


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. #3 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	9"	4'-0"	2'-8"	8'-10"	5	9"	4'-0"	3	9"	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	9"	4'-0"	3'-2"	9'-10"	5	9"	4'-0"	--	---	----	----	4	12"	5'-0"	16	12
4	3	9 1/4"	9 1/4"	8"	3	3'-0"	3	3'-0"	1	1'-0"	4	9"	5'-0"	2'-10"	10'-1"	6	9"	5'-0"	--	---	----	----	4	12"	4'-2"	20	8
4	4	9"	9"	8"	3	3'-0"	3	3'-0"	2	2'-0"	4	8 1/2"	5'-0"	3'-3"	11'-0"	6	8 1/2"	5'-0"	--	---	----	----	4	12"	5'-2"	20	12
4	5	9"	9"	8"	3	3'-0"	3	3'-0"	3	3'-0"	4	8 1/2"	5'-0"	3'-9"	12'-0"	6	8 1/2"	5'-0"	--	---	----	----	4	12"	6'-2"	20	16
4	6	9 1/4"	9 1/4"	8"	3	3'-0"	3	3'-0"	4	4'-0"	4	8 1/2"	5'-0"	4'-4"	13'-1"	6	8 1/2"	5'-0"	--	---	----	----	6	12"	7'-2"	20	20
5	3	11 3/4"	11 3/4"	8"	4	4'-0"	4	4'-0"	1	1'-0"	4	7 1/2"	6'-0"	3'-0"	11'-6"	6	7 1/2"	6'-0"	--	---	----	----	4	11 1/2"	4'-7"	24	8
5	4	11 3/4"	11 3/4"	8"	4	4'-0"	4	4'-0"	2	2'-0"	4	7"	6'-0"	3'-6"	12'-6"	6	7"	6'-0"	--	---	----	----	4	12"	5'-7"	24	12
5	5	12"	12"	8"	4	4'-0"	4	4'-0"	3	3'-0"	4	7"	6'-0"	4'-0"	13'-6"	6	7"	6'-0"	--	---	----	----	4	12"	6'-8"	24	16
5	6	12"	12"	8"	4	4'-0"	4	4'-0"	4	4'-0"	4	7"	6'-0"	4'-6"	14'-6"	6	7"	6'-0"	--	---	----	----	5	12"	7'-8"	24	20
5	7	11 1/4"	11 1/4"	8"	4	4'-0"	4	4'-0"	5	5'-0"	4	7"	6'-0"	5'-0"	15'-5"	6	7"	6'-0"	--	---	----	----	6	10 1/2"	8'-6"	24	24
6	4	13"	13"	8"	5	5'-0"	5	5'-0"	2	2'-0"	4	6"	7'-0"	3'-7"	13'-8"	6	6"	7'-0"	--	---	----	----	4	12"	5'-10"	28	12
6	5	13"	13"	8"	5	5'-0"	5	5'-0"	3	3'-0"	4	6"	7'-0"	4'-1"	14'-8"	6	6"	7'-0"	--	---	----	----	4	12"	6'-10"	28	16
6	6	13"	13"	8"	5	5'-0"	5	5'-0"	4	4'-0"	4	6"	7'-0"	4'-7"	15'-8"	6	6"	7'-0"	--	---	----	----	5	12"	7'-10"	28	20
6	7	13"	13"	8"	5	5'-0"	5	5'-0"	5	5'-0"	4	6"	7'-0"	5'-2"	16'-8"	6	6"	7'-0"	--	---	----	----	6	12"	8'-10"	28	24
6	8	13"	13"	8 1/2"	5	5'-0"	5	5'-0"	6	6'-0"	4	6"	7'-1"	5'-8"	17'-9"	6	6"	7'-1"	--	---	----	----	6	10 1/2"	9'-10"	28	28
7	4	14 3/4"	14 3/4"	8"	6	6'-0"	6	6'-0"	2	2'-0"	4	5"	8'-0"	3'-9"	15'-0"	6	5"	8'-0"	--	---	----	----	4	12"	6'-1"	32	12
7	6	14 3/4"	14 3/4"	8"	6	6'-0"	6	6'-0"	4	4'-0"	4	5"	8'-0"	4'-9"	17'-0"	6	5"	8'-0"	--	---	----	----	5	12"	8'-1"	32	20
7	8	14 3/4"	14 3/4"	8"	6	6'-0"	6	6'-0"	6	6'-0"	4	5"	8'-0"	5'-9"	19'-0"	6	5"	8'-0"	--	---	----	----	5	7 1/2"	10'-1"	32	28
7	10	14 1/2"	14 1/2"	10 1/2"	6	6'-0"	6	6'-0"	8	8'-0"	6	8"	8'-5"	7'-1"	21'-9"	8	8"	8'-4"	--	---	----	----	6	7"	12'-1"	32	36
8	4	17"	17"	8"	7	7'-0"	7	7'-0"	2	2'-0"	4	6"	9'-0"	3'-11"	16'-4"	7	6"	9'-0"	--	---	----	----	4	12"	6'-6"	36	12
8	6	17 1/4"	17 1/4"	8"	7	7'-0"	7	7'-0"	4	4'-0"	4	6"	9'-0"	5'-0"	18'-5"	7	6"	9'-0"	--	---	----	----	5	12"	8'-6"	36	20
8	8	17 1/4"	17 1/4"	8"	7	7'-0"	7	7'-0"	6	6'-0"	5	6"	9'-0"	6'-2"	20'-7"	7	6"	9'-0"	--	---	----	----	5	7"	10'-6"	36	28
8	10	17"	17"	10 1/2"	7	7'-0"	7	7'-0"	8	8'-0"	6	7 1/2"	9'-5"	7'-3"	23'-2"	8	7 1/2"	9'-4"	--	---	----	----	6	7"	12'-5"	36	36
9	4	18 3/4"	18 3/4"	8"	8	8'-0"	8	8'-0"	2	2'-0"	4	5 1/2"	10'-0"	4'-1"	17'-8"	7	5 1/2"	10'-0"	--	---	----	----	4	12"	6'-9"	40	12
9	6	18 3/4"	18 3/4"	8"	8	8'-0"	8	8'-0"	4	4'-0"	4	5 1/2"	10'-0"	5'-1"	19'-8"	7	5 1/2"	10'-0"	--	---	----	----	4	12"	8'-9"	40	20
9	8	18 3/4"	18 3/4"	8"	8	8'-0"	8	8'-0"	6	6'-0"	4	5 1/2"	10'-0"	6'-1"	21'-8"	7	5 1/2"	10'-0"	--	---	----	----	5	7 1/2"	10'-9"	40	28
9	10	18 1/2"	18 1/2"	10"	8	8'-0"	8	8'-0"	8	8'-0"	6	7"	10'-4"	7'-5"	24'-4"	8	7"	10'-3"	--	---	----	----	5	4 1/2"	12'-8"	40	36
9	12	18 1/2"	18 1/2"	12 1/2"	8	8'-0"	8	8'-0"	10	10'-0"	7	7"	10'-9"	8'-8"	27'-1"	8	7"	10'-9"	--	---	----	----	6	6"	14'-8"	40	44
10	4	20"	20"	8"	9	9'-0"	9	9'-0"	2	2'-0"	5	6 1/2"	11'-0"	4'-5"	19'-1"	8	6 1/2"	11'-0"	--	---	----	----	4	11"	7'-0"	44	12
10	6	20 1/4"	20 1/4"	8"	9	9'-0"	9	9'-0"	4	4'-0"	5	6 1/2"	11'-0"	5'-5"	21'-1"	8	6 1/2"	11'-0"	--	---	----	----	4	12"	9'-0"	44	20
10	8	20 1/2"	20 1/2"	8"	9	9'-0"	9	9'-0"	6	6'-0"	5	6"	11'-0"	6'-5"	23'-2"	8	6"	11'-0"	--	---	----	----	5	7 1/2"	11'-1"	44	28
10	10	20 3/4"	20 3/4"	9 1/2"	9	9'-0"	9	9'-0"	8	8'-0"	6	6"	11'-3"	7'-7"	25'-7"	8	6"	11'-3"	--	---	----	----	5	4 1/2"	13'-1"	44	36
10	12	20 1/2"	20 1/2"	12 1/2"	9	9'-0"	9	9'-0"	10	10'-0"	6	5 1/2"	11'-9"	8'-7"	28'-1"	8	5 1/2"	11'-9"	--	---	----	----	6	6"	15'-1"	44	44
12	6	23 3/4"	23 3/4"	8"	11	11'-0"	11	11'-0"	4	4'-0"	5	5 1/2"	13'-0"	5'-8"	23'-7"	8	5 1/2"	13'-0"	--	---	----	----	4	9 1/2"	9'-6"	52	20
12	8	23 1/4"	23 1/4"	8"	11	11'-0"	11	11'-0"	6	6'-0"	5	5 1/2"	13'-0"	6'-8"	25'-7"	8	5 1/2"	13'-0"	--	---	----	----	5	8"	11'-6"	52	28
12	10	23"	23"	9 1/2"	11	11'-0"	11	11'-0"	8	8'-0"	5	5"	13'-3"	7'-7"	27'-10"	8	5"	13'-3"	--	---	----	----	5	5"	13'-5"	52	36
12	12	22 3/4"	22 3/4"	12"	11	11'-0"	11	11'-0"	10	10'-0"	6	5"	13'-8"	8'-10"	30'-6"	8	5"	13'-7"	--	---	----	----	7	9 1/2"	15'-7"	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
1002.13	07/11

**SINGLE BOX CULVERTS**  
**30 TO 40 FT. FILLS**  
 VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE