

DIMENSIONS					REINFORCING STEEL																						
SPAN (FT.)	HGHT (FT.)	T1 TOP SLAB (IN.)	T2 BOTTOM SLAB (IN.)	T3 WALL (IN.)	A	B	C	D	E	F	BH1				BH2			BH3			BV1			NO. BL1 BARS	NO. BL2 BARS		
											SIZE	SPACING C-C	a	b	LENGTH	SIZE	SPACING C-C	LENGTH	SIZE	SPACING C-C	a	LENGTH	SIZE	SPACING C-C	LENGTH		
3	3	8"	8"	8"	2	2'-0"	2	2'-0"	1	1'-0"	4	12"	4'-0"	2'-8"	8'-10"	4	12"	4'-0"	--	--	----	----	4	12"	4'-0"	16	8
3	4	8"	8"	8"	2	2'-0"	2	2'-0"	2	2'-0"	4	12"	4'-0"	3'-2"	9'-10"	4	12"	4'-0"	--	--	----	----	4	12"	5'-0"	16	12
4	3	8"	8"	8"	3	3'-0"	3	3'-0"	1	1'-0"	4	11 1/2"	5'-0"	2'-8"	9'-10"	4	11 1/2"	5'-0"	--	--	----	----	4	12"	4'-0"	20	8
4	4	8"	8"	8"	3	3'-0"	3	3'-0"	2	2'-0"	4	11"	5'-0"	3'-2"	10'-10"	4	11"	5'-0"	--	--	----	----	4	12"	5'-0"	20	12
4	5	8"	8"	8"	3	3'-0"	3	3'-0"	3	3'-0"	4	12"	5'-0"	3'-8"	11'-10"	5	12"	5'-0"	3	12"	2'-3 5/8"	4'-5"	4	12"	6'-0"	20	16
4	6	8"	8"	8"	3	3'-0"	3	3'-0"	4	4'-0"	4	12"	5'-0"	4'-2"	12'-10"	5	12"	5'-0"	3	12"	2'-3 5/8"	4'-5"	4	12"	7'-0"	20	20
5	3	8"	8"	8"	4	4'-0"	4	4'-0"	1	1'-0"	4	12"	6'-0"	2'-8"	10'-10"	5	12"	6'-0"	--	--	----	----	4	12"	4'-0"	24	8
5	4	8"	8"	8"	4	4'-0"	4	4'-0"	2	2'-0"	4	11 1/2"	6'-0"	3'-2"	11'-10"	5	11 1/2"	6'-0"	--	--	----	----	4	12"	5'-0"	24	12
5	5	8"	8"	8"	4	4'-0"	4	4'-0"	3	3'-0"	4	11"	6'-0"	3'-8"	12'-10"	5	11"	6'-0"	--	--	----	----	4	12"	6'-0"	24	16
5	6	8"	8"	8"	4	4'-0"	4	4'-0"	4	4'-0"	4	10 1/2"	6'-0"	4'-2"	13'-10"	5	10 1/2"	6'-0"	--	--	----	----	4	12"	7'-0"	24	20
5	7	8"	8"	8"	4	4'-0"	4	4'-0"	5	5'-0"	4	10"	6'-0"	4'-8"	14'-10"	5	10"	6'-0"	--	--	----	----	4	12"	8'-0"	24	24
6	4	8"	8"	8"	5	5'-0"	5	5'-0"	2	2'-0"	4	9 1/2"	7'-0"	3'-2"	12'-10"	5	9 1/2"	7'-0"	--	--	----	----	4	12"	5'-0"	28	12
6	5	8"	8"	8"	5	5'-0"	5	5'-0"	3	3'-0"	4	11 1/2"	7'-0"	3'-8"	13'-10"	6	11 1/2"	7'-0"	4	11 1/2"	2'-8 3/8"	5'-2"	4	12"	6'-0"	28	16
6	6	8"	8"	8"	5	5'-0"	5	5'-0"	4	4'-0"	4	11"	7'-0"	4'-2"	14'-10"	6	11"	7'-0"	3	11"	2'-8 3/8"	5'-2"	4	12"	7'-0"	28	20
6	7	8"	8"	8"	5	5'-0"	5	5'-0"	5	5'-0"	4	10 1/2"	7'-0"	4'-8"	15'-10"	6	10 1/2"	7'-0"	3	10 1/2"	2'-8 3/8"	5'-2"	4	12"	8'-0"	28	24
6	8	8"	8"	8"	5	5'-0"	5	5'-0"	6	6'-0"	4	10"	7'-0"	5'-2"	16'-10"	6	10"	7'-0"	4	10"	2'-8 3/8"	5'-2"	4	12"	9'-0"	28	28
7	4	8"	8"	8"	6	6'-0"	6	6'-0"	2	2'-0"	5	10"	8'-0"	3'-2"	13'-8"	6	10"	8'-0"	3	10"	2'-10 3/4"	5'-7"	4	9"	5'-0"	32	12
7	6	8"	8"	8"	6	6'-0"	6	6'-0"	4	4'-0"	4	9"	8'-0"	4'-2"	15'-10"	6	9"	8'-0"	3	9"	2'-10 3/4"	5'-7"	4	12"	7'-0"	32	20
7	8	8"	8"	8"	6	6'-0"	6	6'-0"	6	6'-0"	4	8 1/2"	8'-0"	5'-2"	17'-10"	6	8 1/2"	8'-0"	3	8 1/2"	2'-10 3/4"	5'-7"	4	12"	9'-0"	32	28
7	10	8"	8"	8"	6	6'-0"	6	6'-0"	8	8'-0"	4	7 1/2"	8'-0"	6'-2"	19'-10"	6	7 1/2"	8'-0"	3	7 1/2"	2'-10 3/4"	5'-7"	4	12"	11'-0"	32	36
8	4	8"	8"	8"	7	7'-0"	7	7'-0"	2	2'-0"	5	8 1/2"	9'-0"	3'-2"	14'-8"	6	8 1/2"	9'-0"	3	8 1/2"	3'-1 1/4"	6'-0"	4	6"	5'-0"	36	12
8	6	8"	8"	8"	7	7'-0"	7	7'-0"	4	4'-0"	4	7 1/2"	9'-0"	4'-2"	16'-10"	6	7 1/2"	9'-0"	3	7 1/2"	3'-1 1/4"	6'-0"	4	9"	7'-0"	36	20
8	8	8"	8"	8"	7	7'-0"	7	7'-0"	6	6'-0"	4	7"	9'-0"	5'-2"	18'-10"	6	7"	9'-0"	3	7"	3'-1 1/4"	6'-0"	4	12"	9'-0"	36	28
8	10	8"	8"	8"	7	7'-0"	7	7'-0"	8	8'-0"	4	6 1/2"	9'-0"	6'-2"	20'-10"	6	6 1/2"	9'-0"	3	6 1/2"	3'-1 1/4"	6'-0"	4	12"	11'-0"	36	36
9	4	8"	8"	8"	8	8'-0"	8	8'-0"	2	2'-0"	5	7 1/2"	10'-0"	3'-2"	15'-8"	6	7 1/2"	10'-0"	3	7 1/2"	3'-3 5/8"	6'-5"	4	5 1/2"	5'-0"	40	12
9	6	8 1/4"	8 1/4"	8"	8	8'-0"	8	8'-0"	4	4'-0"	5	6 1/2"	10'-0"	4'-2 1/4"	17'-9"	6	6 1/2"	10'-0"	--	--	----	----	4	7 1/2"	7'-0"	40	20
9	8	8 1/4"	8 1/4"	8"	8	8'-0"	8	8'-0"	6	6'-0"	4	6"	10'-0"	5'-2 1/4"	19'-10"	6	6"	10'-0"	3	6"	3'-3 5/8"	6'-5"	4	10 1/2"	9'-0"	40	28
9	10	8 1/2"	8 1/2"	8"	8	8'-0"	8	8'-0"	8	8'-0"	5	7 1/2"	10'-0"	6'-2 1/2"	21'-9"	7	7 1/2"	10'-0"	3	7 1/2"	3'-3 5/8"	6'-5"	4	12"	11'-1"	40	36
9	12	9"	9"	8"	8	8'-0"	8	8'-0"	10	10'-0"	6	8 1/2"	10'-0"	7'-3"	23'-8"	8	8 1/2"	10'-0"	--	--	----	----	4	10"	13'-2"	40	44
10	4	8 1/4"	8 1/4"	8"	9	9'-0"	9	9'-0"	2	2'-0"	5	6 1/2"	11'-0"	3'-2 1/4"	16'-9"	6	6 1/2"	11'-0"	3	6 1/2"	3'-6"	6'-10"	5	6"	5'-0"	44	12
10	6	8 1/2"	8 1/2"	8"	9	9'-0"	9	9'-0"	4	4'-0"	6	7 1/2"	11'-0"	4'-2 1/2"	18'-7"	7	7 1/2"	11'-0"	--	--	----	----	4	6"	7'-1"	44	20
10	8	8 3/4"	8 3/4"	8"	9	9'-0"	9	9'-0"	6	6'-0"	4	5 1/2"	11'-0"	5'-2 3/4"	20'-11"	6	5 1/2"	11'-0"	3	5 1/2"	3'-6"	6'-10"	4	9"	9'-2"	44	28
10	10	9 1/4"	9 1/4"	8"	9	9'-0"	9	9'-0"	8	8'-0"	4	5"	11'-0"	6'-3 1/4"	23'-0"	6	5"	11'-0"	--	--	----	----	4	12"	11'-2"	44	36
10	12	9 1/4"	9 1/4"	8"	9	9'-0"	9	9'-0"	10	10'-0"	4	8"	11'-0"	7'-3 1/4"	25'-0"	8	8"	11'-0"	4	8"	3'-6"	6'-9"	4	12"	13'-2"	44	44
12	6	10 3/4"	10 3/4"	8"	11	11'-0"	11	11'-0"	4	4'-0"	6	7 1/2"	13'-0"	4'-4 3/4"	21'-0"	8	7 1/2"	13'-0"	3	7 1/2"	3'-10 3/4"	7'-7"	4	5 1/2"	7'-5"	52	20
12	8	10 3/4"	10 3/4"	8"	11	11'-0"	11	11'-0"	6	6'-0"	5	6"	13'-0"	5'-4 3/4"	23'-2"	7	6"	13'-0"	--	--	----	----	4	7 1/2"	9'-5"	52	28
12	10	11"	11"	8"	11	11'-0"	11	11'-0"	8	8'-0"	5	7"	13'-0"	6'-5"	25'-2"	8	7"	13'-0"	3	7"	3'-10 3/4"	7'-7"	4	10 1/2"	11'-6"	52	36
12	12	11 1/4"	11 1/4"	8"	11	11'-0"	11	11'-0"	10	10'-0"	5	6 1/2"	13'-0"	7'-5 1/4"	27'-3"	8	6 1/2"	13'-0"	3	6 1/2"	3'-10 3/4"	7'-7"	4	12"	13'-6"	52	44

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

**VDOT**  
ROAD AND BRIDGE STANDARDS

SHEET 1 OF 2	REVISION DATE
1002.07	

## SINGLE BOX CULVERTS

### 5 TO 10 FT. FILLS

VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE