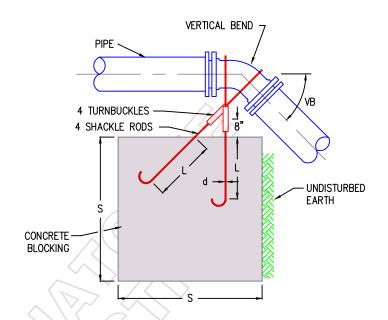
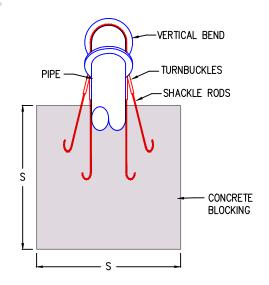
VERTICAL THRUST BLOCKING FOR 11.25°, 22.5°, AND 45° BENDS							ETS SET)
		VB		s	d	L	D S PER
PIPE SIZE NOM. DIAMETER - INCHES	Test pressure Psi	VERTICAL BEND DEGREES	AMOUNT CONCRETE BLOCKING - CU FT	LENGTH OF SIDE FEET	SHACKLE ROD DIA. INCHES	DEPTH OF ROD IN CONCRETE INCHES	NUMBER OF THE ROD SETS (2 EMBEDDED RODS PER SET
3"	300	11 1/4	5.8	1.8	5/8	12"	2
		22 1/2	11.5	2.3	5/8	12"	2
		45	22.6	2.8	5/8	12"	2
4"	300	11 1/4	8.5	2.0	5/8	12" 12"	2
		22 1/2	17.0	2.6	5/8	12" 12" 12"	2
		45	33.2	3.2	5/8	12"	2
6"	300	11 1/4	17.6	2.6	5/8	12"	2
		22 1/2	35.0	3.3	5/8	12"	2
		45	68.7	4.1	5/8	12"	2
8"	300	11 1/4	30.3	3.1	3/4	12"	2 2 2 2 2 2 2 2
		22 1/2	60.2	3.9	3/4	12" 12" 12" 12" 24" 12"	2
		45	118	4.9	3/4	12"	4
10"	300	11 1/4	45.5	3.6	3/4	12"	2
		22 1/2	90.6	4.5	3/4	12"	2
		45	178	5.6	3/4	24"	4
12"	300	11 1/4	64.4	4.0	3/4	12"	2
		22 1/2	128	5.1	3/4	12"/	4
		45	251	6.3	3/4	12"	6
14"	250	11 1/4	86.5	4.4	3/4	12"	2
		22 1/2	172	5.6	3/4/	24"	4
		45	338	7.0	1"	24"	6
16"	250	11 1/4	112	4.8	3/4	12" 12"	3
		22 1/2	223	6.1	3/4	/12" <	6
		45	436	7.6	1">	12"	6
18"	250	11 1/4	141	5.2	3/4	24"	4
		22 1/2	280	6.5	1"	24"	4
		45	549	8.2	1-1/4"	24"	6



## BLOCKING FOR VERTICAL BENDS



## **VERTICAL THRUST BLOCKING**

- 1. RESTRAINED JOINTS ARE PREFERRED OVER VERTICAL THRUST BLOCKING UNLESS RESTRAINTS ARE NOT PRACTICAL.
- 2. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.
- 3. SHACKLE RODS PER STANDARD DETAIL W-07.

## **East Wenatchee Water District**

THE WATER PAR GRANTER FOR GRAN

WATER SYSTEM STANDARD DETAIL

**VERTICAL THRUST BLOCKING** 

5

DRAWING NO. W-05 SHEET NO.

File: EWDTW13 Revised: APR 13, 2007 Printed: JUL 18, 2008