

BILL OF REINFORCING FOR ONE HEADWALL 45° SKEW CULVERT SPAN x CULVERT HEIGHT

BAR	LOCATION	SHAPE	12' x 12'		12' x 10'		12' x 8'		12' x 6'		10' x 12'		10' x 10'		10' x 8'		10' x 6'		BAR								
			NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT							
5fa	FENCE ANCHOR (GALV.)		2	3'-1	6	2	3'-1	6	2	3'-1	6	2	3'-1	6	2	3'-1	6	2	3'-1	6	5fa						
4b1	WINGWALL, B.F.H. LONG		1	74'-9	51	1	63'-1	43	1	51'-5	26	1	39'-9	27	1	74'-9	51	1	63'-1	43	1	51'-5	26	1	39'-9	27	4b1
4b2	WINGWALL, B.F.H. SHORT		1	46'-0	32	1	39'-0	26	1	32'-0	21	1	25'-0	17	1	46'-0	32	1	39'-0	26	1	32'-0	21	1	25'-0	17	4b2
4b3	WINGWALL, B.F.H. LONG		10	19'-6	313	8	19'-6	218	6	19'-6	139	4	19'-6	75	10	19'-6	313	8	19'-6	218	6	19'-6	139	4	19'-6	75	4b3
4b4	WINGWALL, B.F.H. SHORT		10	12'-10	194	8	12'-10	134	6	12'-10	86	4	12'-10	48	10	12'-10	194	8	12'-10	134	6	12'-10	86	4	12'-10	48	4b4
5b5	WINGWALL, F.F.H. LONG		1	74'-9	80	1	63'-1	68	1	51'-5	56	1	39'-9	41	1	74'-9	80	1	63'-1	68	1	51'-5	56	1	39'-9	41	5b5
5b6	WINGWALL, F.F.H. SHORT		1	46'-0	50	1	39'-0	41	1	32'-0	33	1	25'-0	26	1	46'-0	50	1	39'-0	41	1	32'-0	33	1	25'-0	26	5b6
5b7	WINGWALL, F.F.H. LONG		11	13'-8	503	9	13'-8	355	7	13'-8	232	5	13'-8	132	11	13'-8	503	9	13'-8	355	7	13'-8	232	5	13'-8	132	5b7
5b8	WINGWALL, F.F.H. SHORT		11	9'-4	312	9	9'-4	219	7	9'-4	145	5	9'-4	85	11	9'-4	312	9	9'-4	219	7	9'-4	145	5	9'-4	85	5b8
5b9	CENTER WALLS, BOTH F.H.		42	5'-11	935	34	6'-0	660	26	6'-1	429	18	6'-3	246	42	5'-11	935	34	6'-0	660	26	6'-1	429	18	6'-3	246	5b9
4c1	WINGWALL, F.F.V. LONG		72	2'-10	429	60	2'-10	316	49	2'-10	226	37	2'-10	146	72	2'-10	429	60	2'-10	316	49	2'-10	226	37	2'-10	146	4c1
4c2	WINGWALL, F.F.V. SHORT		43	2'-10	254	36	2'-10	188	29	2'-10	132	22	2'-10	86	43	2'-10	254	36	2'-10	188	29	2'-10	132	22	2'-10	86	4c2
4c3	WINGWALL, F.F.V. LONG		1	13'-9	9	2	11'-9	16	1	9'-9	7	1	7'-9	5	1	13'-9	9	2	11'-9	16	1	9'-9	7	1	7'-9	5	4c3
4c3	WINGWALL, F.F.V. SHORT		2	13'-9	18	2	11'-9	16	2	9'-9	13	2	7'-9	10	2	13'-9	18	2	11'-9	16	2	9'-9	13	2	7'-9	10	4c3
4c4	CENTER WALLS, BOTH F.V.		4	1'-9	5	4	1'-9	5	4	1'-9	5	4	1'-8	4	4	1'-9	5	4	1'-9	5	4	1'-9	5	4	1'-8	4	4c4
4c5	CENTER WALLS, BOTH F.V.		132	1'-10	628	110	1'-10	450	88	1'-10	304	66	1'-10	184	132	1'-10	628	110	1'-10	450	88	1'-10	304	66	1'-10	184	4c5
4c6	CENTER WALLS, BOTH F.V.		6	12'-7	50	6	10'-7	42	6	8'-7	34	6	6'-7	26	6	12'-7	50	6	10'-7	42	6	8'-7	34	6	6'-7	26	4c6
5c7	WINGWALL, B.F.V. LONG		15	2'-10	63	15	2'-10	63	15	2'-10	63	15	2'-10	63	15	2'-10	63	15	2'-10	63	15	2'-10	63	15	2'-10	63	5c7
5c8	WINGWALL, B.F.V. SHORT		4	2'-10	14	4	2'-10	14	4	2'-10	14	4	2'-10	14	4	2'-10	14	4	2'-10	14	4	2'-10	14	4	2'-10	14	5c8
5c9	WINGWALL, B.F.V. LONG		57	9'-5	845	45	9'-5	618	34	9'-5	433	22	9'-5	257	57	9'-5	845	45	9'-5	618	34	9'-5	433	22	9'-5	257	5c9
5c10	WINGWALL, B.F.V. SHORT		39	8'-0	546	32	8'-0	414	25	8'-0	298	18	8'-0	196	39	8'-0	546	32	8'-0	414	25	8'-0	298	18	8'-0	196	5c10
5c11	WINGWALL, B.F.V. LONG		43	10'-6	471	31	10'-6	340	19	10'-6	208	13	10'-6	131	43	10'-6	471	31	10'-6	340	19	10'-6	208	13	10'-6	131	5c11
5c11	WINGWALL, B.F.V. SHORT		26	10'-6	285	19	10'-6	208	12	10'-6	131	8	10'-6	66	26	10'-6	285	19	10'-6	208	12	10'-6	131	8	10'-6	66	5c11
5c12	WINGWALL, B.F.V. LONG		1	17'-8	18	2	15'-8	33	1	13'-8	14	1	11'-8	12	1	17'-8	18	2	15'-8	33	1	13'-8	14	1	11'-8	12	5c12
5c12	WINGWALL, B.F.V. SHORT		2	17'-8	37	2	15'-8	33	2	13'-8	29	2	11'-8	24	2	17'-8	37	2	15'-8	33	2	13'-8	29	2	11'-8	24	5c12
4d1	APRON, LONGIT., BOTTOM		25	38'-0	635	25	32'-4	540	25	26'-9	447	25	21'-1	352	21	38'-0	635	25	32'-4	540	25	26'-9	447	25	21'-1	352	4d1
4d2	APRON, LONGIT., BOTTL. LONG		3	67'-3	139	3	55'-8	116	3	44'-0	92	3	32'-6	65	3	67'-3	139	3	55'-8	116	3	44'-0	92	3	32'-6	65	4d2
4d3	APRON, LONGIT., BOTTL. SHORT		3	41'-10	88	3	34'-10	70	3	27'-11	56	3	21'-0	42	3	41'-10	88	3	34'-10	70	3	27'-11	56	3	21'-0	42	4d3
6f1	APRON, LONGIT., TOP		37	38'-0	2112	37	32'-4	1797	37	26'-9	1487	37	21'-1	1172	31	38'-0	2112	37	32'-4	1797	37	26'-9	1487	37	21'-1	1172	6f1
6f2	APRON, LONGIT., TOP, LONG		15	6'-6	466	12	6'-11	325	9	7'-3	208	7	5'-7	123	15	6'-6	466	12	6'-11	325	9	7'-3	208	7	5'-7	123	6f2
6f3	APRON, LONGIT., TOP, SHORT		9	8'-1	292	8	5'-9	218	6	6'-10	138	4	7'-11	78	9	8'-1	292	8	5'-9	218	6	6'-10	138	4	7'-11	78	6f3
6f4	APRON, LONGIT., TOP, LONG		1	74'-8	115	1	63'-1	92	1	51'-5	80	1	39'-9	60	1	74'-8	115	1	63'-1	92	1	51'-5	80	1	39'-9	60	6f4
6f5	APRON, LONGIT., TOP, SHORT		1	45'-11	72	1	39'-0	59	1	32'-0	48	1	25'-0	38	1	45'-11	72	1	39'-0	59	1	32'-0	48	1	25'-0	38	6f5
4ii	PARAPET, VERTICAL		79	6'-8	352	77	6'-8	343	77	6'-8	343	77	6'-8	343	67	6'-8	352	79	6'-8	352	77	6'-8	343	77	6'-8	343	4ii
7j1	PARAPET, HORIZONTAL		4	56'-1	476	4	55'-1	468	4	55'-1	468	4	54'-8	465	4	56'-1	476	4	55'-1	468	4	55'-1	468	4	54'-8	465	7j1
6m1	APRON, TRANS., TOP		23	48'-9	1706	16	46'-9	1154	8	45'-3	568	1	43'-7	69	23	48'-9	1706	16	46'-9	1154	8	45'-3	568	1	43'-7	69	6m1
6m2	APRON, TRANS., TOP		4	38'-6	225	11	37'-9	562	19	38'-2	897	26	37'-7	1102	4	38'-6	225	11	37'-9	562	19	38'-2	897	26	37'-7	1102	6m2
6m3	APRON, TRANS., TOP		47	35'-7	1600	39	29'-8	1111	31	24'-0	724	23	18'-2	415	47	35'-7	1600	39	29'-8	1111	31	24'-0	724	23	18'-2	415	6m3
6m5	APRON, TRANS., BOTTOM		24	71'-11	2229	20	67'-2	1779	16	62'-11	1372	12	58'-5	986	24	71'-11	2229	20	67'-2	1779	16	62'-11	1372	12	58'-5	986	6m5
6p1	CURTAIN, HORIZONTAL		4	53'-8	335	4	53'-2	332	4	52'-11	331	4	45'-2	284	4	53'-8	335	4	53'-2	332	4	52'-11	331	4	45'-2	284	6p1
6p2	CURTAIN, HORIZ. LONG		4	42'-4	267	4	36'-0	216	4	29'-8	178	4	23'-4	140	4	42'-4	267	4	36'-0	216	4	29'-8	178	4	23'-4	140	6p2
6p3	CURTAIN, HORIZ. SHORT		4	15'-9	95	4	13'-9	83	4	11'-8	70	4	9'-8	58	4	15'-9	95	4	13'-9	83	4	11'-8	70	4	9'-8	58	6p3
6s1	WING SLOPE, BOTH F. LONG		2	8'-4	25	2	8'-4	25	2	8'-4	25	2	8'-4	25	2	8'-4	25	2	8'-4	25	2	8'-4	25	2	8'-4	25	6s1
6s2	WING SLOPE, BOTH F. SHORT		2	7'-11	24	2	7'-11	24	2	7'-11	24	2	7'-11	24	2	7'-11	24	2	7'-11	24	2	7'-11	24	2	7'-11	24	6s2
6s3	WING SLOPE, BOTH F. LONG		2	6'-9	214	2	5'-7	179	2	4'-5	143	2	3'-10	102	2	6'-9	214	2	5'-7	179	2	4'-5	143	2	3'-10	102	6s3
6s4	WING SLOPE, BOTH F. SHORT		2	42'-3	133	2	35'-0	105	2	27'-9	83	2	20'-6	62	2	42'-3	133	2	35'-0	105	2	27'-9	83	2	20'-6	62	6s4
6s5	WING SLOPE, F.F. LONG		1	74'-6	115	1	62'-8	97	1	50'-1																	