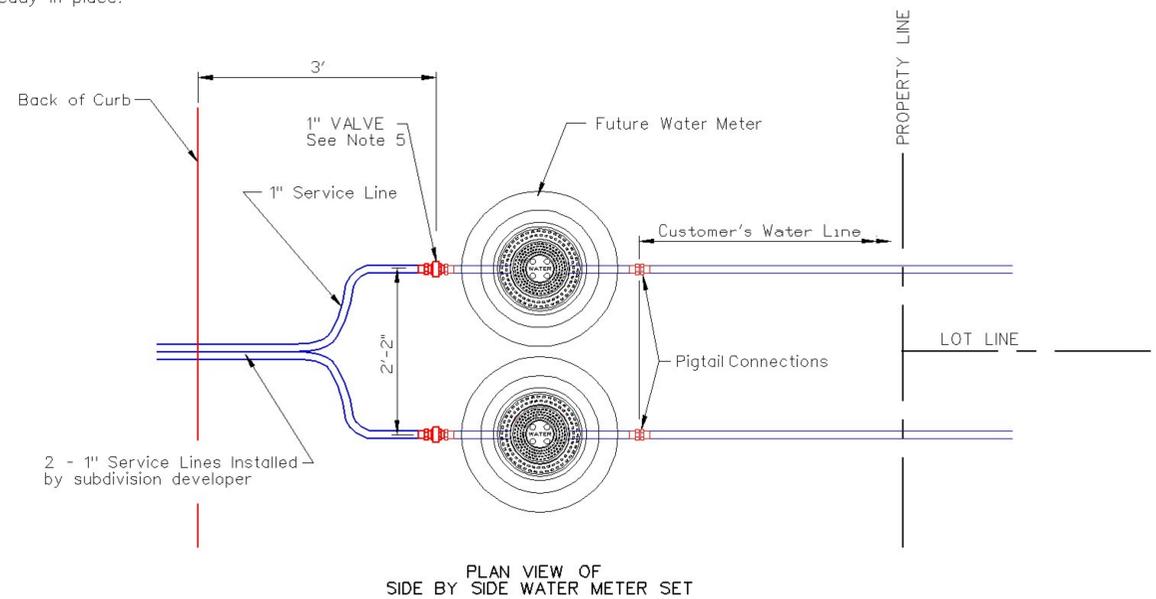


TYPICAL SERVICE CONNECTION OPTION 2 WHEN STORM SEWER IS BETWEEN CURB AND SIDEWALK

TYPICAL SERVICE CONNECTION OPTION 1 (PREFERRED) WITH STORM SEWER IN STREET

LOCAL OR COLLECTOR STREET WATER SERVICE LINE INSTALLATION



PLAN VIEW OF SIDE BY SIDE WATER METER SET

- NOTES:**
1. Service Lines shall be 1" Copper Type K Soft.
 2. A minimum depth of service line is 2'-6" below bottom of roadway grading. trench width shall be no greater than 8" with sand backfill. No compaction tests will be required. If trench width is greater than 8" it shall have compacted (water conditioned) backfill and approved by the City Engineer.
 3. Service saddles shall be C-900 nylon coated with single band stainless steel strap and 1" corporation pack joint compression with cc threads.
 4. Taps for corporation stops are to be made horizontally or at an angle of 45° with the horizontal (never vertically). Multiple taps (two or more) are to be staggered around the pipe circumference and be at least 12 inches apart. All taps are to be made in those sections of mains not under pavement. Particular attention will be given to their location around cul-de-sacs, elbows, etc.
 5. Angle Stop Valves shall be used on end of service line, with pack joint connection. Angle Stop Valves shall meet the applicable requirements of AWWA C800, ASTM B-62 for 85-5-5-5 composition bronze, and USAS B2.1. Angle stops shall be Mueller, McDonald, Ford, or equal. Angle Ball Service Valve Reference No. BA 41-444W full port valve or equal. Cover Angle Stop valve with polyethylene, minimum 3 mil thickness, to prevent entry of any foreign materials.
 6. Blue Magnitized Plastic Ribbon shall be tied to valve and extended 18" above finish grade to mark valve connection with a 4" PVC plastic pipe at the same location.

This standard indicates the desired geometric configuration referenced to street pavings and property lines. The 2-1" service lines shown in the under street crossing is recommended by the city. When installed by contractors in new subdivisions, actual size shall be determined by the developer or the consulting engineer. Where smaller service lines are installed, prospective customers should be warned that low pressure may be expected during periods of peak demand, particularly when one or more of the following conditions exist:

1. Individual lots contain more than 7500 square feet, or
2. Water main to which service line is connected is less than six inch diameter, or
3. Where house service line is more than 100 feet in length.

The alternate configurations may be installed in lieu of that shown upon approval of the City Engineer.

Engineering Division, City of Norman

WATER METER SERVICE CONNECTION INSTALLATION

APPROVED BY: _____ DATE: _____	DRAWN: <i>B</i>	DATE: 6/9/2006	Drawing No: W-13
BOB HANGER, CITY ENGINEER			PAGE: 4000 - 23