

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	α	LENGTH	SIZE	SPACING C-C	α	b	LENGTH	SIZE	SPACING C-C	LENGTH	SIZE	SPACING C-C	LENGTH
3	3	9/4"	9/4"	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'- 9/4"	4'- 7"	4	12"	4'- 2"	4	12"	4'- 2"
3	4	9/4"	9/4"	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'- 3/4"	5'- 1"	4	12"	5'- 2"	4	12"	5'- 2"
4	3	1 1/2"	1 1/2"	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'- 11/2"	5'- 0"	4	12"	4'- 7"	4	12"	4'- 7"
4	4	1 1/4"	1 1/4"	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'- 5/4"	5'- 6"	4	12"	5'- 6"	4	12"	5'- 6"
4	5	1 1/4"	1 1/4"	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'- 11/4"	6'- 0"	4	12"	6'- 6"	4	12"	6'- 6"
4	6	1 1/4"	1 1/4"	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'- 4"	4	12"	2'- 3 5/8"	4'- 5/4"	6'- 6"	4	9"	7'- 6"	4	12"	7'- 6"
5	3	1 3/4"	1 3/4"	8"	8"	10	10'- 0"	10	10'- 0"	1	1'- 0"	4	10"	10'- 8"	4	10"	11'- 8"	--	---	-----	-----	4	10"	2'- 6"	3'- 1 3/4"	5'- 5"	4	12"	5'- 0"	4	12"	5'- 0"
5	4	1 3/4"	1 3/4"	8"	8"	10	10'- 0"	10	10'- 0"	2	2'- 0"	4	10"	10'- 8"	4	10"	11'- 8"	--	---	-----	-----	4	10"	2'- 6"	3'- 7 3/4"	5'- 11"	4	12"	6'- 0"	4	12"	6'- 0"
5	5	1 3/4"	1 3/4"	8"	8"	10	10'- 0"	10	10'- 0"	3	3'- 0"	4	10"	10'- 8"	4	10"	11'- 8"	--	---	-----	-----	4	10"	2'- 6"	4'- 1 3/4"	6'- 5"	4	12"	7'- 0"	4	12"	7'- 0"
5	6	1 3/4"	1 3/4"	8"	8"	10	10'- 0"	10	10'- 0"	4	4'- 0"	4	10"	10'- 8"	4	10"	11'- 8"	--	---	-----	-----	4	10"	2'- 6"	4'- 7 3/4"	6'- 11"	4	9"	8'- 0"	4	12"	8'- 0"
5	7	1 3/2"	1 3/2"	8"	8"	10	10'- 0"	10	10'- 0"	5	5'- 0"	4	10"	10'- 8"	4	10"	11'- 8"	--	---	-----	-----	5	10"	2'- 6"	5'- 1 1/2"	7'- 4"	5	10 1/2"	8'- 11"	4	12"	8'- 11"
6	4	1 6/4"	1 6/4"	8"	8"	12	12'- 0"	12	12'- 0"	2	2'- 0"	5	9"	12'- 3"	4	9"	13'- 8"	--	---	-----	-----	4	9"	2'- 8 3/8"	3'- 10/4"	6'- 3"	4	12"	6'- 4"	4	10"	6'- 4"
6	5	16"	16"	8"	8"	12	12'- 0"	12	12'- 0"	3	3'- 0"	5	9"	12'- 3"	4	9"	13'- 8"	--	---	-----	-----	4	9"	2'- 8 3/8"	4'- 4"	6'- 9"	4	12"	7'- 4"	4	10"	7'- 4"
6	6	16"	16"	8"	8"	12	12'- 0"	12	12'- 0"	4	4'- 0"	5	9"	12'- 3"	4	9"	13'- 8"	--	---	-----	-----	4	9"	2'- 8 3/8"	4'- 10"	7'- 3"	4	9"	8'- 4"	4	10 1/2"	8'- 4"
6	7	16"	16"	8"	8"	12	12'- 0"	12	12'- 0"	5	5'- 0"	5	9"	12'- 3"	4	9"	13'- 8"	3	9"	2'- 8 3/8"	5'- 2"	4	9"	2'- 8 3/8"	5'- 4"	7'- 9"	4	6 1/2"	9'- 4"	4	10"	9'- 4"
6	8	1 5/4"	1 5/4"	8"	8"	12	12'- 0"	12	12'- 0"	6	6'- 0"	5	9"	12'- 3"	4	9"	13'- 8"	--	---	-----	-----	5	9"	2'- 8 3/8"	5'- 9 3/4"	8'- 2"	6	11 1/2"	10'- 3"	4	10 1/2"	10'- 3"
7	4	1 8/4"	1 8/4"	8"	8"	14	14'- 0"	14	14'- 0"	2	2'- 0"	6	9"	13'- 10"	5	9"	15'- 8"	--	---	-----	-----	4	9"	2'- 10 3/4"	4'- 1/4"	6'- 8"	4	12"	6'- 9"	4	10"	6'- 9"
7	6	1 8/4"	1 8/4"	8"	8"	14	14'- 0"	14	14'- 0"	4	4'- 0"	5	8"	13'- 10"	5	8"	15'- 8"	--	---	-----	-----	4	8"	2'- 10 3/4"	5'- 3/4"	7'- 8"	4	9"	8'- 9"	4	10"	8'- 9"
7	8	1 8/4"	1 8/4"	8"	8"	14	14'- 0"	14	14'- 0"	6	6'- 0"	5	8"	13'- 10"	5	8"	15'- 8"	3	8"	2'- 10 3/4"	5'- 7"	4	8"	2'- 10 3/4"	6'- 3/4"	8'- 8"	5	7 1/2"	10'- 9"	4	10"	10'- 9"
7	10	1 8/4"	1 8/4"	9 3/4"	8"	14	14'- 0"	14	14'- 0"	8	8'- 0"	5	8"	13'- 10"	5	8"	15'- 11"	3	8"	3'- 1/2"	5'- 11"	5	8"	3'- 1/2"	7'- 1/4"	9'- 9"	6	9"	12'- 9"	4	10"	12'- 9"
8	4	2 0 3/4"	2 0 3/4"	8"	8"	16	16'- 0"	16	16'- 0"	2	2'- 0"	6	9"	15'- 6"	5	9"	17'- 8"	--	---	-----	-----	4	9"	3'- 1 1/4"	4'- 2 3/4"	7'- 1"	4	12"	7'- 1"	4	10"	7'- 1"
8	6	2 0 1/2"	2 0 1/2"	8"	8"	16	16'- 0"	16	16'- 0"	4	4'- 0"	6	9"	15'- 6"	5	9"	17'- 8"	--	---	-----	-----	4	9"	3'- 1 1/4"	5'- 2 1/2"	8'- 1"	4	8 1/2"	9'- 1"	4	10"	9'- 1"
8	8	2 0 1/2"	2 0 1/2"	8"	8"	16	16'- 0"	16	16'- 0"	6	6'- 0"	6	9"	15'- 6"	5	9"	17'- 8"	--	---	-----	-----	5	9"	3'- 1 1/4"	6'- 2 1/2"	9'- 0"	5	7 1/2"	11'- 1"	4	10"	11'- 1"
8	10	2 0 1/2"	2 0 1/2"	9 3/4"	8"	16	16'- 0"	16	16'- 0"	8	8'- 0"	6	9"	15'- 6"	5	9"	17'- 11"	--	---	-----	-----	6	9"	3'- 3"	7'- 2 1/2"	10'- 1"	4	4"	13'- 1"	4	10"	13'- 1"
9	4	2 3 1/2"	2 3 1/2"	8"	8"	18	18'- 0"	18	18'- 0"	2	2'- 0"	7	9"	17'- 1"	6	9"	19'- 8"	--	---	-----	-----	4	9"	3'- 3 5/8"	4'- 5 1/2"	7'- 6"	4	12"	7'- 7"	4	9"	7'- 7"
9	6	2 3 1/4"	2 3 1/4"	8"	8"	18	18'- 0"	18	18'- 0"	4	4'- 0"	6	9"	17'- 1"	6	9"	19'- 8"	--	---	-----	-----	4	9"	3'- 3 5/8"	5'- 5 1/4"	8'- 6"	4	8"	9'- 6"	4	9"	9'- 6"
9	8	23"	23"	8"	8"	18	18'- 0"	18	18'- 0"	6	6'- 0"	6	9"	17'- 1"	6	9"	19'- 8"	4	9"	3'- 3 5/8"	6'- 4"	4	9"	3'- 3 5/8"	6'- 5"	9'- 5"	4	4 1/2"	11'- 6"	4	9"	11'- 6"
9	10	23"	23"	9 3/4"	8"	18	18'- 0"	18	18'- 0"	8	8'- 0"	6	9"	17'- 1"	6	9"	19'- 11"	3	9"	3'- 5 3/8"	6'- 8"	5	9"	3'- 5 3/8"	7'- 5"	10'- 6"	5	6"	13'- 6"	4	9"	13'- 6"
9	12	23"	23"	11"	8"	18	18'- 0"	18	18'- 0"	10	10'- 0"	6	9"	17'- 1"	6	9"	20'- 2"	3	9"	3'- 6 5/8"	6'- 11"	7	9"	3'- 6 5/8"	8'- 5"	11'- 6"	7	9 1/2"	15'- 6"	4	9"	15'- 6"
10	4	2 5 1/2"	2 5 1/2"	8"	8"	20	20'- 0"	20	20'- 0"	2	2'- 0"	7	8"	18'- 8"	6	8"	21'- 8"	--	---	-----	-----	4	8"	3'- 6"	4'- 7 1/2"	7'- 10"	4	12"	7'- 11"	4	8"	7'- 11"
10	6	2 5 1/2"	2 5 1/2"	8"	8"	20	20'- 0"	20	20'- 0"	4	4'- 0"	6	8"	18'- 8"	6	8"	21'- 8"	--	---	-----	-----	4	8"	3'- 6"	5'- 7 1/2"	8'- 10"	5	12"	9'- 11"	4	8"	9'- 11"
10	8	2 5 1/4"	2 5 1/4"	8"	8"	20	20'- 0"	20	20'- 0"	6	6'- 0"	6	8"	18'- 8"	6	8"	21'- 8"	3	8"	3'- 6"	6'- 10"	4	8"	3'- 6"	6'- 7 1/4"	9'- 10"	4	4 1/2"	11'- 11"	4	8"	11'- 11"
10	10	2 5 1/4"	2 5 1/4"	9 3/4"	8"	20	20'- 0"	20	20'- 0"	8	8'- 0"	6	8"	18'- 8"	6	8"	21'- 11"	3	8"	3'- 7 3/4"	7'- 1"	5	8"	3'- 7 3/4"	7'- 7 1/4"	10'- 11"	7	11 1/2"	13'- 11"	4	8"	13'- 11"
10	12	2 5 1/4"	2 5 1/4"	11"	8"	20	20'- 0"	20	20'- 0"	10	10'- 0"	7	9"	18'- 8"	7	9"	22'- 2"	--	---	-----	-----	7	9"	3'- 9"	8'- 7 1/4"	11'- 11"	8	12"	15'- 11"	4	8"	15'- 11"
12	6	3 0 1/2"	3 0 1/2"	8"	8"	24	24'- 0"	24	24'- 0"	4	4'- 0"	8	9"	21'- 10"	6	9"	25'- 8"	--	---	-----	-----	4	9"	3'- 10 3/4"	6'- 1 1/2"	9'- 8"	5	10 1/2"	10'- 9"	5	10 1/2"	10'- 9"
12	8	3 0 1/4"	3 0 1/4"	8"	8"	24	24'- 0"	24	24'- 0"	6	6'- 0"	7	9"	21'- 10"	6	9"	25'- 8"	3	9"	3'- 10 3/4"	7'- 7"	4	9"	3'- 10 3/4"	7'- 1/4"	10'- 8"	6	9"	12'- 8"	5	10 1/2"	12'- 8"
12	10	3 0 1/4"	3 0 1/4"	9 3/4"	8"	24	24'- 0"	24	24'- 0"	8	8'- 0"	7	9"	21'- 10"	6	9"	25'- 11"	3	9"	4'- 1/2"	7'- 11"	5	9"	4'- 1/2"	8'- 1/4"	11'- 9"	5	5 1/2"	14'- 8"	5	10 1/2"	14'- 8"
12	12	30"	30"	11 1/4"	8"	24	24'- 0"	24	24'- 0"	10	10'- 0"	8	9"	21'- 10"	7	9"	26'- 2"	3	9"	4'- 2"	8'- 2"	6	9"	4'- 2"	9'- 0"	12'- 9"	8	12"	16'- 8"	5	10 1/2"	16'- 8"

DOUBLE BOX CULVERTS  
45 TO 50 FT. FILLS

VIRGINIA DEPARTMENT OF TRANSPORTATION

STRUCTURE  
AND  
BRIDGE  
DIVISION