS AND SYSTEM REQUIREMENTS

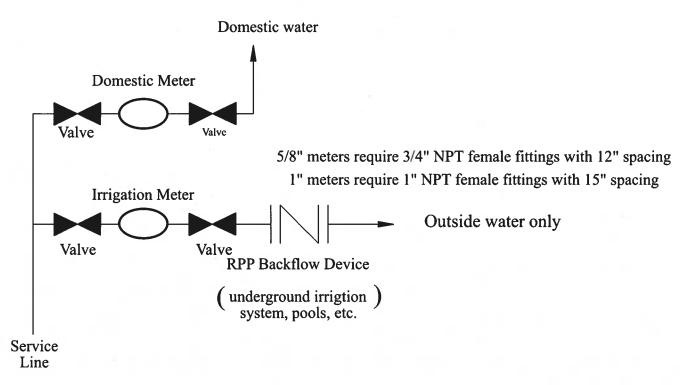
Date: 05-01-2023 Addendum #5

- 1. Fill out sewer exemption form and pay sewer exemption fee of \$15.00.
- 2. All meters must be purchased from the Urbandale Water Utility.

All fees to Urbandale Water Utility must be paid before the meter is installed.

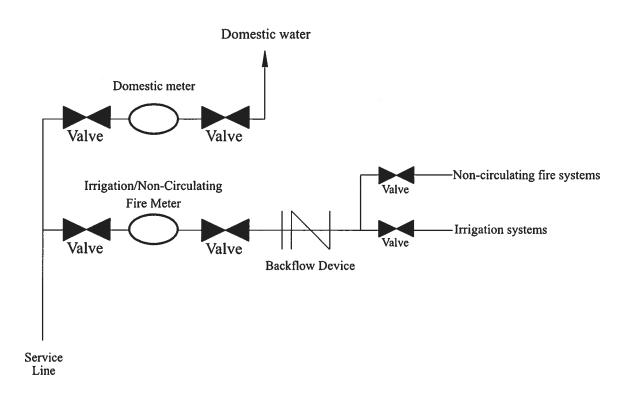
Meter and Inspection Charges:

- 3. Customer will be responsible for all plumbing changes.
- 4. The irrigation meter must be installed 4 feet or less from the house meter with a valve on each side of the meter.
- 5. The irrigation meter must be teed from the service line ensuring both systems run independently of each other.
- 6. All underground irrigation systems shall have an approved R.P.P. (Reduced Pressure Principal) backflow assembly (Comparable to Watts 009 or a Febco 825Y. The RPP must be installed inside the building directly after the irrigation meter or immedicately outside the building where the plumbing exits.
- 7. An initial test of the RPP must be performed by a certified tester and the results recorded with www.BSIonlinetracking.com before the system can be activated.
- 8. All RPP's are to be testred annually by a certified tester and the results recorded with www.BSIonlinetracking.com.



Residential Non-Circulating Fire Service Meters and System Requirements Date: 07-1-2018

- 1. All meters must be purchased from the Urbandale Water Utility (UWU).
- 2. All fees shall be paid before the meter is set.
- 3. The service line shall be sized according to the combined total of the domestic, irrigation and fire system demands.
- 4. Provide the total of the irrigation and fire system demand to the UWU.
- 5. Irrigation/non-circulating fire meters shall be installed not more than 4 feet from the domestic meter. There shall be a valve on each side of the meter.
- 6. The irrigation/fire demand shall be combined to utilize one meter. The irrigation/non-circulating fire meter shall be teed off the service line so that the domestic and irrigation/fire systems are independently metered.
- 7. All fire systems shall have an approved backflow device as described in Chapter 106. The backflow device shall be installed inside the house directly after the fire meter.
- 8. An initial test of the backflow device must be performed by a certified tester before the system is activated. The test results shall be recorded online at www.BSIonlinetracking.com.
- 9. For more information on the requirements for cross connection and backflow prevention, refer to Chapter 106 of this manual.



URBANDALE WATER UTILITY HYDRANT METER RENTAL AGREEMENT

Date: 06-01-2022

A .d .d

Address					
Meter Number	r	Return Date _			
Final Read _		Set Date	Set Date		
Beginning Rea	ad	Total Days	· · · · · · · · · · · · · · · · · · ·		
Consumption					
Comments _					
☐ Hydran	t Wrench (\$50 Rept t Stand (\$50 Repla Fire Hose Coupling at Meter Deposit So	ce Cost) g (\$50 Replacement Cost)			
5/8" M	eter - \$300.00	1" Meter - \$600.00	3" Meter - \$2500.00		
•	nt Meter Rental Fe ule is based on a m	e Schedule: nonthly fee. Minimum 30-da	y fee.)		
5/8" M	eter - \$50.00	1" Meter - \$70.00	3" Meter - \$150.00		
3. Bulk W	Vater Rate will app	ly. See Fee Schedule.			
4. Terms	and conditions of I	Hydrant Meter rentals:			
A.			proper use, location, size and othe		

- r pertinent issues regarding the hydrant meter rental.
- B. A deposit for the amount stipulated in the above "Hydrant Meter Deposit Schedule" must be made prior to the setting of the meter. The deposit amount required is directly related to the size of the hydrant meter requested.
- C. The amount charged to the undersigned for the hydrant meter rental is dependent upon the following factors.
 - 1. The number of days the undersigned has possession of the meter
 - 2. The water usage figured at bulk water rates.
 - 3. Damage, if any, to the hydrant meter assembly or fire hydrant.
- D. The undersigned assumes all responsibility for theft or damage to the fire hydrant and hydrant meter assembly.

- E. It is the responsibility of the undersigned to notify the Urbandale Water Utility when he/she is finished with the hydrant meter so it can be removed and returned to the Urbandale Water Utility.
- F. It is the responsibility of the undersigned to protect the hydrant and hydrant meter assembly from freezing. In the event freezing does occur, the undersigned assumes all monetary responsibility for damages.
- G. Water from a fire hydrant is <u>not</u> intended for human consumption. The Urbandale Water utility cannot guarantee the quality of water from a fire hydrant or a hydrant meter assembly.
- H. Each hydrant meter is equipped with a gate valve; which shall be operated by the undersigned to control the flow of water. The fire hydrant shall be opened completely when in use and never be used to control the flow of water.
- I. Do not modify or disassemble the hydrant meter assembly in any way. The Urbandale Water utility shall be notified immediately of any failed meter assembly.
- J. The Urbandale Water Utility may revoke any hydrant meter privileges granted to any individual or corporation because of violations of the terms and conditions of this agreement.
- K. The Urbandale Water Utility may make allowances or amendments in the terms or conditions of the hydrant meter rental agreement to provide flexibility to handle unique situations.
- L. All rentals, consumptions and damages shall be deducted from the deposit before the remaining deposit balance is returned to the undersigned. In cases where the deposit is insufficient to cover all the fees due, the undersigned will receive an additional billing payable to the Urbandale Water utility.

5.	I, the undersigned, have completely read, understand and accept the previously stated
	terms and conditions of the Hydrant Meter Agreement.

Signed	Date	
Please print the following:		
Company Name		
Billing Address		
Company Contact Name		
Telephone #		

URBANDALE WATER UTILITY PRIVATE FIRE HYDRANT MAINTENANCE AGREEMENT

Date: 07-01-2018

The undersigned agrees to hire the Urbandale Water Utility to perform maintenance on their privately owned hydrants. Maintenance will include painting, operating, checking drainage, lubricating, replacing cap gaskets as necessary and recording pressure readings. Any additional parts or repairs will be at the owner's expense.

The owner or an in-charge representative of the owner shall be present or available during the maintenance process. If a hydrant is found to be inoperable or requiring major repair, the Utility will provide an estimate of repairs for approval.

The Urbandale Water Utility shall not be held responsible for a hydrant or valve that at any time does not perform properly. The owner also realizes there is a possibility for damage to occur to the hydrant or valve during operation and will hold harmless the Urbandale Water Utility and its employees for any damages that may occur.

The said	, hereby agrees to indemnify and hold harmless the	
	eir agents, representatives and emp	
damages, losses and expens	ses.	
Maintenance Fee: \$110	0.00/hr. (1 hour minimum)	
Contact Person:		
Signature	Print Name	Date of Authorization
Dignature	1 Init Name	Date of Authorization
Company Name:		
Company Address:		
Contact Phone Number:		
E-mail Address:		