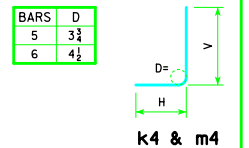


## VARIABLE DIMENSIONS AND QUANTITIES FOR TRIPLE 10 x 9 BARREL SECTIONS

DIMENSIONS																		BAR LIST																																																																					
																		a1					a2					b1					b2					e1					e2					f1					f2					k1					k2					k3					k4					k6					k7				
FILL	S	H	A	B	C	D	E	R	T	U	W	X	Z	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L																										
0	10	9	13	11	9	6	9	0'-0	0'-0	6'-5	2'-6	4'-4	4'-1	4	6	10'-11	6	9	10'-11	4	6	36	4	6	38	4	12	27	4	18	24	4	12	33	4	18	24	6	18	32'-8	6	18	10'-11	6	18	10'-9	5	9	9'-6	6'-3	3'-3	5	18	32'-8	6	18	12'-10																														
1	10	9	12.5	11	9	6	9	0'-6	0'-1	6'-5	2'-6	4'-4	3'-9	4	6	10'-10	6	9	10'-10	4	6	36	4	6	38	4	12	27	4	18	24	4	12	33	4	18	24	6	18	32'-8	6	18	10'-10	6	18	9'-9	5	9	9'-6	6'-3	3'-3	5	18	32'-8	6	18	12'-10																														
2	10	9	9	10	9	6	9	2'-0	1'-5	6'-0	2'-0	3'-4	3'-8	4	6	10'-6	6	9	10'-6	4	6	36	4	6	38	5	12	27	4	18	24	4	12	33	4	18	24	5	9	32'-8	4	9	8'-8	4	9	6'-9	6	9	8'-5	5'-2	3'-3	5	12	32'-8	5	12	12'-3																														
3-6	10	9	9	10	9	9	9	2'-3	1'-9	4'-11	2'-10	3'-8	3'-5	4	12	10'-6	6	9	10'-6	4	6	36	4	6	38	4	12	27	4	18	24	4	12	33	4	18	24	5	9	32'-8	4	9	8'-1	4	9	6'-3	5	6	7'-4	4'-5	2'-11	5	12	32'-8	5	12	11'-2																														
7-8	10	9	8	10.5	9	9	9	4'-2	2'-8	3'-5	2'-10	3'-7	3'-7	4	12	10'-5	6	9	10'-5	4	6	36	4	6	38	4	12	27	4	18	24	4	12	33	4	18	24	5	9	32'-8	4	9	6'-3	4	9	2'-5	5	6	6'-3	3'-5	2'-10	5	9	32'-8	5	9	7'-0																														
9-10	10	9	9	11	9	9	9	3'-7	2'-6	3'-3	2'-8	3'-6	3'-5	4	12	10'-7	6	9	10'-7	4	6	36	4	6	38	4	12	27	4	18	24	4	12	33	4	18	24	5	9	32'-8	4	9	6'-10	4	9	3'-7	5	6	6'-2	3'-3	2'-11	5	9	32'-8	5	9	6'-9																														
11-12	10	9	9.5	12	9	9	9	3'-6	2'-4	3'-3	2'-5	3'-7	3'-4	4	12	10'-8	6	9	10'-8	4	6	36	4	6	38	4	12	27	4	18	24	4	12	33	4	18	24	5	9	32'-8	4	9	7'-3	4	9	3'-9	5	6	6'-4	3'-2	3'-2	5	9	32'-8	5	9	6'-9																														
13-15	10	9	12	14	9	9	9	2'-10	1'-8	3'-5	2'-2	3'-11	3'-5	4	12	11'-1	6	9	11'-1	4	6	36	4	6	38	4	12	27	4	18	24	4	12	33	4	18	24	5	12	32'-8	5	12	8'-10	4	12	5'-1	6	9	7'-0	3'-6	3'-6	4	12	32'-8	7	12	7'-2																														
16-17	10	9	12.5	15	9.5	9	6	3'-4	2'-1	3'-4	2'-1	3'-10	3'-5	4	9	11'-2	5	6	11'-2	4	6	36	4	6	38	4	12	27	4	18	24	4	12	33	4	18	24	5	9	32'-10	4	9	8'-2	4	9	4'-2	6	9	6'-10	3'-3	3'-7	4	12	32'-10	7	12	7'-1																														
18-19	10	9	13.5	15.5	10	9	9	3'-4	1'-11	3'-4	1'-9	3'-9	3'-5	4	9	11'-4	7	9	11'-4	4	6	36	4	6	38	4	12	27	4	18	24	4	12	33	4	18	24	5	9	33'-0	4	9	8'-6	4	9	4'-2	6	9	7'-2	3'-7	3'-7	5	12	33'-0	6	12	7'-1																														
20-21	10	9	14.5	16.5	10.5	9	9	3'-3	1'-6	3'-5	1'-8	3'-7	3'-6	4	12	11'-6	7	9	11'-6	4	6	36	4	6	38	4	12	27	4	18	24	4	12	33	4	18	24	5	9	33'-2	4	9	9'-5	4	9	4'-4	5	6	6'-10	3'-5	3'-5	5	12	33'-2	6	12	7'-3																														
22-23	10	9	15.5	17.5	11	9	9	3'-2	1'-4	3'-6	1'-6	3'-6	3'-7	4	9	11'-8	7	9	11'-8	4	6	36	4	6	38	4	12	27	4	18	24	4	12	33	4	18	24	5	9	33'-4	4	9	9'-8	4	9	4'-7	6	9	7'-2	3'-5	3'-9	5	12	33'-4	6	12	7'-5																														
24-25	10	9	16.5	18.5	11.5	9	9	3'-0	1'-2	3'-7	1'-5	3'-4	3'-8	4	12	11'-10	7	9	11'-10	4	6	36	4	6	38	4	12	27	4	18	24	4	12	33	4	18	24	7	18	33'-6	6	18	10'-1	4	18	5'-0	5	6	7'-2	3'-7	3'-7	5	12	33'-6	6	12	7'-7																														

BAR LIST																		QUANTITIES																													
																		CONCRETE (CY/FT)										STEEL																			
FILL	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	SLAB	FLOOR	WALLS	TOTAL	(LB/FT)
0	6	4.5	32'-8	5	12	33'-2	4	12	7'-2	4	12	2'-1	5	9	17'-11	8'-7	9'-4	5	18	33'-2	7	18	8'-1	7	4.5	33'-2	1.405	1.219	0.952	3.576	492.18																
1	6	4.5	32'-8	5	12	33'-2	4	12	7'-2	4	12	2'-1	5	9	18'-3	8'-11	9'-4	4	9	7'-6	4	9	7'-6	4	4.5	33'-2	1.354	1.219	0.952	3.525	484.32																
2	5	4.5	32'-8	5	12	33'-2	5	12	7'-11	4	12	4'-1	5	9	14'-0	4'-9	9'-3	4	12	33'-2	6	12	7'-6	6	4.5	33'-2	0.998	1.115	0.952	3.065	509.47																
3-6	5	4.5	32'-8	5	9	33'-2	4	9	6'-4	4	9	3'-5	5	6	13'-2	3'-11	9'-3	4	9	33'-2	5	9	7'-0	5	4.5	33'-2	0.998	1.115	0.952	3.065	501.63																
7-8	5	4.5	32'-8	5	9	33'-2	4	9	6'-5	4	9	3'-7	5	6	12'-9	3'-5	9'-4	5	18	33'-2	8	18	7'-4	8	4.5	33'-2	0.896	1.167	0.952	3.015	502.05																
9-10	5	4.5	32'-8	5	9	33'-2	4	9	6'-11	4	9	3'-9	5	6	12'-7	3'-3	9'-4	4	12	33'-2	7	12	7'-0	7	4.5	33'-2	0.998	1.219	0.952	3.169	503.18																
11-12	5	4.5	32'-8	5	9	33'-2	4	9	7'-3	4	9	3'-7	5	6	12'-8	3'-3	9'-5	4	12	33'-2	7	12	7'-0	7	4.5	33'-2	1.049	1.322	0.952	3.323	505.97																
13-15	7	4.5	32'-8	5	9	33'-2	4	9	8'-1	4	9	2'-11	6	9	12'-11	3'-4	9'-7	5	18	33'-2	8	18	7'-3	8	4.5	33'-2	1.303	1.529	0.952	3.784	498.11																
16-17	7	4.5	32'-10	5	9	33'-4	4	9	8'-4	4	9	3'-2	6	9	13'-0	3'-4	9'-8	5	18	33'-4	8	18	7'-3	8	4.5	33'-4	1.364	1.642	1.004	4.010	513.05																
18-19	6	4.5	33'-0	6	12	33'-6	5	12	8'-9	4	12	3'-4	6	9	13'-1	3'-4	9'-9	4	12	33'-6	7	12	7'-2	7	4.5	33'-6	1.476	1.704	1.057	4.237	543.05																
20-21	6	4.5	33'-2	6	12	33'-8	5	12	9'-3	4	12	3'-8	5	6	13'-3	3'-5	9'-10	4	12	33'-8	7	12	7'-5	7	4.5	33'-8	1.589	1.816	1.113	4.518	544.61																
22-23	6	4.5	33'-4	6	12	33'-10	5	12	9'-7	4	12	3'-11	6	9	13'-5	3'-6	9'-11	4	12	33'-10	7	12	7'-7	7	4.5	33'-10	1.703	1.932	1.166	4.801	555.47																
24-25	6	4.5	33'-6	6	12	34'-0	5	12	9'-11	4	12	4'-4	5	6	13'-7	3'-7	10'-0	4	12	34'-0	7	12	7'-9	7	4.5	34'-0	1.818	2.049	1.218	5.085	560.66																

### BENT BAR DETAIL



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 9 BARREL SECTIONS	<b>TRRCB 10-9-12</b> SHEET 2 OF 2
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