

BARREL QUANTITIES FOR 44'-0" CLEAR WIDTH

S	H	2 Span		3 Span		4 Span		5 Span		6 Span	
		ft	ft	Conc	Reinf.	Conc	Reinf.	Conc	Reinf.	Conc	Reinf.
5	2	28.76	4212	41.66	6213	54.57	8205	67.47	10205	80.38	12199
5	3	31.66	4376	45.53	6448	59.40	8511	73.27	10583	87.14	12647
5	4	34.56	4681	49.40	6894	64.23	9096	79.06	11309	93.89	13515
5	5	40.37	5622	57.14	8077	73.90	10524	90.66	12980	107.42	15437
5	2	28.76	3811	41.66	5756	54.57	7694	67.47	9640	80.38	11578
5	3	31.66	3966	45.53	5983	59.40	7991	73.27	10009	87.14	12017
5	4	34.56	4261	49.40	6418	64.23	8567	79.06	10726	93.89	12876
5	5	40.37	5185	57.14	7581	73.90	9973	90.66	12348	107.42	14770
6	3	35.65	5281	51.52	7823	67.38	10354	83.25	12895	99.11	15430
6	4	38.56	5595	55.39	8278	72.22	10949	89.04	13631	105.87	16307
6	5	44.37	6551	63.13	9477	81.88	12396	100.63	15326	119.40	18252
6	6	47.76	6774	67.63	9771	87.52	12762	107.40	15277	127.27	18759
6	3	35.65	5585	51.52	8491	67.38	11387	83.25	14289	99.11	17188
6	4	38.56	5915	55.39	8962	72.22	11998	89.04	15041	105.87	18082
6	5	44.37	6882	63.13	10170	81.88	13453	100.63	16740	119.40	20030
6	6	47.76	7120	67.63	10479	87.52	13834	107.40	17192	127.27	20551
7	3	42.15	5711	61.22	8439	80.29	11155	99.37	13881	118.44	16597
7	4	45.05	6024	65.09	8894	85.13	11750	105.16	14617	125.20	17475
7	5	50.90	6979	72.89	10094	94.86	13200	116.84	16313	138.82	19419
7	6	54.30	7201	77.39	10388	100.50	13564	123.60	16749	146.70	19925
7	7	57.68	7634	81.91	10962	106.13	14278	130.36	17604	154.59	20919
7	3	42.15	5872	61.22	8932	80.29	11985	99.37	15045	118.44	18098
7	4	45.05	6185	65.09	9387	85.13	12579	105.16	15781	125.20	18976
7	5	50.90	7138	72.89	10582	94.86	14024	116.84	17470	138.82	20911
7	6	54.30	7399	77.39	10954	100.50	14504	123.60	18061	146.70	21610
7	7	57.68	7832	81.91	11528	106.13	15218	130.36	18915	154.59	22605
7	3	42.15	6646	61.22	10250	80.29	13848	99.37	17454	118.44	21050
7	4	45.05	6967	65.09	10713	85.13	14449	105.16	18198	125.20	21935
7	5	50.90	7932	72.89	11923	94.86	15911	116.84	19904	138.82	23890
7	6	54.30	8211	77.39	12324	100.50	16430	123.60	20543	146.70	24650
7	7	57.68	8887	81.91	13141	106.13	17388	130.36	21642	154.59	25887
8	4	49.37	7121	71.56	10503	93.76	13872	115.95	17257	138.14	20629
8	5	55.22	8102	79.36	11726	103.49	15348	127.63	18979	151.77	22606
8	6	58.61	8383	83.86	12122	109.13	15857	134.39	19604	159.64	23343
8	7	61.99	8831	88.38	12711	114.76	16586	141.15	20474	167.53	24353
8	8	69.78	9408	98.74	13341	127.70	17345	156.67	21314	185.63	25273
8	4	52.20	7096	75.77	10753	99.34	14397	122.90	18050	146.47	21701
8	5	58.09	8070	83.62	11965	109.14	15861	134.66	19760	160.19	23663
8	6	61.48	8308	88.12	12275	114.77	16241	141.43	20211	168.07	24185
8	7	64.86	8758	92.64	12865	120.41	16971	148.18	21082	175.95	25197
8	8	72.69	9329	103.06	13522	133.42	17719	163.79	21910	194.15	26100

BARREL QUANTITIES FOR 44'-0" CLEAR WIDTH

S	H	2 Span		3 Span		4 Span		5 Span		6 Span	
		ft	ft	Conc	Reinf.	Conc	Reinf.	Conc	Reinf.	Conc	Reinf.
8	4	55.02	8112	79.96	12389	104.90	16653	129.84	20928	154.78	25198
8	5	60.95	9112	87.87	13628	114.77	18144	141.68	22667	168.59	27190
8	6	64.34	9370	92.37	13957	120.41	18544	148.44	23138	176.47	27732
8	7	67.73	10013	96.88	14741	126.04	19468	155.20	24203	184.35	28937
8	8	75.59	10319	107.36	15134	139.12	19955	170.88	24771	202.64	29581
9	5	62.72	8803	90.56	12900	118.40	16999	146.24	21101	174.08	25262
9	6	66.12	9080	95.07	13288	124.04	17496	153.00	21709	181.96	25918
9	7	69.49	9529	99.58	13877	129.67	18226	159.76	22578	189.84	26929
9	8	77.32	10239	110.00	14748	142.68	19268	175.36	23788	208.04	28298
9	9	81.18	10707	115.15	15355	149.11	20015	183.08	24674	217.04	29326
9	5	69.10	8613	100.04	12805	130.97	16992	161.90	21187	192.84	25381
9	6	72.49	9184	104.54	13550	136.61	17910	168.67	22281	200.72	26649
9	7	75.87	9641	109.06	14148	142.24	18648	175.42	23160	208.61	27669
9	8	83.78	10230	119.58	14939	155.38	19660	191.19	24382	226.99	29091
9	9	87.64	10697	124.74	15548	161.82	20408	198.91	25271	235.99	30127
9	5	72.29	9639	104.78	14477	137.26	19312	169.74	24153	202.23	28992
9	6	75.68	10286	109.29	15356	142.90	20423	176.51	25497	210.11	30568
9	7	79.07	10756	113.80	15965	148.53	21173	183.26	26386	218.00	31598
9	8	87.01	11637	124.38	17073	161.74	22519	199.11	27966	236.47	33407
9	9	90.88	12133	129.53	17708	168.17	23295	206.83	28882	245.47	34463
10	6	74.27	10106	107.25	14769	140.25	19424	173.25	24079	206.23	28892
10	7	77.65	10709	111.77	15551	145.88	20386	180.00	25220	214.12	30213
10	8	85.51	11129	122.24	16041	158.96	20967	195.69	25890	232.41	30969
10	9	89.38	11838	127.39	16969	165.39	22112	203.40	27255	241.41	32554
10	10	93.26	12780	132.54	18128	171.83	23490	211.12	28851	250.41	34374
10	6	81.29	10815	117.70	16077	154.11	21324	190.53	26577	226.93	31996
10	7	84.67	11388	122.21	16790	159.75	22177	197.28	27569	234.82	33129
10	8	92.62	11818	132.79	17291	172.96	22776	213.13	28253	253.29	33899
10	9	104.11	12697	137.94	18378	179.39	24073	220.85	29759	262.29	35613
10	10	100.36	13646	143.09	19528	185.83	25422	228.56	31307	271.30	37363
10	6	88.32	11547	128.15	17201	167.99	22845	207.83	28485	247.66	34307
10	7	91.71	12322	132.67	18116	173.62	23899	214.58	29680	255.54	35642
10	8	99.73	12663	143.36	18529	186.97	24407	230.59	30278	274.21	36326
10	9	104.64	13537	148.51	19542	193.40	25560	238.31	31573	283.20	37761
10	10	107.48	14728	153.66	20973	199.85	27231	246.02	33481	292.21	39901

GENERAL NOTES:

The necessary details for adapting normal MULTI-  
PLE BOX CULVERT Standards, MC-5-1 through MC-10-3,  
to 30° Skew Culverts are shown on these sheets.  
Refer to the appropriate normal Standard for de-  
tails, dimensions, sections, notes and bar diagrams  
not shown hereon.

Quantities shown hereon are for 44'-0" Clear  
Width between headwalls measured perpendicular to  
the center line. Quantities of reinforcing steel  
are approximate. Quantities P.L.F. Barrel shown  
on normal MC Standards may be converted to P.L.F.  
Clear Width by Multiplying by 1.1547.

The number of variable length bars required:  
Bars A = 2X, Bars B = 4Y, Bars B1 = 2Y, and  
Bars B2 = 2Z.

Size of Bars H: #4 for Spans = 5'-6', #5 for  
Spans = 7'-9', #6 for Spans = 10'.



TEXAS HIGHWAY DEPARTMENT.  
BRIDGE DIVISION

MULTIPLE BOX CULVERT  
30° SKEW

MC-30°

Sheet 2 of 2

ORIGINAL DRAWING DATE: MAY, 1964	STATE FEDERAL DISTRICT/REGION	FEDERAL AID PROJECT	SHEET
BY: THD	REVISIONS	6	24
CHK:	COUNTY	CONTROL SECTION JOB	
DWF:			
CK:			