

2016 ROAD & BRIDGE STANDARDS

BCQ-05

FOR TYPICAL SECTION, NOTES AND OTHER DETAILS, REFER TO STANDARD BCQ-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	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"	13	13'-0"	13	13'-0"	1	1'-0"	4	12"	14'-10"	4	12"	15'-0"	--	---	-----	-----	4	12"	2'-1 1/4"	2'-8"	4'-6"	4	12"	4'-0"	4	12"	4'-0"	4	12"	4'-0"
3	4	8"	8"	8"	8"	13	13'-0"	13	13'-0"	2	2'-0"	4	12"	14'-10"	4	12"	15'-0"	--	---	-----	-----	4	12"	2'-1 1/4"	3'-2"	5'-0"	4	12"	5'-0"	4	12"	5'-0"	4	12"	5'-0"
4	3	8"	8"	8"	8"	17	17'-0"	17	17'-0"	1	1'-0"	4	12"	18'-5"	4	12"	19'-0"	--	---	-----	-----	4	12"	2'-3 5/8"	2'-8"	4'-8"	4	12"	4'-0"	4	12"	4'-0"	4	12"	4'-0"
4	4	8"	8"	8"	8"	17	17'-0"	17	17'-0"	2	2'-0"	4	12"	18'-5"	4	12"	19'-0"	4	12"	2'-3 5/8"	4'-4"	4	12"	2'-3 5/8"	3'-2"	5'-2"	4	12"	5'-0"	4	12"	5'-0"	4	12"	5'-0"
4	5	8"	8"	8"	8"	17	17'-0"	17	17'-0"	3	3'-0"	4	12"	18'-5"	4	12"	19'-0"	4	12"	2'-6"	4'-9"	4	12"	2'-3 5/8"	3'-8"	5'-8"	4	12"	6'-0"	4	11 1/2"	6'-0"	4	11 1/2"	6'-0"
4	6	8"	8"	8"	8"	17	17'-0"	17	17'-0"	4	4'-0"	4	12"	18'-5"	4	12"	19'-0"	4	12"	2'-9"	5'-5"	4	12"	2'-3 5/8"	4'-2"	6'-2"	4	12"	7'-0"	4	11"	7'-0"	4	11"	7'-0"
5	3	8"	8"	8"	8"	21	21'-0"	21	21'-0"	1	1'-0"	4	12"	22'-0"	4	12"	23'-0"	4	12"	2'-6"	4'-9"	4	12"	2'-6"	2'-8"	4'-11"	4	12"	4'-0"	4	12"	4'-0"	4	12"	4'-0"
5	4	8"	8"	8"	8"	21	21'-0"	21	21'-0"	2	2'-0"	4	12"	22'-0"	4	12"	23'-0"	4	12"	2'-6"	4'-9"	4	12"	2'-6"	3'-2"	5'-5"	4	12"	5'-0"	4	10"	5'-0"	4	10"	5'-0"
5	5	8"	8"	8"	8"	21	21'-0"	21	21'-0"	3	3'-0"	4	12"	22'-0"	4	12"	23'-0"	4	12"	2'-6"	4'-9"	4	12"	2'-6"	3'-8"	5'-11"	4	12"	6'-0"	4	10"	6'-0"	4	10"	6'-0"
5	6	8"	8"	8"	8"	21	21'-0"	21	21'-0"	4	4'-0"	4	12"	22'-0"	4	12"	23'-0"	4	12"	2'-9"	5'-5"	4	12"	2'-6"	4'-2"	6'-5"	4	12"	7'-0"	4	10"	7'-0"	4	10"	7'-0"
5	7	8"	8"	8"	8"	21	21'-0"	21	21'-0"	5	5'-0"	4	12"	22'-0"	4	12"	23'-0"	4	12"	2'-11"	5'-8"	4	12"	2'-6"	4'-8"	6'-11"	4	12"	8'-0"	4	9 1/2"	8'-0"	4	9 1/2"	8'-0"
6	4	8"	8"	8"	8"	25	25'-0"	25	25'-0"	2	2'-0"	4	12"	25'-8"	4	12"	27'-0"	--	---	-----	-----	5	12"	2'-8 3/8"	3'-2"	5'-6"	4	12"	5'-0"	4	9"	5'-0"	4	9"	5'-0"
6	5	8"	8"	8"	8"	25	25'-0"	25	25'-0"	3	3'-0"	4	12"	25'-8"	4	12"	27'-0"	--	---	-----	-----	5	12"	2'-8 3/8"	3'-8"	6'-0"	4	12"	6'-0"	4	8"	6'-0"	4	8"	6'-0"
6	6	8"	8"	8"	8"	25	25'-0"	25	25'-0"	4	4'-0"	4	12"	25'-8"	4	12"	27'-0"	--	---	-----	-----	5	12"	2'-8 3/8"	4'-2"	6'-6"	4	12"	7'-0"	4	7 1/2"	7'-0"	4	7 1/2"	7'-0"
6	7	8"	8"	8"	8"	25	25'-0"	25	25'-0"	5	5'-0"	4	11"	25'-8"	4	11"	27'-0"	--	---	-----	-----	5	11"	2'-8 3/8"	4'-8"	7'-0"	4	12"	8'-0"	4	7 1/2"	8'-0"	4	7 1/2"	8'-0"
6	8	8"	8"	8"	8"	25	25'-0"	25	25'-0"	6	6'-0"	4	11"	25'-8"	4	11"	27'-0"	4	11"	3'-2"	6'-2"	5	11"	2'-8 3/8"	5'-2"	7'-6"	4	12"	9'-0"	4	7 1/2"	9'-0"	4	7 1/2"	9'-0"
7	4	8"	8"	8"	8"	29	29'-0"	29	29'-0"	2	2'-0"	4	8"	29'-11"	4	8"	31'-0"	4	8"	2'-10 3/4"	5'-6"	4	8"	2'-10 3/4"	3'-2"	5'-10"	4	12"	5'-0"	4	7"	5'-0"	4	7"	5'-0"
7	6	8"	8"	8"	8"	29	29'-0"	29	29'-0"	4	4'-0"	4	8"	29'-11"	4	8"	31'-0"	4	8"	2'-10 3/4"	5'-6"	4	8"	2'-10 3/4"	4'-2"	6'-10"	4	12"	7'-0"	5	9 1/2"	7'-0"	4	9 1/2"	7'-0"
7	8	8"	8"	8"	8"	29	29'-0"	29	29'-0"	6	6'-0"	4	8"	29'-11"	4	8"	31'-0"	4	8"	3'-2"	6'-2"	4	8"	2'-10 3/4"	5'-2"	7'-10"	4	12"	9'-0"	4	6"	9'-0"	4	6"	9'-0"
7	10	8"	8"	8"	8"	29	29'-0"	29	29'-0"	8	8'-0"	4	8"	29'-11"	4	8"	31'-0"	4	8"	3'-6"	6'-9"	4	8"	2'-10 3/4"	6'-2"	8'-10"	5	12"	11'-0"	5	9"	11'-0"	4	9"	11'-0"
8	4	8"	8"	8"	8"	33	33'-0"	33	33'-0"	2	2'-0"	5	10"	33'-8"	5	10"	35'-0"	4	10"	3'-1 1/4"	5'-11"	5	10"	3'-1 1/4"	3'-2"	5'-11"	4	12"	5'-0"	4	6"	5'-0"	4	6"	5'-0"
8	6	8 1/4"	8 1/4"	8"	8"	33	33'-0"	33	33'-0"	4	4'-0"	5	11"	33'-8"	5	11"	35'-0"	--	---	-----	-----	6	11"	3'-7"	4'-6"	7'-9"	4	12"	7'-0"	4	5 1/2"	7'-0"	4	5 1/2"	7'-0"
8	8	8 1/4"	8 1/4"	8"	8"	33	33'-0"	33	33'-0"	6	6'-0"	6	11"	33'-8"	5	11"	35'-0"	4	11"	3'-1 1/4"	5'-11"	6	11"	3'-7"	5'-6"	8'-9"	4	12"	9'-0"	5	8"	9'-0"	4	8"	9'-0"
8	10	8 1/2"	8 1/2"	8"	8"	33	33'-0"	33	33'-0"	8	8'-0"	5	10"	33'-8"	5	10"	35'-0"	4	10"	3'-6"	6'-9"	5	10"	3'-1 1/4"	6'-2 1/2"	9'-0"	5	12"	11'-1"	5	8"	11'-1"	4	8"	11'-1"
9	4	8 1/2"	8 1/2"	8"	8"	37	37'-0"	37	37'-0"	2	2'-0"	5	9"	37'-8"	5	9"	39'-0"	4	9"	3'-3 5/8"	6'-4"	5	9"	3'-3 5/8"	3'-2 1/2"	6'-2"	4	12"	5'-1"	4	5 1/2"	5'-1"	4	5 1/2"	5'-1"
9	6	8 1/2"	8 1/2"	8"	8"	37	37'-0"	37	37'-0"	4	4'-0"	5	9"	37'-8"	5	9"	39'-0"	4	9"	3'-3 5/8"	6'-4"	5	9"	3'-3 5/8"	4'-2 1/2"	7'-2"	4	12"	7'-1"	5	8"	7'-1"	4	8"	7'-1"
9	8	8 1/2"	8 1/2"	8"	8"	37	37'-0"	37	37'-0"	6	6'-0"	5	9"	37'-8"	5	9"	39'-0"	4	9"	3'-3 5/8"	6'-4"	5	9"	3'-3 5/8"	5'-2 1/2"	8'-2"	4	12"	9'-1"	5	8"	9'-1"	4	8"	9'-1"
9	10	9"	9"	8"	8"	37	37'-0"	37	37'-0"	8	8'-0"	5	9"	37'-8"	5	9"	39'-0"	4	9"	3'-8"	6'-11"	5	9"	3'-3 5/8"	6'-3"	9'-3"	5	12"	11'-2"	4	5 1/2"	11'-2"	4	5 1/2"	11'-2"
9	12	9"	9"	8"	8"	37	37'-0"	37	37'-0"	10	10'-0"	6	12"	37'-8"	6	12"	39'-0"	4	12"	4'-1"	7'-11"	6	12"	3'-10"	7'-7"	11'-0"	5	8"	13'-2"	5	9"	13'-2"	4	9"	13'-2"
10	4	9"	9"	8"	8"	41	41'-0"	41	41'-0"	2	2'-0"	6	12"	41'-8"	6	12"	43'-0"	--	---	-----	-----	7	12"	4'-5"	3'-10"	7'-9"	4	12"	5'-2"	4	5"	5'-2"	4	5"	5'-2"
10	6	9"	9"	8"	8"	41	41'-0"	41	41'-0"	4	4'-0"	6	12"	41'-8"	6	12"	43'-0"	--	---	-----	-----	7	12"	4'-5"	4'-10"	8'-9"	4	12"	7'-2"	5	7 1/2"	7'-2"	4	7 1/2"	7'-2"
10	8	9 1/4"	9 1/4"	8"	8"	41	41'-0"	41	41'-0"	6	6'-0"	5	8"	41'-8"	5	8"	43'-0"	4	8"	3'-6"	6'-9"	5	8"	3'-6"	5'-3 1/4"	8'-5"	4	12"	9'-2"	4	5"	9'-2"	4	5"	9'-2"
10	10	9 1/2"	9 1/2"	8"	8"	41	41'-0"	41	41'-0"	8	8'-0"	6	11"	41'-8"	6	11"	43'-0"	4	11"	3'-8"	6'-11"	6	11"	4'-0"	6'-7"	10'-3"	4	8 1/2"	11'-3"	5	8"	11'-3"	4	8"	11'-3"
10	12	9 3/4"	9 3/4"	8"	8"	41	41'-0"	41	41'-0"	10	10'-0"	6	11"	41'-8"	6	11"	43'-0"	--	---	-----	-----	7	11"	4'-5"	7'-11"	11'-10"	5	8"	13'-3"	4	5 1/2"	13'-3"	4	5 1/2"	13'-3"
12	6	10 1/2"	10 1/2"	8"	8"	49	49'-0"	49	49'-0"	4	4'-0"	6	12"	49'-8"	6	12"	51'-0"	--	---	-----	-----	7	12"	4'-10"	5'-0"	9'-4"	4	12"	7'-5"	5	7 1/2"	7'-5"	4	7 1/2"	7'-5"
12	8	10 1/4"	10 1/4"	8"	8"	49	49'-0"	49	49'-0"	6	6'-0"	6	8"	49'-8"	5	8"	51'-0"	4	8"	3'-10 3/4"	7'-6"	5	8"	3'-10 3/4"	5'-4 1/4"	8'-11"	4	12"	9'-5"	4	4 1/2"	9'-5"	4	4 1/2"	9'-5"
12	10	10 1/4"	10 1/4"	8"	8"	49	49'-0"	49	49'-0"	8	8'-0"	6	10"	49'-8"	6	10"	51'-0"	4	10"	3'-10 3/4"	7'-6"	6	10"	4'-5"	6'-8"	10'-8"	4	10"	11'-5"	5	7 1/2"	11'-5"	4	7 1/2"	11'-5"
12	12	10"	10"	8"	8"	49	49'-0"	49	49'-0"	10	10'-0"	6	9"	49'-8"	6	9"	51'-0"	4	9"	4'-1"	7'-11"	6	9"	4'-5"	7'-8"	11'-8"	5	9"	13'-4"	6	9 1/2"	13'-4"	4	9 1/2"	13'-4"

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
1005.07 07/11

QUADRUPLE BOX CULVERTS
2 TO 5 FT. FILLS
VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE