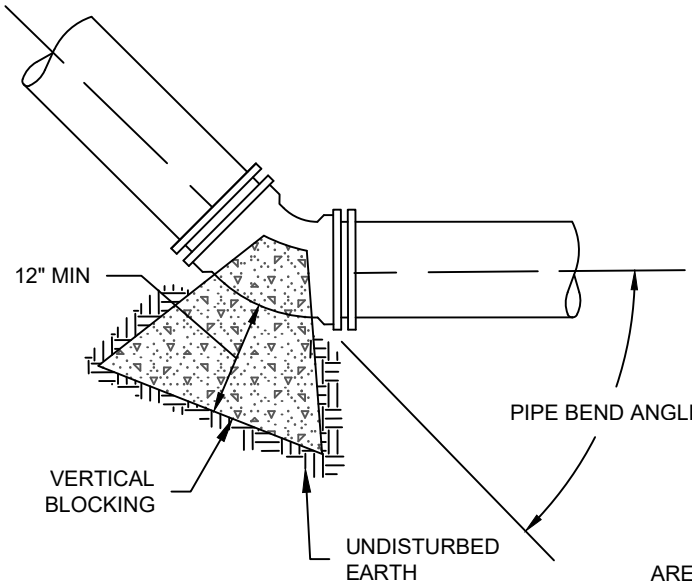
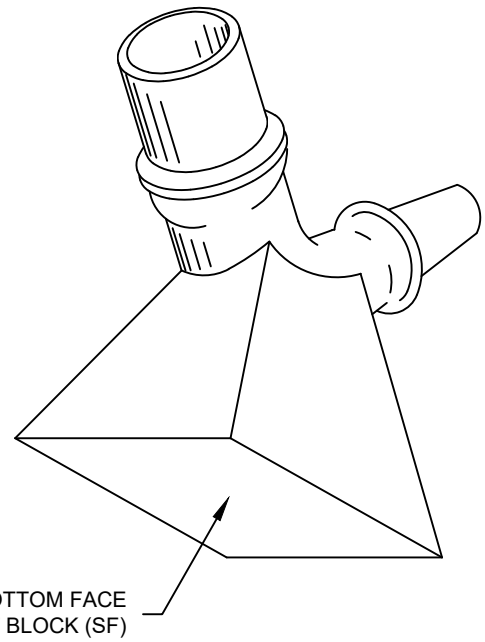


PROFILE: VERTICAL BEND
DOWN TO HORIZONTAL



OBLIQUE

TYPE "C" BLOCKING FOR 22 $\frac{1}{2}$°, 45°, AND 90° VERTICAL BENDS			
AREA OF BOTTOM FACE OF THRUST BLOCK (SF)			
PIPE SIZE (INCHES)	22 1/2˚ BEND	45˚ BEND	90˚ BEND
6	3.6	7.2	13.2
8	6.3	12.3	22.7
12	13.3	26.2	48.4
AREAS CALCULATED ON 250 PSI TEST PRESSURE, 3' MIN COVER OVER WATER MAIN, 1,500 PSF ALLOWABLE SOIL BEARING PRESSURE			

NOTES:

1. LOCATION AND SIZE OF BLOCKING FOR PIPE LARGER THAN 12" AND FOR SOIL BEARING PRESSURE DIFFERENT THAN SHOWN SHALL BE APPROVED BY THE CITY OF LYNNWOOD.
2. ALL BLOCKING FOR VERTICAL FITTINGS (POURED IN PLACE) SHALL BEAR AGAINST UNDISTURBED NATIVE GROUND.
3. ALL POURED THRUST BLOCKS SHALL BE IN PLACE AND SUFFICIENT TIME SHALL BE ALLOWED FOR THE CONCRETE TO CURE AND TRENCH SHALL BE BACKFILLED AND COMPACTED PRIOR TO PRESSURE TESTING.
4. AFTER INSTALLATION, SHACKLE RODS & TURNBUCKLES SHALL BE CLEANED AND COATED WITH 2 COATS OF ASPHALTIC VARNISH, ROYSTON ROYKOTE #612XM OR APPROVED EQUAL.
5. SHACKLE RODS SHALL BE ROUND MILD STEEL, ASTM A-36 WITH THREADS ON ENDS ONLY.
6. BLOCKING AGAINST FITTINGS SHALL BEAR AGAINST THE GREATEST FITTING SURFACE AREA POSSIBLE, BUT SHALL NOT COVER OR ENCLOSE BELL ENDS, JOINT BOLTS OR GLANDS.
7. ALL BLOCKING SHALL BE CONCRETE WITH COMPRESSION STRENGTH OF 3,000 PSI MIN.

LYNNWOOD
WASHINGTON
PUBLIC WORKS

THRUST BLOCKS
VERTICAL BLOCKING

U-WAT-11-Thrust-Blocks-Vertical-Blocking.dwg

DRAWING NUMBER	U–WAT–11
SCALE	NONE
REVISION DATE	01/22
DEPARTMENT	PW