


2016 ROAD & BRIDGE STANDARDS

BCS-02

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

DIMENSIONS					REINFORCING STEEL																						
SPAN (FT.)	HGHT (FT.)	T1 TOP SLAB (IN.)	T2 BOTTOM SLAB (IN.)	T3 WALL (IN.)	A	B	C	D	E	F	BH1			BH2			BH3			BV1			NO. BL1 #4 BARS	NO. BL2 #3 BARS			
											SIZE	SPACING C-C	a	b	LENGTH	SIZE	SPACING C-C	LENGTH	SIZE	SPACING C-C	a	LENGTH	SIZE	SPACING C-C	LENGTH		
3	3	8 1/2"	8 1/2"	8"	2	2'-0"	4	2'-0"	1	1'-0"	4	12"	4'-0"	2'-8 1/2"	8'-11"	5	12"	4'-0"	4	12"	2'-6"	4'-9"	4	12"	4'-1"	18	8
3	4	8 1/2"	8 1/2"	8"	2	2'-0"	4	2'-0"	2	2'-0"	4	12"	4'-0"	3'-2 1/2"	9'-11"	6	12"	4'-0"	--	--	----	----	4	12"	5'-1"	18	12
4	3	9"	9"	8"	3	3'-0"	6	3'-0"	1	1'-0"	4	12"	5'-0"	2'-9"	10'-0"	6	12"	5'-0"	--	--	----	----	4	10 1/2"	4'-2"	23	8
4	4	9"	9"	8"	3	3'-0"	6	3'-0"	2	2'-0"	4	12"	5'-0"	3'-3"	11'-0"	6	12"	5'-0"	--	--	----	----	4	12"	5'-2"	23	12
4	5	9"	9"	8"	3	3'-0"	6	3'-0"	3	3'-0"	4	12"	5'-0"	3'-9"	12'-0"	6	12"	5'-0"	--	--	----	----	4	12"	6'-2"	23	16
4	6	9"	9"	8"	3	3'-0"	6	3'-0"	4	4'-0"	4	11"	5'-0"	4'-3"	13'-0"	6	11"	5'-0"	--	--	----	----	4	12"	7'-2"	23	20
5	3	9 1/4"	9 1/4"	8"	4	4'-0"	8	4'-0"	1	1'-0"	4	11"	6'-0"	2'-9 1/4"	11'-0"	6	11"	6'-0"	--	--	----	----	4	12"	4'-2"	28	8
5	4	9 1/4"	9 1/4"	8"	4	4'-0"	8	4'-0"	2	2'-0"	4	11"	6'-0"	3'-3 1/4"	12'-0"	6	11"	6'-0"	--	--	----	----	4	12"	5'-2"	28	12
5	5	9 1/4"	9 1/4"	8"	4	4'-0"	8	4'-0"	3	3'-0"	4	10"	6'-0"	3'-9 1/4"	13'-0"	6	10"	6'-0"	--	--	----	----	4	12"	6'-2"	28	16
5	6	9"	9"	8"	4	4'-0"	8	4'-0"	4	4'-0"	4	10"	6'-0"	4'-3"	14'-0"	6	10"	6'-0"	--	--	----	----	4	12"	7'-2"	28	20
5	7	9"	9"	8"	4	4'-0"	8	4'-0"	5	5'-0"	4	9"	6'-0"	4'-9"	15'-0"	6	9"	6'-0"	--	--	----	----	4	12"	8'-2"	28	24
6	4	9 1/4"	9 1/4"	8"	5	5'-0"	10	5'-0"	2	2'-0"	4	9"	7'-0"	3'-3 1/4"	13'-0"	6	9"	7'-0"	--	--	----	----	4	12"	5'-2"	33	12
6	5	9 1/4"	9 1/4"	8"	5	5'-0"	10	5'-0"	3	3'-0"	4	9"	7'-0"	3'-9 1/4"	14'-0"	6	9"	7'-0"	--	--	----	----	4	12"	6'-2"	33	16
6	6	9 1/4"	9 1/4"	8"	5	5'-0"	10	5'-0"	4	4'-0"	4	9"	7'-0"	4'-3 1/4"	15'-0"	6	9"	7'-0"	--	--	----	----	4	12"	7'-2"	33	20
6	7	9 1/4"	9 1/4"	8"	5	5'-0"	10	5'-0"	5	5'-0"	4	8"	7'-0"	4'-9 1/4"	16'-0"	6	8"	7'-0"	--	--	----	----	4	12"	8'-2"	33	24
6	8	9 1/4"	9 1/4"	8"	5	5'-0"	10	5'-0"	6	6'-0"	4	12"	7'-0"	5'-3 1/4"	17'-0"	8	12"	7'-0"	4	12"	3'-3"	6'-4"	4	12"	9'-2"	33	28
7	4	9 1/2"	9 1/2"	8"	6	6'-0"	12	6'-0"	2	2'-0"	4	9"	8'-0"	3'-3 1/2"	14'-1"	6	9"	8'-0"	--	--	----	----	4	12"	5'-3"	38	12
7	6	9 1/2"	9 1/2"	8"	6	6'-0"	12	6'-0"	4	4'-0"	4	8"	8'-0"	4'-3 1/2"	16'-1"	6	8"	8'-0"	--	--	----	----	4	12"	7'-3"	38	20
7	8	9 1/2"	9 1/2"	8"	6	6'-0"	12	6'-0"	6	6'-0"	4	7"	8'-0"	5'-3 1/2"	18'-1"	6	7"	8'-0"	--	--	----	----	4	12"	9'-3"	38	28
7	10	9 1/2"	9 1/2"	8"	6	6'-0"	12	6'-0"	8	8'-0"	4	6"	8'-0"	6'-3 1/2"	20'-1"	6	6"	8'-0"	--	--	----	----	4	12"	11'-3"	38	36
8	4	9 3/4"	9 3/4"	8"	7	7'-0"	14	7'-0"	2	2'-0"	4	8"	9'-0"	3'-3 3/4"	15'-1"	6	8"	9'-0"	--	--	----	----	4	12"	5'-3"	43	12
8	6	9 3/4"	9 3/4"	8"	7	7'-0"	14	7'-0"	4	4'-0"	5	12"	9'-0"	4'-3 3/4"	17'-0"	8	12"	9'-0"	3	12"	3'-6"	6'-10"	4	12"	7'-3"	43	20
8	8	9 3/4"	9 3/4"	8"	7	7'-0"	14	7'-0"	6	6'-0"	5	7"	9'-0"	5'-3 3/4"	19'-0"	6	7"	9'-0"	--	--	----	----	5	12"	9'-3"	43	28
8	10	9 1/2"	9 1/2"	8"	7	7'-0"	14	7'-0"	8	8'-0"	4	9"	9'-0"	6'-3 1/2"	21'-1"	8	9"	9'-0"	4	9"	3'-7"	6'-11"	4	12"	11'-3"	43	36
9	4	9 3/4"	9 3/4"	8"	8	8'-0"	16	8'-0"	2	2'-0"	6	12"	10'-0"	3'-7 1/4"	16'-4"	8	12"	10'-0"	5	12"	3'-11"	7'-5"	4	12"	5'-3"	48	12
9	6	9 3/4"	9 3/4"	8"	8	8'-0"	16	8'-0"	4	4'-0"	5	7"	10'-0"	4'-3 3/4"	18'-0"	6	7"	10'-0"	--	--	----	----	4	12"	7'-3"	48	20
9	8	9 3/4"	9 3/4"	8"	8	8'-0"	16	8'-0"	6	6'-0"	4	6"	10'-0"	5'-3 3/4"	20'-1"	6	6"	10'-0"	--	--	----	----	4	12"	9'-3"	48	28
9	10	9 3/4"	9 3/4"	8"	8	8'-0"	16	8'-0"	8	8'-0"	5	10 1/2"	10'-0"	6'-3 3/4"	22'-0"	8	10 1/2"	10'-0"	3	10 1/2"	3'-8"	7'-3"	4	12"	11'-3"	48	36
9	12	9 3/4"	9 3/4"	8"	8	8'-0"	16	8'-0"	10	10'-0"	5	8"	10'-0"	7'-3 3/4"	24'-0"	8	8"	10'-0"	4	8"	4'-1"	7'-11"	5	11 1/2"	13'-3"	48	44
10	4	10"	10"	8"	9	9'-0"	18	9'-0"	2	2'-0"	4	7"	11'-0"	3'-6"	17'-6"	6	7"	11'-0"	4	7"	3'-10"	7'-5"	4	12"	5'-4"	53	12
10	6	10"	10"	8"	9	9'-0"	18	9'-0"	4	4'-0"	5	10"	11'-0"	4'-9"	19'-10"	7	10"	11'-0"	--	--	----	----	4	12"	7'-4"	53	20
10	8	10"	10"	8"	9	9'-0"	18	9'-0"	6	6'-0"	5	10"	11'-0"	5'-9"	21'-10"	8	10"	11'-0"	3	10"	3'-10"	7'-5"	4	12"	9'-4"	53	28
10	10	10"	10"	8"	9	9'-0"	18	9'-0"	8	8'-0"	4	8"	11'-0"	6'-6"	23'-6"	7	8"	11'-0"	4	8"	3'-10"	7'-5"	4	12"	11'-4"	53	36
10	12	10"	10"	8"	9	9'-0"	18	9'-0"	10	10'-0"	4	7"	11'-0"	7'-6"	25'-6"	8	7"	11'-0"	4	7"	4'-1"	7'-11"	5	12"	13'-4"	53	44
12	6	10 1/4"	10 1/4"	8"	11	11'-0"	22	11'-0"	4	4'-0"	6	9"	13'-0"	5'-0"	22'-3"	8	9"	13'-0"	4	9"	4'-3"	8'-5"	4	12"	7'-5"	63	20
12	8	10"	10"	8"	11	11'-0"	22	11'-0"	6	6'-0"	5	8"	13'-0"	5'-9"	23'-10"	8	8"	13'-0"	3	8"	4'-3"	8'-5"	4	12"	9'-4"	63	28
12	10	10"	10"	8"	11	11'-0"	22	11'-0"	8	8'-0"	5	7"	13'-0"	6'-9"	25'-10"	7	7"	13'-0"	--	--	----	----	4	12"	11'-4"	63	36
12	12	10 1/4"	10 1/4"	8"	11	11'-0"	22	11'-0"	10	10'-0"	5	8"	13'-0"	7'-9"	27'-11"	8	8"	13'-0"	4	8"	4'-3"	8'-5"	5	12"	13'-5"	63	44

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

 ROAD AND BRIDGE STANDARDS	
SHEET 1 OF 2	REVISION DATE
1002.03	07/11

SINGLE BOX CULVERTS
 0 TO 2 FT. FILLS
 VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION
 REFERENCE