

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	11"	4'-0"	2'-8"	8'-10"	6	11"	4'-0"	4	11"	2'-1 1/4"	3'-11"	4	12"	4'-0"	16	8
3	4	8"	8"	8"	2	2'-0"	2	2'-0"	2	2'-0"	4	10 1/2"	4'-0"	3'-2"	9'-10"	6	10 1/2"	4'-0"	4	10 1/2"	2'-1 1/4"	3'-11"	4	12"	5'-0"	16	12
4	3	10"	10"	8"	3	3'-0"	3	3'-0"	1	1'-0"	4	8 1/2"	5'-0"	2'-10"	10'-2"	6	8 1/2"	5'-0"	--	--	----	----	4	12"	4'-4"	20	8
4	4	9 1/2"	9 1/2"	8"	3	3'-0"	3	3'-0"	2	2'-0"	4	8"	5'-0"	3'-3 1/2"	11'-1"	6	8"	5'-0"	--	--	----	----	4	12"	5'-3"	20	12
4	5	9 1/2"	9 1/2"	8"	3	3'-0"	3	3'-0"	3	3'-0"	4	8"	5'-0"	3'-9 1/2"	12'-1"	6	8"	5'-0"	--	--	----	----	4	12"	6'-3"	20	16
4	6	9 3/4"	9 3/4"	8"	3	3'-0"	3	3'-0"	4	4'-0"	4	8"	5'-0"	4'-3 3/4"	13'-1"	6	8"	5'-0"	--	--	----	----	4	12"	7'-3"	20	20
5	3	13"	13"	8"	4	4'-0"	4	4'-0"	1	1'-0"	4	7"	6'-0"	3'-1"	11'-8"	6	7"	6'-0"	--	--	----	----	4	12"	4'-10"	24	8
5	4	13"	13"	8"	4	4'-0"	4	4'-0"	2	2'-0"	4	7"	6'-0"	3'-7"	12'-8"	6	7"	6'-0"	--	--	----	----	4	12"	5'-10"	24	12
5	5	13"	13"	8"	4	4'-0"	4	4'-0"	3	3'-0"	4	7"	6'-0"	4'-1"	13'-8"	6	7"	6'-0"	--	--	----	----	4	12"	6'-10"	24	16
5	6	11 3/4"	11 3/4"	8"	4	4'-0"	4	4'-0"	4	4'-0"	4	6 1/2"	6'-0"	4'-5 3/4"	14'-5"	6	6 1/2"	6'-0"	--	--	----	----	4	12"	7'-8"	24	20
5	7	11 3/4"	11 3/4"	8"	4	4'-0"	4	4'-0"	5	5'-0"	4	6 1/2"	6'-0"	4'-11 3/4"	15'-5"	6	6 1/2"	6'-0"	--	--	----	----	4	8 1/2"	8'-8"	24	24
6	4	13 1/4"	13 1/4"	8"	5	5'-0"	5	5'-0"	2	2'-0"	4	9"	7'-0"	3'-7 1/4"	13'-8"	8	9"	7'-0"	3	9"	2'-8 3/8"	5'-2"	4	12"	5'-10"	28	12
6	5	13 1/2"	13 1/2"	8"	5	5'-0"	5	5'-0"	3	3'-0"	5	7"	7'-0"	4'-1 1/2"	14'-7"	7	7"	7'-0"	--	--	----	----	4	12"	6'-11"	28	16
6	6	13 1/2"	13 1/2"	8"	5	5'-0"	5	5'-0"	4	4'-0"	4	9"	7'-0"	4'-7 1/2"	15'-9"	8	9"	7'-0"	3	9"	2'-8 3/8"	5'-2"	4	12"	7'-11"	28	20
6	7	13 1/2"	13 1/2"	8"	5	5'-0"	5	5'-0"	5	5'-0"	5	8 1/2"	7'-0"	5'-1 1/2"	16'-7"	8	8 1/2"	7'-0"	3	8 1/2"	2'-8 3/8"	5'-2"	4	10 1/2"	8'-11"	28	24
6	8	13 1/2"	13 1/2"	8"	5	5'-0"	5	5'-0"	6	6'-0"	5	7"	7'-0"	5'-7 1/2"	17'-7"	7	7"	7'-0"	--	--	----	----	4	6"	9'-11"	28	28
7	4	16"	16"	8"	6	6'-0"	6	6'-0"	2	2'-0"	4	8"	8'-0"	3'-10"	15'-2"	8	8"	8'-0"	3	8"	2'-10 3/4"	5'-7"	4	12"	6'-4"	32	12
7	6	16 1/4"	16 1/4"	8"	6	6'-0"	6	6'-0"	4	4'-0"	4	8"	8'-0"	4'-10 1/4"	17'-2"	8	8"	8'-0"	4	8"	2'-10 3/4"	5'-6"	4	12"	8'-4"	32	20
7	8	16 1/4"	16 1/4"	8"	6	6'-0"	6	6'-0"	6	6'-0"	5	8"	8'-0"	5'-10 1/4"	19'-1"	8	8"	8'-0"	3	8"	2'-10 3/4"	5'-7"	4	6"	10'-4"	32	28
7	10	16"	16"	9"	6	6'-0"	6	6'-0"	8	8'-0"	5	8"	8'-2"	6'-10"	21'-2"	8	8"	8'-2"	4	8"	2'-11 3/4"	5'-8"	6	9 1/2"	12'-4"	32	36
8	4	18"	18"	8"	7	7'-0"	7	7'-0"	2	2'-0"	4	7 1/2"	9'-0"	4'-0"	16'-6"	8	7 1/2"	9'-0"	4	7 1/2"	3'-1 1/4"	5'-11"	4	12"	6'-8"	36	12
8	6	18 1/4"	18 1/4"	8"	7	7'-0"	7	7'-0"	4	4'-0"	4	7 1/2"	9'-0"	5'-1/4"	18'-6"	8	7 1/2"	9'-0"	4	7 1/2"	3'-1 1/4"	5'-11"	4	12"	8'-9"	36	20
8	8	18 1/2"	18 1/2"	8"	7	7'-0"	7	7'-0"	6	6'-0"	4	7 1/2"	9'-0"	6'-1/2"	20'-7"	8	7 1/2"	9'-0"	4	7 1/2"	3'-1 1/4"	5'-11"	4	6"	10'-9"	36	28
8	10	18 1/2"	18 1/2"	9"	7	7'-0"	7	7'-0"	8	8'-0"	5	7 1/2"	9'-2"	7'-1/2"	22'-7"	8	7 1/2"	9'-2"	3	7 1/2"	3'-2 1/4"	6'-2"	6	9 1/2"	12'-9"	36	36
9	4	20"	20"	8"	8	8'-0"	8	8'-0"	2	2'-0"	5	7"	10'-0"	4'-2"	17'-8"	8	7"	10'-0"	--	--	----	----	4	12"	7'-0"	40	12
9	6	20"	20"	8"	8	8'-0"	8	8'-0"	4	4'-0"	5	6 1/2"	10'-0"	5'-2"	19'-8"	8	6 1/2"	10'-0"	--	--	----	----	4	12"	9'-0"	40	20
9	8	20 1/4"	20 1/4"	8"	8	8'-0"	8	8'-0"	6	6'-0"	5	7"	10'-0"	6'-2 1/4"	21'-9"	8	7"	10'-0"	--	--	----	----	4	6"	11'-0"	40	28
9	10	20 1/4"	20 1/4"	9"	8	8'-0"	8	8'-0"	8	8'-0"	5	5"	10'-2"	7'-2 1/4"	23'-11"	7	5"	10'-2"	--	--	----	----	6	9 1/2"	13'-0"	40	36
9	12	20 1/4"	20 1/4"	10 1/2"	8	8'-0"	8	8'-0"	10	10'-0"	6	6"	10'-5"	8'-2 1/4"	26'-0"	8	6"	10'-5"	--	--	----	----	5	5 1/2"	15'-0"	40	44
10	4	21"	21"	8"	9	9'-0"	9	9'-0"	2	2'-0"	4	6"	11'-0"	4'-3"	19'-0"	8	6"	11'-0"	--	--	----	----	4	12"	7'-2"	44	12
10	6	21"	21"	8"	9	9'-0"	9	9'-0"	4	4'-0"	4	6"	11'-0"	5'-3"	21'-0"	8	6"	11'-0"	--	--	----	----	4	12"	9'-2"	44	20
10	8	21 1/4"	21 1/4"	8"	9	9'-0"	9	9'-0"	6	6'-0"	5	5 1/2"	11'-0"	6'-3 1/4"	22'-11"	8	5 1/2"	11'-0"	--	--	----	----	5	9 1/2"	11'-3"	44	28
10	10	21 1/4"	21 1/4"	9"	9	9'-0"	9	9'-0"	8	8'-0"	6	5 1/2"	11'-2"	7'-3 1/4"	24'-11"	8	5 1/2"	11'-2"	--	--	----	----	4	4 1/2"	13'-3"	44	36
10	12	21 1/2"	21 1/2"	10 1/2"	9	9'-0"	9	9'-0"	10	10'-0"	6	5 1/2"	11'-5"	8'-3 1/2"	27'-2"	8	5 1/2"	11'-5"	--	--	----	----	6	8"	15'-3"	44	44
12	6	25 1/2"	25 1/2"	8"	11	11'-0"	11	11'-0"	4	4'-0"	4	5"	13'-0"	5'-7 1/2"	23'-9"	8	5"	13'-0"	--	--	----	----	4	12"	9'-11"	52	20
12	8	25 1/2"	25 1/2"	8"	11	11'-0"	11	11'-0"	6	6'-0"	5	5"	13'-0"	6'-7 1/2"	25'-7"	8	5"	13'-0"	--	--	----	----	4	6"	11'-11"	52	28
12	10	25 1/4"	25 1/4"	9 1/4"	11	11'-0"	11	11'-0"	8	8'-0"	5	5"	13'-2 1/2"	7'-7 1/4"	27'-9"	8	5"	13'-3"	--	--	----	----	5	7 1/2"	13'-11"	52	36
12	12	25 1/4"	25 1/4"	10 1/2"	11	11'-0"	11	11'-0"	10	10'-0"	6	4 1/2"	13'-5"	8'-7 1/4"	29'-10"	8	4 1/2"	13'-5"	--	--	----	----	6	8"	15'-11"	52	44

SINGLE BOX CULVERTS
40 TO 45 FT. FILLS
VIRGINIA DEPARTMENT OF TRANSPORTATION

STRUCTURE
AND
BRIDGE
DIVISION