

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 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"	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"
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	3	9 1/4"	9 1/4"	8"	8"	17	17'-0"	17	17'-0"	1	1'-0"	4	12"	18'-5"	4	12"	19'-0"	--	--	----	----	4	12"	2'-3 3/8"	2'-9 1/4"	4'-10"	4	12"	4'-2"	4	12"	4'-2"
4	4	9 1/4"	9 1/4"	8"	8"	17	17'-0"	17	17'-0"	2	2'-0"	4	12"	18'-5"	4	12"	19'-0"	--	--	----	----	4	12"	2'-3 3/8"	3'-3 1/4"	5'-4"	4	12"	5'-2"	4	12"	5'-2"
4	5	9 1/4"	9 1/4"	8"	8"	17	17'-0"	17	17'-0"	3	3'-0"	4	12"	18'-5"	4	12"	19'-0"	--	--	----	----	4	12"	2'-3 3/8"	3'-9 1/4"	5'-10"	4	12"	6'-2"	4	12"	6'-2"
4	6	9 1/4"	9 1/4"	8"	8"	17	17'-0"	17	17'-0"	4	4'-0"	4	12"	18'-5"	4	12"	19'-0"	3	12"	2'-3 3/8"	4'-5"	4	12"	2'-3 3/8"	4'-3 1/4"	6'-4"	4	12"	7'-2"	4	12"	7'-2"
5	3	10 3/4"	10 3/4"	8"	8"	21	21'-0"	21	21'-0"	1	1'-0"	4	11"	22'-0"	4	11"	23'-0"	--	--	----	----	4	11"	2'-6"	2'-10 3/4"	5'-2"	4	12"	4'-5"	4	12"	4'-5"
5	4	10 3/4"	10 3/4"	8"	8"	21	21'-0"	21	21'-0"	2	2'-0"	4	11"	22'-0"	4	11"	23'-0"	--	--	----	----	4	11"	2'-6"	3'-4 3/4"	5'-8"	4	12"	5'-5"	4	12"	5'-5"
5	5	11"	11"	8"	8"	21	21'-0"	21	21'-0"	3	3'-0"	4	11"	22'-0"	4	11"	23'-0"	--	--	----	----	4	11"	2'-6"	3'-11"	6'-2"	4	12"	6'-6"	4	12"	6'-6"
5	6	11"	11"	8"	8"	21	21'-0"	21	21'-0"	4	4'-0"	4	11"	22'-0"	4	11"	23'-0"	3	11"	2'-6"	4'-10"	4	11"	2'-6"	4'-5"	6'-8"	4	12"	7'-6"	4	12"	7'-6"
5	7	11"	11"	8"	8"	21	21'-0"	21	21'-0"	5	5'-0"	4	11"	22'-0"	4	11"	23'-0"	4	11"	2'-6"	4'-9"	4	11"	2'-6"	4'-11"	7'-2"	4	10 1/2"	8'-6"	4	12"	8'-6"
6	4	13"	13"	8"	8"	25	25'-0"	25	25'-0"	2	2'-0"	4	9"	25'-7"	4	9"	27'-0"	--	--	----	----	4	9"	2'-8 3/8"	3'-7"	6'-0"	4	12"	5'-10"	4	12"	5'-10"
6	5	13"	13"	8"	8"	25	25'-0"	25	25'-0"	3	3'-0"	4	9"	25'-7"	4	9"	27'-0"	--	--	----	----	4	9"	2'-8 3/8"	4'-1"	6'-6"	4	12"	6'-10"	4	12"	6'-10"
6	6	13"	13"	8"	8"	25	25'-0"	25	25'-0"	4	4'-0"	4	9"	25'-7"	4	9"	27'-0"	--	--	----	----	4	9"	2'-8 3/8"	4'-7"	7'-0"	4	12"	7'-10"	4	12"	7'-10"
6	7	13"	13"	8"	8"	25	25'-0"	25	25'-0"	5	5'-0"	4	9"	25'-7"	4	9"	27'-0"	3	9"	2'-8 3/8"	5'-2"	4	9"	2'-8 3/8"	5'-1"	7'-6"	4	10 1/2"	8'-10"	4	12"	8'-10"
6	8	13"	13"	8"	8"	25	25'-0"	25	25'-0"	6	6'-0"	4	9"	25'-7"	4	9"	27'-0"	--	--	----	----	5	9"	2'-8 3/8"	5'-7"	7'-11"	5	10 1/2"	9'-10"	4	12"	9'-10"
7	4	14 1/2"	14 1/2"	8"	8"	29	29'-0"	29	29'-0"	2	2'-0"	5	9"	29'-2"	5	9"	31'-0"	--	--	----	----	4	9"	2'-10 3/4"	3'-8 1/2"	6'-4"	4	12"	6'-1"	4	12"	6'-1"
7	6	14 1/2"	14 1/2"	8"	8"	29	29'-0"	29	29'-0"	4	4'-0"	5	9"	29'-2"	5	9"	31'-0"	--	--	----	----	4	9"	2'-10 3/4"	4'-8 1/2"	7'-4"	4	12"	8'-1"	4	12"	8'-1"
7	8	14 1/2"	14 1/2"	8"	8"	29	29'-0"	29	29'-0"	6	6'-0"	5	9"	29'-2"	5	9"	31'-0"	3	9"	2'-10 3/4"	5'-7"	4	9"	2'-10 3/4"	5'-8 1/2"	8'-4"	4	7"	10'-1"	4	12"	10'-1"
7	10	14 3/4"	14 3/4"	8"	8"	29	29'-0"	29	29'-0"	8	8'-0"	4	9"	29'-2"	5	9"	31'-0"	3	9"	2'-10 3/4"	5'-7"	5	9"	2'-10 3/4"	6'-8 3/8"	9'-4"	6	9 1/2"	12'-1"	4	12"	12'-1"
8	4	16 1/2"	16 1/2"	8"	8"	33	33'-0"	33	33'-0"	2	2'-0"	5	8"	32'-10"	5	8"	35'-0"	--	--	----	----	4	8"	3'-1 1/4"	3'-10 1/2"	6'-9"	4	12"	6'-5"	4	11 1/2"	6'-5"
8	6	16 1/2"	16 1/2"	8"	8"	33	33'-0"	33	33'-0"	4	4'-0"	5	8"	32'-10"	5	8"	35'-0"	--	--	----	----	4	8"	3'-1 1/4"	4'-10 1/2"	7'-9"	4	12"	8'-5"	4	11 1/2"	8'-5"
8	8	16 1/2"	16 1/2"	8"	8"	33	33'-0"	33	33'-0"	6	6'-0"	5	8"	32'-10"	5	8"	35'-0"	3	8"	3'-1 1/4"	6'-0"	4	8"	3'-1 1/4"	5'-10 1/2"	8'-9"	5	10 1/2"	10'-5"	4	11 1/2"	10'-5"
8	10	16 1/2"	16 1/2"	8"	8"	33	33'-0"	33	33'-0"	8	8'-0"	5	8"	32'-10"	5	8"	35'-0"	3	8"	3'-1 1/4"	6'-0"	5	8"	3'-1 1/4"	6'-10 1/2"	9'-8"	6	9 1/2"	12'-5"	4	11 1/2"	12'-5"
9	4	18 1/2"	18 1/2"	8"	8"	37	37'-0"	37	37'-0"	2	2'-0"	6	9"	36'-5"	5	9"	39'-0"	--	--	----	----	4	9"	3'-3 3/8"	4'-1 1/2"	7'-1"	4	12"	6'-9"	4	10 1/2"	6'-9"
9	6	18 1/2"	18 1/2"	8"	8"	37	37'-0"	37	37'-0"	4	4'-0"	6	9"	36'-5"	5	9"	39'-0"	--	--	----	----	4	9"	3'-3 3/8"	5'-1 1/2"	8'-1"	4	12"	8'-9"	4	10 1/2"	8'-9"
9	8	18 1/2"	18 1/2"	8"	8"	37	37'-0"	37	37'-0"	6	6'-0"	6	9"	36'-5"	5	9"	39'-0"	3	9"	3'-3 3/8"	6'-5"	4	9"	3'-3 3/8"	6'-1 1/2"	9'-1"	5	10 1/2"	10'-9"	4	10 1/2"	10'-9"
9	10	18 1/2"	18 1/2"	8"	8"	37	37'-0"	37	37'-0"	8	8'-0"	6	9"	36'-5"	5	9"	39'-0"	--	--	----	----	6	9"	3'-3 3/8"	7'-1 1/2"	9'-11"	6	9 1/2"	12'-9"	4	10 1/2"	12'-9"
9	12	18 3/4"	18 3/4"	9 1/4"	8"	37	37'-0"	37	37'-0"	10	10'-0"	6	9"	36'-5"	5	9"	39'-3"	--	--	----	----	7	9"	3'-4 1/8"	8'-3/4"	11'-0"	5	5 1/2"	14'-9"	4	10 1/2"	14'-9"
10	4	20 1/2"	20 1/2"	8"	8"	41	41'-0"	41	41'-0"	2	2'-0"	6	9"	40'-0"	6	9"	43'-0"	--	--	----	----	4	9"	3'-6"	4'-2 1/2"	7'-5"	4	12"	7'-1"	4	10"	7'-1"
10	6	20 1/2"	20 1/2"	8"	8"	41	41'-0"	41	41'-0"	4	4'-0"	6	9"	40'-0"	6	9"	43'-0"	--	--	----	----	4	9"	3'-6"	5'-2 1/2"	8'-5"	4	12"	9'-1"	4	10"	9'-1"
10	8	20 1/2"	20 1/2"	8"	8"	41	41'-0"	41	41'-0"	6	6'-0"	6	9"	40'-0"	6	9"	43'-0"	3	9"	3'-6"	6'-10"	4	9"	3'-6"	6'-2 1/2"	9'-5"	4	6 1/2"	11'-1"	4	10"	11'-1"
10	10	20 1/2"	20 1/2"	8"	8"	41	41'-0"	41	41'-0"	8	8'-0"	6	9"	40'-0"	6	9"	43'-0"	3	9"	3'-6"	6'-10"	5	9"	3'-6"	7'-2 1/2"	10'-5"	6	9"	13'-1"	4	10"	13'-1"
10	12	20 1/2"	20 1/2"	9 1/4"	8"	41	41'-0"	41	41'-0"	10	10'-0"	6	9"	40'-0"	6	9"	43'-3"	3	9"	3'-7 1/4"	7'-0"	6	9"	3'-7 1/4"	8'-2 1/2"	11'-5"	7	10 1/2"	15'-1"	4	10"	15'-1"
12	6	24 1/4"	24 1/4"	8"	8"	49	49'-0"	49	49'-0"	4	4'-0"	6	8"	47'-2"	6	8"	51'-0"	--	--	----	----	4	8"	3'-10 3/4"	5'-6 1/4"	9'-2"	4	12"	9'-8"	4	10"	9'-8"
12	8	24 1/4"	24 1/4"	8"	8"	49	49'-0"	49	49'-0"	6	6'-0"	6	8"	47'-2"	6	8"	51'-0"	3	8"	3'-10 3/4"	7'-7"	4	8"	3'-10 3/4"	6'-6 1/4"	10'-2"	5	9 1/2"	11'-8"	4	10"	11'-8"
12	10	24 1/4"	24 1/4"	8"	8"	49	49'-0"	49	49'-0"	8	8'-0"	6	8"	47'-2"	6	8"	51'-0"	3	8"	3'-10 3/4"	7'-7"	5	8"	3'-10 3/4"	7'-6 1/4"	11'-1"	4	4"	13'-8"	4	10"	13'-8"
12	12	24 1/4"	24 1/4"	9 1/4"	8"	49	49'-0"	49	49'-0"	10	10'-0"	6	8"	47'-2"	6	8"	51'-3"	4	8"	4'-0"	7'-9"	5	8"	4'-0"	8'-6 1/4"	12'-2"	7	10"	15'-8"	4	10"	15'-8"

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

VDOT	
ROAD AND BRIDGE STANDARDS	
SHEET 1 OF 2	REVISION DATE
1005.18	

QUADRUPLE BOX CULVERTS

30 TO 35 FT. FILLS

VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION
REFERENCE