



# IRRIGATION METER

1906 MAIN ST PO BOX 333 GRANGER, IA 50109 | PH 515-999-2210 | grangercityhall@mchsi.com

Property Address: \_\_\_\_\_ Date: \_\_\_\_\_

Occupant Name: \_\_\_\_\_ Account # \_\_\_\_\_

Phone Number: \_\_\_\_\_ Email: \_\_\_\_\_

\*Building/Home Owner Name: \_\_\_\_\_ Phone: \_\_\_\_\_

Address: \_\_\_\_\_ City/State/ Zip: \_\_\_\_\_

Email: \_\_\_\_\_

Commercial     Residential    Inground Irrigation System    Yes \_\_\_ No \_\_\_

\*If different than Occupant

91.09 IRRIGATION METERS. Customers may, pursuant to the rules and regulations of this chapter, install separate water irrigation meters and remote reading devices for the purpose of measuring water used for irrigation, swimming pools, yard and garden watering, and other uses where the water so used does not enter the sanitary sewer system, and no sewer service charge shall be made for water so used.

1. Application for Irrigation Meter. An application must be filed with the City Clerk by any customer desiring to install an irrigation meter. Upon the filing of the application and the payment in advance of the following applicable fee for meter and inspection charges: Current Meter Cost Plus \$25 application fee.
2. Installation of Irrigation Meter. The customer is responsible for all installation and plumbing costs. The irrigation meter shall be installed parallel with the prime meter (Non Deduct), with a valve on each side of the meter. All irrigation meters shall be installed horizontal to the floor or ground with the arrow on the meter in the same direction as the flow of water. Deduct type meters are not permitted. The actual piping may vary provided that all the water is only metered once. Any piping and fitting that is installed by the customer on City owned right-of-way will be at the customer's risk for damage resulting from any utility digging or other work undertaken in the right-of-way, and in no event shall such piping and fitting extend more than one foot outside the curb side of the sidewalk (or standard sidewalk location).
3. Backflow Prevention. All irrigation meters for inground irrigation systems are required to incorporate a backflow prevention device which meets the current standards of the Building Code (Chapter 155 of the Code of Ordinances). Before the irrigation meter and the inground system may be activated, a certified tester must certify to the City in writing that the backflow prevention device is in working order and meets all applicable regulations for backflow prevention devices. The written test results shall be filed with the City Clerk, who will provide the test results to the Director. This code section for backflow prevention devices, and their inspection and certifications, does not apply to above ground irrigation systems.

4. Inspection. The customer is required to notify the City Clerk when the irrigation meter, backflow prevention device , and system have been installed, so that the City may inspect the installation. The exemption from the sewer service charge shall not be effective until the City has inspected the installation and determined that all requirements of the City have been met.

5. Annual Certification. On or before April 1 of each year after a customer has installed an irrigation meter for an inground irrigation system, the Director will notify the customer in writing of the City's requirement that the irrigation meter and a backflow prevention device be tested and certified to be in working order and compliant with all applicable regulations by a certified tester within sixty (60) days of the Director's notice. The customer shall, at the customer's expense, arrange for the testing and provide a copy of written test and certification results to the City Clerk. In the event the customer does not provide the test and certification results by July 1 of each year, the City will disconnect water service to the customer's premises. The City will not restore service until the written test and certification results have been filed with the City and the Customer has paid a \$50 reconnect fee to the City.

-The undersigned hereby makes application with the City of Granger, Iowa for an irrigation meter. The undersigned agrees to pay for the utility services supplied. The utility billing date is the twentieth (20th) of every month.

- The undersigned agrees to notify the City, in writing or in person, of the termination of service. The notice will include a forwarding address to send the final bill to. Upon notification, the said City will have the services discontinued within one week of the date of notice.

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

Owner/Applicant

---

*For Office Use Only*

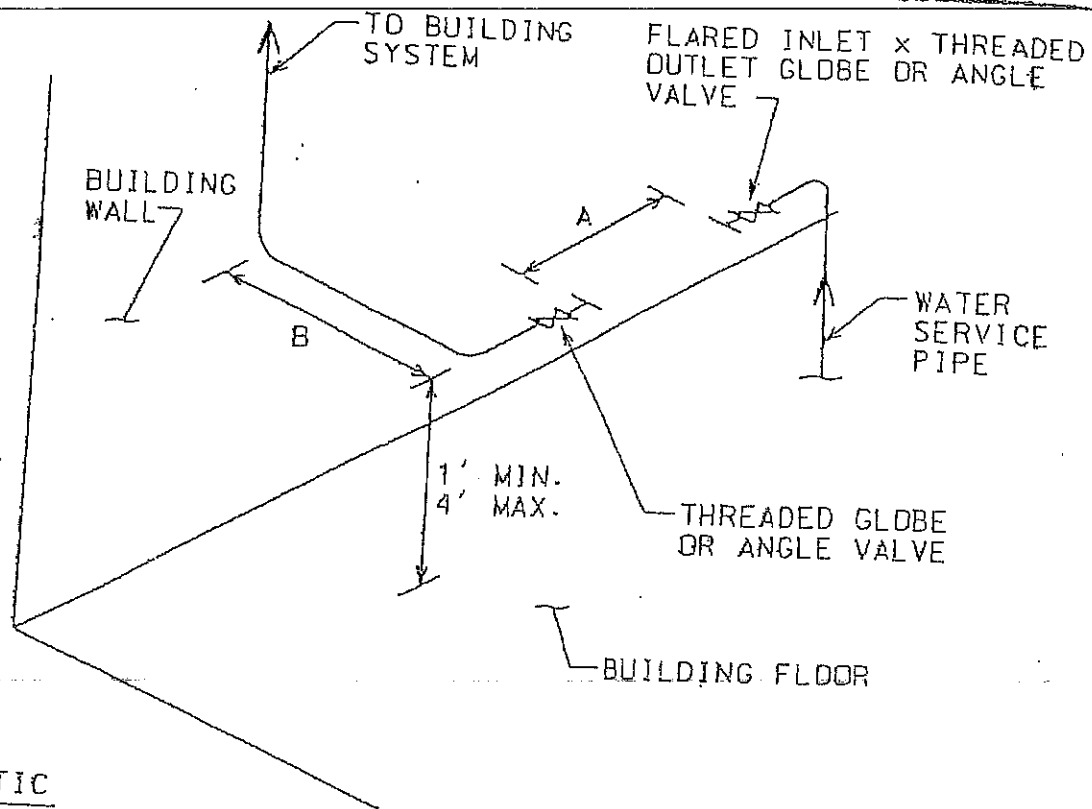
Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Meter size: \_\_\_\_\_ Meter Installation Date: \_\_\_\_\_

Serial Number: \_\_\_\_\_ ERT: \_\_\_\_\_

Backflow Preventor: Yes \_\_\_\_\_ No \_\_\_\_\_

Backflow Certification Date: \_\_\_\_\_



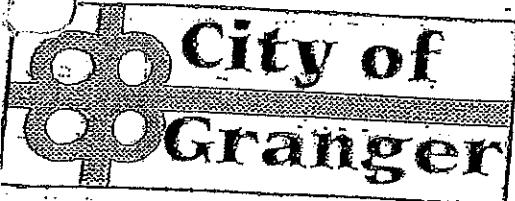
**PIPING SCHEMATIC**

5/8" x 3/4" AND 1" WATER METERS

WATER METER SIZE	A FACE TO FACE OF VALVES OR REDUCERS	B CENTERLINE TO WALL
5/8" x 3/4"	11-3/4"	6"
1"	1'-3 3/4"	9"

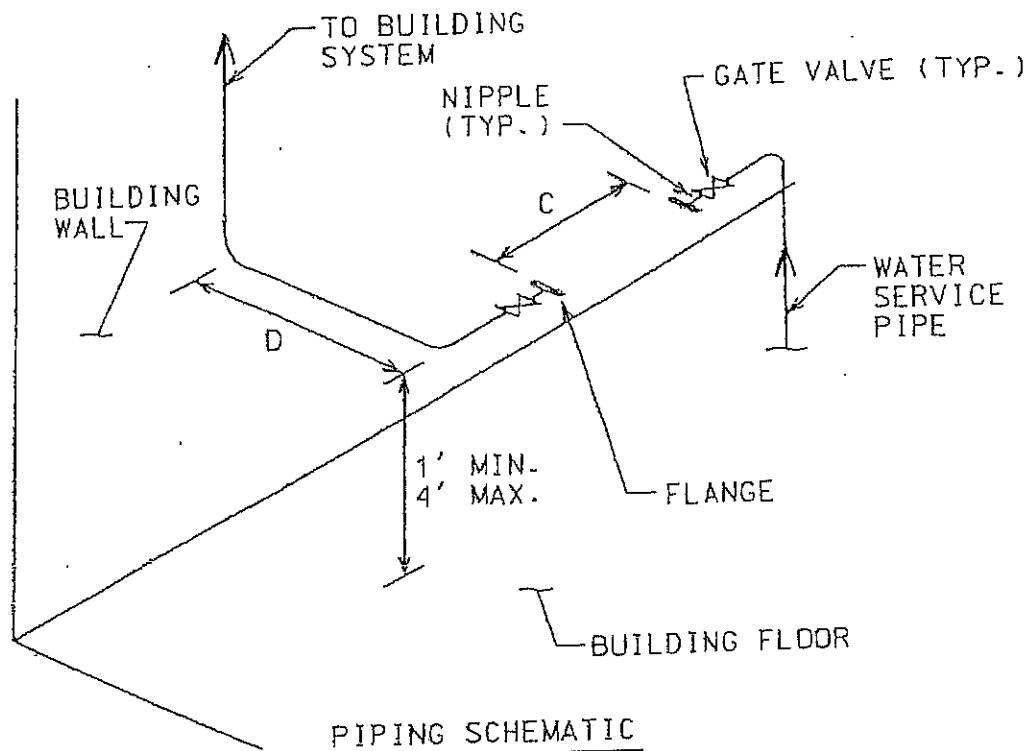
**NOTES:**

1. INSTALL REDUCERS, IF USED, BETWEEN VALVES AND WATER METER.
2. PROVIDE PROPERLY SUPPORTED HORIZONTAL PIPE FOR METER SETTING.
3. DIMENSION A MUST BE MAINTAINED. DIMENSION B CAN VARY SLIGHTLY.
4. REFER TO SPECIFICATIONS FOR OTHER REQUIREMENTS FOR WATER METER SETTING.



**WATER METER SETTING**  
5/8" x 3/4" AND 1" WATER METERS

REVISED:  
6-93  
DWG. NO.  
10



PIPING SCHEMATIC

WATER METER SIZE	C FACE TO FACE OF FLANGES	D CENTERLINE TO WALL	METER TYPE
1 1/2"	1'-1 1/4"	11"	POSITIVE DISPLACEMENT
2"	1'-5 1/4"	1'-2"	POSITIVE DISPLACEMENT
2"	10 1/4"	1'-0"	POSITIVE DISPLACEMENT
3"	1'-0 1/4"	1'-0"	TURBINE
4"	1'-2 1/4"	1'-2"	TURBINE
6"	2'-3 3/8"	1'-8"	TURBINE

NOTES:

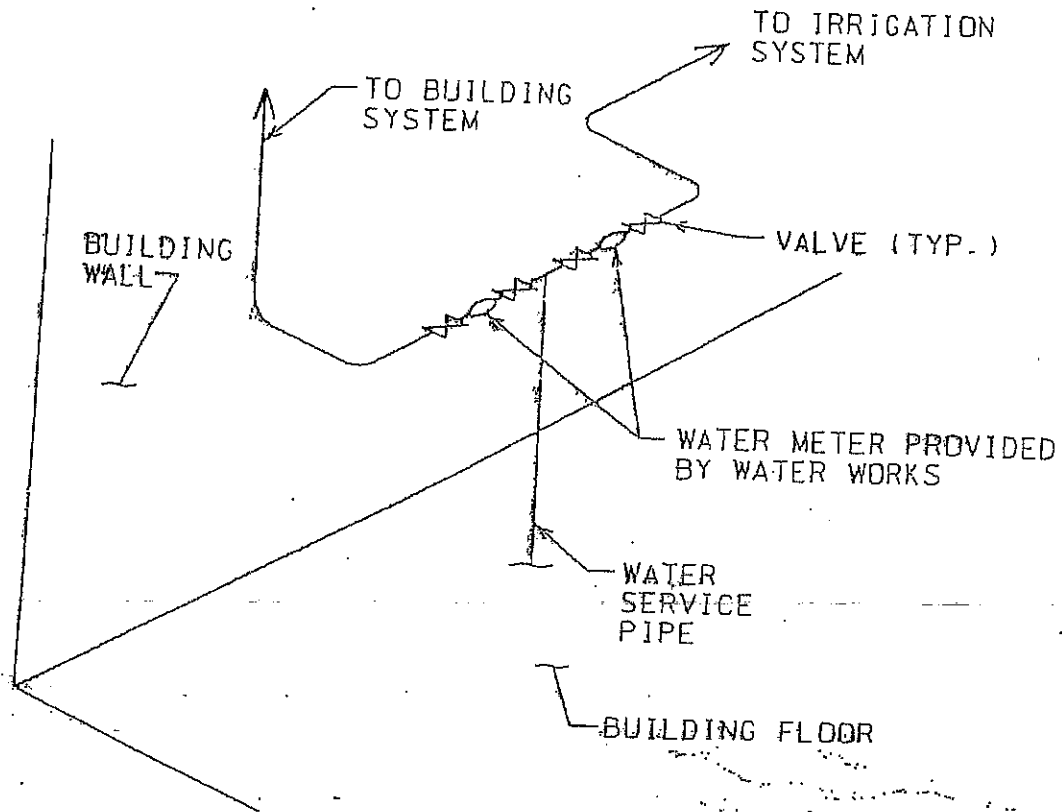
1. INSTALL REDUCERS BETWEEN VALVES AND WATER METER.
2. PROVIDE PROPERLY SUPPORTED HORIZONTAL PIPE FOR METER SETTING.
3. DIMENSION C MUST BE MAINTAINED. DIMENSION D CAN VARY SLIGHTLY.
4. FOR 1 1/2" AND 2" WATER METERS, WATER WORKS WILL FURNISH TWO METER FLANGES OR ONE METER FLANGE AND ONE FLEXIBLE COUPLING.
5. FOR 3" AND LARGER METERS, CUSTOMER SHALL PROVIDE ANSI 125 LB. FLANGES.
6. PROVIDE 5 PIPE DIAMETERS OF STRAIGHT PIPE UPSTREAM FROM METER AND 2 PIPE DIAMETERS OF STRAIGHT PIPE DOWNSTREAM FROM METER FOR TURBINE METER INSTALLATION. NO FITTINGS OR VALVES PERMITTED IN THESE SECTIONS OF PIPE.
7. REFER TO SPECIFICATIONS FOR OTHER REQUIREMENTS FOR WATER METER SETTING.



WATER METER SETTING  
1-1/2" AND LARGER WATER METERS

REVISION  
6-93

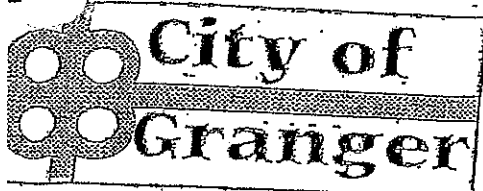
DWG. NO.  
11



PIPING SCHEMATIC

NOTES:

1. THIS STANDARD DRAWING SHOWS GENERAL ARRANGEMENT OF PIPE, WATER METER AND FITTINGS. ACTUAL PIPING MAY VARY, PROVIDED THAT ALL WATER IS METERED ONLY ONCE. DEDUCT-TYPE WATER METERING ARRANGEMENTS ARE NOT PERMITTED.
2. REFER TO STANDARD DRAWINGS 10 AND 11 - METER SETTING FOR ADDITIONAL DETAILS, AND STANDARD DRAWING 12I FOR INSTALLATION INSTRUCTIONS.

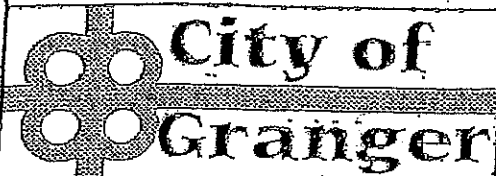


BUILDING AND IRRIGATION WATER  
METER GENERAL ARRANGEMENT

REVISED:	6-93
DWG. NO.	12

## UNDERGROUND IRRIGATION SYSTEMS

1. This Standard Drawing describes the general arrangement of pipe, water meter(s) and fittings. Actual piping may vary somewhat, provided each drop of water is metered only once. Deduct-type water metering arrangements are not permitted.
2. Use this Standard Drawing with Standard Drawing Nos. 10 and 11 – Water Meter Settings.
3. Install a reduced pressure principle backflow prevention assembly (RP) in accordance with the Uniform Plumbing Code, 2000 Edition. The RP shall normally be located adjacent to the water meter serving the underground irrigation system.
4. Arrange with your plumber to install the RP and necessary piping for the second water meter. We will need two business days advance notice to install the water meter. Please call us at 999-2210.



BUILDING AND IRRIGATION WATER  
METER GENERAL ARRANGEMENT

REVISED:  
6-93

DWG. NO.  
121