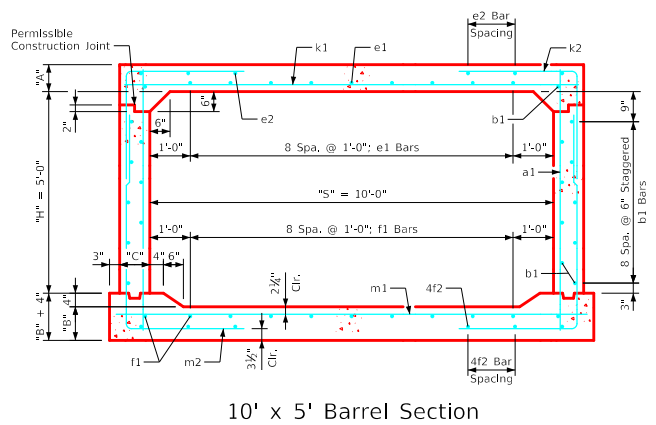
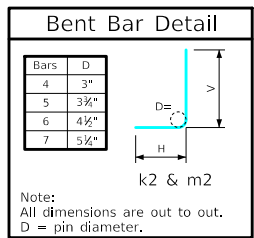


Variable Dimensions and Quantities for 10' x 5' Barrel Sections

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	Size	Sp.	L	Slab	Floor	Walls	Total			
0	10	5	12.5	12	9	9	4	12	6*11	4	6	20	4	12	9	4	15	6	4	12	11	4	13	8	6	9	11*2	6	12	7*1	3*2	3*11	6	11*2	6	9	11*8	7	12	9*4	3*11	5*5	7	11*8	0.476	0.481	0.257	1.214	159.32
1	10	5	11.5	12	9	6	4	6	6*10	4	6	20	4	12	9	4	15	6	4	12	11	4	15	6	6	9	11*2	4	6	6*4	3*2	3*2	4	11*2	6	9	11*8	4	6	8*6	3*1	5*5	4	11*8	0.441	0.481	0.257	1.179	141.50
2	10	5	8	10	9	9	4	9	6*5	4	6	20	5	12	9	4	15	6	4	12	11	4	15	6	7	9	11*2	5	6	6*2	3*1	3*1	5	11*2	6	6	11*8	5	6	8*4	3*1	5*3	5	11*8	0.316	0.407	0.257	0.980	179.18
3	10	5	8	10	9	9	4	12	6*5	4	6	20	4	12	9	4	15	6	4	12	11	4	14	6	7	9	11*2	5	6	6*2	3*1	3*1	5	11*2	7	9	11*8	5	6	8*2	2*11	5*3	5	11*8	0.316	0.407	0.257	0.980	170.16
4-7	10	5	8	10	9	9	4	12	6*5	4	6	20	4	12	9	4	15	6	4	12	11	4	14	6	7	9	11*2	5	6	6*2	3*1	3*1	5	11*2	6	6	11*8	5	6	8*2	2*11	5*3	5	11*8	0.316	0.407	0.257	0.980	172.39
8-10	10	5	8	10.5	9	9	4	12	6*5	4	6	20	4	12	9	4	15	6	4	12	11	4	12	6	6	6	11*2	5	6	6*2	3*1	3*1	5	11*2	6	6	11*8	5	6	8*0	2*8	5*4	5	11*8	0.316	0.425	0.257	0.998	173.82
11-15	10	5	8.5	10.5	9	9	5	12	6*6	4	6	20	4	12	9	4	12	6	4	12	11	4	12	6	7	6	11*2	5	6	5*8	2*7	3*1	5	11*2	7	6	11*8	5	6	7*11	2*7	5*4	5	11*8	0.334	0.425	0.257	1.016	201.55
16-20	10	5	10.5	13	9	9	5	12	6*10	4	6	20	4	12	9	4	10	6	4	12	11	4	10	6	7	6	11*2	5	6	5*7	2*3	3*4	5	11*2	7	6	11*8	5	6	7*9	2*3	5*6	5	11*8	0.405	0.518	0.257	1.180	201.21
21-25	10	5	12.5	14.5	9	9	4	9	7*2	4	6	20	4	12	9	4	9	6	4	12	11	4	10	6	8	6	11*2	5	6	5*7	2*2	3*5	5	11*2	8	6	11*8	5	6	7*11	2*3	5*8	5	11*8	0.476	0.574	0.257	1.307	229.13
26-30	10	5	14	16	9	9	4	12	7*5	4	6	20	4	12	9	4	10	6	4	12	11	4	10	6	8	6	11*2	5	6	5*10	2*3	3*7	5	11*2	8	6	11*8	5	6	8*0	2*3	5*9	5	11*8	0.529	0.629	0.257	1.415	227.84
31-35	10	5	15	17.5	9.5	9	4	9	7*7	4	6	20	4	12	9	4	11	6	4	12	11	4	10	6	8	6	11*3	5	6	6*3	2*7	3*8	5	11*3	8	6	11*8	5	6	8*4	2*5	5*11	5	11*9	0.570	0.690	0.271	1.531	235.39
36-40	10	5	16.5	19	10	9	4	9	7*10	4	6	20	4	12	9	4	12	6	4	12	11	4	11	6	8	6	11*4	5	6	6*6	2*8	3*10	5	11*4	8	6	11*10	5	6	8*6	2*6	6*0	5	11*10	0.629	0.752	0.285	1.666	238.50
41-45	10	5	17.5	20	10.5	9	4	9	8*0	4	6	20	4	12	9	4	11	6	4	12	11	4	11	6	9	6	11*5	5	6	6*7	2*8	3*11	5	11*5	9	6	11*11	5	6	8*8	2*7	6*1	5	11*11	0.671	0.794	0.301	1.766	275.26
46-50	10	5	19	21	11	9	4	9	8*3	4	6	20	4	12	9	4	12	6	4	12	11	4	12	6	9	6	11*6	5	6	6*9	2*9	4*0	5	11*6	9	6	12*0	5	6	8*11	2*9	6*2	5	12*0	0.731	0.839	0.315	1.885	278.63
51-55	10	5	20	22.5	11.5	9	5	12	8*5	4	6	20	4	12	9	4	12	6	5	12	11	4	12	6	9	6	11*7	5	6	6*11	2*10	4*1	5	11*7	9	6	12*1	5	6	9*2	2*10	6*4	5	12*1	0.774	0.902	0.329	2.005	288.84



- 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 10' x 5' Barrel Sections	RCB 10-5-20

ENGLISH\FDS\DESIGNED\SINGLE\CULVERTS.DGN - RCB 10-5-20 - THIS SHEET ISSUED 07-2020.