

DIMENSIONS					REINFORCING STEEL																								
SPAN	HGHT	T1	T2	T3	BH1														BH2			BH3			BVI			NO. BL1 BARS	NO. BL2 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"	4	12"	4'-0"	--	---	----	----	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"	4	12"	4'-0"	--	---	----	----	4	12"	5'-0"	16	12		
4	3	8"	8"	8"	3	3'-0"	3	3'-0"	1	1'-0"	4	12"	5'-0"	2'-8"	9'-10"	5	12"	5'-0"	--	---	----	----	4	12"	4'-0"	20	8		
4	4	8"	8"	8"	3	3'-0"	3	3'-0"	2	2'-0"	4	12"	5'-0"	3'-2"	10'-10"	5	12"	5'-0"	--	---	----	----	4	12"	5'-0"	20	12		
4	5	8"	8"	8"	3	3'-0"	3	3'-0"	3	3'-0"	4	11 1/2"	5'-0"	3'-8"	11'-10"	5	11 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	11"	5'-0"	4'-2"	12'-10"	5	11"	5'-0"	--	---	----	----	4	12"	7'-0"	20	20		
5	3	8"	8"	8"	4	4'-0"	4	4'-0"	1	1'-0"	4	9 1/2"	6'-0"	2'-8"	10'-10"	5	9 1/2"	6'-0"	--	---	----	----	4	11 1/2"	4'-0"	24	8		
5	4	8"	8"	8"	4	4'-0"	4	4'-0"	2	2'-0"	4	9"	6'-0"	3'-2"	11'-10"	5	9"	6'-0"	--	---	----	----	4	12"	5'-0"	24	12		
5	5	8"	8"	8"	4	4'-0"	4	4'-0"	3	3'-0"	4	11 1/2"	6'-0"	3'-8"	12'-10"	6	11 1/2"	6'-0"	3	11 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	11"	6'-0"	4'-2"	13'-10"	6	11"	6'-0"	--	---	----	----	4	12"	7'-0"	24	20		
5	7	8"	8"	8"	4	4'-0"	4	4'-0"	5	5'-0"	4	10 1/2"	6'-0"	4'-8"	14'-10"	6	10 1/2"	6'-0"	--	---	----	----	4	12"	8'-0"	24	24		
6	4	8"	8"	8"	5	5'-0"	5	5'-0"	2	2'-0"	5	9 1/2"	7'-0"	3'-2"	12'-8"	6	9 1/2"	7'-0"	--	---	----	----	4	9"	5'-0"	28	12		
6	5	8"	8"	8"	5	5'-0"	5	5'-0"	3	3'-0"	4	9"	7'-0"	3'-8"	13'-10"	6	9"	7'-0"	3	9"	2'-8 3/8"	5'-2"	4	12"	6'-0"	28	16		
6	6	8"	8"	8"	5	5'-0"	5	5'-0"	4	4'-0"	4	8 1/2"	7'-0"	4'-2"	14'-10"	6	8 1/2"	7'-0"	3	8 1/2"	2'-8 3/8"	5'-2"	4	12"	7'-0"	28	20		
6	7	8"	8"	8"	5	5'-0"	5	5'-0"	5	5'-0"	4	8 1/2"	7'-0"	4'-8"	15'-10"	6	8 1/2"	7'-0"	3	8 1/2"	2'-8 3/8"	5'-2"	4	12"	8'-0"	28	24		
6	8	8"	8"	8"	5	5'-0"	5	5'-0"	6	6'-0"	4	8"	7'-0"	5'-2"	16'-10"	6	8"	7'-0"	3	8"	2'-8 3/8"	5'-2"	4	12"	9'-0"	28	28		
7	4	8"	8"	8"	6	6'-0"	6	6'-0"	2	2'-0"	5	8"	8'-0"	3'-2"	13'-8"	6	8"	8'-0"	--	---	----	----	4	6"	5'-0"	32	12		
7	6	8 1/4"	8 1/4"	8"	6	6'-0"	6	6'-0"	4	4'-0"	4	7 1/2"	8'-0"	4'-2 1/4"	15'-10"	6	7 1/2"	8'-0"	3	7 1/2"	2'-10 3/4"	5'-7"	4	11"	7'-0"	32	20		
7	8	8 1/4"	8 1/4"	8"	6	6'-0"	6	6'-0"	6	6'-0"	4	7"	8'-0"	5'-2 1/4"	17'-10"	6	7"	8'-0"	3	7"	2'-10 3/4"	5'-7"	4	12"	9'-0"	32	28		
7	10	8 1/4"	8 1/4"	8"	6	6'-0"	6	6'-0"	8	8'-0"	4	6 1/2"	8'-0"	6'-2 1/4"	19'-10"	6	6 1/2"	8'-0"	3	6 1/2"	2'-10 3/4"	5'-7"	4	12"	11'-0"	32	36		
8	4	9"	9"	8"	7	7'-0"	7	7'-0"	2	2'-0"	5	7"	9'-0"	3'-3"	14'-10"	6	7"	9'-0"	--	---	----	----	4	6"	5'-2"	36	12		
8	6	9"	9"	8"	7	7'-0"	7	7'-0"	4	4'-0"	4	6 1/2"	9'-0"	4'-3"	17'-0"	6	6 1/2"	9'-0"	3	6 1/2"	3'-1 1/4"	6'-0"	4	8"	7'-2"	36	20		
8	8	9 1/4"	9 1/4"	8"	7	7'-0"	7	7'-0"	6	6'-0"	5	6"	9'-0"	5'-3 1/4"	18'-11"	6	6"	9'-0"	--	---	----	----	4	12"	9'-2"	36	28		
8	10	9 1/4"	9 1/4"	8"	7	7'-0"	7	7'-0"	8	8'-0"	5	9"	9'-0"	6'-3 1/4"	20'-11"	8	9"	9'-0"	3	9"	3'-1 1/4"	6'-0"	4	12"	11'-2"	36	36		
9	4	9 3/4"	9 3/4"	8"	8	8'-0"	8	8'-0"	2	2'-0"	5	6"	10'-0"	3'-3 3/4"	16'-0"	6	6"	10'-0"	--	---	----	----	6	9 1/2"	5'-3"	40	12		
9	6	10"	10"	8"	8	8'-0"	8	8'-0"	4	4'-0"	5	9"	10'-0"	4'-4"	18'-0"	8	9"	10'-0"	3	9"	3'-3 5/8"	6'-5"	4	7 1/2"	7'-4"	40	20		
9	8	10"	10"	8"	8	8'-0"	8	8'-0"	6	6'-0"	5	9"	10'-0"	5'-4"	20'-0"	8	9"	10'-0"	3	9"	3'-3 5/8"	6'-5"	4	9 1/2"	9'-4"	40	28		
9	10	10 1/4"	10 1/4"	8"	8	8'-0"	8	8'-0"	8	8'-0"	6	8"	10'-0"	6'-4 1/4"	21'-11"	8	8"	10'-0"	--	---	----	----	4	12"	11'-5"	40	36		
9	12	10 1/4"	10 1/4"	8"	8	8'-0"	8	8'-0"	10	10'-0"	5	7 1/2"	10'-0"	7'-4 1/4"	24'-1"	8	7 1/2"	10'-0"	4	7 1/2"	3'-3 5/8"	6'-4"	4	7 1/2"	13'-5"	40	44		
10	4	10 1/2"	10 1/2"	8"	9	9'-0"	9	9'-0"	2	2'-0"	5	5 1/2"	11'-0"	3'-4 1/2"	17'-1"	6	5 1/2"	11'-0"	--	---	----	----	6	8"	5'-5"	44	12		
10	6	10 3/4"	10 3/4"	8"	9	9'-0"	9	9'-0"	4	4'-0"	6	8"	11'-0"	4'-4 3/4"	19'-0"	8	8"	11'-0"	--	---	----	----	4	6 1/2"	7'-5"	44	20		
10	8	11"	11"	8"	9	9'-0"	9	9'-0"	6	6'-0"	6	6"	11'-0"	5'-5"	21'-0"	7	6"	11'-0"	--	---	----	----	4	11"	9'-6"	44	28		
10	10	11"	11"	8"	9	9'-0"	9	9'-0"	8	8'-0"	5	7 1/2"	11'-0"	6'-5"	23'-2"	8	7 1/2"	11'-0"	3	7 1/2"	3'-6"	6'-10"	4	12"	11'-6"	44	36		
10	12	11 1/4"	11 1/4"	8"	9	9'-0"	9	9'-0"	10	10'-0"	6	6"	11'-0"	7'-5 1/4"	25'-1"	7	6"	11'-0"	--	---	----	----	4	9"	13'-6"	44	44		
12	6	12 3/4"	12 3/4"	8"	11	11'-0"	11	11'-0"	4	4'-0"	5	5 1/2"	13'-0"	4'-6 3/4"	21'-6"	7	5 1/2"	13'-0"	--	---	----	----	5	8"	7'-9"	52	20		
12	8	12 3/4"	12 3/4"	8"	11	11'-0"	11	11'-0"	6	6'-0"	6	6 1/2"	13'-0"	5'-6 3/4"	23'-4"	8	6 1/2"	13'-0"	--	---	----	----	4	9"	9'-9"	52	28		
12	10	13"	13"	8"	11	11'-0"	11	11'-0"	8	8'-0"	5	6 1/2"	13'-0"	6'-7"	25'-6"	8	6 1/2"	13'-0"	3	6 1/2"	3'-10 3/4"	7'-7"	4	12"	11'-10"	52	36		
12	12	13"	13"	8"	11	11'-0"	11	11'-0"	10	10'-0"	6	5"	13'-0"	7'-7"	27'-4"	7	5"	13'-0"	--	---	----	----	4	12"	13'-10"	52	44		

SINGLE BOX CULVERTS  
10 TO 15 FT. FILLS  
VIRGINIA DEPARTMENT OF TRANSPORTATION

STRUCTURE  
AND  
BRIDGE  
DIVISION