

DIMENSIONS							REINFORCING STEEL																									
SPAN (FT.)	HGHT (FT.)	T1 TOP SLAB	T2 BOTTOM SLAB	T3 EXTERIOR WALL (IN.)	T4 INTERIOR WALL (IN.)	A	B	C	D	E	F	BH1		BH2		BH3		BH4			BV1		BV2									
												SIZE	SPACING O-C	LENGTH	SIZE	SPACING O-C	LENGTH	SIZE	SPACING O-C	a	LENGTH	SIZE	SPACING O-C	a	b	LENGTH	SIZE	SPACING O-C	LENGTH	SIZE	SPACING O-C	LENGTH
3	3	8"	8"	8"	8"	6	6'-0"	12	6'-0"	1	1'-0"	4	12"	7'-6"	4	12"	7'-8"	---	---	---	---	4	12"	2'-1 1/4"	2'-8"	4'-6"	4	12"	4'-0"	4	12"	4'-0"
3	4	8 1/4"	8 1/4"	8"	8"	6	6'-0"	12	6'-0"	2	2'-0"	4	12"	7'-6"	4	12"	7'-8"	---	---	---	---	4	12"	2'-1 1/4"	3'-2 1/4"	5'-0"	4	12"	5'-0"	4	12"	5'-0"
4	3	8 1/4"	8 1/4"	8"	8"	8	8'-0"	16	8'-0"	1	1'-0"	4	12"	9'-1"	4	12"	9'-8"	---	---	---	---	4	12"	2'-3 3/8"	2'-8 1/4"	4'-9"	4	10 1/2"	4'-0"	4	12"	4'-0"
4	4	8 1/2"	8 1/2"	8"	8"	8	8'-0"	16	8'-0"	2	2'-0"	4	12"	9'-1"	4	12"	9'-8"	---	---	---	---	4	12"	2'-3 3/8"	3'-2 1/2"	5'-3"	4	12"	5'-1"	4	12"	5'-1"
4	5	8 1/2"	8 1/2"	8"	8"	8	8'-0"	16	8'-0"	3	3'-0"	4	12"	9'-1"	4	12"	9'-8"	---	---	---	---	4	12"	2'-3 3/8"	3'-8 1/2"	5'-9"	4	12"	6'-1"	4	12"	6'-1"
4	6	8 1/2"	8 1/2"	8"	8"	8	8'-0"	16	8'-0"	4	4'-0"	4	12"	9'-1"	4	12"	9'-8"	---	---	---	---	4	12"	2'-3 3/8"	4'-2 1/2"	6'-3"	4	12"	7'-1"	4	12"	7'-1"
5	3	8 1/2"	8 1/2"	8"	8"	10	10'-0"	20	10'-0"	1	1'-0"	4	12"	10'-8"	4	12"	11'-8"	---	---	---	---	4	12"	2'-6"	2'-8 1/2"	4'-11"	4	12"	4'-1"	4	12"	4'-1"
5	4	8 1/2"	8 1/2"	8"	8"	10	10'-0"	20	10'-0"	2	2'-0"	4	11"	10'-8"	4	11"	11'-8"	---	---	---	---	4	11"	2'-6"	3'-2 1/2"	5'-5"	4	12"	5'-1"	4	12"	5'-1"
5	5	8 1/2"	8 1/2"	8"	8"	10	10'-0"	20	10'-0"	3	3'-0"	4	11"	10'-8"	4	11"	11'-8"	---	---	---	---	4	11"	2'-6"	3'-8 1/2"	5'-11"	4	12"	6'-1"	4	12"	6'-1"
5	6	8 1/2"	8 1/2"	8"	8"	10	10'-0"	20	10'-0"	4	4'-0"	4	11"	10'-8"	4	11"	11'-8"	---	---	---	---	4	11"	2'-6"	4'-2 1/2"	6'-5"	4	12"	7'-1"	4	12"	7'-1"
5	7	8 3/4"	8 3/4"	8"	8"	10	10'-0"	20	10'-0"	5	5'-0"	4	11"	10'-8"	4	11"	11'-8"	---	---	---	---	4	11"	2'-6"	4'-8 3/4"	7'-0"	4	12"	8'-2"	4	12"	8'-2"
6	4	8 1/2"	8 1/2"	8"	8"	12	12'-0"	24	12'-0"	2	2'-0"	4	10"	12'-3"	4	10"	13'-8"	---	---	---	---	4	10"	2'-8 3/8"	3'-2 1/2"	5'-8"	4	12"	5'-1"	4	12"	5'-1"
6	5	8 3/4"	8 3/4"	8"	8"	12	12'-0"	24	12'-0"	3	3'-0"	4	10"	12'-3"	4	10"	13'-8"	---	---	---	---	4	10"	2'-8 3/8"	3'-8 3/4"	6'-2"	4	12"	6'-2"	4	12"	6'-2"
6	6	8 3/4"	8 3/4"	8"	8"	12	12'-0"	24	12'-0"	4	4'-0"	4	9"	12'-3"	4	9"	13'-8"	---	---	---	---	4	9"	2'-8 3/8"	4'-2 3/4"	6'-8"	4	12"	7'-2"	4	12"	7'-2"
6	7	8 3/4"	8 3/4"	8"	8"	12	12'-0"	24	12'-0"	5	5'-0"	4	9"	12'-3"	4	9"	13'-8"	---	---	---	---	4	9"	2'-8 3/8"	4'-8 3/4"	7'-2"	4	12"	8'-2"	4	12"	8'-2"
6	8	8 3/4"	8 3/4"	8"	8"	12	12'-0"	24	12'-0"	6	6'-0"	4	9"	12'-3"	4	9"	13'-8"	---	---	---	---	4	9"	2'-8 3/8"	5'-2 3/4"	7'-8"	4	12"	9'-2"	4	12"	9'-2"
7	4	8 3/4"	8 3/4"	8"	8"	14	14'-0"	28	14'-0"	2	2'-0"	4	9"	13'-10"	4	9"	15'-8"	4	9"	2'-10 3/4"	5'-6"	4	9"	2'-10 3/4"	3'-2 3/4"	5'-10"	4	12"	5'-2"	4	11"	5'-2"
7	6	8 3/4"	8 3/4"	8"	8"	14	14'-0"	28	14'-0"	4	4'-0"	4	8"	13'-10"	4	8"	15'-8"	4	8"	2'-10 3/4"	5'-6"	4	8"	2'-10 3/4"	4'-2 3/4"	6'-10"	4	12"	7'-2"	4	11 1/2"	7'-2"
7	8	8 3/4"	8 3/4"	8"	8"	14	14'-0"	28	14'-0"	6	6'-0"	4	8"	13'-10"	4	8"	15'-8"	4	8"	2'-10 3/4"	5'-6"	4	8"	2'-10 3/4"	5'-2 3/4"	7'-10"	4	12"	9'-2"	4	12"	9'-2"
7	10	9"	9"	8"	8"	14	14'-0"	28	14'-0"	8	8'-0"	5	12"	13'-10"	5	12"	15'-8"	4	12"	2'-10 3/4"	5'-6"	5	12"	2'-10 3/4"	6'-3"	8'-10"	4	12"	11'-2"	4	12"	11'-2"
8	4	8 3/4"	8 3/4"	8"	8"	16	16'-0"	32	16'-0"	2	2'-0"	5	11"	15'-6"	5	11"	17'-8"	4	11"	3'-1 1/4"	5'-11"	5	11"	3'-1 1/4"	3'-2 3/4"	6'-0"	4	12"	5'-2"	4	10"	5'-2"
8	6	8 3/4"	8 3/4"	8"	8"	16	16'-0"	32	16'-0"	4	4'-0"	5	11"	15'-6"	5	11"	17'-8"	4	11"	3'-1 1/4"	5'-11"	5	11"	3'-1 1/4"	4'-2 3/4"	7'-0"	4	12"	7'-2"	4	10"	7'-2"
8	8	9"	9"	8"	8"	16	16'-0"	32	16'-0"	6	6'-0"	5	11"	15'-6"	5	11"	17'-8"	4	11"	3'-1 1/4"	5'-11"	5	11"	3'-1 1/4"	5'-3"	8'-0"	4	12"	9'-2"	4	10 1/2"	9'-2"
8	10	9"	9"	8"	8"	16	16'-0"	32	16'-0"	8	8'-0"	5	10"	15'-6"	5	10"	17'-8"	4	10"	3'-1 1/4"	5'-11"	5	10"	3'-1 1/4"	6'-3"	9'-0"	4	12"	11'-2"	4	11"	11'-2"
9	4	8 3/4"	8 3/4"	8"	8"	18	18'-0"	36	18'-0"	2	2'-0"	5	10"	17'-1"	5	10"	19'-8"	4	10"	3'-3 3/8"	6'-4"	5	10"	3'-3 3/8"	3'-2 3/4"	6'-2"	4	12"	5'-2"	4	9"	5'-2"
9	6	8 3/4"	8 3/4"	8"	8"	18	18'-0"	36	18'-0"	4	4'-0"	5	9"	17'-1"	5	9"	19'-8"	4	9"	3'-3 3/8"	6'-4"	5	9"	3'-3 3/8"	4'-2 3/4"	7'-2"	4	12"	7'-2"	4	9 1/2"	7'-2"
9	8	9 1/2"	9 1/2"	8"	8"	18	18'-0"	36	18'-0"	6	6'-0"	5	10"	17'-1"	5	10"	19'-8"	4	10"	3'-3 3/8"	6'-4"	5	10"	3'-3 3/8"	5'-3 1/2"	8'-3"	4	12"	9'-3"	4	10"	9'-3"
9	10	9 3/4"	9 3/4"	8"	8"	18	18'-0"	36	18'-0"	8	8'-0"	5	9"	17'-1"	5	9"	19'-8"	4	9"	3'-3 3/8"	6'-4"	5	9"	3'-3 3/8"	6'-3 3/4"	9'-3"	4	12"	11'-3"	4	10 1/2"	11'-3"
9	12	9 3/4"	9 3/4"	8"	8"	18	18'-0"	36	18'-0"	10	10'-0"	6	12"	17'-1"	6	12"	19'-8"	5	12"	3'-3 3/8"	6'-3"	6	12"	3'-3 3/8"	7'-3 3/4"	10'-3"	4	11 1/2"	13'-3"	4	11 1/2"	13'-3"
10	4	9 1/2"	9 1/2"	8"	8"	20	20'-0"	40	20'-0"	2	2'-0"	5	9"	18'-8"	5	9"	21'-8"	4	9"	3'-6"	6'-9"	5	9"	3'-6"	3'-3 1/2"	6'-6"	4	12"	5'-3"	4	8 1/2"	5'-3"
10	6	9 1/2"	9 1/2"	8"	8"	20	20'-0"	40	20'-0"	4	4'-0"	5	9"	18'-8"	5	9"	21'-8"	4	9"	3'-6"	6'-9"	5	9"	3'-6"	4'-3 1/2"	7'-6"	4	12"	7'-3"	4	9"	7'-3"
10	8	9 3/4"	9 3/4"	8"	8"	20	20'-0"	40	20'-0"	6	6'-0"	6	12"	18'-8"	6	12"	21'-8"	5	12"	3'-6"	6'-8"	6	12"	3'-6"	5'-3 3/4"	8'-5"	4	12"	9'-3"	4	10"	9'-3"
10	10	9 3/4"	9 3/4"	8"	8"	20	20'-0"	40	20'-0"	8	8'-0"	5	8"	18'-8"	5	8"	21'-8"	4	8"	3'-6"	6'-9"	5	8"	3'-6"	6'-3 3/4"	9'-6"	4	12"	11'-3"	4	10"	11'-3"
10	12	10"	10"	8"	8"	20	20'-0"	40	20'-0"	10	10'-0"	5	8"	18'-8"	5	8"	21'-8"	4	8"	3'-6"	6'-9"	5	8"	3'-6"	7'-4"	10'-6"	4	11 1/2"	13'-4"	4	10"	13'-4"
12	6	10 1/2"	10 1/2"	8"	8"	24	24'-0"	48	24'-0"	4	4'-0"	6	12"	21'-10"	6	12"	25'-8"	5	12"	3'-10 3/4"	7'-6"	6	12"	3'-10 3/4"	4'-4 1/2"	7'-10"	4	12"	7'-5"	4	8"	7'-5"
12	8	10 3/4"	10 3/4"	8"	8"	24	24'-0"	48	24'-0"	6	6'-0"	5	8"	21'-10"	5	8"	25'-8"	4	8"	3'-10 3/4"	7'-6"	5	8"	3'-10 3/4"	5'-4 3/4"	9'-0"	4	12"	9'-5"	4	9"	9'-5"
12	10	10 3/4"	10 3/4"	8"	8"	24	24'-0"	48	24'-0"	8	8'-0"	6	10"	21'-10"	6	10"	25'-8"	5	10"	3'-10 3/4"	7'-6"	6	10"	3'-10 3/4"	6'-4 3/4"	9'-11"	4	12"	11'-5"	4	10"	11'-5"
12	12	11"	11"	8"	8"	24	24'-0"	48	24'-0"	10	10'-0"	6	9"	21'-10"	5	9"	25'-8"	5	9"	3'-10 3/4"	7'-6"	5	9"	3'-10 3/4"	7'-5"	11'-0"	4	12"	13'-6"	4	10"	13'-6"

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

**VDOT**  
ROAD AND BRIDGE STANDARDS

SHEET 1 OF 2      REVISION DATE

1003.04

## DOUBLE BOX CULVERTS

0 TO 2 FT. FILLS

VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION  
REFERENCE