

DIMENSIONS						REINFORCING STEEL																													
SPAN (FT.)	HGHT (FT.)	T1	T2	T3	T4	A	B	C	D	E	F	BH1			BH2			BH3			BH4			BV1			BV2								
		TOP SLAB	BOTTOM SLAB	EXTERIOR WALL (IN.)	INTERIOR WALL (IN.)							SIZE	SPACING C-C	LENGTH	SIZE	SPACING C-C	LENGTH	SIZE	SPACING C-C	a	LENGTH	SIZE	SPACING C-C	a	b	LENGTH	SIZE	SPACING C-C	LENGTH	SIZE	SPACING C-C	LENGTH			
3	3	8"	8"	8"	8"	6	6'- 0"	6	6'- 0"	1	1'- 0"	4	12"	7'- 6"	4	12"	7'- 8"	--	---	-----	-----	4	12"	2'- 1 1/4"	2'- 8"	4'- 6"	4	12"	4'- 0"	4	12"	4'- 0"	4	12"	4'- 0"
3	4	8"	8"	8"	8"	6	6'- 0"	6	6'- 0"	2	2'- 0"	4	12"	7'- 6"	4	12"	7'- 8"	--	---	-----	-----	4	12"	2'- 1 1/4"	3'- 2"	5'- 0"	4	12"	5'- 0"	4	12"	5'- 0"	4	12"	5'- 0"
4	3	8"	8"	8"	8"	8	8'- 0"	8	8'- 0"	1	1'- 0"	4	12"	9'- 1"	4	12"	9'- 8"	--	---	-----	-----	4	12"	2'- 3 5/8"	2'- 8"	4'- 8"	4	12"	4'- 0"	4	12"	4'- 0"	4	12"	4'- 0"
4	4	8"	8"	8"	8"	8	8'- 0"	8	8'- 0"	2	2'- 0"	4	12"	9'- 1"	4	12"	9'- 8"	--	---	-----	-----	4	12"	2'- 3 5/8"	3'- 2"	5'- 2"	4	12"	5'- 0"	4	12"	5'- 0"	4	12"	5'- 0"
4	5	8"	8"	8"	8"	8	8'- 0"	8	8'- 0"	3	3'- 0"	4	12"	9'- 1"	4	12"	9'- 8"	--	---	-----	-----	4	12"	2'- 3 5/8"	3'- 8"	5'- 8"	4	12"	6'- 0"	4	12"	6'- 0"	4	12"	6'- 0"
4	6	8"	8"	8"	8"	8	8'- 0"	8	8'- 0"	4	4'- 0"	4	12"	9'- 1"	4	12"	9'- 8"	--	---	-----	-----	4	12"	2'- 3 5/8"	4'- 2"	6'- 2"	4	12"	7'- 0"	4	12"	7'- 0"	4	12"	7'- 0"
5	3	8"	8"	8"	8"	10	10'- 0"	10	10'- 0"	1	1'- 0"	4	12"	10'- 8"	4	12"	11'- 8"	4	12"	2'- 6"	4'- 9"	4	12"	2'- 6"	2'- 8"	4'- 11"	4	12"	4'- 0"	4	12"	4'- 0"	4	12"	4'- 0"
5	4	8"	8"	8"	8"	10	10'- 0"	10	10'- 0"	2	2'- 0"	4	12"	10'- 8"	4	12"	11'- 8"	3	12"	2'- 6"	4'- 10"	4	12"	2'- 6"	3'- 2"	5'- 5"	4	12"	5'- 0"	4	12"	5'- 0"	4	12"	5'- 0"
5	5	8"	8"	8"	8"	10	10'- 0"	10	10'- 0"	3	3'- 0"	4	12"	10'- 8"	4	12"	11'- 8"	3	12"	2'- 6"	4'- 10"	4	12"	2'- 6"	3'- 8"	5'- 11"	4	12"	6'- 0"	4	12"	6'- 0"	4	12"	6'- 0"
5	6	8"	8"	8"	8"	10	10'- 0"	10	10'- 0"	4	4'- 0"	4	12"	10'- 8"	4	12"	11'- 8"	3	12"	2'- 6"	4'- 10"	4	12"	2'- 6"	4'- 2"	6'- 5"	4	12"	7'- 0"	4	12"	7'- 0"	4	12"	7'- 0"
5	7	8"	8"	8"	8"	10	10'- 0"	10	10'- 0"	5	5'- 0"	4	12"	10'- 8"	4	12"	11'- 8"	4	12"	2'- 6"	4'- 9"	4	12"	2'- 6"	4'- 8"	6'- 11"	4	12"	8'- 0"	4	12"	8'- 0"	4	12"	8'- 0"
6	4	9 1/4"	9 1/4"	8"	8"	12	12'- 0"	12	12'- 0"	2	2'- 0"	4	12"	12'- 3"	4	12"	13'- 8"	4	12"	2'- 8 3/8"	5'- 2"	4	12"	2'- 8 3/8"	3'- 3/4"	5'- 8"	4	12"	5'- 2"	4	12"	5'- 2"	4	12"	5'- 2"
6	5	9 1/2"	9 1/2"	8"	8"	12	12'- 0"	12	12'- 0"	3	3'- 0"	4	12"	12'- 3"	4	12"	13'- 8"	4	12"	2'- 8 3/8"	5'- 2"	4	12"	2'- 8 3/8"	3'- 9/2"	6'- 3"	4	12"	6'- 3"	4	12"	6'- 3"	4	12"	6'- 3"
6	6	9 1/2"	9 1/2"	8"	8"	12	12'- 0"	12	12'- 0"	4	4'- 0"	4	12"	12'- 3"	4	12"	13'- 8"	4	12"	2'- 8 3/8"	5'- 2"	4	12"	2'- 8 3/8"	4'- 3 1/2"	6'- 9"	4	12"	7'- 3"	4	12"	7'- 3"	4	12"	7'- 3"
6	7	9 1/2"	9 1/2"	8"	8"	12	12'- 0"	12	12'- 0"	5	5'- 0"	4	12"	12'- 3"	4	12"	13'- 8"	4	12"	2'- 8 3/8"	5'- 2"	4	12"	2'- 8 3/8"	4'- 9 1/2"	7'- 3"	4	12"	8'- 3"	4	12"	8'- 3"	4	12"	8'- 3"
6	8	9 3/4"	9 3/4"	8"	8"	12	12'- 0"	12	12'- 0"	6	6'- 0"	4	12"	12'- 3"	4	12"	13'- 8"	4	12"	2'- 8 3/8"	5'- 2"	4	12"	2'- 8 3/8"	5'- 3 3/4"	7'- 9"	4	12"	9'- 3"	4	12"	9'- 3"	4	12"	9'- 3"
7	4	10 1/2"	10 1/2"	8"	8"	14	14'- 0"	14	14'- 0"	2	2'- 0"	4	10"	13'- 10"	4	10"	15'- 8"	3	10"	2'- 10 3/4"	5'- 7"	4	10"	2'- 10 3/4"	3'- 4 1/2"	6'- 0"	4	12"	5'- 5"	4	12"	5'- 5"	4	12"	5'- 5"
7	6	10 3/4"	10 3/4"	8"	8"	14	14'- 0"	14	14'- 0"	4	4'- 0"	4	10"	13'- 10"	4	10"	15'- 8"	--	---	-----	-----	4	10"	2'- 10 3/4"	4'- 4 3/4"	7'- 0"	4	12"	7'- 5"	4	12"	7'- 5"	4	12"	7'- 5"
7	8	11"	11"	8"	8"	14	14'- 0"	14	14'- 0"	6	6'- 0"	4	10"	13'- 10"	4	10"	15'- 8"	3	10"	2'- 10 3/4"	5'- 7"	4	10"	2'- 10 3/4"	5'- 5"	8'- 1"	4	12"	9'- 6"	4	12"	9'- 6"	4	12"	9'- 6"
7	10	11 1/4"	11 1/4"	8"	8"	14	14'- 0"	14	14'- 0"	8	8'- 0"	4	10"	13'- 10"	4	10"	15'- 8"	3	10"	2'- 10 3/4"	5'- 7"	5	10"	2'- 10 3/4"	6'- 5/4"	9'- 0"	5	10 1/2"	11'- 6"	4	12"	11'- 6"	4	12"	11'- 6"
8	4	11 3/4"	11 3/4"	8"	8"	16	16'- 0"	16	16'- 0"	2	2'- 0"	5	9"	15'- 6"	4	9"	17'- 8"	3	9"	3'- 1 1/4"	6'- 0"	4	9"	3'- 1 1/4"	3'- 5 3/4"	6'- 4"	4	12"	5'- 8"	4	12"	5'- 8"	4	12"	5'- 8"
8	6	12"	12"	8"	8"	16	16'- 0"	16	16'- 0"	4	4'- 0"	5	9"	15'- 6"	4	9"	17'- 8"	--	---	-----	-----	4	9"	3'- 1 1/4"	4'- 6"	7'- 4"	4	12"	7'- 8"	4	12"	7'- 8"	4	12"	7'- 8"
8	8	12 1/4"	12 1/4"	8"	8"	16	16'- 0"	16	16'- 0"	6	6'- 0"	5	9"	15'- 6"	4	9"	17'- 8"	3	9"	3'- 1 1/4"	6'- 0"	4	9"	3'- 1 1/4"	5'- 6 1/4"	8'- 4"	4	12"	9'- 9"	4	12"	9'- 9"	4	12"	9'- 9"
8	10	12 1/2"	12 1/2"	8"	8"	16	16'- 0"	16	16'- 0"	8	8'- 0"	5	9"	15'- 6"	4	9"	17'- 8"	4	9"	3'- 1 1/4"	5'- 11"	4	9"	3'- 1 1/4"	6'- 6 1/2"	9'- 5"	4	7"	11'- 9"	4	12"	11'- 9"	4	12"	11'- 9"
9	4	13"	13"	8"	8"	18	18'- 0"	18	18'- 0"	2	2'- 0"	5	9"	17'- 1"	5	9"	19'- 8"	3	9"	3'- 3 5/8"	6'- 5"	4	9"	3'- 3 5/8"	3'- 7"	6'- 7"	4	11 1/2"	5'- 10"	4	12"	5'- 10"	4	12"	5'- 10"
9	6	13 1/4"	13 1/4"	8"	8"	18	18'- 0"	18	18'- 0"	4	4'- 0"	5	9"	17'- 1"	5	9"	19'- 8"	--	---	-----	-----	4	9"	3'- 3 5/8"	4'- 7 1/4"	7'- 8"	4	12"	7'- 10"	4	12"	7'- 10"	4	12"	7'- 10"
9	8	13 1/4"	13 1/4"	8"	8"	18	18'- 0"	18	18'- 0"	6	6'- 0"	5	9"	17'- 1"	5	9"	19'- 8"	3	9"	3'- 3 5/8"	6'- 5"	4	9"	3'- 3 5/8"	5'- 7 1/4"	8'- 8"	4	12"	9'- 10"	4	12"	9'- 10"	4	12"	9'- 10"
9	10	13 1/2"	13 1/2"	8"	8"	18	18'- 0"	18	18'- 0"	8	8'- 0"	5	9"	17'- 1"	5	9"	19'- 8"	3	9"	3'- 3 5/8"	6'- 5"	5	9"	3'- 3 5/8"	6'- 7 1/2"	9'- 7"	4	7 1/2"	11'- 11"	4	12"	11'- 11"	4	12"	11'- 11"
9	12	13 3/4"	13 3/4"	8"	8"	18	18'- 0"	18	18'- 0"	10	10'- 0"	5	9"	17'- 1"	5	9"	19'- 8"	3	9"	3'- 3 5/8"	6'- 5"	6	9"	3'- 3 5/8"	7'- 7 3/4"	10'- 7"	4	4 1/2"	14'- 0"	4	12"	14'- 0"	4	12"	14'- 0"
10	4	14 1/2"	14 1/2"	8"	8"	20	20'- 0"	20	20'- 0"	2	2'- 0"	6	9"	18'- 8"	5	9"	21'- 8"	3	9"	3'- 6"	6'- 10"	4	9"	3'- 6"	3'- 8 1/2"	6'- 11"	4	11 1/2"	6'- 1"	4	12"	6'- 1"	4	12"	6'- 1"
10	6	14 1/2"	14 1/2"	8"	8"	20	20'- 0"	20	20'- 0"	4	4'- 0"	6	9"	18'- 8"	5	9"	21'- 8"	3	9"	3'- 6"	6'- 10"	4	9"	3'- 6"	4'- 8 1/2"	7'- 11"	4	12"	8'- 1"	4	12"	8'- 1"	4	12"	8'- 1"
10	8	14 3/4"	14 3/4"	8"	8"	20	20'- 0"	20	20'- 0"	6	6'- 0"	6	9"	18'- 8"	5	9"	21'- 8"	3	9"	3'- 6"	6'- 10"	4	9"	3'- 6"	5'- 8 3/4"	9'- 0"	4	12"	10'- 1"	4	12"	10'- 1"	4	12"	10'- 1"
10	10	15"	15"	8"	8"	20	20'- 0"	20	20'- 0"	8	8'- 0"	6	9"	18'- 8"	5	9"	21'- 8"	3	9"	3'- 6"	6'- 10"	5	9"	3'- 6"	6'- 9"	9'- 11"	4	7 1/2"	12'- 2"	4	12"	12'- 2"	4	12"	12'- 2"
10	12	15"	15"	8"	8"	20	20'- 0"	20	20'- 0"	10	10'- 0"	6	9"	18'- 8"	5	9"	21'- 8"	3	9"	3'- 6"	6'- 10"	6	9"	3'- 6"	7'- 9"	10'- 10"	4	4 1/2"	14'- 2"	4	12"	14'- 2"	4	12"	14'- 2"
12	6	17 3/4"	17 3/4"	8"	8"	24	24'- 0"	24	24'- 0"	4	4'- 0"	6	8"	21'- 10"	5	8"	25'- 8"	--	---	-----	-----	4	8"	3'- 10 3/4"	4'- 11 3/4"	8'- 7"	4	12"	8'- 7"	4	12"	8'- 7"	4	12"	8'- 7"
12	8	17 3/4"	17 3/4"	8"	8"	24	24'- 0"	24	24'- 0"	6	6'- 0"	6	8"	21'- 10"	5	8"	25'- 8"	--	---	-----	-----	4	8"	3'- 10 3/4"	5'- 11 3/4"	9'- 7"	4	12"	10'- 7"	4	12"	10'- 7"	4	12"	10'- 7"
12	10	18"	18"	8"	8"	24	24'- 0"	24	24'- 0"	8	8'- 0"	6	8"	21'- 10"	5	8"	25'- 8"	4	8"	3'- 10 3/4"	7'- 6"	4	8"	3'- 10 3/4"	7'- 0"	10'- 8"	4	7"	12'- 8"	4	12"	12'- 8"	4	12"	12'- 8"
12	12	18"	18"	8"	8"	24	24'- 0"	24	24'- 0"	10	10'- 0"	6	8"	21'- 10"	5	8"	25'- 8"	4	8"	3'- 10 3/4"	7'- 6"	5	8"	3'- 10 3/4"	8'- 0"	11'- 7"	4	4 1/2"	14'- 8"	4	11 1/2"	14'- 8"	4	11 1/2"	14'- 8"

DOUBLE BOX CULVERTS
15 TO 20 FT. FILLS
VIRGINIA DEPARTMENT OF TRANSPORTATION

STRUCTURE
AND
BRIDGE
DIVISION