

DIMENSIONS					REINFORCING STEEL																						
SPAN	HGHT	T1	T2	T3							BH1			BH2			BH3			BV1			NO. BL1 BARS	NO. BL2 BARS			
(FT.)	(FT.)	TOP SLAB (IN.)	BOTTOM SLAB (IN.)	WALL (IN.)	A	B	C	D	E	F	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"	5	12"	4'-0"	3	12"	2'-1 1/4"	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"	5	12"	4'-0"	3	12"	2'-1 1/4"	4'-0"	4	12"	5'-0"	16	12
4	3	8"	8"	8"	3	3'-0"	3	3'-0"	1	1'-0"	4	9"	5'-0"	2'-8"	9'-10"	5	9"	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"	6	11"	5'-0"	3	11"	2'-3 5/8"	4'-5"	4	12"	5'-0"	20	12
4	5	8"	8"	8"	3	3'-0"	3	3'-0"	3	3'-0"	4	11"	5'-0"	3'-8"	11'-10"	6	11"	5'-0"	3	11"	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	10 1/2"	5'-0"	4'-2"	12'-10"	6	10 1/2"	5'-0"	3	10 1/2"	2'-3 5/8"	4'-5"	4	12"	7'-0"	20	20
5	3	8 1/2"	8 1/2"	8"	4	4'-0"	4	4'-0"	1	1'-0"	5	9"	6'-0"	2'-8 1/2"	10'-9"	6	9"	6'-0"	--	--	--	--	4	9"	4'-1"	24	8
5	4	8 1/2"	8 1/2"	8"	4	4'-0"	4	4'-0"	2	2'-0"	5	8 1/2"	6'-0"	3'-2 1/2"	11'-9"	6	8 1/2"	6'-0"	--	--	--	--	4	11 1/2"	5'-1"	24	12
5	5	8 1/2"	8 1/2"	8"	4	4'-0"	4	4'-0"	3	3'-0"	4	8 1/2"	6'-0"	3'-8 1/2"	12'-11"	6	8 1/2"	6'-0"	3	8 1/2"	2'-6"	4'-10"	4	12"	6'-1"	24	16
5	6	8 3/4"	8 3/4"	8"	4	4'-0"	4	4'-0"	4	4'-0"	4	8 1/2"	6'-0"	4'-2 3/4"	13'-11"	6	8 1/2"	6'-0"	--	--	--	--	4	12"	7'-2"	24	20
5	7	8 3/4"	8 3/4"	8"	4	4'-0"	4	4'-0"	5	5'-0"	4	8"	6'-0"	4'-8 3/4"	14'-11"	6	8"	6'-0"	--	--	--	--	4	12"	8'-2"	24	24
6	4	10"	10"	8"	5	5'-0"	5	5'-0"	2	2'-0"	4	7 1/2"	7'-0"	3'-4"	13'-2"	6	7 1/2"	7'-0"	3	7 1/2"	2'-8 3/8"	5'-2"	4	9"	5'-4"	28	12
6	5	10 1/4"	10 1/4"	8"	5	5'-0"	5	5'-0"	3	3'-0"	4	7 1/2"	7'-0"	3'-10 1/4"	14'-2"	6	7 1/2"	7'-0"	--	--	--	--	4	12"	6'-5"	28	16
6	6	10 1/4"	10 1/4"	8"	5	5'-0"	5	5'-0"	4	4'-0"	4	7"	7'-0"	4'-4 1/4"	15'-2"	6	7"	7'-0"	--	--	--	--	4	12"	7'-5"	28	20
6	7	10 1/4"	10 1/4"	8"	5	5'-0"	5	5'-0"	5	5'-0"	4	7"	7'-0"	4'-10 1/4"	16'-2"	6	7"	7'-0"	--	--	--	--	4	12"	8'-5"	28	24
6	8	10 1/4"	10 1/4"	8"	5	5'-0"	5	5'-0"	6	6'-0"	5	7"	7'-0"	5'-4 1/4"	17'-1"	6	7"	7'-0"	--	--	--	--	4	12"	9'-5"	28	28
7	4	11 1/2"	11 1/2"	8"	6	6'-0"	6	6'-0"	2	2'-0"	4	6 1/2"	8'-0"	3'-5 1/2"	14'-5"	6	6 1/2"	8'-0"	--	--	--	--	4	8"	5'-7"	32	12
7	6	11 3/4"	11 3/4"	8"	6	6'-0"	6	6'-0"	4	4'-0"	4	6"	8'-0"	4'-5 3/4"	16'-5"	6	6"	8'-0"	--	--	--	--	4	12"	7'-8"	32	20
7	8	11 3/4"	11 3/4"	8"	6	6'-0"	6	6'-0"	6	6'-0"	4	6"	8'-0"	5'-5 3/4"	18'-5"	6	6"	8'-0"	--	--	--	--	4	12"	9'-8"	32	28
7	10	11 3/4"	11 3/4"	8"	6	6'-0"	6	6'-0"	8	8'-0"	5	7 1/2"	8'-0"	6'-5 3/4"	20'-4"	7	7 1/2"	8'-0"	3	7 1/2"	2'-10 3/4"	5'-7"	4	6 1/2"	11'-8"	32	36
8	4	12 3/4"	12 3/4"	8"	7	7'-0"	7	7'-0"	2	2'-0"	5	8 1/2"	9'-0"	3'-6 3/4"	15'-6"	8	8 1/2"	9'-0"	3	8 1/2"	3'-1 1/4"	6'-0"	4	7 1/2"	5'-9"	36	12
8	6	13"	13"	8"	7	7'-0"	7	7'-0"	4	4'-0"	5	8 1/2"	9'-0"	4'-7"	17'-6"	8	8 1/2"	9'-0"	--	--	--	--	4	12"	7'-10"	36	20
8	8	13"	13"	8"	7	7'-0"	7	7'-0"	6	6'-0"	5	8 1/2"	9'-0"	5'-7"	19'-6"	8	8 1/2"	9'-0"	3	8 1/2"	3'-1 1/4"	6'-0"	4	12"	9'-10"	36	28
8	10	13"	13"	8"	7	7'-0"	7	7'-0"	8	8'-0"	5	5"	9'-0"	6'-7"	21'-6"	6	5"	9'-0"	--	--	--	--	5	10 1/2"	11'-10"	36	36
9	4	13 1/2"	13 1/2"	8"	8	8'-0"	8	8'-0"	2	2'-0"	5	6"	10'-0"	3'-7 1/2"	16'-7"	7	6"	10'-0"	--	--	--	--	4	6 1/2"	5'-11"	40	12
9	6	13 3/2"	13 3/2"	8"	8	8'-0"	8	8'-0"	4	4'-0"	4	7 1/2"	10'-0"	4'-7 1/2"	18'-9"	8	7 1/2"	10'-0"	4	7 1/2"	3'-3 5/8"	6'-4"	4	11 1/2"	7'-11"	40	20
9	8	13 3/2"	13 3/2"	8"	8	8'-0"	8	8'-0"	6	6'-0"	5	7 1/2"	10'-0"	5'-7 1/2"	20'-7"	8	7 1/2"	10'-0"	3	7 1/2"	3'-3 5/8"	6'-5"	4	12"	9'-11"	40	28
9	10	13 3/2"	13 3/2"	8"	8	8'-0"	8	8'-0"	8	8'-0"	5	6"	10'-0"	6'-7 1/2"	22'-7"	7	6"	10'-0"	--	--	--	--	4	9"	11'-11"	40	36
9	12	13 3/4"	13 3/4"	8"	8	8'-0"	8	8'-0"	10	10'-0"	6	7"	10'-0"	7'-7 1/4"	24'-5"	8	7"	10'-0"	--	--	--	--	4	4 1/2"	13'-10"	40	44
10	4	14 3/4"	14 3/4"	8"	9	9'-0"	9	9'-0"	2	2'-0"	4	6"	11'-0"	3'-8 3/4"	17'-11"	7	6"	11'-0"	4	6"	3'-6"	6'-9"	4	6"	6'-1"	44	12
10	6	15"	15"	8"	9	9'-0"	9	9'-0"	4	4'-0"	5	5 1/2"	11'-0"	4'-9"	19'-10"	7	5 1/2"	11'-0"	--	--	--	--	4	11"	8'-2"	44	20
10	8	15"	15"	8"	9	9'-0"	9	9'-0"	6	6'-0"	4	7"	11'-0"	5'-9"	22'-0"	8	7"	11'-0"	4	7"	3'-6"	6'-9"	4	12"	10'-2"	44	28
10	10	15"	15"	8"	9	9'-0"	9	9'-0"	8	8'-0"	6	6 1/2"	11'-0"	6'-9"	23'-8"	8	6 1/2"	11'-0"	--	--	--	--	4	9"	12'-2"	44	36
10	12	15"	15"	8"	9	9'-0"	9	9'-0"	10	10'-0"	6	6 1/2"	11'-0"	7'-9"	25'-8"	8	6 1/2"	11'-0"	--	--	--	--	4	4 1/2"	14'-2"	44	44
12	6	17 1/2"	17 1/2"	8"	11	11'-0"	11	11'-0"	4	4'-0"	4	6"	13'-0"	4'-11 1/2"	22'-5"	8	6"	13'-0"	3	6"	3'-10 3/4"	7'-7"	4	10"	8'-7"	52	20
12	8	17 3/4"	17 3/4"	8"	11	11'-0"	11	11'-0"	6	6'-0"	5	4 1/2"	13'-0"	5'-11 3/4"	24'-4"	7	4 1/2"	13'-0"	--	--	--	--	4	12"	10'-7"	52	28
12	10	17 3/4"	17 3/4"	8"	11	11'-0"	11	11'-0"	8	8'-0"	6	6"	13'-0"	6'-11 3/4"	26'-2"	8	6"	13'-0"	--	--	--	--	4	10"	12'-7"	52	36
12	12	17 3/4"	17 3/4"	8"	11	11'-0"	11	11'-0"	10	10'-0"	6	6"	13'-0"	7'-11 3/4"	28'-2"	8	6"	13'-0"	--	--	--	--	5	7 1/2"	14'-7"	52	44

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

<b>VDOT</b>	
ROAD AND BRIDGE STANDARDS	
SHEET 1 OF 2	REVISION DATE
1002.13	

## SINGLE BOX CULVERTS

### 20 TO 25 FT. FILLS

VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION  
REFERENCE