


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

DIMENSIONS					REINFORCING STEEL																						
SPAN	HGHT	T1	T2	T3						BH1			BH2			BH3			BV1			NO. #1 BARS	NO. #2 BARS				
(FT.)	(FT.)	TOP SLAB (IN.)	BOTTOM SLAB (IN.)	WALL (IN.)	A	B	C	D	E	F	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"	8"	8"	2	2'-0"	2	2'-0"	1	1'-0"	4	12"	4'-0"	2'-8"	8'-10"	5	12"	4'-0"	3	12"	2'-2"	4'-1"	4	12"	4'-0"	16	8
3	4	8"	8"	8"	2	2'-0"	2	2'-0"	2	2'-0"	4	12"	4'-0"	3'-2"	9'-10"	5	12"	4'-0"	--	---	-----	-----	4	12"	5'-0"	16	12
4	3	8"	8"	8"	3	3'-0"	3	3'-0"	1	1'-0"	4	10 1/2"	5'-0"	2'-8"	9'-10"	5	10 1/2"	5'-0"	--	---	-----	-----	4	12"	4'-0"	20	8
4	4	8"	8"	8"	3	3'-0"	3	3'-0"	2	2'-0"	4	10"	5'-0"	3'-2"	10'-10"	5	10"	5'-0"	--	---	-----	-----	4	12"	5'-0"	20	12
4	5	8"	8"	8"	3	3'-0"	3	3'-0"	3	3'-0"	4	9 1/2"	5'-0"	3'-8"	11'-10"	5	9 1/2"	5'-0"	--	---	-----	-----	4	12"	6'-0"	20	16
4	6	8"	8"	8"	3	3'-0"	3	3'-0"	4	4'-0"	4	9 1/2"	5'-0"	4'-2"	12'-10"	5	9 1/2"	5'-0"	--	---	-----	-----	4	12"	7'-0"	20	20
5	3	8"	8"	8"	4	4'-0"	4	4'-0"	1	1'-0"	5	10 1/2"	6'-0"	2'-10"	11'-1"	6	10 1/2"	6'-0"	--	---	-----	-----	4	9"	4'-0"	24	8
5	4	8"	8"	8"	4	4'-0"	4	4'-0"	2	2'-0"	4	10"	6'-0"	3'-2"	11'-10"	6	10"	6'-0"	3	10"	2'-6"	4'-10"	4	12"	5'-0"	24	12
5	5	8"	8"	8"	4	4'-0"	4	4'-0"	3	3'-0"	4	9 1/2"	6'-0"	3'-8"	12'-10"	6	9 1/2"	6'-0"	3	9 1/2"	2'-6"	4'-10"	4	12"	6'-0"	24	16
5	6	8"	8"	8"	4	4'-0"	4	4'-0"	4	4'-0"	4	9"	6'-0"	4'-2"	13'-10"	6	9"	6'-0"	--	---	-----	-----	4	12"	7'-0"	24	20
5	7	8"	8"	8"	4	4'-0"	4	4'-0"	5	5'-0"	4	9"	6'-0"	4'-8"	14'-10"	6	9"	6'-0"	--	---	-----	-----	5	12"	8'-0"	24	24
6	4	8 3/4"	8 3/4"	8"	5	5'-0"	5	5'-0"	2	2'-0"	5	8"	7'-0"	3'-5"	13'-2"	6	8"	7'-0"	--	---	-----	-----	4	9"	5'-2"	28	12
6	5	8 3/4"	8 3/4"	8"	5	5'-0"	5	5'-0"	3	3'-0"	4	8"	7'-0"	3'-9"	14'-0"	6	8"	7'-0"	3	8"	2'-9"	5'-3"	4	12"	6'-2"	28	16
6	6	8 3/4"	8 3/4"	8"	5	5'-0"	5	5'-0"	4	4'-0"	4	7 1/2"	7'-0"	4'-3"	15'-0"	6	7 1/2"	7'-0"	3	7 1/2"	2'-10"	5'-4"	4	12"	7'-2"	28	20
6	7	8 3/4"	8 3/4"	8"	5	5'-0"	5	5'-0"	5	5'-0"	4	7 1/2"	7'-0"	4'-9"	16'-0"	6	7 1/2"	7'-0"	3	7 1/2"	3'-0"	5'-9"	5	12"	8'-1"	28	24
6	8	8 3/4"	8 3/4"	8"	5	5'-0"	5	5'-0"	6	6'-0"	5	7"	7'-0"	5'-5"	17'-2"	6	7"	7'-0"	--	---	-----	-----	6	12"	9'-1"	28	28
7	4	9 3/4"	9 3/4"	8"	6	6'-0"	6	6'-0"	2	2'-0"	4	7"	8'-0"	3'-4"	14'-2"	6	7"	8'-0"	3	7"	2'-11"	5'-8"	4	7 1/2"	5'-3"	32	12
7	6	10"	10"	8"	6	6'-0"	6	6'-0"	4	4'-0"	4	6 1/2"	8'-0"	4'-4"	16'-2"	6	6 1/2"	8'-0"	--	---	-----	-----	4	12"	7'-4"	32	20
7	8	10"	10"	8"	6	6'-0"	6	6'-0"	6	6'-0"	5	6 1/2"	8'-0"	5'-6"	18'-5"	6	6 1/2"	8'-0"	--	---	-----	-----	5	12"	9'-4"	32	28
7	10	10"	10"	8"	6	6'-0"	6	6'-0"	8	8'-0"	5	7 1/2"	8'-0"	6'-6"	20'-5"	7	7 1/2"	8'-0"	3	7 1/2"	3'-8"	7'-2"	6	9 1/2"	11'-4"	32	36
8	4	10 3/4"	10 3/4"	8"	7	7'-0"	7	7'-0"	2	2'-0"	4	6"	9'-0"	3'-5"	15'-4"	6	6"	9'-0"	3	6"	3'-2"	6'-1"	4	6 1/2"	5'-5"	36	12
8	6	11"	11"	8"	7	7'-0"	7	7'-0"	4	4'-0"	5	7"	9'-0"	4'-8"	17'-7"	7	7"	9'-0"	--	---	-----	-----	4	11"	7'-6"	36	20
8	8	11 1/4"	11 1/4"	8"	7	7'-0"	7	7'-0"	6	6'-0"	5	9"	9'-0"	5'-8"	19'-7"	8	9"	9'-0"	3	9"	3'-5"	6'-7"	5	12"	9'-6"	36	28
8	10	11 1/4"	11 1/4"	8"	7	7'-0"	7	7'-0"	8	8'-0"	5	5 1/2"	9'-0"	6'-8"	21'-7"	6	5 1/2"	9'-0"	--	---	-----	-----	6	10 1/2"	11'-6"	36	36
9	4	12"	12"	8"	8	8'-0"	8	8'-0"	2	2'-0"	4	5 1/2"	10'-0"	3'-6"	16'-6"	6	5 1/2"	10'-0"	3	5 1/2"	3'-4"	6'-5"	4	6"	5'-8"	40	12
9	6	12 1/4"	12 1/4"	8"	8	8'-0"	8	8'-0"	4	4'-0"	5	8"	10'-0"	4'-9"	18'-9"	8	8"	10'-0"	--	---	-----	-----	4	10"	7'-9"	40	20
9	8	12 1/4"	12 1/4"	8"	8	8'-0"	8	8'-0"	6	6'-0"	4	6 1/2"	10'-0"	5'-7"	20'-7"	7	6 1/2"	10'-0"	3	6 1/2"	3'-6"	6'-9"	5	12"	9'-8"	40	28
9	10	12 1/2"	12 1/2"	8"	8	8'-0"	8	8'-0"	8	8'-0"	5	6"	10'-0"	6'-9"	22'-10"	7	6"	10'-0"	--	---	-----	-----	7	12"	11'-8"	40	36
9	12	12 1/2"	12 1/2"	9"	8	8'-0"	8	8'-0"	10	10'-0"	6	7 1/2"	10'-2"	7'-11"	25'-2"	8	7 1/2"	10'-1"	3	7 1/2"	4'-4"	8'-5"	5	5 1/2"	13'-8"	40	44
10	4	13"	13"	8"	9	9'-0"	9	9'-0"	2	2'-0"	5	6"	11'-0"	3'-9"	17'-11"	7	6"	11'-0"	--	---	-----	-----	4	5"	5'-10"	44	12
10	6	13"	13"	8"	9	9'-0"	9	9'-0"	4	4'-0"	5	7 1/2"	11'-0"	4'-9"	19'-11"	8	7 1/2"	11'-0"	3	7 1/2"	3'-6"	6'-10"	4	8"	7'-10"	44	20
10	8	13"	13"	8"	9	9'-0"	9	9'-0"	6	6'-0"	5	7 1/2"	11'-0"	5'-9"	21'-11"	8	7 1/2"	11'-0"	3	7 1/2"	3'-7"	6'-11"	4	12"	9'-10"	44	28
10	10	13"	13"	8"	9	9'-0"	9	9'-0"	8	8'-0"	5	5 1/2"	11'-0"	6'-9"	23'-11"	7	5 1/2"	11'-0"	--	---	-----	-----	6	12"	11'-10"	44	36
10	12	13"	13"	9"	9	9'-0"	9	9'-0"	10	10'-0"	7	7"	11'-2"	8'-3"	26'-7"	8	7"	11'-1"	--	---	-----	-----	5	6"	13'-10"	44	44
12	6	15"	15"	8"	11	11'-0"	11	11'-0"	4	4'-0"	5	6 1/2"	13'-0"	4'-11"	22'-3"	8	6 1/2"	13'-0"	--	---	-----	-----	4	6"	8'-2"	52	20
12	8	15 1/4"	15 1/4"	8"	11	11'-0"	11	11'-0"	6	6'-0"	6	6"	13'-0"	6'-2"	24'-5"	8	6"	13'-0"	--	---	-----	-----	4	10"	10'-3"	52	28
12	10	15 1/4"	15 1/4"	8"	11	11'-0"	11	11'-0"	8	8'-0"	4	6"	13'-0"	6'-10"	26'-1"	8	6"	13'-0"	4	6"	4'-2"	8'-0"	6	12"	12'-2"	52	36
12	12	15 1/4"	15 1/4"	9 1/2"	11	11'-0"	11	11'-0"	10	10'-0"	6	6"	13'-3"	8'-2"	28'-8"	8	6"	13'-3"	--	---	-----	-----	5	6 1/2"	14'-2"	52	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
1002.09	07/11

SINGLE BOX CULVERTS
10 TO 20 FT. FILLS
 VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE