

BILL OF REINFORCING STEEL FOR 44'-0" CULVERT

OPENINGS		BARREL										WINGS AND CURBS																												
SIZE	No.	*G BARS A		*G BARS A ₁		*G BARS B		*4 BARS C		*4 BARS D		*4 BARS E		*4 BARS F		*4 BARS F ₁		*4 BARS J		*4 BARS M		*4 BARS N		*4 BARS O		*4 BARS P		*4 BARS P ₁		*6 BARS X										
FEET		No.	Length Ft.-In.	No.	Length Ft.-In.	No.	Length Ft.-In.	No.	Length Ft.-In.	No.	Length Ft.-In.	No.	Length Ft.-In.	No.	Length Ft.-In.	No.	Length Ft.-In.	No.	Length Ft.-In.	No.	Length Ft.-In.	No.	Length Ft.-In.	No.	Length Ft.-In.	No.	Length Ft.-In.	No.	Length Ft.-In.	No.	Length Ft.-In.									
6x4	2	78	14-2	14	78	5-2	14	80	14-5 1/2	14	46	47-2	138	5-0	12																									
	3	78	20-8	14	156	5-2	14	80	21-3	14	68	47-2	184	5-0	12	40	7-6	4	11-3	16	3-2	20	7-8	4	16-7	28	4-11	4	23-1	40	4-11	40	2-4	12	9-6	8	11-2	20	2-0	
	4	78	27-2	14	234	5-2	14	80	28-0 1/2	14	90	47-2	230	5-0	12																									
	5	78	33-8	14	312	5-2	14	80	34-10	14	112	47-2	276	5-0	12																									
6x5	2	78	14-2	14	78	5-2	14	80	14-5 1/2	14	49	47-2	138	5-0	12																									
	3	78	20-8	14	156	5-2	14	80	21-3	14	72	47-2	184	5-0	12	48	8-8	4	13-3	20	3-2	24	9-8	4	16-7	28	4-11	4	23-1	40	4-11	40	2-10	12	11-6	8	13-2	24	2-0	
	4	78	27-2	14	234	5-2	14	80	28-0 1/2	14	95	47-2	230	5-0	12																									
	5	78	33-8	14	312	5-2	14	80	34-10	14	118	47-2	276	5-0	12																									
7x4	2	84	16-2	13	84	5-8	13	86	16-6	13	50	47-2	138	5-1	12																									
	3	84	23-8	13	168	5-8	13	86	24-4	13	74	47-2	184	5-1	12	40	7-6 1/2	4	11-3	16	3-2	20	7-8	4	16-7	28	4-11	4	23-1	40	4-11	40	2-4	12	9-6	8	11-2	20	2-0	
	4	84	31-2	13	252	5-8	13	86	32-2	13	98	47-2	230	5-1	12																									
	5	84	38-8	13	336	5-8	13	86	40-0	13	122	47-2	276	5-1	12																									
7x5	2	84	16-2	13	84	5-8	13	86	16-6	13	53	47-2	138	5-1	12																									
	3	84	23-8	13	168	5-8	13	86	24-4	13	78	47-2	184	5-1	12	48	8-8 1/2	4	13-3	20	3-2	24	9-8	4	16-7	28	4-11	4	23-1	40	4-11	40	2-10	12	11-6	8	13-2	24	2-0	
	4	84	31-2	13	252	5-8	13	86	32-2	13	103	47-2	230	5-1	12																									
	5	84	38-8	13	336	5-8	13	86	40-0	13	128	47-2	276	5-1	12																									
7x6	2	84	16-2	13	84	5-8	13	86	16-6	13	56	47-2	138	5-1	10																									
	3	84	23-8	13	168	5-8	13	86	24-4	13	82	47-2	224	5-1	10	56	9-10 1/2	4	15-3	24	3-2	28	11-8	4	16-7	28	4-11	4	23-1	40	4-11	56	3-4	16	13-6	12	15-2	28	2-0	
	4	84	31-2	13	252	5-8	13	86	32-2	13	108	47-2	260	5-1	10																									
	5	84	38-8	13	336	5-8	13	86	40-0	13	134	47-2	306	5-1	10																									
8x5	2	92	18-5	12	92	6-2	12	92	18-9 1/4	12	57	47-2	138	5-2	12																									
	3	92	27-0	12	184	6-2	12	92	27-8 1/2	12	84	47-2	184	5-2	12	48	8-9	4	13-4	20	3-3	24	9-8	4	16-7	28	4-11	4	23-1	40	4-11	48	2-10	12	11-6	8	13-2	24	2-0	
	4	92	35-7	12	276	6-2	12	92	36-7 3/4	12	111	47-2	230	5-2	12																									
	5	92	46-4	12	368	6-2	12	92	47-9	12	138	47-2	276	5-2	12																									
8x6	2	92	18-5	12	92	6-2	12	92	18-9 1/4	12	60	47-2	138	5-2	12																									
	3	92	27-0	12	184	6-2	12	92	27-8 1/2	12	88	47-2	184	5-2	12	56	9-11	4	15-4	24	3-3	28	11-8	4	16-7	28	4-11	4	23-1	40	4-11	56	3-4	16	13-6	12	15-2	28	2-0	
	4	92	35-7	12	276	6-2	12	92	36-7 3/4	12	116	47-2	230	5-2	12																									
	5	92	46-4	12	368	6-2	12	92	47-9	12	144	47-2	272	5-2	12																									

Includes One 1'-0" Lap Splice Includes One 2'-2" Lap Splice. *6 Bars 'X' to be 3/4" Smooth & Greased for 1'-0" of Length.

OPENINGS	DIMENSIONS										QUANTITIES				OPENINGS				
	SIZE	AREA	SLAB	WALL	T	N	E	J	G	H	L	P	M	STEEL		CONCRETE	STEEL	CONCRETE	SIZE
FEET	Sq Ft	Feet	Feet	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	Pounds	Cu. Yds.	Pounds	Cu. Yds.	Feet	
6x4	2	48	16											33-2	127.76	0.9074	6674	53.64	2
	3	72												39-8	193.32	1.3117	9760	73.20	3
	4	96	20	12	8	G	1-3	10	2-9	5-8	10-4	9-10		46-2	258.88	1.7161	12,853	92.77	4
	5	120												52-8	324.45	2.1204	15,940	112.33	5
6x5	2	60	15											37-2	131.76	0.9630	7072	60.02	2
	3	90												43-8	198.66	1.3858	10,220	80.43	3
	4	120	20	7	8	G	1-5	1-2	3-3	6-5	12-4	11-10		50-2	265.56	1.8087	13,376	100.64	4
	5	150												56-8	332.46	2.2315	16,524	121.26	5
7x4	2	56	12											35-2	149.88	1.0540	7713	60.69	2
	3	84												42-8	227.54	1.5309	11,372	83.72	3
	4	112	16	12	8 1/2	G	1-3	10	2-9	5-8 1/2	10-4	9-10		50-2	305.20	2.0077	15,024	106.75	4
	5	140												57-8	352.86	2.4846	18,667	129.78	5
7x5	2	70	12											39-2	153.89	1.1096	8111	67.07	2
	3	105												46-8	232.89	1.6049	11,832	90.95	3
	4	140	16	7	8 1/2	G	1-5	1-2	3-3	6-8 1/2	12-4	11-10		54-2	311.88	2.1003	15,546	114.63	4
	5	175												61-8	390.88	2.5957	19,272	136.71	5
7x6	2	84	11											43-2	160.74	1.1651	8,756	74.07	2
	3	126												50-2	242.02	1.6790	12,566	98.80	3
	4	168	16	5	8 1/2	G	1-7	1-6	3-9	7-8 1/2	14-4	13-10		58-2	323.29	2.1929	16,410	123.53	4
	5	210												65-8	404.57	2.7068	20,245	148.27	5
8x5	2	80	10											41-5	180.67	1.3287	9373	77.48	2