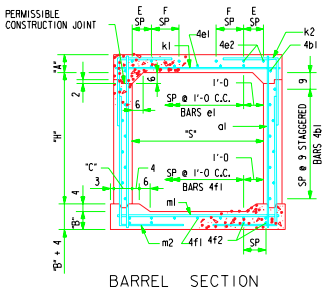
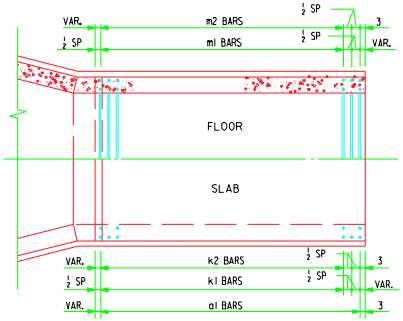
VARIABLE DIMENSIONS AND QUANTITIES FOR BARREL SECTIONS

DIMENSIONS							BAR LIST																																	QUANTITIES				
							a1			b1			e1			e2			f1			f2			k1			m1			k2					m2				CONCRETE YD³/FT				STEEL
FILL	S	H	A	B	C	D	SIZE	SP	L	SIZE	SP	NO.	SIZE	SP	NO.	SIZE	SPACING E	SPACING F	NO.	SIZE	SP	NO.	SIZE	SP	NO.	SIZE	SP	L	SIZE	SP	L	SIZE	SP	L	h	v	SIZE	SP	L	h	v	SLAB	FLOOR	WALLS	TOTAL	LBS/FT
0	3	3	10	10	9	6	4	6	4'-7	4	9	8	4	12	2	4	12	-	4	4	12	4	4	13	4	5	12	4'-2	4	12	4'-8	5	12	5'-10	2'-9	3'-1	5	12	5'-2	1'-11	3'-3	.171	.192	.145	.508	59.08
1	3	3	9.5	10	9	6	4	6	4'-6	4	9	8	4	12	2	4	9	-	4	4	12	4	4	13	4	5	12	4'-2	4	9	4'-8	5	12	4'-8	1'-7	3'-1	5	12	5'-2	1'-11	3'-3	.164	.192	.145	.501	57.76
2	3	3	8	10	9	9	4	12	4'-5	4	9	8	4	12	2	4	9	-	4	4	12	4	4	9	4	4	9	4'-2	4	9	4'-8	4	6	4'-6	1'-7	2'-11	4	6	4'-6	1'-7	2'-11	.144	.192	.145	.481	53.24
3	3	3	8	10	9	9	4	12	4'-5	4	9	8	4	12	2	4	9	-	4	4	12	4	4	9	4	4	12	4'-2	4	12	4'-8	4	6	4'-6	1'-7	2'-11	4	6	4'-6	1'-7	2'-11	.144	.192	.145	.481	51.37
4 - 8	3	3	8	10	9	9	4	12	4'-5	4	9	8	4	12	2	4	9	-	4	4	12	4	4	9	4	4	12	4'-2	4	12	4'-8	4	6	4'-6	1'-7	2'-11	4	6	4'-6	1'-7	2'-11	.144	.192	.145	.481	51.37
9 - 10	3	3	8	10	9	9	4	12	4'-5	4	9	8	4	12	2	4	9	-	4	4	12	4	4	9	4	4	12	4'-2	4	12	4'-8	4	6	4'-6	1'-7	2'-11	4	6	4'-6	1'-7	2'-11	.144	.192	.145	.481	51.37
11 - 15	3	3	8	10	9	9	4	12	4'-5	4	9	8	4	12	2	4	9	-	4	4	12	4	4	9	4	4	12	4'-2	4	12	4'-8	4	6	4'-6	1'-7	2'-11	4	6	4'-6	1'-7	2'-11	.144	.192	.145	.481	51.37
16 - 20	3	3	8	10	9	9	4	12	4'-5	4	9	8	4	12	2	4	9	-	4	4	12	4	4	9	4	4	9	4'-2	4	9	4'-8	4	6	4'-6	1'-7	2'-11	4	6	4'-6	1'-7	2'-11	.144	.192	.145	.481	53.24
21 - 25	3	3	8	10	9	9	4	12	4'-5	4	9	8	4	12	2	4	9	-	4	4	12	4	4	9	4	4	9	4'-2	4	9	4'-8	4	6	4'-6	1'-7	2'-11	4	6	4'-6	1'-7	2'-11	.144	.192	.145	.481	53.24

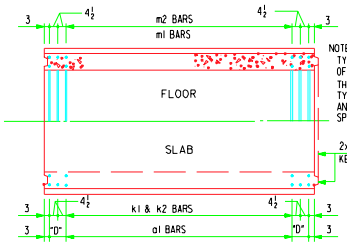


BARREL SECTION



PLAN - 0° SKEW

(KEYWAY NOT SHOWN)



NOTE:
TYPICAL FOR LENGTHS OF 38', 35', 32', 29', AND 26'. THESE LENGTHS ARE SHOWN AS TYPICAL BECAUSE ALL TRANSVERSE AND VERTICAL REINFORCING STEEL SPACING REPEATS IN 3' INTERVALS.

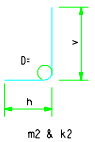
2x4 BEVELED KEYWAY

STANDARD SECTION PLAN VIEW

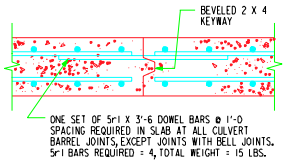
(KEYWAY IS TO BE OMITTED WHEN BELL JOINTS ARE USED)

BENT BAR DETAIL

BARS	D
4	3
5	3¾
6	4½
7	5¼
8	6
9	9½



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



TOP SLAB CONSTRUCTION JOINT DETAIL

NOTES:

1. SEE DRAWING RCB-G1-87 FOR GENERAL INFORMATION, SPECIFICATIONS, AND DESIGN STRESSES.

LATEST REVISION DATE : 8-1-89

APPROVED BY :

STANDARD DESIGN

CULVERT BARREL DETAILS

FOR
REINFORCED CONCRETE BOX CULVERTS

HIGHWAY DIVISION
IOWA DEPARTMENT OF TRANSPORTATION

AUGUST ,1989

RCB 3-1-89

REVISED: 8/89 THIS SHEET ADDED TO RCB CULVERT STANDARDS.
RCB3181.501

XXXXXXXXXXSYSTEMTIME XXXXXXXXUSERNAME XXXXXXXXXX