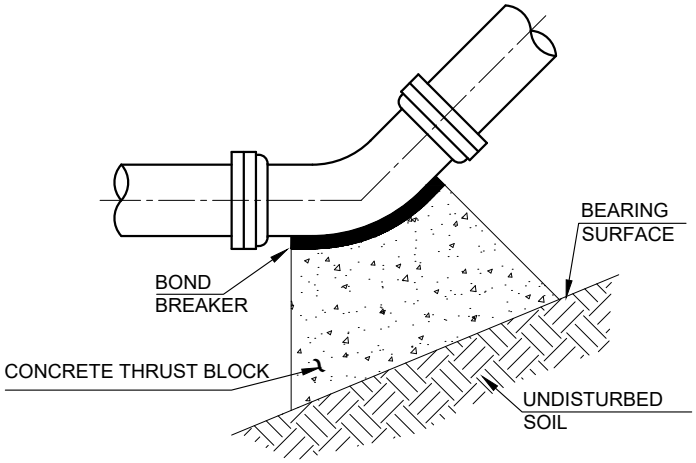
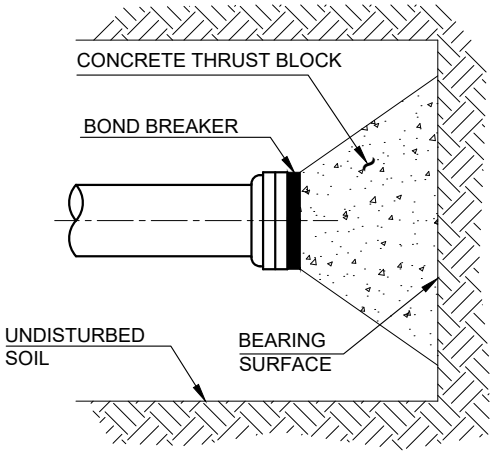
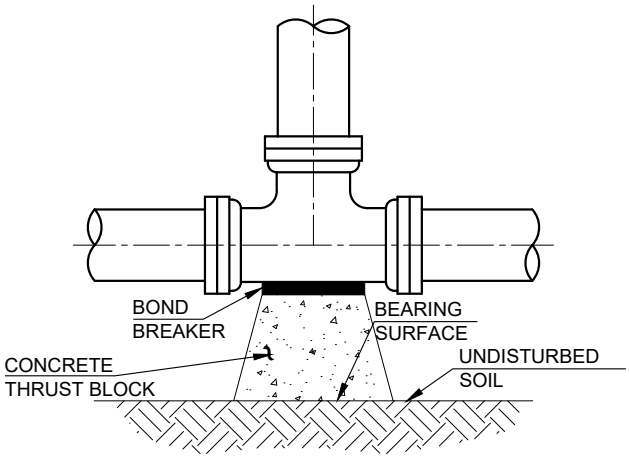
TYPICAL HORIZONTAL BEND



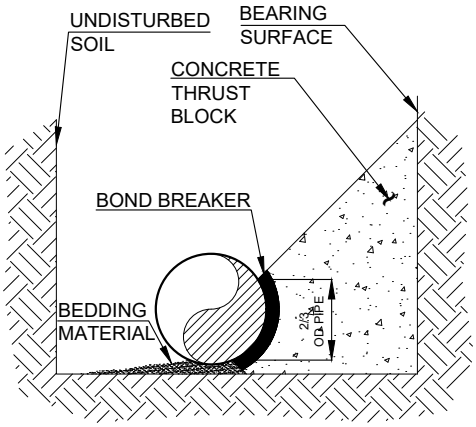
DEAD END



TEE



TYPICAL CROSS-SECTION



NOTES:

1. BEARING SURFACES SHOWN IN CHART ARE MIN.
2. BASED ON:
   - INTERNAL PIPE PRESSURE = 150PSI
   - WATER HAMMER = 110PSI
   - 2,000 PSF SOIL BEARING CAPACITY
3. THRUSTS BLOCKS FOR GREATER THAN 12" DIAMETER PIPE TO BE ENGINEERED
4. BEARING SURFACE AREAS SHOWN IN CHART ARE A MINIMUM REQUIREMENT AND DO NOT RELIEVE THE DESIGN ENGINEER OF RESPONSIBILITY TO DESIGN EACH THRUST BLOCK.
5. PIPE INSTALLED UNDER CONDITIONS DIFFERENT THAN THOSE NORMALLY ENCOUNTERED SHALL REQUIRE THRUST BLOCKS DESIGNED FOR THOSE PARTICULAR CONDITIONS.
6. VERTICAL GRAVITY BLOCKS SHALL BE ENGINEERED.

MINIMUM BEARING SURFACE AREA

(IN SQUARE FEET)

SIZE OF PIPE	BENDS				TEE OR DEAD END
	11 1/4°	22 1/2°	45°	90°	
4"	1.0	1.0	1.2	2.3	1.6
6"	1.0	1.4	2.8	5.2	3.7
8"	1.3	2.5	5.0	9.2	6.5
12"	2.9	5.7	11.2	20.8	14.7
16" AND GREATER MUST BE ENGINEERED					

REV. DATE:	08/2024	THRUST BLOCK
SCALE:	N.T.S.	

NTM NORTH TABLE MOUNTAIN WATER AND SANITATION DISTRICT

14806 WEST 52ND AVENUE GOLDEN, COLORADO 80403-1228

DWG. NO. W3