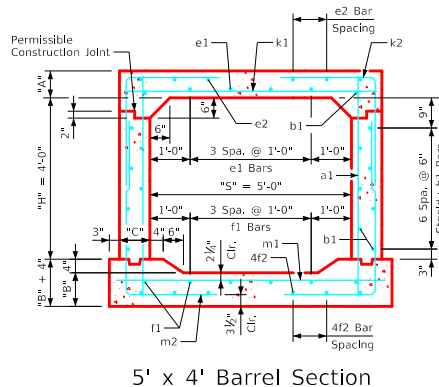
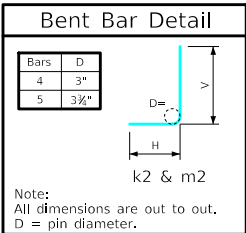


### Variable Dimensions and Quantities for 5' x 4' Barrel Sections

Dimensions										Bar List																		Quantities																					
Fill	S	H	A	B	C	D	a1			b1			e1			e2			f1			f2			k1			k2			k9			m1		m2		m9		Concrete (CY/FT)				Steel (LB/FT)					
							Size	Sp.	L	Size	Sp.	No.	Size	Sp.	No.	Size	Sp.	No.	Size	Sp.	No.	Size	Sp.	No.	Size	Sp.	No.	Size	Sp.	L	Size	Sp.	L	Size	Sp.	L	Size	Sp.	L	Slab	Floor	Walls	Total						
0	5	4	10	10	9	9	4	9	5'-7	4	6	16	4	12	4	4	11	6	4	12	6	4	12	6	4	6	6'-2	5	12	7'-4	4'-1	3'-3	-	-	4	6	6'-8	5	12	6'-10	2'-7	4'-3	5	6'-8	0.233	0.253	0.202	0.688	84.79
1	5	4	8	10	9	9	4	9	5'-5	4	6	16	4	12	4	4	11	6	4	12	6	4	12	6	4	6	6'-2	5	12	7'-2	4'-1	3'-1	-	-	4	6	6'-8	5	12	6'-11	2'-8	4'-3	5	6'-8	0.193	0.253	0.202	0.648	84.34
2	5	4	8	10	9	9	4	9	5'-5	4	6	16	4	12	4	4	12	6	4	12	6	4	12	6	4	6	6'-2	5	12	5'-8	2'-7	3'-1	5	6'-2	4	6	6'-8	5	12	6'-8	2'-5	4'-3	5	6'-8	0.193	0.253	0.202	0.648	80.74
3-4	5	4	8	10	9	9	4	9	5'-5	4	6	16	4	12	4	4	10	6	4	12	6	4	10	6	4	9	6'-2	5	12	5'-5	2'-4	3'-1	5	6'-2	4	6	6'-8	5	12	6'-6	2'-3	4'-3	5	6'-8	0.193	0.253	0.202	0.648	77.18
5-8	5	4	8	10	9	9	4	9	5'-5	4	6	16	4	12	4	4	10	6	4	12	6	4	10	6	4	9	6'-2	5	12	5'-5	2'-4	3'-1	5	6'-2	4	6	6'-8	5	12	6'-6	2'-3	4'-3	5	6'-8	0.193	0.253	0.202	0.648	77.18
9-10	5	4	8	10	9	9	4	9	5'-5	4	6	16	4	12	4	4	10	6	4	12	6	4	10	6	4	9	6'-2	5	12	5'-4	2'-3	3'-1	5	6'-2	4	6	6'-8	5	12	6'-4	2'-1	4'-3	5	6'-8	0.193	0.253	0.202	0.648	75.32
11-15	5	4	8	10	9	9	4	9	5'-5	4	6	16	4	12	4	4	10	6	4	12	6	4	10	6	4	9	6'-2	5	12	5'-4	2'-3	3'-1	5	6'-2	4	6	6'-8	5	12	6'-4	2'-1	4'-3	5	6'-8	0.193	0.253	0.202	0.648	77.92
16-20	5	4	8	10	9	9	4	9	5'-5	4	6	16	4	12	4	4	10	6	4	12	6	4	10	6	4	9	6'-2	5	12	5'-4	2'-3	3'-1	5	6'-2	6	9	6'-8	5	12	6'-4	2'-1	4'-3	5	6'-8	0.193	0.253	0.202	0.648	82.87
21-25	5	4	8	10	9	9	4	9	5'-5	4	6	16	4	12	4	4	10	6	4	12	6	4	10	6	4	9	6'-2	5	12	5'-4	2'-3	3'-1	5	6'-2	5	6	6'-8	5	12	6'-4	2'-1	4'-3	5	6'-8	0.193	0.253	0.202	0.648	87.55
26-30	5	4	8	10	9	9	4	9	5'-5	4	6	16	4	12	4	4	10	6	4	12	6	4	10	6	4	9	6'-2	5	12	5'-4	2'-3	3'-1	5	6'-2	5	6	6'-8	5	12	6'-4	2'-1	4'-3	5	6'-8	0.193	0.253	0.202	0.648	89.16
31-35	5	4	8	10.5	9	9	4	9	5'-5	4	6	16	4	12	4	4	10	6	4	12	6	4	10	6	4	9	6'-2	4	6	4'-9	2'-0	2'-9	4	6'-2	5	6	6'-8	4	6	6'-1	1'-10	4'-3	4	6'-8	0.193	0.253	0.202	0.648	89.16
36-40	5	4	8.5	11	9	9	4	9	5'-6	4	6	16	4	12	4	4	10	6	4	12	6	4	10	6	4	9	6'-2	4	6	4'-9	2'-0	2'-9	4	6'-2	6	6	6'-8	4	6	6'-2	1'-10	4'-4	4	6'-8	0.203	0.274	0.202	0.679	101.47
41-45	5	4	9.5	11.5	9	9	4	9	5'-8	4	6	16	4	12	4	4	16	4	4	12	6	4	15	4	6	6	6'-2	4	6	4'-9	1'-11	2'-10	4	6'-2	6	6	6'-8	4	6	6'-3	1'-10	4'-5	4	6'-8	0.223	0.285	0.202	0.710	102.00
46-50	5	4	10	12	9	9	4	9	5'-9	4	6	16	4	12	4	4	16	4	4	12	6	4	15	4	6	6	6'-2	4	6	4'-10	1'-11	2'-11	4	6'-2	6	6	6'-8	4	6	6'-3	1'-10	4'-5	4	6'-8	0.233	0.296	0.202	0.731	102.37
51-55	5	4	10.5	12.5	9	9	4	9	5'-10	4	6	16	4	12	4	4	16	4	4	12	6	4	15	4	8	9	6'-2	4	6	4'-10	1'-11	2'-11	4	6'-2	8	9	6'-8	4	6	6'-4	1'-10	4'-6	4	6'-8	0.243	0.307	0.202	0.752	111.47



- #### Notes:
- Dimensions listed on this sheet to be used in conjunction with Sheet RCB G3-20.
  - The k2 and m2 bars horizontal legs may lap in low fill situations.
  - Fill dimensions "S" and "H" are in feet.
  - Dimensions "A", "B", "C", "D", and "Sp." listed in the bar list are in inches.
  - Dimensions "L", "H", "V" are in feet and inches.

LATEST REVISION DATE	APPROVED BY BRIDGE ENGINEER	Standard Design <b>Single Reinforced Concrete Box Culverts</b> July, 2020	
		<b>Culvert Barrel Details</b> 5' x 4' Barrel Sections	RCB 5-4-20
		Highway Division	