

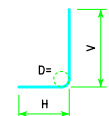
## VARIABLE DIMENSIONS AND QUANTITIES FOR TRIPLE 10 x 12 BARREL SECTIONS

DIMENSIONS																		BAR LIST																																							
FILL	S	H	A	B	C	D	E	R	T	U	W	X	Z	a1		a2		b1		b2		e1		e2		f1		f2		k1		k2		k3		k4		k6		k7																	
														SIZE	SP.	SIZE	SP.	SIZE	SP.	SIZE	SP.	NO.	SIZE	SP.	NO.	SIZE	SP.	NO.	SIZE	SP.	NO.	SIZE	SP.	NO.	SIZE	SP.	NO.	SIZE	SP.	NO.	SIZE	SP.	NO.	SIZE	SP.	NO.	SIZE	SP.	NO.	SIZE	SP.	NO.	SIZE	SP.	NO.	SIZE	SP.
0	10	12	13	11.5	12	9	9	0'-0	0'-0	6'-7	2'-7	4'-6	3'-10	4	9	13'-11	7	9	13'-11	4	6	48	4	6	50	4	12	27	4	18	24	4	12	33	4	18	24	6	18	33'-8	6	18	11'-4	6	18	11'-0	6	9	10'-5	6'-10	3'-7	5	18	33'-8	6	18	13'-2
1	10	12	12.5	11	12	9	9	0'-6	0'-3	6'-7	2'-7	3'-9	3'-11	4	9	13'-10	7	9	13'-10	4	6	48	4	6	50	4	12	27	4	18	24	4	12	33	4	18	24	6	18	33'-8	6	18	11'-1	6	18	10'-0	6	9	10'-5	6'-10	3'-7	5	18	33'-8	6	18	13'-2
2	10	12	9.5	10	12	9	9	0'-8	0'-9	6'-5	2'-1	3'-1	3'-6	5	12	13'-6	7	9	13'-6	4	6	48	4	6	50	4	12	27	4	18	24	4	12	33	4	18	24	6	18	33'-8	6	18	10'-7	6	18	9'-8	7	9	10'-6	6'-8	3'-10	4	9	33'-8	4	9	12'-10
3-6	10	12	9	10	12	9	9	2'-4	2'-1	5'-1	2'-1	2'-9	3'-10	4	9	13'-6	7	9	13'-6	4	6	48	4	6	50	4	12	27	4	18	24	4	12	33	4	18	24	5	9	33'-8	4	9	7'-10	4	9	6'-4	7	9	9'-10	6'-0	3'-10	5	12	33'-8	5	12	10'-4
7-8	10	12	8	10.5	12	9	9	2'-6	2'-1	3'-7	2'-1	2'-8	3'-5	5	12	13'-5	7	9	13'-5	4	6	48	4	6	50	4	12	27	4	18	24	4	12	33	4	18	24	5	12	33'-8	5	12	7'-7	4	12	6'-0	7	9	8'-2	4'-6	3'-8	5	12	33'-8	6	12	7'-2
9-10	10	12	9	11.5	12	6	9	2'-7	2'-1	3'-6	2'-1	2'-9	3'-8	4	6	13'-7	7	9	13'-7	4	6	48	4	6	50	4	12	27	4	18	24	4	12	33	4	18	24	5	12	33'-8	5	12	7'-10	4	12	5'-10	5	6	7'-2	4'-3	2'-11	5	12	33'-8	6	12	7'-0
11-12	10	12	9.5	12	12	6	9	2'-7	2'-1	3'-5	2'-6	3'-5	3'-6	4	6	13'-8	7	9	13'-8	4	6	48	4	6	50	4	12	27	4	18	24	4	12	33	4	18	24	5	12	33'-8	5	12	7'-10	4	12	5'-10	7	9	8'-3	4'-5	3'-10	5	12	33'-8	6	12	6'-11
13-15	10	12	11.5	14	12.5	6	9	2'-4	1'-7	3'-5	2'-4	3'-2	3'-7	4	6	14'-0	7	9	14'-0	4	6	48	4	6	50	4	12	27	4	18	24	4	12	33	4	18	24	6	18	33'-10	6	18	9'-0	6	18	6'-4	5	6	7'-7	4'-5	3'-2	5	12	33'-10	6	12	7'-0
16-17	10	12	12.5	15	13	9	6	2'-6	1'-9	3'-5	2'-2	3'-1	3'-7	6	12	14'-2	6	6	14'-2	4	6	48	4	6	50	4	12	27	4	18	24	4	12	33	4	18	24	5	12	34'-0	5	12	8'-9	5	12	6'-1	5	6	7'-8	4'-5	3'-3	5	12	34'-0	6	12	7'-0
18-19	10	12	13	15.5	13.5	9	6	3'-0	2'-1	3'-5	2'-0	3'-0	3'-7	6	9	14'-3	6	6	14'-3	4	6	48	4	6	50	4	12	27	4	18	24	4	12	33	4	18	24	5	9	34'-2	4	9	8'-2	4	9	5'-2	5	6	7'-8	4'-5	3'-3	5	12	34'-2	6	12	7'-1
20-21	10	12	14	16.5	14	9	9	2'-11	1'-11	3'-6	1'-9	3'-0	3'-8	6	9	14'-5	8	9	14'-5	4	6	48	4	6	50	4	12	27	4	18	24	4	12	33	4	18	24	5	9	34'-4	4	9	8'-7	4	9	5'-4	5	6	7'-10	4'-6	3'-4	5	12	34'-4	6	12	7'-3
22-23	10	12	14.5	17.5	14.5	6	9	2'-9	1'-9	3'-7	1'-7	2'-11	3'-8	4	6	14'-7	8	9	14'-7	4	6	48	4	6	50	4	12	27	4	18	24	4	12	33	4	18	24	5	9	34'-6	4	9	8'-11	4	9	5'-8	7	9	9'-0	4'-6	4'-6	4	12	34'-6	7	12	7'-4
24-25	10	12	16.5	18.5	15	6	9	2'-9	1'-4	3'-8	1'-6	2'-10	3'-10	4	6	14'-10	8	9	14'-10	4	6	48	4	6	50	4	12	27	4	18	24	4	12	33	4	18	24	5	9	34'-8	4	9	9'-10	4	9	5'-9	7	9	9'-4	4'-8	4'-8	5	18	34'-8	8	18	7'-8

BAR LIST																		QUANTITIES																
FILL	SIZE	SP.	L	k9		m1		m2		m3		m4		m6		m7		m9		CONCRETE (CY/FT)				STEEL										
				SIZE	SP.	SIZE	SP.	SIZE	SP.	SIZE	SP.	SIZE	SP.	SIZE	SP.	SIZE	SP.	SIZE	SP.	SIZE	SP.	SLAB	FLOOR	WALLS	TOTAL	(LB/FT)								
0	6	4.5	33'-8	5	12	34'-2	4	12	7'-2	4	12	7'-2	4	12	2'-0	6	9	21'-8	9'-3	12'-5	4	9	34'-2	4	9	7'-7	4	4.5	34'-2	1.462	1.315	1.715	4.492	589.42
1	6	4.5	33'-8	5	12	34'-2	4	12	7'-0	4	12	3'-6	6	9	18'-10	6'-6	12'-4	5	18	34'-2	7	18	7'-9	7	4.5	34'-2	1.410	1.262	1.715	4.387	582.42			
2	4	4.5	33'-8	5	12	34'-2	5	12	7'-8	4	12	4'-10	6	9	17'-6	5'-3	12'-3	4	9	34'-2	5	9	7'-0	5	4.5	34'-2	1.095	1.156	1.715	3.966	601.68			
3-6	5	4.5	33'-8	5	12	34'-2	5	12	7'-9	4	12	5'-6	7	9	17'-2	4'-11	12'-3	5	12	34'-2	6	12	7'-8	6	4.5	34'-2	1.043	1.156	1.715	3.914	633.61			
7-8	6	4.5	33'-8	5	12	34'-2	5	12	7'-10	4	12	5'-8	7	9	16'-10	4'-6	12'-4	5	12	34'-2	6	12	6'-10	6	4.5	34'-2	0.938	1.209	1.715	3.862	614.84			
9-10	6	4.5	33'-8	5	12	34'-2	5	12	7'-11	4	12	5'-6	5	6	16'-8	4'-3	12'-5	5	18	34'-2	8	18	7'-4	8	4.5	34'-2	1.043	1.315	1.715	4.073	579.79			
11-12	6	4.5	33'-8	5	9	34'-2	4	9	7'-4	4	9	4'-2	7	9	16'-10	4'-5	12'-5	4	12	34'-2	7	12	7'-1	7	4.5	34'-2	1.095	1.368	1.715	4.178	629.71			
13-15	6	4.5	33'-10	5	9	34'-4	4	9	7'-8	4	9	4'-8	5	6	17'-1	4'-6	12'-7	5	18	34'-4	8	18	7'-4	8	4.5	34'-4	1.314	1.591	1.715	4.692	601.18			
16-17	6	4.5	34'-0	5	9	34'-6	4	9	8'-3	4	9	4'-11	5	6	17'-2	4'-6	12'-8	5	18	34'-6	8	18	7'-4	8	4.5	34'-6	1.428	1.707	1.858	4.993	617.87			
18-19	6	4.5	34'-2	5	9	34'-8	4	9	8'-7	4	9	5'-2	5	6	17'-3	4'-6	12'-9	5	12	34'-8	6	12	7'-4	6	4.5	34'-8	1.491	1.771	1.929	5.191	643.71			
20-21	6	4.5	34'-4	6	12	34'-10	5	12	8'-11	4	12	5'-2	5	6	17'-5	4'-7	12'-10	5	12	34'-10	6	12	7'-6	6	4.5	34'-10	1.607	1.890	2.000	5.497	673.95			
22-23	7	4.5	34'-6	6	12	35'-0	5	12	9'-6	4	12	5'-4	7	9	17'-7	4'-8	12'-11	5	12	35'-0	6	12	7'-7	6	4.5	35'-0	1.671	2.009	2.072	5.752	701.26			
24-25	8	4.5	34'-8	6	12	35'-2	5	12	9'-9	4	12	5'-7	7	9	17'-8	4'-8	13'-0	5	12	35'-2	6	12	7'-10	6	4.5	35'-2	1.898	2.130	2.143	6.171	710.89			

### BENT BAR DETAIL

BARS	D
5	3/8
6	1/2
7	5/8



**k4 & m4**

NOTE:  
ALL DIMENSIONS ARE OUT TO OUT.  
D = PIN DIAMETER.

### NOTES:

1. DIMENSIONS LISTED ON THIS SHEET TO BE USED IN CONJUNCTION WITH SHEET TRRCB G2-12.
2. DIMENSIONS "A", "B", "C", "D", "E", AND "SP." LISTED IN THE BAR LIST ARE IN INCHES.

LATEST REVISION DATE	APPROVED BY BRIDGE ENGINEER	STANDARD DESIGN <b>TRIPLE REINFORCED CONCRETE BOX CULVERTS</b> APRIL, 2012  <b>CULVERT BARREL DETAILS</b> 10 x 12 BARREL SECTIONS	<b>TRRCB 10-12-12</b> SHEET 2 OF 2
----------------------	-----------------------------	--	---------------------------------------