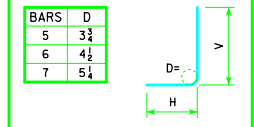


VARIABLE DIMENSIONS AND QUANTITIES FOR TRIPLE 12 x 12 BARREL SECTIONS

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.	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	12	12	14.5	12	12	9	9	0'-3	0'-0	7'-10	2'-9	4'-4	4'-4	4	12	14'-1	7	9	14'-1	4	6	48	4	6	50	4	12	33	5	17	30	4	12	39	4	17	30	5	12	39'-8	5	12	13'-4	5	12	12'-6	6	9	11'-4	7'-7	3'-9	5	18	39'-8	7	18	15'-8
1	12	12	13.5	11.5	12	9	9	0'-7	0'-3	7'-10	2'-9	4'-1	4'-3	5	12	14'-0	7	9	14'-0	4	6	48	4	6	50	4	12	33	4	17	30	4	12	39	4	17	30	6	12	39'-8	6	18	13'-1	6	18	11'-10	6	9	10'-2	7'-7	3'-7	5	18	39'-8	7	18	15'-8
2	12	12	10	10	12	9	9	2'-6	2'-0	6'-7	3'-4	4'-6	4'-3	4	12	13'-7	7	9	13'-7	4	6	48	4	6	50	4	12	33	4	17	30	4	12	39	4	17	30	6	12	39'-8	5	12	10'-3	4	12	8'-0	7	9	10'-2	6'-8	3'-11	5	18	39'-8	8	18	14'-10
3-6	12	12	10	11	12	9	9	2'-6	2'-1	5'-5	3'-1	4'-6	4'-3	4	9	13'-8	7	9	13'-8	4	6	48	4	6	50	4	12	33	4	17	30	4	12	39	4	17	30	6	12	39'-8	5	12	9'-10	4	12	8'-0	7	9	9'-10	5'-11	3'-11	5	12	39'-8	6	12	11'-3
7-8	12	12	9.5	11.5	12	9	9	3'-11	2'-11	4'-2	2'-11	4'-5	3'-11	4	9	13'-8	7	9	13'-8	4	6	48	4	6	50	4	12	33	4	17	30	4	12	39	4	17	30	6	12	39'-8	5	12	8'-3	4	12	5'-2	7	9	8'-6	4'-8	3'-10	5	12	39'-8	7	12	8'-6
9-10	12	12	11	13	12	9	9	3'-10	2'-9	4'-0	2'-8	4'-1	4'-0	5	9	13'-11	7	9	13'-11	4	6	48	4	6	50	4	12	33	4	17	30	4	12	39	4	17	30	5	9	39'-8	4	9	8'-9	4	9	5'-4	5	6	7'-7	4'-6	3'-1	4	9	39'-8	6	9	8'-2
11-12	12	12	14.5	12	9	9	3'-8	2'-7	4'-0	2'-8	3'-11	3'-11	6	9	14'-1	7	9	14'-1	4	6	48	4	6	50	4	12	33	4	17	30	4	12	39	4	17	30	5	9	39'-8	4	9	9'-1	4	9	5'-8	5	6	7'-10	4'-5	3'-2	5	12	39'-8	7	12	8'-3	
13-15	12	12	13.5	16	12.5	9	9	3'-8	2'-5	4'-0	2'-3	3'-8	4'-0	6	9	14'-4	7	9	14'-4	4	6	48	4	6	50	4	12	33	4	17	30	4	12	39	4	17	30	6	12	39'-10	5	12	9'-10	4	12	5'-8	5	6	7'-10	4'-6	3'-4	5	12	39'-10	7	12	8'-4
16-17	12	12	14.5	17	13	9	6	3'-7	2'-3	4'-0	2'-1	3'-6	4'-1	5	12	14'-6	6	6	14'-6	4	6	48	4	6	50	4	12	33	4	17	30	4	12	39	4	17	30	6	12	40'-0	5	12	10'-2	4	12	5'-11	7	9	9'-0	4'-6	4'-6	5	12	40'-0	7	12	8'-4
18-19	12	12	15.5	18	13.5	9	6	3'-3	1'-8	4'-1	1'-8	3'-5	4'-2	5	12	14'-8	6	6	14'-8	4	6	48	4	6	50	4	12	33	4	17	30	4	12	39	4	17	30	7	18	40'-2	7	18	11'-5	6	18	6'-8	7	9	9'-0	4'-6	4'-6	5	12	40'-2	7	12	8'-6
20-21	12	12	16.5	19	14	9	9	3'-2	1'-7	4'-2	1'-7	3'-4	4'-3	5	12	14'-10	8	9	14'-10	4	6	48	4	6	50	4	12	33	4	17	30	4	12	39	4	17	30	7	18	40'-4	7	18	11'-8	6	18	6'-10	6	8	8'-6	4'-7	3'-11	5	12	40'-4	7	12	8'-8
22-23	12	12	17.5	20	14.5	6	9	3'-1	1'-5	4'-2	1'-7	3'-4	4'-4	4	6	15'-0	8	9	15'-0	4	6	48	4	6	50	4	12	33	4	17	30	4	12	39	4	17	30	7	18	40'-6	7	18	12'-0	6	18	7'-0	7	9	9'-2	4'-7	4'-7	5	12	40'-6	7	12	8'-9
24-25	12	12	18.5	21.5	15	6	9	3'-1	1'-1	4'-3	1'-1	3'-3	4'-5	4	6	15'-3	8	9	15'-3	4	6	48	4	6	50	4	12	33	4	17	30	5	12	39	4	17	30	5	9	40'-8	5	9	12'-7	4	9	7'-1	7	9	9'-4	4'-8	4'-8	5	9	40'-8	6	9	8'-11

BAR LIST																		QUANTITIES													
FILL	SIZE	SP.	L	m1		m2		m3		m4		m6		m7		m9		CONCRETE (CY/FT)				STEEL									
				SIZE	SP.	L	SIZE	SP.	L	SIZE	SP.	L	H	V	SIZE	SP.	L	SIZE	SP.	L	SLAB	FLOOR	WALLS	TOTAL							
0	7	4.5	39'-8	5	12	40'-2	5	12	9'-3	4	12	4'-4	7	9	19'-8	7'-3	12'-5	4	9	40'-2	5	9	8'-8	5	4.5	40'-2	1.888	1.591	1.715	5.194	707.24
1	7	4.5	39'-8	5	12	40'-2	5	12	8'-10	4	12	4'-10	6	9	18'-8	6'-3	12'-5	4	9	40'-2	5	9	8'-6	5	4.5	40'-2	1.765	1.528	1.715	5.008	668.92
2	8	4.5	39'-8	6	12	40'-2	5	12	7'-5	4	12	4'-0	7	9	17'-5	5'-2	12'-3	5	12	40'-2	7	12	8'-6	7	4.5	40'-2	1.333	1.341	1.715	4.389	747.74
3-6	6	4.5	39'-8	6	12	40'-2	5	12	7'-10	4	12	4'-0	7	9	17'-5	5'-1	12'-4	5	12	40'-2	7	12	8'-6	7	4.5	40'-2	1.333	1.466	1.715	4.514	739.95
7-8	7	4.5	39'-8	6	12	40'-2	5	12	8'-4	4	12	4'-2	7	9	17'-0	4'-7	12'-5	5	9	40'-2	6	9	7'-11	6	4.5	40'-2	1.271	1.528	1.715	4.514	737.39
9-10	6	4.5	39'-8	6	12	40'-2	5	12	9'-0	4	12	4'-10	5	6	17'-0	4'-6	12'-6	5	12	40'-2	7	12	8'-2	7	4.5	40'-2	1.456	1.716	1.715	4.887	686.92
11-12	7	4.5	39'-8	6	12	40'-2	5	12	9'-2	4	12	5'-2	5	6	17'-3	4'-7	12'-8	4	9	40'-2	6	9	8'-1	6	4.5	40'-2	1.580	1.903	1.715	5.198	708.00
13-15	7	4.5	39'-10	5	9	40'-4	5	9	10'-3	4	9	5'-8	5	6	17'-4	4'-7	12'-9	5	12	40'-4	7	12	8'-4	7	4.5	40'-4	1.775	2.101	1.715	5.663	736.32
16-17	7	4.5	40'-0	5	9	40'-6	5	9	10'-11	4	9	6'-1	7	9	17'-5	4'-7	12'-10	5	12	40'-6	7	12	8'-6	7	4.5	40'-6	1.909	2.237	1.858	6.004	766.79
18-19	7	4.5	40'-2	5	9	40'-8	5	9	11'-7	4	9	6'-4	7	9	17'-6	4'-7	12'-11	5	12	40'-8	7	12	8'-8	7	4.5	40'-8	2.044	2.375	1.929	6.348	782.29
20-21	7	4.5	40'-4	5	9	40'-10	5	9	11'-10	4	9	6'-6	6	6	17'-8	4'-8	13'-0	5	12	40'-10	7	12	8'-10	7	4.5	40'-10	2.180	2.513	2.000	6.693	812.89
22-23	7	4.5	40'-6	6	12	41'-0	6	12	12'-1	5	12	6'-6	7	9	17'-9	4'-8	13'-1	5	9	41'-0	6	9	9'-1	6	4.5	41'-0	2.318	2.652	2.072	7.042	841.21
24-25	6	4.5	40'-8	6	12	41'-2	6	12	12'-8	4	12	6'-9	7	9	18'-1	4'-10	13'-3	5	12	41'-2	7	12	9'-4	7	4.5	41'-2	2.456	2.857	2.143	7.456	860.24

BENT BAR DETAIL



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 TRIPLE REINFORCED CONCRETE BOX CULVERTS APRIL, 2012 CULVERT BARREL DETAILS 12 x 12 BARREL SECTIONS	TRRCB 12-12-12 SHEET 2 OF 2
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