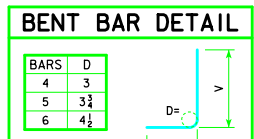


TRIPLE 10 x 5 BARREL SECTION



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.

k4 & m4
NOTE: ALL DIMENSIONS ARE OUT TO OUT. D = PIN DIAMETER.

VARIABLE DIMENSIONS AND QUANTITIES FOR TRIPLE 10 x 5 BARREL SECTIONS

DIMENSIONS													BAR LIST														CONCRETE (CY/FT)			STEEL (LB/FT)																											
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	SLAB	FLOOR	WALLS	TOTAL																			
0	10	5	13	10.5	9	6	9	0'-0	0'-0	6'-5	2'-10	4'-4	3'-11	4	6	6'-10	6	9	6'-10	4	6	20	4	6	22	4	12	27	4	18	24	4	12	33	4	18	24	6	18	32'-8	6	18	10'-11	5	18	10'-9	4	6	6'-6	3'-3	3'-3	5	18	32'-8	6	18	12'-10
1	10	5	12.5	10	9	6	9	0'-7	0'-0	6'-5	2'-9	4'-4	3'-10	4	6	6'-9	6	9	6'-9	4	6	20	4	6	22	4	12	27	4	18	24	4	12	33	4	18	24	6	18	32'-8	6	18	10'-11	5	18	9'-7	4	6	6'-6	3'-3	3'-3	5	18	32'-8	6	18	12'-10
2	10	5	9.5	10	9	6	9	0'-11	0'-9	4'-11	2'-2	3'-3	3'-9	4	6	6'-6	6	9	6'-6	4	6	20	4	6	22	4	12	27	4	18	24	4	12	33	4	18	24	6	18	32'-8	6	18	10'-2	5	18	8'-11	5	6	6'-0	3'-0	3'-0	4	9	32'-8	4	9	11'-2
3-6	10	5	9	10	9	6	9	1'-7	1'-2	4'-4	2'-4	3'-2	3'-6	4	6	6'-6	6	9	6'-6	4	6	20	4	6	22	4	12	27	4	18	24	4	12	33	4	18	24	5	12	32'-8	5	12	9'-4	4	12	7'-7	5	6	5'-10	2'-11	2'-11	5	12	32'-8	5	12	9'-6
7-8	10	5	8	10	9	6	9	2'-9	2'-0	3'-6	2'-1	3'-0	3'-4	4	12	6'-5	6	9	6'-5	4	6	20	4	6	22	4	12	27	4	18	24	4	12	33	4	18	24	5	12	32'-8	5	12	7'-7	4	12	5'-3	5	6	5'-8	2'-10	2'-10	5	12	32'-8	6	12	7'-1
9-10	10	5	9	10.5	9	6	9	0'-8	2'-1	3'-5	2'-9	3'-7	3'-2	4	12	6'-6	6	9	6'-6	4	6	20	4	6	22	4	12	27	4	18	24	4	12	33	4	18	24	5	12	32'-8	5	12	7'-8	4	12	5'-5	5	6	5'-6	2'-7	2'-11	5	12	32'-8	6	12	6'-11
11-12	10	5	9.5	12	9	6	9	2'-7	2'-0	3'-5	1'-9	3'-2	3'-3	4	6	6'-8	6	9	6'-8	4	6	20	4	6	22	4	12	27	4	18	24	4	12	33	4	18	24	5	12	32'-8	5	12	8'-1	4	12	5'-7	5	6	5'-6	2'-6	3'-0	4	12	32'-8	7	12	7'-1
13-15	10	5	11.5	13.5	9	6	9	3'-0	1'-9	3'-5	2'-4	4'-2	3'-3	5	12	7'-0	6	9	7'-0	4	6	20	4	6	22	4	12	27	4	18	24	4	12	33	4	18	24	5	12	32'-8	5	12	8'-8	4	12	4'-9	4	6	5'-4	2'-3	3'-1	4	12	32'-8	7	12	7'-1
16-17	10	5	12.5	14.5	9	6	9	4'-0	1'-10	3'-4	1'-10	4'-4	3'-4	4	9	7'-2	6	9	7'-2	4	6	20	4	6	22	4	12	27	4	18	24	4	12	33	4	18	24	5	9	32'-8	4	9	8'-5	4	9	2'-9	4	6	5'-5	2'-3	3'-2	4	12	32'-8	7	12	7'-1
18-19	10	5	13.5	15.5	9	6	9	4'-1	1'-8	3'-4	1'-8	3'-11	3'-4	4	12	7'-4	6	9	7'-4	4	6	20	4	6	22	4	12	27	4	18	24	4	12	33	4	18	24	5	9	32'-8	4	9	9'-1	4	9	2'-7	6	12	5'-10	2'-3	3'-7	4	12	32'-8	7	12	7'-1
20-21	10	5	14.5	16.5	9	6	9	4'-1	1'-6	3'-4	1'-8	4'-3	3'-5	4	12	7'-6	6	9	7'-6	4	6	20	4	6	22	4	12	27	4	18	24	4	12	33	4	18	24	5	9	32'-8	4	9	9'-5	4	9	2'-7	6	12	6'-0	2'-4	3'-8	4	12	32'-8	7	12	7'-2
22-23	10	5	15	17.5	9	6	9	4'-2	1'-6	3'-5	1'-6	4'-3	3'-6	4	12	7'-7	6	9	7'-7	4	6	20	4	6	22	4	12	27	4	18	24	4	12	33	4	18	24	6	12	32'-8	5	12	9'-5	4	12	2'-5	6	12	6'-1	2'-4	3'-9	5	9	32'-8	5	9	7'-4
24-25	10	5	16.5	18.5	9	6	9	4'-4	1'-0	3'-6	1'-1	4'-3	3'-6	4	12	7'-10	6	9	7'-10	4	6	20	4	6	22	4	12	27	4	18	24	4	12	33	4	18	24	6	12	32'-8	5	12	9'-11	4	12	2'-1	6	12	6'-3	2'-5	3'-10	4	12	32'-8	7	12	7'-7

ENGLISH DESIGN/ TRIPLE CULVERTS.DGN - TRRCB 10-5-12 - THIS SHEET ISSUED 04-12.

LATEST REVISION DATE
Thomas E. McQuill
APPROVED BY BRIDGE ENGINEER

Iowa Department of Transportation
Highway Division

STANDARD DESIGN
TRIPLE REINFORCED CONCRETE BOX CULVERTS
APRIL, 2012

CULVERT BARREL DETAILS
10 x 5 BARREL SECTIONS

TRRCB 10-5-12