

**Notes:**

**Backflow:**

1. All assemblies shall be installed a minimum of 12 inches above the floor, from the lowest point of the assembly, and less than 60 inches above the floor from the highest point of the assembly. (30"-36" Ideal Height of Assembly)
2. A minimum of 12 inches of clear space shall be maintained above the assembly to allow for servicing check valves and for operation of shut-off valves. More distance will be required for larger assemblies.
3. A minimum of 30 inches of clear space shall be maintained between the front side of the assembly and the nearest wall or obstruction. More distance will be required for larger assemblies.
4. At least 12 inches clearance shall be maintained from the test cocks of the assembly to the nearest wall or obstruction.
5. Containment Backflow Preventers must be installed immediately *following* the water meter (or as close to as possible) and before any branch piping. PRVs must be installed after meter and backflow.
6. Assemblies must *NOT* be installed directly above, or where their operation, testing and maintenance may result in damage to the water meter. (unless otherwise approved in writing by the Water Division)
7. Multiple assemblies installed in a manifold or parallel manner shall not be installed one directly over another. Assemblies must be side by side or at a 45 degree angle and comply with all of the requirements in this section. (unless otherwise approved in writing by the Water Division)
8. Shut off valves on a backflow assembly from the factory are an integral part of the assembly and factor into the assemblies' approval. These shut offs *DO NOT* replace, and should not be designed or installed to be used as, the shut off for the service line to make repairs or for maintenance. An approved, separate shut off must be used in conjunction with the assembly.

**Meters:**

1. Without prior justification and approval by the Sioux Falls Water Division, water meters will no longer be installed in manholes or pits.
2. All meters and piping must be supported
3. No galvanized or steel materials allowed on a service ahead of the containment backflow preventer. All fittings and nipples on copper services must be brass or copper and must be flared or threaded NOT soldered, braised or "pro pressed".
4. Must maintain 30" of clearance in front of meter
5. MTU will be wired to meter for remote reading
6. Irrigation meters will be tee'd before the domestic meter (no sewer charge)

The Water Division must be called to have the water meter set once all construction activities and all piping, including both inlet and outlet sides of the water meter, is finished.

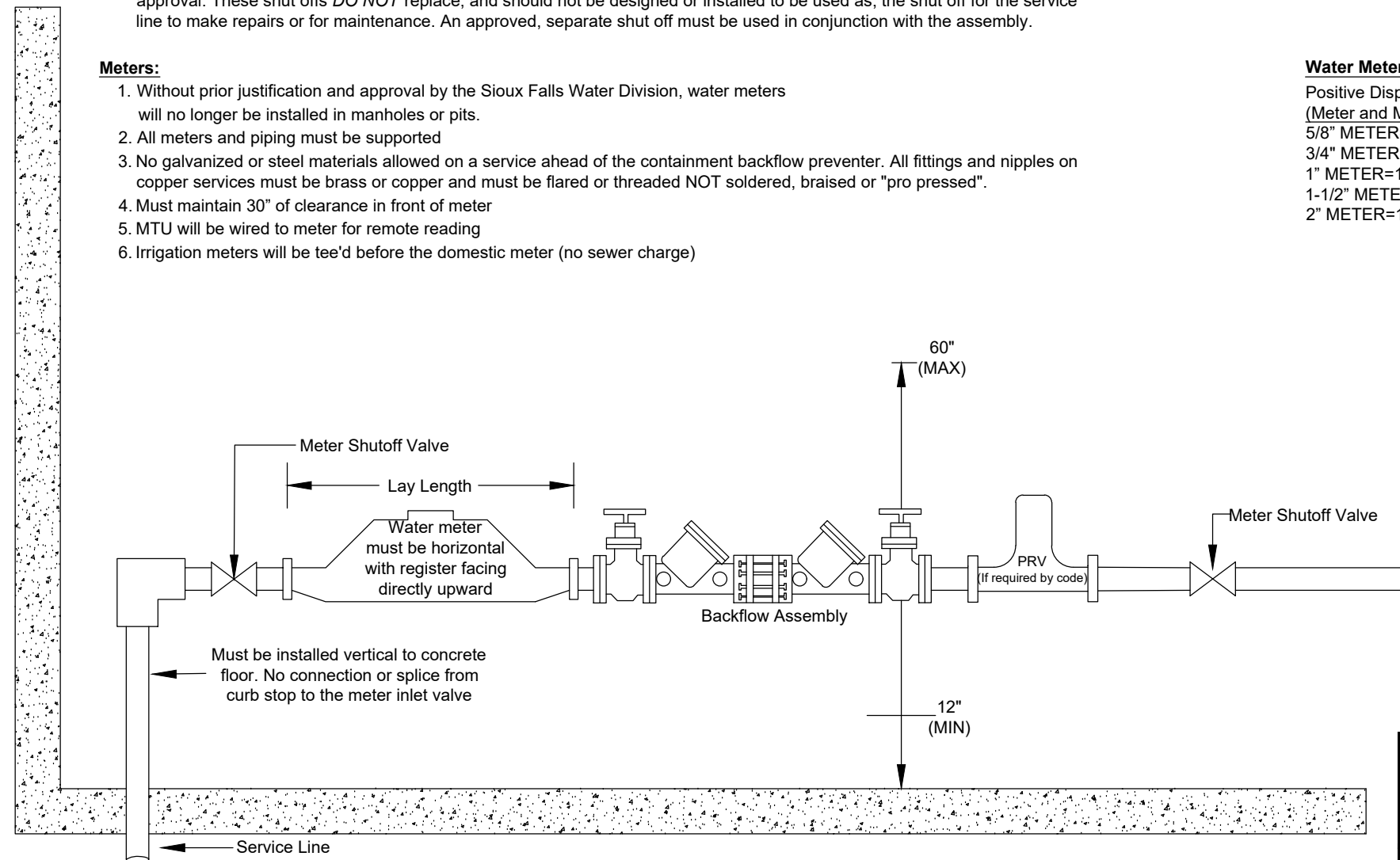
**Water Meter Shutoff Valves**

**Water meter shutoff valve types shall be as follows:**

- Shutoff valves 1" in diameter or less shall be a ball valve.
- Shutoff valves 1.5" in diameter shall be a full flow gate valve or ball valve.
- Shutoff valves 2" in diameter shall be a full flow gate valve.

**Water Meter Lay Lengths**

Positive Displacement (Meter and Meter Connections)	Ultrasonic (Meter and Meter Connections)	Compound (Meter Only)
5/8" METER=12.5"	1-1/2" METER=15.5"	3" METER=17"
3/4" METER=14.75"	2" METER=19.5"	4" METER=20"
1" METER=16.5"		6" METER=24"
1-1/2" METER=15.5"		
2" METER=19.5"		



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**Single Water Meter & Backflow Installation  
(Commercial)**



Specification  
Reference  
No. 900

Plate  
Number  
900.20