

Revision	By	Approved	Date
ORIGINAL		A Kercheval	12/75
Add Metric		T. Stanton	03/03
Reviewed		T. Stanton	04/06
Edited		T. Stanton	02/09
Edited	S.S.	T. Regallo	03/11

SPANS UP TO 5' (all measurements in feet and/or inches)

SPAN		2'		3'		4'			5'																
HEIGHT		1'-6"	2'	2'	3'	2'	3'	4'	2'	3'	4'	5'													
STRENGTH CLASSIFICATION		A	A	A	A	B	A	A	B	A	B	C	A	B	A	B	C	D	A	B	C	D			
MAX FILL OVER TOP		66		38	38	66	28	28	37	28	37	50	12	27	12	27	11	26	35	46	11	25	35	46	
CONC.	Top Slab	T ₁	6	6	6 1/4	6 1/4	8	7	7	8	7	8	9	7 1/2	8	7 1/2	8	7 1/2	8	9 1/2	10 1/2	7 1/2	8	9 1/2	10 1/2
	Bottom Slab	T ₂	6	6	6 1/4	6 1/4	8	7	7	8	7	8	9	6	8	6	8	10	10 3/4	6	8	10	10 3/4		
	Sidewalls	T ₃	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
Reinforcing Steel	"a"	Size Bar "	4	4	4	4	5	5	5	5	5	6	5	5	5	5	5	6	6	5	5	6	6		
		Spacing	3 1/2	3 1/2	3 1/2	3 1/2	4	5	5	4 1/2	5	4 1/2	5	4	4	4	4	5	4 1/2	4	4	5	4 1/2		
		Length	3-2	3-2	4-2	4-2	4-3	5-3	5-3	5-3	5-3	5-3	5-2	6-3	6-3	6-3	6-3	6-3	6-2	6-2	6-3	6-3	6-2	6-2	
"d" Dist. Bars	Top Slab-No. of	2	2	3	3	2	3	5	3	3	3	3	7	3	7	3	7	3	3	7	3	3			
	Bottom Slab-No. of	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3				
"e" Bars	Spacing	18	18	18	18	12 1/4	18	18	18	17	13	9 1/2	18	18	18	18	18	17	13	11	18	12	8 1/2	6 1/2	
Spacers	Number	12	12	12	12	12	12	12	14	14	14	14	14	14	14	14	14	16	16	16					
QUAN.	Concrete: C.Y. per lin. ft.	17	18	23	27	31	29	33	36	36	40	43	32	37	36	41	40	44	51	54	43	48	55	57	
	Reinf. lbs per lin. ft.	27	29	34	36	46	44	45	47	48	52	64	57	56	59	57	61	60	68	75	63	65	77	87	

NOTE

For boxes of height less than that shown in table, use next greater table height slabs, wall dimensions and reinforcing steel, and make necessary changes in bar lengths, number of spacers and quantities.

SAN DIEGO REGIONAL STANDARD DRAWING

SINGLE BOX CULVERT

DETAILS No.1

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

Chairperson R.C.E. 19246 Date *7/26/2012*

DRAWING NUMBER **D-76A**