


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	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'-11/4"	3'-11"	4	12"	2'-11/4"	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"	3	12"	2'-11/4"	4'-0"	4	12"	2'-11/4"	3'-2"	5'-0"	4	12"	5'-0"	4	12"	5'-0"	
4	3	10"	10"	8"	8"	17	17'-0"	17	17'-0"	1	1'-0"	4	12"	18'-5"	4	12"	19'-0"	--	--	--	--	--	4	12"	2'-35/8"	2'-10"	4'-10"	4	12"	4'-4"	4	12"	4'-4"
4	4	9 3/4"	9 3/4"	8"	8"	17	17'-0"	17	17'-0"	2	2'-0"	4	12"	18'-5"	4	12"	19'-0"	--	--	--	--	--	4	12"	2'-35/8"	3'-3 3/4"	5'-4"	4	12"	5'-3"	4	12"	5'-3"
4	5	9 3/4"	9 3/4"	8"	8"	17	17'-0"	17	17'-0"	3	3'-0"	4	12"	18'-5"	4	12"	19'-0"	--	--	--	--	--	4	12"	2'-35/8"	3'-9 3/4"	5'-10"	4	12"	6'-3"	4	12"	6'-3"
4	6	9 3/4"	9 3/4"	8"	8"	17	17'-0"	17	17'-0"	4	4'-0"	4	12"	18'-5"	4	12"	19'-0"	4	12"	2'-35/8"	4'-4"	4	12"	2'-35/8"	4'-3 3/4"	6'-4"	4	12"	7'-3"	4	12"	7'-3"	
5	3	12"	12"	8"	8"	21	21'-0"	21	21'-0"	1	1'-0"	4	11"	22'-0"	4	11"	23'-0"	--	--	--	--	--	4	11"	2'-6"	3'-0"	5'-3"	4	12"	4'-8"	4	12"	4'-8"
5	4	12"	12"	8"	8"	21	21'-0"	21	21'-0"	2	2'-0"	4	11"	22'-0"	4	11"	23'-0"	--	--	--	--	--	4	11"	2'-6"	3'-6"	5'-9"	4	12"	5'-8"	4	12"	5'-8"
5	5	11 3/4"	11 3/4"	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 3/4"	6'-3"	4	12"	6'-8"	4	12"	6'-8"
5	6	11 3/4"	11 3/4"	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 3/4"	6'-9"	4	12"	7'-8"	4	12"	7'-8"	
5	7	11 3/4"	11 3/4"	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 3/4"	7'-3"	4	8 1/2"	8'-8"	4	12"	8'-8"	
6	4	13 3/4"	13 3/4"	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 3/4"	6'-1"	4	12"	6'-0"	4	12"	6'-0"
6	5	13 3/4"	13 3/4"	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 3/4"	6'-7"	4	12"	7'-0"	4	12"	7'-0"
6	6	13 3/4"	13 3/4"	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 3/4"	7'-1"	4	12"	8'-0"	4	12"	8'-0"
6	7	14"	14"	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'-2"	7'-7"	4	8 1/2"	9'-0"	4	12"	9'-0"	
6	8	14"	14"	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'-8"	8'-0"	4	6"	10'-0"	4	12"	10'-0"
7	4	15 3/4"	15 3/4"	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'-9 3/4"	6'-5"	4	12"	6'-3"	4	11 1/2"	6'-3"
7	6	15 3/4"	15 3/4"	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'-9 3/4"	7'-5"	4	12"	8'-3"	4	11 1/2"	8'-3"
7	8	15 3/4"	15 3/4"	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'-9 3/4"	8'-5"	4	6"	10'-3"	4	11 1/2"	10'-3"	
7	10	15 3/4"	15 3/4"	8 1/2"	8"	29	29'-0"	29	29'-0"	8	8'-0"	5	9"	29'-2"	5	9"	31'-1"	3	9"	2'-11 1/4"	5'-8"	5	9"	2'-11 1/4"	6'-9 3/4"	9'-5"	5	6 1/2"	12'-3"	4	12"	12'-3"	
8	4	17 3/4"	17 3/4"	8"	8"	33	33'-0"	33	33'-0"	2	2'-0"	5	9"	32'-10"	5	9"	35'-0"	--	--	--	--	--	4	9"	3'-1 1/4"	3'-11 3/4"	6'-10"	4	12"	6'-7"	4	10 1/2"	6'-7"
8	6	17 3/4"	17 3/4"	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'-11 3/4"	7'-10"	4	12"	8'-7"	4	10 1/2"	8'-7"
8	8	17 3/4"	17 3/4"	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'-11 3/4"	8'-10"	4	6"	10'-7"	4	10 1/2"	10'-7"	
8	10	17 3/4"	17 3/4"	8 1/2"	8"	33	33'-0"	33	33'-0"	8	8'-0"	5	8"	32'-10"	5	8"	35'-1"	3	8"	3'-1 3/4"	6'-1"	5	8"	3'-1 3/4"	6'-11 3/4"	9'-10"	6	9"	12'-7"	4	10 1/2"	12'-7"	
9	4	20"	20"	8"	8"	37	37'-0"	37	37'-0"	2	2'-0"	6	9"	36'-5"	6	9"	39'-0"	--	--	--	--	--	4	9"	3'-35/8"	4'-2"	7'-2"	4	12"	7'-0"	4	10"	7'-0"
9	6	20"	20"	8"	8"	37	37'-0"	37	37'-0"	4	4'-0"	6	9"	36'-5"	6	9"	39'-0"	--	--	--	--	--	4	9"	3'-35/8"	5'-2"	8'-2"	4	12"	9'-0"	4	10"	9'-0"
9	8	20"	20"	8"	8"	37	37'-0"	37	37'-0"	6	6'-0"	6	9"	36'-5"	6	9"	39'-0"	--	--	--	--	--	5	9"	3'-35/8"	6'-2"	9'-2"	4	6"	11'-0"	4	10"	11'-0"
9	10	20"	20"	8 1/2"	8"	37	37'-0"	37	37'-0"	8	8'-0"	6	9"	36'-5"	6	9"	39'-1"	--	--	--	--	--	6	9"	3'-4 1/8"	7'-2"	10'-1"	6	9"	13'-0"	4	10"	13'-0"
9	12	20"	20"	10"	8"	37	37'-0"	37	37'-0"	10	10'-0"	6	9"	36'-5"	6	9"	39'-4"	3	9"	3'-5 5/8"	6'-9"	6	9"	3'-5 5/8"	8'-2"	11'-3"	7	10 1/2"	15'-0"	4	10"	15'-0"	
10	4	22 1/2"	22 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'-4 1/2"	7'-7"	4	12"	7'-5"	4	10"	7'-5"
10	6	22 1/2"	22 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'-4 1/2"	8'-7"	4	12"	9'-5"	4	10"	9'-5"
10	8	22 1/2"	22 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'-4 1/2"	9'-7"	5	9"	11'-5"	4	10"	11'-5"	
10	10	22 1/2"	22 1/2"	8 1/2"	8"	41	41'-0"	41	41'-0"	8	8'-0"	7	9"	40'-0"	6	9"	43'-1"	--	--	--	--	--	6	9"	3'-6 1/2"	7'-4 1/2"	10'-6"	5	6"	13'-5"	4	10"	13'-5"
10	12	22 1/2"	22 1/2"	10"	8"	41	41'-0"	41	41'-0"	10	10'-0"	6	9"	40'-0"	6	9"	43'-4"	3	9"	3'-8"	7'-2"	6	9"	3'-8"	8'-4 1/2"	11'-8"	6	7 1/2"	15'-5"	4	10"	15'-5"	
12	6	26 1/2"	26 1/2"	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'-8 1/2"	9'-4"	4	11"	10'-1"	4	9"	10'-1"
12	8	26 1/2"	26 1/2"	8"	8"	49	49'-0"	49	49'-0"	6	6'-0"	6	8"	47'-2"	6	8"	51'-0"	--	--	--	--	--	4	8"	3'-10 3/4"	6'-8 1/2"	10'-4"	4	5 1/2"	12'-1"	4	9"	12'-1"
12	10	26 1/2"	26 1/2"	8 1/2"	8"	49	49'-0"	49	49'-0"	8	8'-0"	6	8"	47'-2"	6	8"	51'-1"	3	8"	3'-11 1/4"	7'-8"	5	8"	3'-11 1/4"	7'-8 1/4"	11'-4"	6	8"	14'-0"	4	9"	14'-0"	
12	12	26 1/2"	26 1/2"	10"	8"	49	49'-0"	49	49'-0"	10	10'-0"	6	8"	47'-2"	6	8"	51'-4"	4	8"	4'-3/4"	7'-10"	5	8"	4'-3/4"	8'-8 1/2"	12'-5"	5	5"	16'-1"	4	9"	16'-1"	

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

 ROAD AND BRIDGE STANDARDS	
SHEET 1 OF 2	REVISION DATE
1005.20	

QUADRUPLE BOX CULVERTS
35 TO 40 FT. FILLS
 VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE