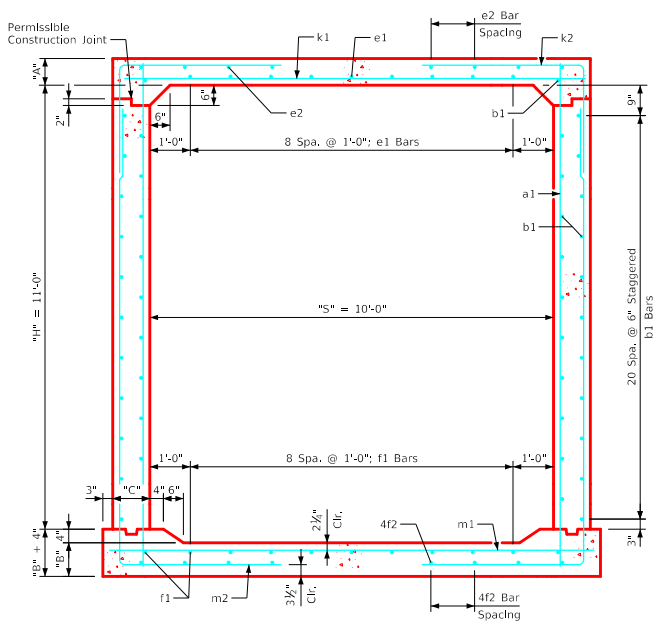
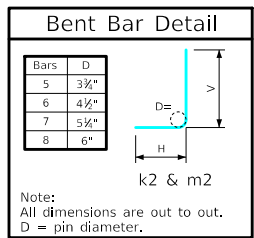


Variable Dimensions and Quantities for 10' x 11' Barrel Sections

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	H	V	Size	L	Size	Sp.	L	Size	Sp.	L	Size	Sp.	L	Slab	Floor	Walls	Total										
0	10	10	11	12	12.5	11	9	4	12	12'-11	4	6	44	4	12	9	4	17	8	4	12	11	4	17	8	5	6	11'-6	6	9	10'-10	7'-0	3'-10	-	-	7	9	12'-0	6	9	18'-6	7'-0	11'-6	-	-	0.476	0.515	0.723	1.714	252.08
1	10	11	11.5	12.5	11	9	4	9	12'-5	4	6	44	4	12	9	4	17	8	4	12	11	4	17	8	5	6	11'-6	6	9	10'-9	7'-0	3'-9	-	-	7	9	12'-0	6	9	18'-6	7'-0	11'-6	-	-	0.458	0.515	0.723	1.696	251.71	
2	10	11	8	10	11	9	4	9	12'-5	4	6	44	5	12	9	4	17	8	4	12	11	4	17	8	6	6	11'-6	5	6	9'-10	6'-9	3'-1	-	-	6	6	12'-0	5	6	16'-5	5'-2	11'-3	5	12'-0	0.330	0.420	0.723	1.473	261.71	
3-6	10	11	8	10	11	9	4	9	12'-5	4	6	44	4	12	9	4	17	8	4	12	11	4	15	8	7	9	11'-6	5	6	9'-6	6'-5	3'-1	5	11'-6	6	6	12'-0	5	6	15'-11	4'-8	11'-3	5	12'-0	0.330	0.420	0.723	1.473	252.63	
7-8	10	11	8	10	11	9	4	12	12'-5	4	6	44	4	12	9	4	13	8	4	12	11	4	13	8	6	6	11'-6	5	6	7'-1	4'-0	3'-1	5	11'-6	6	6	12'-0	6	6	15'-3	4'-0	11'-3	6	12'-0	0.330	0.420	0.723	1.473	265.84	
9-10	10	11	8	10.5	11	9	4	9	12'-5	4	6	44	4	12	9	4	13	8	4	12	11	4	13	8	6	6	11'-6	7	9	8'-0	4'-0	4'-0	7	11'-6	7	6	12'-0	7	9	15'-4	4'-0	11'-4	7	12'-0	0.330	0.439	0.723	1.492	295.47	
11-15	10	11	9	11	11	9	4	12	12'-7	4	6	44	4	12	9	4	13	8	4	12	11	4	18	6	7	6	11'-6	7	9	8'-0	4'-0	4'-0	7	11'-6	7	6	12'-0	7	9	15'-1	3'-9	11'-4	7	12'-0	0.366	0.458	0.723	1.547	300.37	
16-20	10	11	10.5	13.5	12	9	4	12	12'-11	4	6	44	4	12	9	4	13	8	4	12	11	4	17	6	7	6	11'-8	7	9	8'-2	4'-1	4'-1	7	11'-8	7	6	12'-2	7	9	15'-4	3'-9	11'-7	7	12'-2	0.429	0.562	0.788	1.779	304.61	
21-25	10	11	12.5	15	13	9	4	9	13'-2	4	6	44	4	12	9	4	16	6	4	12	11	4	17	6	7	6	11'-10	7	9	7'-11	3'-8	4'-3	7	11'-10	7	6	12'-4	7	9	15'-5	3'-9	11'-8	7	12'-4	0.512	0.630	0.853	1.995	309.61	
26-30	10	11	14	16.5	14.5	9	4	9	13'-5	4	6	44	4	12	9	4	17	6	4	12	11	4	17	6	7	6	12'-1	6	6	8'-0	4'-0	4'-0	6	12'-1	9	9	12'-7	6	6	15'-9	3'-11	11'-10	6	12'-7	0.583	0.704	0.951	2.238	330.61	
31-35	10	11	15.5	18	15.5	9	4	9	13'-8	4	6	44	4	12	9	4	12	8	4	12	11	4	17	6	9	9	12'-3	6	6	8'-4	4'-2	4'-2	6	12'-3	9	9	12'-9	6	6	16'-0	4'-1	11'-11	6	12'-9	0.651	0.775	1.017	2.443	344.79	
36-40	10	11	16.5	19.5	17	9	6	9	13'-11	4	6	44	4	12	9	4	17	6	4	12	11	4	18	6	9	9	12'-6	7	9	8'-8	4'-1	4'-7	7	12'-6	8	6	13'-0	7	9	16'-4	4'-3	12'-1	7	13'-0	0.707	0.854	1.115	2.676	381.32	
41-45	10	11	17.5	20.5	18	9	6	9	14'-1	4	6	44	4	12	9	4	13	8	4	12	11	4	18	6	8	6	12'-8	7	9	9'-4	4'-8	4'-8	7	12'-8	8	6	13'-2	7	9	16'-6	4'-4	12'-2	7	13'-2	0.758	0.908	1.180	2.846	398.26	
46-50	10	11	19	21.5	19.5	9	6	9	14'-3	4	6	44	4	12	9	4	13	8	4	12	11	4	12	8	8	6	12'-11	7	9	9'-6	4'-9	4'-9	7	12'-11	8	6	13'-5	7	9	16'-9	4'-6	12'-3	7	13'-5	0.836	0.969	1.278	3.083	405.37	
51-55	10	11	20	23	20.5	9	4	9	14'-6	4	6	44	4	12	9	4	12	8	5	12	11	4	12	8	8	6	13'-1	8	9	9'-11	4'-8	5'-3	8	13'-1	8	6	13'-7	8	9	17'-0	4'-8	12'-4	8	13'-7	0.890	1.047	1.343	3.280	431.55	



10' x 11' Barrel Section

- 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 Single Reinforced Concrete Box Culverts July, 2020
Culvert Barrel Details		RCB 10-11-20
10' x 11' Barrel Sections		