



TABLE 1

BRANCH PIPE DIA (IN)	THRUST BLOCK BEARING AREA (SF)
4	2.00
6	4.50
8	8.25
12	18.00

SEE NOTE 7

KEYNOTES:

- A. CONCRETE THRUST BLOCK POURED AGAINST UNDISTURBED EARTH. THRUST BLOCK SIZE SHALL BE PER TABLE 1 AND SHALL NOT BE LESS THAN ONE FOOT IN ANY DIMENSION. CONCRETE SHALL BE MINIMUM 3500 PSI. BRANCH PIPE SHALL NOT BE PRESSURIZED FOR 5 DAYS.
- B. WRAP TAPPING SADDLE AND VALVE WITH 3 LAYERS OF POLYTHEYLENE ENCASEMENT PRIOR TO POURING THRUST BLOCK AND BACKFILLING. EXTEND POLYETHYLENE 6" MINIMUM BEYOND SADDLE AND VALVE AND SECURE TO PIPE WITH POLYETHYLENE PIPE WRAP TAPE. SEE DETAIL 301.
- C. STAINLESS STEEL TAPPING SADDLE WITH GASKET AND FLANGED CONNECTION.
- D. LINE-SIZE GATE VALVE (FLG X MJ) PER DETAIL 402.
- E. JOINTS ON BRANCH PIPE SHALL BE RESTRAINED.

NOTES:

- 1. BEFORE INSTALLING TAPPING SADDLE, CONTRACTOR SHALL THOROUGHLY CLEAN PIPE TO REMOVE ALL DIRT, ROCKS, AND OTHER FOREIGN MATERIAL FROM PIPE WHERE SADDLE WILL BE INSTALLED.
- 2. SADDLE BOLTS SHALL BE TORQUED TO MANUFACTURER'S SPECIFICATIONS. BOLTS SHALL CONFORM TO ANSI/AWWA C111/A21.11.
- 3. CONTRACTOR SHALL ENSURE THAT GASKET IS PROPERLY ALIGNED AND FREE OF FOREIGN MATERIAL PRIOR TO TIGHTENING SADDLE.
- 4. SADDLE LOCATION AND INSTALLATION SHALL BE APPROVED BY DISTRICT INSPECTOR PRIOR TO TAPPING.
- 5. CONTRACTOR SHALL AIR TEST SADDLE TO 40 PSI PRIOR TO TAPPING.
- 6. CONTRACTOR SHALL FLUSH AND PRESSURE TEST VALVE FOR PRIOR TO BACKFILLING.
- 7. ENGINEER SHALL PROVIDE CALCULATION AND SIZING IF TEST PRESSURE EXCEEDS 150 PSI. SAFETY FACTOR SHALL BE 1.5.



TUALATIN VALLEY
WATER DISTRICT

DESIGNED: MBA

APPROVED: NWA

SCALE: NONE

TAPPING SADDLE

DATE: 9/2020

DETAIL

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