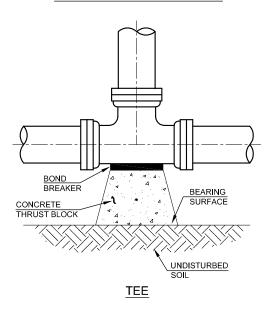
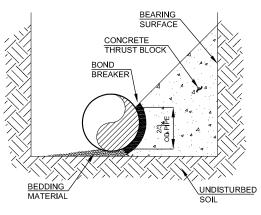


TYPICAL HORIZONTAL BEND



DEAD END



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	
	11 1/4°	22 1/2°	45°	90°	END	
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: 10/2008						
SCALE: N.T.S. KICK BLOCK						
NORTH TABLE MOUNTAIN WATER AND						
SANITATION DISTRICT						
W3						
14806 WEST 52ND AVENUE GOLDEN, COLORADO 80403-1228						
	N.T.S.	N.T.S. KICK BLOCK NORTH TABLE MOUNTAIN WATER AND SANITATION DISTRICT				