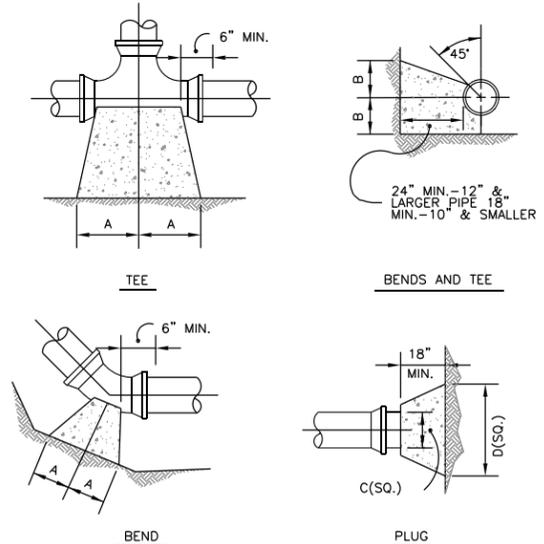


**NOTE:**

- SEE TBCD STANDARD DETAIL
- 6" MIN. FOR MAIN DIAMETER ≤ 20"  
12" MIN. FOR MAIN DIAMETER > 20"

**WATER DISTRIBUTION MAIN BEDDING AND BACKFILL FOR OPEN CUT TRENCHES**



S	90° BEND		45° BEND		22 1/2° BEND		TEES		PLUGS	
	A	B	A	B	A	B	A	B	C	D
4"	16"	10"	9"	10"	6"	8"	10"	12"	10"	21"
6"	22"	13"	12"	13"	8"	10"	13"	16"	12"	29"
8"	26"	17"	14"	17"	10"	13"	16"	20"	14"	36"
10"	29"	21"	16"	21"	11"	16"	18"	24"	16"	41"
12"	35"	24"	19"	24"	12"	20"	22"	27"	18"	48"
14"	38"	27"	21"	27"	12"	24"	24"	30"	20"	54"
16"	42"	30"	24"	30"	12"	24"	24"	30"	24"	60"
18"	50"	40"	30"	40"	18"	30"	30"	40"	30"	*78"
24"	60"	48"	36"	48"	20"	36"	36"	48"	36"	*96"

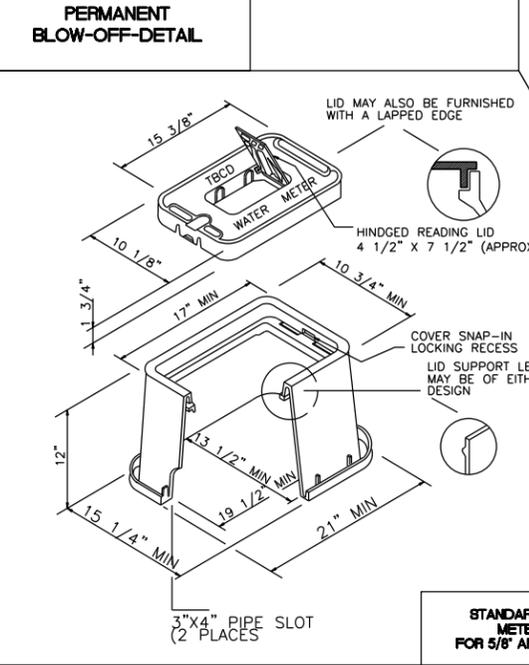
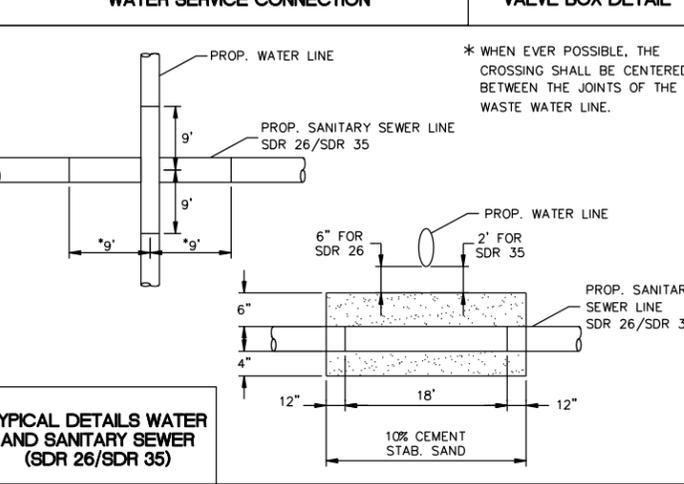
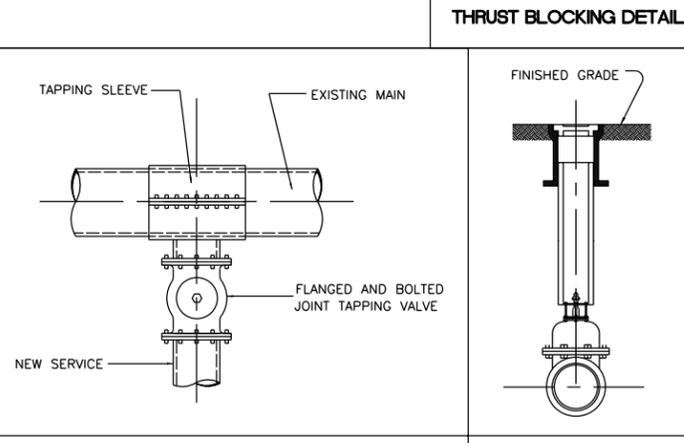
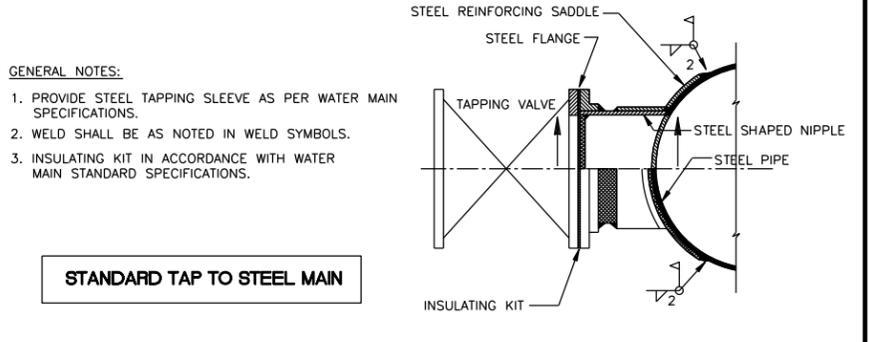
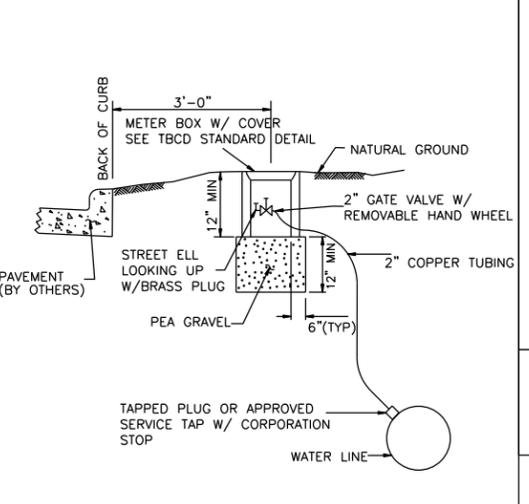
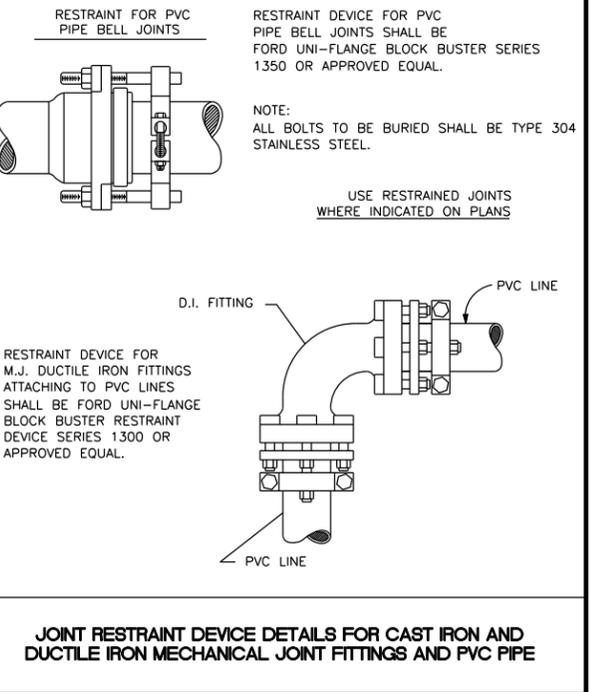
Note: Dimension with asterisk (\*) requires structural design.

- NOTE:**
- MATERIALS AND COATINGS TO BE IN ACCORDANCE WITH WATER MAIN STANDARD SPECIFICATIONS.
  - RESTRAIN EXISTING PIPING BEYOND STEEL SECTION AS REQUIRED TO PREVENT MOVEMENT.
  - MIN CLEARANCE FROM OBSTRUCTION SHALL BE: 6" FOR PIPE LESS THAN OR EQUAL TO 20" DIA. 12" FOR PIPE LARGER THAN 20" DIA.

**TYPICAL STEEL SECTION FITTINGS**

- 4 - Ø"X45° STEEL BENDS
- 2 - Ø" BELL-FLANGE ADAPTERS
- 2 - Ø" SLIP-ON FLANGES 150 #
- 2 - Ø" INSULATED JOINT KITS

Ø = DIAMETER



Waterline Standard Details

Scale: NTS

DWG No: 100 - 01

SHEET 1 OF 3

PLACE ENGINEERING SEAL HERE