

BCD-10

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

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

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

VDOT
ROAD AND BRIDGE STANDARDS

SHEET 1 OF 2 REVISION DATE
1003.09 07/11

DOUBLE BOX CULVERTS
5 TO 10 FT. FILLS
VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE