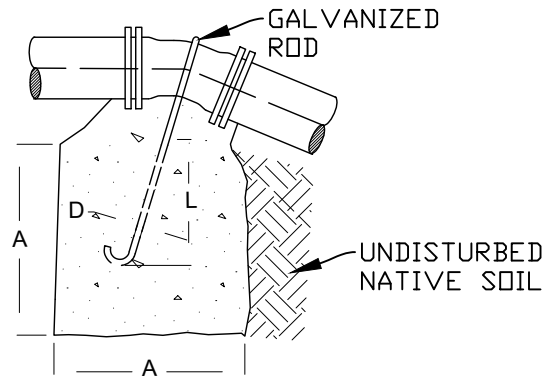


VERTICAL BLOCKING FOR 45° BENDS



VERTICAL BLOCKING FOR BENDS < 45°

45° BENDS				
PIPE SIZE	CF	A	D	L
4"	30	3.1'	3/4"	2.0'
6"	68	4.1'		2.0'
8"	123	5.0'		2.5
12"	232	6.1'		4.0'
16"	478	7.8'	1-1/8"	4.5'
20"	560	8.2'	1-1/4"	
24"	820	9.4'	1-3/8"	


TERMS:

CF = CUBIC FOOT OF CONCRETE  
 A = AREA  
 D = DEPTH  
 L = LENGTH

BENDS < 45°						
PIPE SIZE	BEND	CF	A	D	L	
4"	11.25°	8	2.0'	3/4"	1.5'	
	22.50°	11	2.2'		2.0'	
	30°	17	2.6'			
6"	11.25°	11	2.2'			7/8"
	22.50°	25	2.9'			
	30°	41	3.5'			
8"	11.25°	16	2.5'	2.5'	2.0'	
	22.50°	47	3.6			
	30°	70	4.1'			
12"	11.25°	32	3.2'		4.0'	3.0'
	22.50°	88	4.5'			
	30°	132	5.1'			
16"	11.25°	70	4.1'	1-1/8"		4.0'
	22.50°	184	5.7'			
	30°	275	6.5'			
20"	11.25°	91	4.5'		1-1/4"	3.0'
	22.50°	225	6.1'			
	30°	275	6.9'			
24"	11.25°	128	5.0'	1-3/8"		3.5'
	22.50°	320	6.8'			
	30°	480	7.9'			

NOTES:

1. CONCRETE BLOCKING IS BASED ON 200 PSI PRESSURE AND 3000 PSI CONCRETE
2. THRUST BLOCKS SHALL BE CASE AGAINST UNDISTURBED NATIVE SOILS.

 <p><b>City of Bremerton</b></p> <p><b>PUBLIC WORKS</b></p> <p><b>DESIGN/CONSTRUCTION STANDARDS</b></p>		<p><b>VERTICAL THRUST BLOCKING</b></p> <p>Alteration of this drawing is prohibited. Any approval of an altered drawing is unauthorized and void.</p>	<p><b>5333</b></p>
			<p>Revision Date</p>
			<p>04/26/21</p>