

ROUND PIPES

DIAM. D	DIMENSIONS											2:1 SLOPE DIMENSION		2:1 SLOPE ESTIMATED QUANTITIES				3:1 SLOPE DIMENSION		3:1 SLOPE ESTIMATED QUANTITIES																							
	WT	A	Hs	H	FT	FT1	SKEW	WING	θ	L	B	BW	J1	J2	W	K	STEM REINF.	BOTTOM FOOTING REINF.	TOP FOOTING REINF.	STEEL REINF* (LBS)	CONC. CU. YDS.	W	K	STEM REINF.	BOTTOM FOOTING REINF.	TOP FOOTING REINF.	STEEL REINF* (LBS)	CONC. CU. YDS.															
18"	6"	6"	1'-6"	2'-0"	9"	1'-6"	90°	BOTH	45°-00'	3'-1"	1'-3"	3'-0"	1'-9"	1'-9"	1'-5"	1'-2 1/2"	WWR @ 0.03 IN ² /FT	WWR @ 0.03 IN ² /FT	WWR @ 0.04 IN ² /FT	21	0.72	2'-1 1/2"	1'-11"	WWR @ 0.03 IN ² /FT	WWR @ 0.03 IN ² /FT	WWR @ 0.04 IN ² /FT	25	0.91															
							75°	LONG	37°-30'	3'-1 5/8"			1'-8 7/8"	1'-9 3/4"	1'-7 3/4"	1'-5 3/4"				21	0.73	2'-5 5/8"	2'-3 1/2"				26	0.93															
								SHORT	52°-30'						1'-3 1/8"	1'-0 1/8"																											
							60°	LONG	30°-00'	3'-3 3/4"			1'-9 1/2"	1'-11 3/8"	2'-0"	1'-10 3/8"				22	0.78	3'-0"	2'-10 3/8"				3'-0"	2'-10 3/8"	27	0.99													
								SHORT	60°-00'						1'-1 7/8"	0'-10 3/8"																											
							45°	LONG	22°-30'	3'-8 3/8"			1'-11 3/8"	2'-2 1/4"	1'-1"	0'-9"				25	0.89	3'-11"	3'-9 7/8"				3'-11"	3'-9 7/8"	31	1.15													
								SHORT	67°-30'						1'-1"	0'-9"																											
24"	6"	1'-0"	2'-0"	3'-0"	9"	2'-0"	90°	BOTH	45°-00'	3'-8 1/2"	1'-3"	3'-0"	2'-0 3/4"	2'-0 3/4"	2'-10"	2'-7 1/2"	WWR @ 0.07 IN ² /FT	WWR @ 0.03 IN ² /FT	WWR @ 0.05 IN ² /FT	42	1.40	4'-2 7/8"	4'-0 3/8"	WWR @ 0.07 IN ² /FT	WWR @ 0.03 IN ² /FT	WWR @ 0.05 IN ² /FT	55	1.87															
							75°	LONG	37°-30'	3'-9 3/8"			2'-0 3/4"	2'-1 5/8"	3'-3 3/8"	3'-1 3/8"				43	1.43	4'-11 1/8"	4'-9 1/8"				56	1.91															
								SHORT	52°-30'						2'-6 1/4"	2'-3 1/4"																											
							60°	LONG	30°-00'	4'-0 1/4"			2'-1 3/4"	2'-3 5/8"	4'-0"	3'-10 3/8"				47	1.54	6'-0"	5'-10 3/8"				6'-0"	5'-10 3/8"	61	2.06													
								SHORT	60°-00'						2'-3 3/4"	2'-0 1/4"																											
							45°	LONG	22°-30'	4'-6 3/8"			2'-4 3/8"	2'-7 1/4"	5'-2 3/4"	5'-1 1/2"				53	1.78	7'-10 1/8"	7'-8 7/8"				5'-2 3/4"	5'-1 1/2"	69	2.39													
								SHORT	67°-30'						2'-2"	1'-10"																											
30"	6"	1'-0"	2'-0"	3'-6"	9"	2'-3"	90°	BOTH	45°-00'	4'-3 3/4"	1'-3"	3'-0"	2'-4 3/8"	2'-4 3/8"	4'-2 7/8"	4'-0 3/8"	WWR @ 0.09 IN ² /FT	WWR @ 0.03 IN ² /FT	WWR @ 0.06 IN ² /FT	68	2.07	6'-4 3/8"	6'-1 7/8"	WWR @ 0.09 IN ² /FT	WWR @ 0.03 IN ² /FT	WWR @ 0.06 IN ² /FT	91	2.82															
							75°	LONG	37°-30'	4'-4 3/4"			2'-4 1/2"	2'-5 3/8"	4'-11 1/8"	4'-9 1/8"				69	2.12	7'-4 3/4"	7'-2 5/8"				93	2.89															
								SHORT	52°-30'						3'-9 3/8"	3'-6 3/8"																											
							60°	LONG	30°-00'	4'-8 3/8"			2'-5 3/4"	2'-7 5/8"	6'-0"	5'-10 3/8"				75	2.29	9'-0"	8'-10 3/8"				6'-0"	5'-10 3/8"	100	3.12													
								SHORT	60°-00'						3'-5 5/8"	3'-2 1/8"																											
							45°	LONG	22°-30'	5'-4 1/4"			2'-9 1/4"	3'-0 1/8"	7'-10 1/8"	7'-8 7/8"				87	2.66	11'-9 1/8"	11'-7 7/8"				7'-10 1/8"	7'-8 7/8"	116	3.63													
								SHORT	67°-30'						3'-3"	2'-11"																											
36"	6"	1'-0"	2'-0"	4'-0"	9"	2'-6"	90°	BOTH	45°-00'	4'-11 1/4"	1'-3"	3'-0"	2'-8 1/8"	2'-8 1/8"	5'-7 7/8"	5'-5 3/8"	WWR @ 0.12 IN ² /FT	WWR @ 0.04 IN ² /FT	WWR @ 0.07 IN ² /FT	109	2.82	8'-5 7/8"	8'-3 3/8"	WWR @ 0.12 IN ² /FT	WWR @ 0.04 IN ² /FT	WWR @ 0.07 IN ² /FT	147	3.89															
							75°	LONG	37°-30'	5'-0 1/2"			2'-8 1/4"	2'-9 1/4"	5'-0 1/2"	4'-9 1/2"				111	2.89	9'-10 1/4"	9'-8 1/4"				151	3.98															
								SHORT	52°-30'						6'-6 7/8"	6'-4 7/8"																											
							60°	LONG	30°-00'	5'-4 7/8"			2'-10"	2'-11 7/8"	8'-0"	7'-10 3/8"				120	3.13	12'-0"	11'-10 3/8"				8'-0"	7'-10 3/8"	163	4.31													
								SHORT	60°-00'						4'-7 3/8"	4'-3 7/8"																											
							45°	LONG	22°-30'	6'-2 1/8"			3'-2 1/4"	3'-5 1/8"	10'-5 3/8"	10'-4 1/8"				139	3.63	15'-8 1/8"	15'-7"				10'-5 3/8"	10'-4 1/8"	189	5.02													
								SHORT	67°-30'						4'-4"	4'-0"																											
42"	6"	1'-0"	2'-0"	4'-6"	9"	2'-6"	90°	BOTH	45°-00'	5'-6 1/2"	1'-3"	3'-0"	2'-11 3/4"	2'-11 3/4"	7'-0 7/8"	6'-10 3/8"	WWR @ 0.16 IN ² /FT	WWR @ 0.04 IN ² /FT	WWR @ 0.07 IN ² /FT	151	3.52	10'-7 1/4"	10'-4 3/4"	WWR @ 0.16 IN ² /FT	WWR @ 0.04 IN ² /FT	WWR @ 0.07 IN ² /FT	208	4.88															
							75°	LONG	37°-30'	5'-8"			3'-0"	3'-1"	8'-2 1/2"	8'-0 1/2"				154	3.61	12'-3 7/8"	12'-1 3/4"				212	5.00															
								SHORT	52°-30'						6'-3 5/8"	6'-0 5/8"																											
							60°	LONG	30°-00'	6'-1"			3'-2 1/8"	3'-4"	10'-0"	9'-10 3/8"				166	3.90	15'-0"	14'-10 3/8"				10'-0"	9'-10 3/8"	230	5.42													
								SHORT	60°-00'						5'-9 1/4"	5'-5 3/4"																											
							45°	LONG	22°-30'	7'-0"			3'-7 1/8"	3'-10"	13'-0 3/4"	12'-11 5/8"				193	4.54	19'-7 1/8"	19'-6"				13'-0 3/4"	12'-11 5/8"	266	6.31													
								SHORT	67°-30'						5'-5"	5'-0 7/8"																											
48"	9"	1'-0"	2'-0"	5'-0"	9"	2'-9"	90°	BOTH	45°-00'	6'-2"	1'-6"	3'-9"	3'-4 3/4"	3'-4 3/4"	8'-5 7/8"	8'-2 1/8"	WWR @ 0.10 IN ² /FT	WWR @ 0.06 IN ² /FT	WWR @ 0.10 IN ² /FT	209	5.51	12'-8 3/4"	12'-5"	WWR @ 0.10 IN ² /FT	WWR @ 0.06 IN ² /FT	WWR @ 0.10 IN ² /FT	288	7.69															
							75°	LONG	37°-30'	6'-3 3/4"			3'-4 7/8"	3'-6 1/4"	9'-10 1/4"	9'-7 1/4"				215	5.65	14'-9 3/8"	14'-6 3/8"				296	7.89															
								SHORT	52°-30'						7'-6 3/4"	7'-2 1/4"																											
							60°	LONG	30°-00'	6'-9 3/8"			3'-7 1/8"	3'-9 7/8"	12'-0"	11'-9 5/8"				232	6.11	18'-0"	17'-9 5/8"				12'-0"	11'-9 5/8"	320	8.54													
								SHORT	60°-00'						6'-11 1/8"	6'-5 7/8"																											
							45°	LONG	22°-30'	7'-10"			4'-0 3/4"	4'-5"	15'-8 1/8"	15'-6 3/8"				270	7.10	23'-6 1/4"	23'-4 1/2"				15'-8 1/8"	15'-6 3/8"	372	9.95													
								SHORT	67°-30'						6'-5 7/8"	5'-11 7/8"																											
54"	9"	1'-0"	2'-0"	5'-6"	9"	3'-0"	90°	BOTH	45°-00'	6'-11 1/2"	1'-6"	3'-9"	3'-9 1/2"	3'-9 1/2"	9'-10 3/4"	9'-7"	WWR @ 0.12 IN ² /FT	WWR @ 0.07 IN ² /FT	WWR @ 0.12 IN ² /FT	294	6.74	14'-10 1/4"	14'-6 1/2"	WWR @ 0.12 IN ² /FT	WWR @ 0.07 IN ² /FT	WWR @ 0.12 IN ² /FT	405	9.42															
							75°	LONG	37°-30'	7'-1 3/8"			3'-9 3/4"	3'-11 1/8"	11'-6"	11'-3"				301	6.91	17'-3"	16'-11 7/8"				416	9.66															
								SHORT	52°-30'						8'-9 7/8"	8'-5 3/8"																											
							60°	LONG	30°-00'	7'-7 7/8"			4'-0 3/8"	4'-3 1/8"	14'-0"	13'-9 5/8"				326	7.46	21'-0"	20'-9 5/8"				14'-0"	13'-9 5/8"	451	10.46													
								SHORT	60°-00'						8'-1"	7'-7 3/4"																											
							45°	LONG	22°-30'	8'-9 7/8"			4'-6 3/4"	4'-10 7/8"	18'-3 1/2"	18'-1 3/4"				378	8.67	27'-5 1/4"	27'-3 1/2"				18'-3 1/2"	18'-1 3/4"	525	12.18													
								SHORT	67°-30'						7'-6 7/8"	7'-0 7/8"																											
60"	9"	1'-3"	2'-0"	6'-3"	9"	3'-3"	90°	BOTH	45°-00'	7'-6 3/4"	1'-6"	3'-9"	4'-1 1/8"	4'-1 1/8"	12'-0 1/4"	11'-8 1/2"	WWR @ 0.16 IN ² /FT	WWR @ 0.08 IN ² /FT	WWR @ 0.14 IN ² /FT	434	8.54	18'-0 3/8"	17'-8 5/8"	WWR @ 0.16 IN ² /FT	WWR @ 0.08 IN ² /FT	WWR @ 0.14 IN ² /FT	605	12.0															