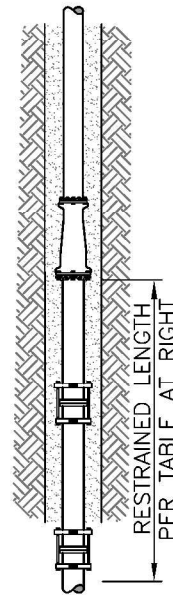


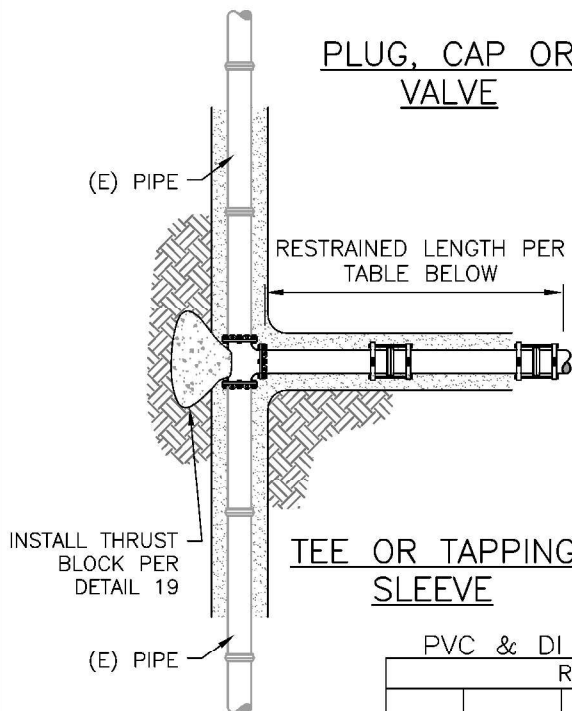
PLUG, CAP OR VALVE

DIFFERENCE IN PIPE DIAMETER	REQUIRED RESTRAINT LENGTH (FT)
4"	35'
6"	45'
8"	60'
10"	75'
12"	90'



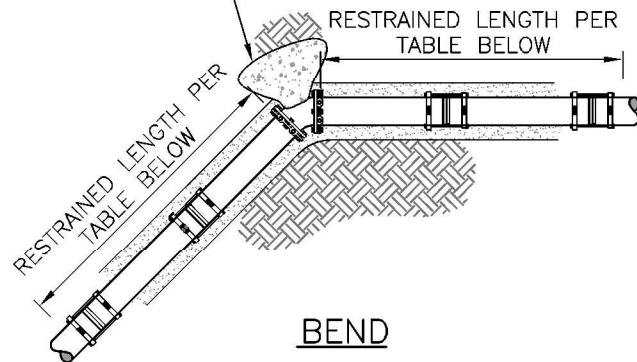
REDUCER

DIFFERENCE IN PIPE DIAMETER	REQUIRED RESTRAINT LENGTH (FT)
4"	25'
6"	50'
8"	65'
10"	80'
12"	100'



TEE OR TAPPING SLEEVE

INSTALL THRUST BLOCK PER DETAIL 19



BEND

PVC & DI PIPE JOINT RESTRAINT SIZING TABLE
REQUIRED RESTRAINT DISTANCE (FT.)

PIPE DIA.	TEE BRANCH	VERTICAL BEND			HORIZONTAL BEND			
		11 1/4°	22 1/2°	45°	11 1/4°	22 1/2°	45°	90°
4	20	20	20	40	20	20	20	20
6	20	20	20	40	20	20	20	20
8	20	20	20	40	20	20	20	40
10	20	20	20	40	20	20	20	60
12	20	20	20	40	20	20	20	60

NOTES

1. ALL UNCOATED JOINT RESTRAINT AND FITTING HARDWARE SHALL BE COATED WITH BITUMASTIC.
2. THRUST BLOCKING PER DETAIL 19 IS REQUIRED.
3. SERVICE LATERALS SHALL BE FULLY RESTRAINED.



SCOTTS VALLEY WATER DISTRICT

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DETAIL 18

JOINT RESTRAINT INSTALLATION

NOT TO SCALE