

FOR TYPICAL SECTION, NOTES AND OTHER DETAILS, REFER TO STANDARD BCT-DT.

BCT-20

SPAN (FT.)	HGHT (FT.)	REINFORCING STEEL											QUAN./LF		HEADWALLS								WINGWALL			
		BT1											REINFORCING STEEL (LBS/LONG. JT)	CONCRETE CLASS #4 (CY/LF)	REINFORCING STEEL (LBS/LF)	G		HW1		NO. HW2 BARS	NO. HW3 BARS	INLET CONCRETE CL. #4 (CY)		INLET REINFORCING STEEL (LBS)	OUTLET CONCRETE CL. #4 (CY)	OUTLET REINFORCING STEEL (LBS)
		SIZE	SPACING C-C	a	b	c	d	e	f	g	LENGTH	NO. BL1 #4 BARS				NO. BL2 #3 BARS	HEADWALL LENGTH	SIZE	LENGTH							
3	3	4	12"	2'-7"	0'- 4"	1'-10"	0'- 5/8"	0'- 3/4"	1'-3"	1'-3"	1'-9"	44	16	42.388	0.989	108.604	13'- 2"	6	12'-10"	2	8	1.827	102.932	1.808	77.103	A
3	4	4	12"	2'-7"	0'- 4"	1'-10"	0'- 5/8"	0'- 3/4"	1'-3"	1'-3"	1'-9"	44	24	45.212	1.087	116.956	13'- 2"	6	12'-10"	2	10	1.932	109.835	1.901	77.103	C
4	3	4	12"	3'-5"	0'- 4"	2'-3"	0'- 5/8"	0'- 3/4"	14'-3"	1'-10"	14'-9"	56	16	52.408	1.136	128.644	16'- 2"	6	15'-10"	2	8	2.131	120.956	2.121	95.127	A
4	4	4	12"	3'-5"	0'- 4"	2'-3"	0'- 5/8"	0'- 3/4"	14'-3"	1'-10"	14'-9"	56	24	55.232	1.234	136.996	16'- 2"	6	15'-10"	2	10	2.236	127.859	2.214	95.127	C
4	5	4	12"	3'-5"	0'- 4"	2'-3"	0'- 5/8"	0'- 3/4"	14'-3"	1'-10"	14'-9"	56	32	58.056	1.332	145.348	16'- 2"	6	15'-10"	2	12	2.341	134.761	2.307	95.127	E
4	6	4	12"	3'-5"	0'- 4"	2'-3"	0'- 5/8"	0'- 3/4"	14'-3"	1'-10"	14'-9"	56	40	60.880	1.430	153.700	16'- 2"	6	15'-10"	2	14	2.446	141.664	2.399	95.127	G
5	3	4	12"	4'-2"	0'- 4"	2'-8"	0'- 5/8"	0'- 3/4"	17'-4"	2'-5"	17'-9"	68	16	62.428	1.281	161.335	19'- 2"	6	18'-10"	2	8	2.434	138.980	2.435	113.151	A
5	4	4	12"	4'-2"	0'- 4"	2'-8"	0'- 5/8"	0'- 3/4"	17'-4"	2'-5"	17'-9"	68	24	65.252	1.379	169.687	19'- 2"	6	18'-10"	2	10	2.539	145.883	2.527	113.151	C
5	5	4	12"	4'-2"	0'- 4"	2'-8"	0'- 5/8"	0'- 3/4"	17'-4"	2'-5"	17'-9"	68	32	68.076	1.478	172.608	19'- 2"	6	18'-10"	2	12	2.644	152.785	2.620	113.151	E
5	6	4	12"	4'-2"	0'- 4"	2'-8"	0'- 5/8"	0'- 3/4"	17'-4"	2'-5"	17'-9"	68	40	70.900	1.576	181.562	19'- 2"	6	18'-10"	2	14	2.750	159.688	2.713	113.151	G
5	7	4	12"	4'-2"	0'- 4"	2'-8"	0'- 5/8"	0'- 3/4"	17'-4"	2'-5"	17'-9"	68	48	73.724	1.673	202.880	19'- 2"	6	18'-10"	2	16	2.855	166.591	2.806	113.151	I
6	4	4	12"	4'-11"	0'- 5"	3'-0"	0'- 6 5/8"	0'- 4 1/4"	20'-4"	2'-11"	20'-10"	80	24	75.272	1.653	191.868	22'- 2"	6	21'-10"	2	10	2.799	163.907	2.797	131.175	C
6	5	4	11"	4'-11"	0'- 5"	3'-0"	0'- 6 5/8"	0'- 4 1/4"	20'-4"	2'-11"	20'-10"	80	32	78.096	1.751	210.223	22'- 2"	6	21'-10"	2	12	2.904	170.809	2.889	131.175	E
6	6	4	11"	4'-11"	0'- 5 1/4"	3'-0"	0'- 7"	0'- 4 1/2"	20'-4"	2'-10"	20'-11"	80	40	80.920	1.881	219.582	22'- 2"	6	21'-10"	2	14	3.016	177.712	2.990	131.175	H
6	7	4	11"	4'-11"	0'- 5 1/4"	3'-0"	0'- 7"	0'- 4 1/2"	20'-4"	2'-10"	20'-11"	80	48	83.744	1.978	235.377	22'- 2"	6	21'-10"	2	16	3.121	184.615	3.082	131.175	J
6	8	4	11"	4'-11"	0'- 5 1/4"	3'-0"	0'- 7"	0'- 4 1/2"	20'-4"	2'-10"	20'-11"	80	56	86.568	2.076	245.767	22'- 2"	6	21'-10"	2	18	3.227	191.517	3.175	131.175	L
7	4	4	10"	5'-7"	0'- 6 1/2"	3'-5"	0'- 8 3/4"	0'- 5 3/4"	23'-4"	3'-3"	24'-1"	92	24	85.292	2.036	231.430	25'- 2"	6	24'-10"	2	10	3.031	181.931	3.039	149.199	D
7	6	4	10"	5'-7"	0'- 6 3/4"	3'-5"	0'- 9"	0'- 6"	23'-4"	3'-2"	24'-1"	92	40	90.940	2.269	249.062	25'- 2"	6	24'-10"	2	14	3.228	195.736	3.211	149.199	H
7	8	4	9"	5'-7"	0'- 7"	3'-5"	0'- 9 3/8"	0'- 6 1/4"	23'-4"	3'-2"	24'-2"	92	56	96.588	2.500	291.625	25'- 2"	6	24'-10"	2	18	3.425	209.541	3.383	149.199	L
7	10	4	9"	5'-7"	0'- 7"	3'-5"	0'- 9 3/8"	0'- 6 1/4"	23'-5"	3'-2"	24'-3"	92	72	102.236	2.731	332.978	25'- 2"	6	24'-10"	2	22	3.635	223.347	3.569	149.199	P
8	4	4	9"	6'-3"	0'- 7 3/4"	3'-10"	0'- 10 1/2"	0'- 7"	26'-4"	3'-7"	27'-3"	104	24	95.312	2.431	300.279	28'- 2"	6	27'-10"	2	10	3.233	199.955	3.251	167.223	D
8	6	4	9"	6'-3"	0'- 8"	3'-10"	0'- 10 7/8"	0'- 7 1/4"	26'-4"	3'-7"	27'-3"	104	40	100.960	2.668	317.493	28'- 2"	6	27'-10"	2	14	3.428	213.760	3.421	167.223	H
8	8	4	9"	6'-3"	0'- 8 1/4"	3'-10"	0'- 11 1/8"	0'- 7 1/2"	26'-4"	3'-6"	27'-4"	104	56	106.608	2.905	344.092	28'- 2"	6	27'-10"	2	18	3.622	227.565	3.591	167.223	L
8	10	4	9"	6'-3"	0'- 8 1/2"	3'-10"	0'- 11 1/2"	0'- 7 3/4"	26'-4"	3'-6"	27'-4"	104	72	112.256	3.139	400.681	28'- 2"	6	27'-10"	2	22	3.817	241.371	3.760	167.223	P
9	4	5	9"	7'-0"	0'- 9"	4'-3"	1'- 1/8"	0'- 8 1/8"	29'-4"	4'-0"	30'-5"	116	24	105.332	2.871	390.708	31'- 2"	6	30'-10"	2	10	3.412	217.979	3.440	185.247	D
9	6	5	9"	7'-0"	0'- 9"	4'-3"	1'- 1/8"	0'- 8 1/8"	29'-4"	4'-0"	30'-5"	116	40	110.980	3.067	406.744	31'- 2"	6	30'-10"	2	14	3.622	231.784	3.625	185.247	H
9	8	5	9"	7'-0"	0'- 9 1/4"	4'-3"	1'- 1/2"	0'- 8 3/8"	29'-4"	4'-0"	30'-5"	116	56	116.628	3.308	433.034	31'- 2"	6	30'-10"	2	18	3.814	245.589	3.793	185.247	L
9	10	5	9"	7'-0"	0'- 9 1/4"	4'-3"	1'- 1/2"	0'- 8 3/8"	29'-4"	4'-0"	30'-5"	116	72	122.276	3.501	497.976	31'- 2"	6	30'-10"	2	22	4.025	259.395	3.978	185.247	P
9	12	5	8"	7'-1"	0'- 9 1/2"	4'-3"	1'- 7/8"	0'- 8 5/8"	29'-7"	3'-11"	30'-9"	116	88	127.924	3.869	590.289	31'- 2"	6	30'-10"	2	26	4.217	273.200	4.146	185.247	T
10	4	5	9"	7'-8"	0'- 10 1/4"	4'-8"	1'- 1 1/8"	0'- 9 3/8"	32'-3"	4'-5"	33'-7"	128	24	115.352	3.361	425.479	34'- 2"	6	33'-10"	2	10	3.567	236.003	3.605	203.271	D
10	6	5	9"	7'-8"	0'- 10 1/2"	4'-8"	1'- 2 1/4"	0'- 9 5/8"	32'-3"	4'-4"	33'-7"	128	40	121.000	3.607	442.615	34'- 2"	6	33'-10"	2	14	3.757	249.808	3.771	203.271	H
10	8	5	9"	7'-8"	0'- 10 1/2"	4'-8"	1'- 2 1/4"	0'- 9 5/8"	32'-3"	4'-4"	33'-7"	128	56	126.648	3.803	470.995	34'- 2"	6	33'-10"	2	18	3.968	263.613	3.956	203.271	L
10	10	5	9"	7'-8"	0'- 10 1/2"	4'-8"	1'- 2 1/4"	0'- 9 5/8"	32'-3"	4'-4"	33'-7"	128	72	132.296	3.996	531.092	34'- 2"	6	33'-10"	2	22	4.178	277.419	4.141	203.271	P
10	12	5	9"	7'-9"	0'- 10 3/4"	4'-8"	1'- 2 3/4"	0'- 9 7/8"	32'-3"	4'-4"	33'-11"	128	88	137.944	4.372	598.219	34'- 2"	6	33'-10"	2	26	4.368	291.224	4.307	203.271	T
12	6	6	9"	9'-1"	1'- 1"	5'-5"	1'- 5 5/8"	1'- 0"	38'-3"	5'-3"	39'-11"	152	40	141.040	4.725	656.619	40'- 2"	6	39'-10"	2	14	4.013	285.856	4.046	239.319	I
12	8	6	9"	9'-1"	1'- 1"	5'-5"	1'- 5 5/8"	1'- 0"	38'-3"	5'-3"	39'-11"	152	56	146.688	4.920	682.088	40'- 2"	6	39'-10"	2	18	4.223	299.661	4.232	239.319	M
12	10	6	9"	9'-1"	1'- 1 1/4"	5'-5"	1'- 6"	1'- 1/4"	38'-3"	5'-2"	39'-11"	152	72	152.336	5.172	746.974	40'- 2"	6	39'-10"	2	22	4.409	313.467	4.392	239.319	Q
12	12	6	9"	9'-2"	1'- 1 1/4"	5'-5"	1'- 6"	1'- 1/4"	38'-6"	5'-2"	40'-2"	152	88	157.984	5.502	818.885	40'- 2"	6	39'-10"	2	26	4.619	327.272	4.578	239.319	U

A COPY OF THE ORIGINAL SEALED AND SIGNED DRAWING IS ON FILE IN THE CENTRAL OFFICE.

SPECIFICATION REFERENCE	<h2>TRIPLE BOX CULVERTS</h2> <h3>10 TO 20 FT. FILLS</h3> <p>VIRGINIA DEPARTMENT OF TRANSPORTATION</p>	 ROAD AND BRIDGE STANDARDS	REVISION DATE	SHEET 2 OF 2
			07/11	1004.12