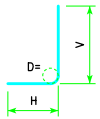
VARIABLE DIMENSIONS AND QUANTITIES FOR 6 x 8 BARREL SECTIONS

DIMENSIONS							BAR LIST																																				QUANTITIES				
							a1			b1			e1			e2			f1			f2			k1			k2				k9		m1			m2					m9		CONCRETE (CY/FT)				STEEL
FILL	S	H	A	B	C	D	SIZE	SP.	L	SIZE	SP.	NO.	SIZE	SP.	NO.	SIZE	SP.	NO.	SIZE	SP.	NO.	SIZE	SP.	NO.	SIZE	SP.	L	SIZE	SP.	L	H	V	SIZE	L	SIZE	SP.	L	SIZE	SP.	L	H	V	SIZE	L	SLAB	FLOOR	WALLS	TOTAL	(LB/FT)
0	6	8	10.5	10	9	9	4	12	9'-7	4	6	32	5	12	5	4	14	6	4	12	7	4	14	6	6	9	7'-2	4	6	7'-7	4'-6	3'-1	--	--	6	9	7'-8	4	6	12'-9	4'-6	8'-3	--	--	0.275	0.284	0.424	0.983	138.18
1	6	8	9	10	9	9	4	12	9'-6	4	6	32	5	12	5	4	14	6	4	12	7	4	14	6	6	9	7'-2	4	6	7'-5	4'-6	2'-11	--	--	6	9	7'-8	4	6	12'-9	4'-6	8'-3	--	--	0.241	0.284	0.424	0.949	137.63
2	6	8	8	10	9	9	4	12	9'-5	4	6	32	5	12	5	4	14	6	4	12	7	4	14	6	6	9	7'-2	4	6	7'-4	4'-6	2'-10	--	--	5	6	7'-8	4	6	12'-9	4'-6	8'-3	--	--	0.218	0.284	0.424	0.926	137.45
3	6	8	8	10	9	9	4	12	9'-5	4	6	32	4	12	5	4	14	6	4	12	7	4	14	6	6	9	7'-2	4	6	7'-4	4'-6	2'-10	--	--	6	9	7'-8	4	6	12'-9	4'-6	8'-3	--	--	0.218	0.284	0.424	0.926	135.45
4-8	6	8	8	10	9	9	4	12	9'-5	4	6	32	4	12	5	4	14	6	4	12	7	4	14	6	5	9	7'-2	4	6	7'-4	4'-6	2'-10	--	--	6	9	7'-8	4	6	12'-9	4'-6	8'-3	--	--	0.218	0.284	0.424	0.926	130.84
9-10	6	8	8	10	9	9	4	12	9'-5	4	6	32	4	12	5	4	14	6	4	12	7	4	14	6	4	6	7'-2	4	6	5'-10	2'-11	2'-11	4	7'-2	6	9	7'-8	4	6	11'-2	2'-11	8'-3	4	7'-8	0.218	0.284	0.424	0.926	122.32
11-15	6	8	8	10	9	9	4	9	9'-5	4	6	32	4	12	5	4	13	6	4	12	7	4	13	6	6	9	7'-2	4	6	5'-8	2'-10	2'-10	4	7'-2	5	6	7'-8	4	6	11'-1	2'-10	8'-3	4	7'-8	0.218	0.284	0.424	0.926	131.08
16-20	6	8	8	10	9	9	5	12	9'-5	4	6	32	4	12	5	4	13	6	4	12	7	4	13	6	5	6	7'-2	5	9	5'-8	2'-10	2'-10	5	7'-2	5	6	7'-8	5	9	11'-1	2'-10	8'-3	5	7'-8	0.218	0.284	0.424	0.926	138.13
21-25	6	8	8	10	9.5	9	4	9	9'-5	4	6	32	4	12	5	4	13	6	4	12	7	4	13	6	7	9	7'-3	6	9	6'-0	2'-10	3'-2	6	7'-3	6	6	7'-9	6	9	11'-2	2'-11	8'-3	6	7'-9	0.221	0.287	0.447	0.955	171.32
26-30	6	8	8.5	11	10.5	9	4	9	9'-6	4	6	32	4	12	5	4	12	6	4	12	7	4	13	6	7	9	7'-5	6	9	6'-1	2'-10	3'-3	6	7'-5	6	6	7'-11	6	9	11'-3	2'-11	8'-4	6	7'-11	0.240	0.318	0.496	1.054	173.18
31-35	6	8	9.5	12	11.5	9	5	12	9'-8	4	6	32	4	12	5	4	13	6	4	12	7	4	12	6	7	9	7'-7	5	6	6'-0	3'-0	3'-0	5	7'-7	6	6	8'-1	5	6	11'-4	2'-11	8'-5	5	8'-1	0.271	0.352	0.542	1.165	178.13
36-40	6	8	10	12.5	12.5	9	5	12	9'-9	4	6	32	4	12	5	4	12	6	4	12	7	4	12	6	6	6	7'-9	5	6	6'-0	3'-0	3'-0	5	7'-9	6	6	8'-3	5	6	11'-5	2'-11	8'-6	5	8'-3	0.291	0.373	0.589	1.253	181.13
41-45	6	8	11	13.5	13	6	4	6	9'-11	4	6	32	4	12	5	4	13	6	4	12	7	4	13	6	6	6	7'-10	5	6	6'-2	3'-1	3'-1	5	7'-10	6	6	8'-4	5	6	11'-8	3'-1	8'-7	5	8'-4	0.320	0.404	0.613	1.337	189.05
46-50	6	8	11.5	14	14	6	4	6	10'-0	4	6	32	4	12	5	4	12	6	4	12	7	4	12	6	8	9	8'-0	6	9	6'-6	3'-0	3'-6	6	8'-0	8	9	8'-6	6	9	11'-8	3'-1	8'-7	6	8'-6	0.341	0.427	0.659	1.427	202.66
51-55	6	8	12	15	14.5	6	4	6	10'-2	4	6	32	4	12	5	4	12	6	4	12	7	4	13	6	8	9	8'-1	6	9	6'-7	3'-1	3'-6	6	8'-1	8	9	8'-7	6	9	11'-11	3'-3	8'-8	6	8'-7	0.358	0.459	0.683	1.500	205.13

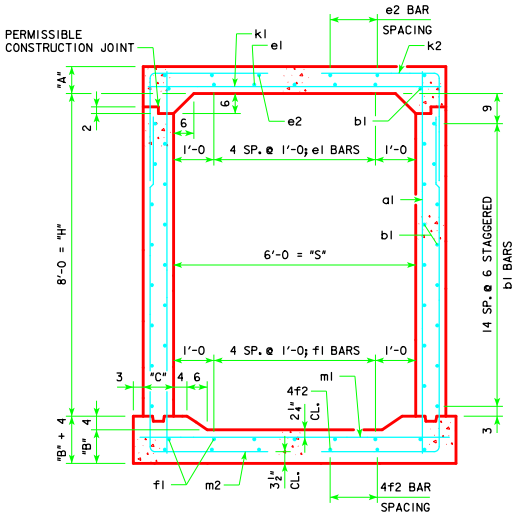
BENT BAR DETAIL

BARS	D
4	3
5	$3\frac{3}{4}$
6	$4\frac{1}{2}$



k2 & m2

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



6 x 8 BARREL SECTION

NOTES:

1. DIMENSIONS LISTED ON THIS SHEET TO BE USED IN CONJUNCTION WITH SHEET RCB G2-12.
2. THE K2 AND m2 BARS HORIZONTAL LEGS MAY LAP IN LOW FILL SITUATIONS.
3. DIMENSIONS "A", "B", "C", "D", AND "SP." LISTED IN THE BAR LIST ARE IN INCHES.

LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER

Iowa Department of Transportation
Highway Division

STANDARD DESIGN

SINGLE REINFORCED CONCRETE BOX CULVERTS

APRIL, 2012

CULVERT BARREL DETAILS

6 x 8 BARREL SECTIONS

RCB 6-8-12

ENGLISH_REDESIGNEDSINGLECULVERTS.DGN - RCB 6-8-12 - THIS SHEET ISSUED 04-12.