

TABLES OF DIMENSIONS AND QUANTITIES

Δ = 11.25°

L.D. (IN.)	EARTH			ROCK			L.D. (IN.)	EARTH			ROCK			
	G (FT.)	A (FT.)	B (FT.)	G (FT.)	A (FT.)	B (FT.)		G (FT.)	A (FT.)	B (FT.)	G (FT.)	A (FT.)	B (FT.)	
4.6, 8	0.4	1.0	1.5	0.1	1.1	1.6	0.1	4.6, 8	0.4	1.0	1.5	0.1	1.1	1.6
10.12	0.5	1.5	2.0	0.1	1.6	2.1	0.1	10.12	0.5	1.5	2.0	0.1	1.6	2.1
16.18	0.6	1.5	2.0	0.1	1.6	2.1	0.1	16.18	0.6	1.5	2.0	0.1	1.6	2.1
20	0.7	1.5	2.0	0.1	1.6	2.1	0.1	20	0.7	1.5	2.0	0.1	1.6	2.1
24	0.9	1.5	2.1	0.1	1.6	2.1	0.1	24	0.9	1.5	2.1	0.1	1.6	2.1
30	2.9	1.5	2.1	0.1	1.6	2.1	0.1	30	2.9	1.5	2.1	0.1	1.6	2.1
36	4.5	1.5	2.3	0.1	1.6	2.3	0.1	36	4.5	1.5	2.3	0.1	1.6	2.3
42	5.0	1.8	2.6	0.1	1.8	2.6	0.1	42	5.0	1.8	2.6	0.1	1.8	2.6
48	5.5	2.0	3.0	0.1	2.0	3.0	0.1	48	5.5	2.0	3.0	0.1	2.0	3.0
54	6.0	2.3	3.4	0.1	2.3	3.4	0.1	54	6.0	2.3	3.4	0.1	2.3	3.4
60	6.5	2.5	3.8	0.1	2.5	3.8	0.1	60	6.5	2.5	3.8	0.1	2.5	3.8
66	7.0	2.8	4.1	0.1	2.8	4.1	0.1	66	7.0	2.8	4.1	0.1	2.8	4.1
72	7.5	3.0	4.5	0.1	3.0	4.5	0.1	72	7.5	3.0	4.5	0.1	3.0	4.5
78	7.5	3.0	4.9	0.1	3.0	4.9	0.1	78	7.5	3.0	4.9	0.1	3.0	4.9
84	8.0	3.5	5.3	0.1	3.5	5.3	0.1	84	8.0	3.5	5.3	0.1	3.5	5.3
90	8.5	3.8	5.6	0.1	3.8	5.6	0.1	90	8.5	3.8	5.6	0.1	3.8	5.6
96	9.0	4.0	6.0	0.1	4.0	6.0	0.1	96	9.0	4.0	6.0	0.1	4.0	6.0

Δ = 22.50°

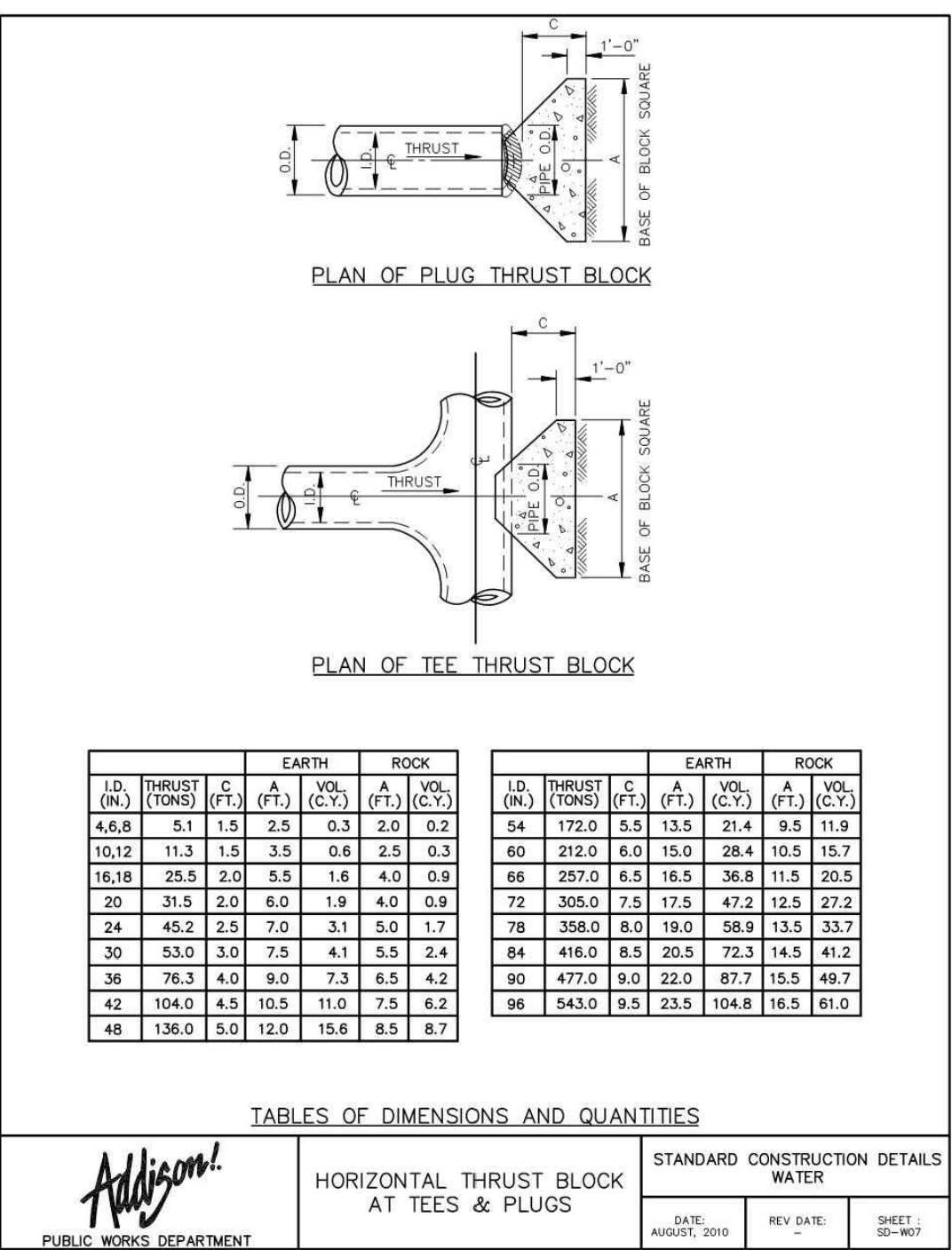
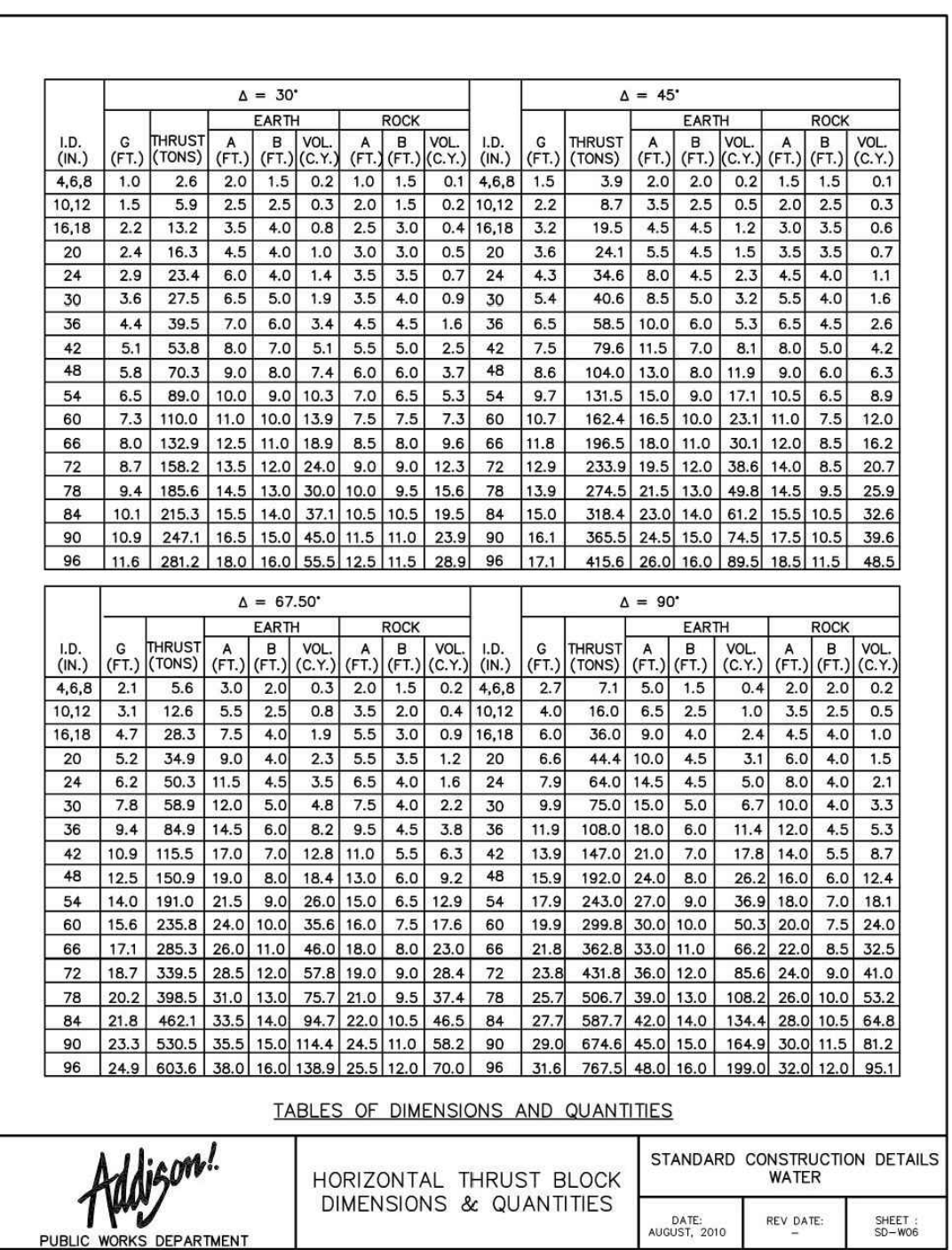
L.D. (IN.)	EARTH			ROCK			L.D. (IN.)	EARTH			ROCK			
	G (FT.)	A (FT.)	B (FT.)	G (FT.)	A (FT.)	B (FT.)		G (FT.)	A (FT.)	B (FT.)	G (FT.)	A (FT.)	B (FT.)	
4.6, 8	0.4	1.0	1.5	0.1	1.1	1.6	0.1	4.6, 8	0.4	1.0	1.5	0.1	1.1	1.6
10.12	0.6	1.5	2.0	0.1	1.6	2.1	0.1	10.12	0.6	1.5	2.0	0.1	1.6	2.1
16.18	0.8	2.0	2.5	0.1	2.0	2.5	0.1	16.18	0.8	2.0	2.5	0.1	2.0	2.5
20	0.9	2.0	2.5	0.1	2.0	2.5	0.1	20	0.9	2.0	2.5	0.1	2.0	2.5
24	1.1	2.0	2.5	0.1	2.0	2.5	0.1	24	1.1	2.0	2.5	0.1	2.0	2.5
30	1.4	2.0	2.5	0.1	2.0	2.5	0.1	30	1.4	2.0	2.5	0.1	2.0	2.5
36	1.7	2.0	2.5	0.1	2.0	2.5	0.1	36	1.7	2.0	2.5	0.1	2.0	2.5
42	1.9	2.0	2.5	0.1	2.0	2.5	0.1	42	1.9	2.0	2.5	0.1	2.0	2.5
48	2.2	2.0	2.5	0.1	2.0	2.5	0.1	48	2.2	2.0	2.5	0.1	2.0	2.5
54	2.5	2.0	2.5	0.1	2.0	2.5	0.1	54	2.5	2.0	2.5	0.1	2.0	2.5
60	2.7	2.0	2.5	0.1	2.0	2.5	0.1	60	2.7	2.0	2.5	0.1	2.0	2.5
66	3.0	2.0	2.5	0.1	2.0	2.5	0.1	66	3.0	2.0	2.5	0.1	2.0	2.5
72	3.3	2.0	2.5	0.1	2.0	2.5	0.1	72	3.3	2.0	2.5	0.1	2.0	2.5
78	3.6	2.0	2.5	0.1	2.0	2.5	0.1	78	3.6	2.0	2.5	0.1	2.0	2.5
84	3.8	2.0	2.5	0.1	2.0	2.5	0.1	84	3.8	2.0	2.5	0.1	2.0	2.5
90	4.1	2.0	2.5	0.1	2.0	2.5	0.1	90	4.1	2.0	2.5	0.1	2.0	2.5
96	4.4	2.0	2.5	0.1	2.0	2.5	0.1	96	4.4	2.0	2.5	0.1	2.0	2.5

Δ = 67.50°

L.D. (IN.)	EARTH			ROCK			L.D. (IN.)	EARTH			ROCK			
	G (FT.)	A (FT.)	B (FT.)	G (FT.)	A (FT.)	B (FT.)		G (FT.)	A (FT.)	B (FT.)	G (FT.)	A (FT.)	B (FT.)	
4.6, 8	0.4	1.0	1.5	0.1	1.1	1.6	0.1	4.6, 8	0.4	1.0	1.5	0.1	1.1	1.6
10.12	3.1	1.2	1.5	0.1	1.2	1.5	0.1	10.12	3.1	1.2	1.5	0.1	1.2	1.5
16.18	4.7	2.3	2.5	0.1	2.3	2.5	0.1	16.18	4.7	2.3	2.5	0.1	2.3	2.5
20	5.2	2.4	2.5	0.1	2.4	2.5	0.1	20	5.2	2.4	2.5	0.1	2.4	2.5
24	5.7	2.5	2.5	0.1	2.5	2.5	0.1	24	5.7	2.5	2.5	0.1	2.5	2.5
30	7.8	2.8	2.5	0.1	2.8	2.5	0.1	30	7.8	2.8	2.5	0.1	2.8	2.5
36	8.4	2.8	2.5	0.1	2.8	2.5	0.1	36	8.4	2.8	2.5	0.1	2.8	2.5
42	10.9	3.0	2.5	0.1	3.0	2.5	0.1	42	10.9	3.0	2.5	0.1	3.0	2.5
48	12.9	3.0	2.5	0.1	3.0	2.5	0.1	48	12.9	3.0	2.5	0.1	3.0	2.5
54	14.0	3.0	2.5	0.1	3.0	2.5	0.1	54	14.0	3.0	2.5	0.1	3.0	2.5
60	15.6	3.0	2.5	0.1	3.0	2.5	0.1	60	15.6	3.0	2.5	0.1	3.0	2.5
66	17.1	2.9	2.5	0.1	2.9	2.5	0.1	66	17.1	2.9	2.5	0.1	2.9	2.5
72	18.6	2.9	2.5	0.1	2.9	2.5	0.1	72	18.6	2.9	2.5	0.1	2.9	2.5
78	20.2	2.9	2.5	0.1	2.9	2.5	0.1	78	20.2	2.9	2.5	0.1	2.9	2.5
84	21.8	2.9	2.5	0.1	2.9	2.5	0.1	84	21.8	2.9	2.5	0.1	2.9	2.5
90	23.3	2.9	2.5	0.1	2.9	2.5	0.1	90	23.3	2.9	2.5	0.1	2.9	2.5
96	24.9	2.9	2.5	0.1	2.9	2.5	0.1	96	24.9	2.9	2.5	0.1	2.9	2.5

Δ = 90°

L.D. (IN.)	EARTH			ROCK			L.D. (IN.)	EARTH			ROCK			
	G (FT.)	A (FT.)	B (FT.)	G (FT.)	A (FT.)	B (FT.)		G (FT.)	A (FT.)	B (FT.)	G (FT.)	A (FT.)	B (FT.)	
4.6, 8	0.4	1.0	1.5	0.1	1.1	1.6	0.1	4.6, 8	0.4	1.0	1.5	0.1	1.1	1.6
10.12	3.1	1.2	1.5	0.1	1.2	1.5	0.1	10.12	3.1	1.2	1.5	0.1	1.2	1.5
16.18	4.7	2.3	2.5	0.1	2.3	2.5	0.1	16.18	4.7	2.3	2.5	0.1	2.3	2.5
20	5.2	2.4	2.5	0.1	2.4	2.5	0.1	20	5.2	2.4	2.5	0.1	2.4	2.5
24	5.7	2.5	2.5	0.1	2.5	2.5	0.1	24	5.7	2.5	2.5	0.1	2.5	2.5
30	7.8	2.8	2.5	0.1	2.8	2.5	0.1	30	7.8	2.8	2.5	0.1	2.8	2.5
36	8.4	2.8	2.5	0.1	2.8	2.5	0.1	36	8.4	2.8	2.5	0.1	2.8	2.5
42	10.9	3.0	2.5	0.1	3.0	2.5	0.1	42	10.9	3.0	2.5	0.1	3.0	2.5
48	12.9	3.0	2.5	0.1	3.0	2.5	0.1	48	12.9	3.0	2.5	0.1	3.0	2.5
54	14.0	3.0	2.5	0.1	3.0	2.5	0.1	54	14.0	3.0	2.5	0.1	3.0	2.5
60	15.6	3.0	2.5	0.1	3.0	2.5	0.1	60	15.6	3.0	2.5	0.1	3.0	2.5
66	17.1	2.9	2.5	0.1	2.9	2.5	0.1	66	17.1	2.9	2.5	0.1	2.9	2.5
72	18.6	2.9	2.5	0.1	2.9	2.5	0.1	72	18.6	2.9	2.5	0.1	2.9	2.5
78	20.2	2.9	2.5	0.1	2.9	2.5	0.1	78	20.2	2.9	2.5	0.1	2.9	2.5
84	21.8	2.9	2.5	0.1	2.9	2.5	0.1	84	21.8	2.9	2.5	0.1	2.9	2.5
90	23.3	2.9	2.5	0.1	2.9	2.5	0.1	90	23.3	2.9	2.5	0.1	2.9	2.5
96	24.9	2.9	2.5	0.1	2.9	2.5	0.1	96	24.9	2.9	2.5	0.1	2.9	2.5



TABLES OF DIMENSIONS AND QUANTITIES

Δ = 11.25°

L.D. (IN.)	EARTH			ROCK			L.D. (IN.)	EARTH			ROCK			
	G (FT.)	A (FT.)	B (FT.)	G (FT.)	A (FT.)	B (FT.)		G (FT.)	A (FT.)	B (FT.)	G (FT.)	A (FT.)	B (FT.)	
4.6, 8	0.4	1.0	1.5	0.1	1.1	1.6	0.1	4.6, 8	0.4	1.0	1.5	0.1	1.1	1.6
10.12	0.5	1.5	2.0	0.1	1.6	2.1	0.1	10.12	0.5	1.5	2.0	0.1	1.6	2.1
16.18	0.8	2.0	2.5	0.1	2.0	2.5	0.1	16.18	0.8	2.0	2.5	0.1	2.0	2.5
20	0.9	2.0	2.5	0.1	2.0	2.5	0.1	20	0.9	2.0	2.5	0.1	2.0	2.5
24	1.1	2.0	2.5	0.1	2.0	2.5	0.1	24	1.1	2.0	2.5	0.1	2.0	2.5
30	1.4	2.0	2.5	0.1	2.0	2.5	0.1	30	1.4	2.0	2.5	0.1	2.0	2.5
36	1.7	2.0	2.5	0.1	2.0	2.5	0.1	36	1.7	2.0	2.5	0.1	2.0	2.5
42	1.9	2.0	2.5	0.1	2.0	2.5	0.1	42	1.9	2.0	2.5	0.1	2.0	2.5
48	2.2	2.0	2.5	0.1	2.0	2.5	0.1	48	2.2	2.0	2.5	0.1	2.0	2.5
54	2.5	2.0	2.5	0.1	2.0	2.5	0.1	54	2.5	2.0	2.5	0.1	2.0	2.5
60	2.7	2.0	2.5	0.1	2.0	2.5	0.1	60	2.7	2.0	2.5	0.1	2.0	2.5
66	3.0	2.0	2.5	0.1	2.0	2.5	0.1	66	3.0	2.0	2.5	0.1	2.0	2.5
72	3.3	2.0	2.5	0.1	2.0	2.5	0.1	72	3.3	2.0	2.5	0.1	2.0	2.5
78	3.6	2.0	2.5	0.1	2.0	2.5	0.1	78	3.6	2.0	2.5	0.1	2.0	2.5
84	3.8	2.0	2.5	0.1	2.0	2.5	0.1	84	3.8	2.0	2.5	0.1	2.0	2.5
90	4.1	2.0	2.5	0.1	2.0	2.5	0.1	90	4.1	2.0	2.5	0.1	2.0	2.5
96	4.4	2.0	2.5	0.1	2.0									