

DIMENSIONS						REINFORCING STEEL																										
SPAN	HGHT	T1	T2	T3	T4	A	B	C	D	E	F	BH1			BH2			BH3			BH4			BV1			BV2					
(FT.)	(FT.)	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"	9	9'- 0"	9	9'- 0"	1	1'- 0"	4	12"	11'- 2"	4	12"	11'- 4"	--	---	----	----	4	12"	2'- 1 1/4"	2'- 8"	4'- 6"	4	12"	4'- 0"	4	12"	4'- 0"
3	4	8"	8"	8"	8"	9	9'- 0"	9	9'- 0"	2	2'- 0"	4	12"	11'- 2"	4	12"	11'- 4"	--	---	----	----	4	12"	2'- 1 1/4"	3'- 2"	5'- 0"	4	12"	5'- 0"	4	12"	5'- 0"
4	3	8"	8"	8"	8"	12	12'- 0"	12	12'- 0"	1	1'- 0"	4	12"	13'- 9"	4	12"	14'- 4"	--	---	----	----	4	12"	2'- 3 5/8"	2'- 8"	4'- 8"	4	12"	4'- 0"	4	12"	4'- 0"
4	4	8"	8"	8"	8"	12	12'- 0"	12	12'- 0"	2	2'- 0"	4	12"	13'- 9"	4	12"	14'- 4"	--	---	----	----	4	12"	2'- 3 5/8"	3'- 2"	5'- 2"	4	12"	5'- 0"	4	12"	5'- 0"
4	5	8"	8"	8"	8"	12	12'- 0"	12	12'- 0"	3	3'- 0"	4	12"	13'- 9"	4	12"	14'- 4"	--	---	----	----	4	12"	2'- 3 5/8"	3'- 8"	5'- 8"	4	12"	6'- 0"	4	12"	6'- 0"
4	6	8"	8"	8"	8"	12	12'- 0"	12	12'- 0"	4	4'- 0"	4	12"	13'- 9"	4	12"	14'- 4"	--	---	----	----	4	12"	2'- 3 5/8"	4'- 2"	6'- 2"	4	12"	7'- 0"	4	12"	7'- 0"
5	3	8 3/4"	8 3/4"	8"	8"	15	15'- 0"	15	15'- 0"	1	1'- 0"	4	12"	16'- 4"	4	12"	17'- 4"	4	12"	2'- 6"	4'- 9"	4	12"	2'- 6"	2'- 8 3/4"	5'- 0"	4	12"	4'- 2"	4	12"	4'- 2"
5	4	9"	9"	8"	8"	15	15'- 0"	15	15'- 0"	2	2'- 0"	4	12"	16'- 4"	4	12"	17'- 4"	4	12"	2'- 6"	4'- 9"	4	12"	2'- 6"	3'- 3"	5'- 6"	4	12"	5'- 2"	4	12"	5'- 2"
5	5	9"	9"	8"	8"	15	15'- 0"	15	15'- 0"	3	3'- 0"	4	12"	16'- 4"	4	12"	17'- 4"	3	12"	2'- 6"	4'- 10"	4	12"	2'- 6"	3'- 9"	6'- 0"	4	12"	6'- 2"	4	12"	6'- 2"
5	6	9"	9"	8"	8"	15	15'- 0"	15	15'- 0"	4	4'- 0"	4	12"	16'- 4"	4	12"	17'- 4"	4	12"	2'- 6"	4'- 9"	4	12"	2'- 6"	4'- 3"	6'- 6"	4	12"	7'- 2"	4	12"	7'- 2"
5	7	9 1/4"	9 1/4"	8"	8"	15	15'- 0"	15	15'- 0"	5	5'- 0"	4	12"	16'- 4"	4	12"	17'- 4"	4	12"	2'- 6"	4'- 9"	4	12"	2'- 6"	4'- 9 1/4"	7'- 0"	4	12"	8'- 2"	4	12"	8'- 2"
6	4	10 1/2"	10 1/2"	8"	8"	18	18'- 0"	18	18'- 0"	2	2'- 0"	4	11"	18'- 11"	4	11"	20'- 4"	4	11"	2'- 8 3/8"	5'- 2"	4	11"	2'- 8 3/8"	3'- 4 1/2"	5'- 10"	4	12"	5'- 5"	4	12"	5'- 5"
6	5	10 1/2"	10 1/2"	8"	8"	18	18'- 0"	18	18'- 0"	3	3'- 0"	4	11"	18'- 11"	4	11"	20'- 4"	4	11"	2'- 8 3/8"	5'- 2"	4	11"	2'- 8 3/8"	3'- 10 1/2"	6'- 4"	4	12"	6'- 5"	4	12"	6'- 5"
6	6	10 3/4"	10 3/4"	8"	8"	18	18'- 0"	18	18'- 0"	4	4'- 0"	4	11"	18'- 11"	4	11"	20'- 4"	4	11"	2'- 8 3/8"	5'- 2"	4	11"	2'- 8 3/8"	4'- 4 3/4"	6'- 10"	4	12"	7'- 5"	4	12"	7'- 5"
6	7	10 3/4"	10 3/4"	8"	8"	18	18'- 0"	18	18'- 0"	5	5'- 0"	4	11"	18'- 11"	4	11"	20'- 4"	4	11"	2'- 8 3/8"	5'- 2"	4	11"	2'- 8 3/8"	4'- 10 3/4"	7'- 4"	4	12"	8'- 5"	4	12"	8'- 5"
6	8	10 3/4"	10 3/4"	8"	8"	18	18'- 0"	18	18'- 0"	6	6'- 0"	4	10"	18'- 11"	4	10"	20'- 4"	--	---	----	----	5	10"	2'- 8 3/8"	5'- 4 3/4"	7'- 9"	4	11 1/2"	9'- 5"	4	12"	9'- 5"
7	4	12"	12"	8"	8"	21	21'- 0"	21	21'- 0"	2	2'- 0"	4	9"	21'- 6"	4	9"	23'- 4"	--	---	----	----	4	9"	2'- 10 3/4"	3'- 6"	6'- 2"	4	12"	5'- 8"	4	12"	5'- 8"
7	6	12 1/4"	12 1/4"	8"	8"	21	21'- 0"	21	21'- 0"	4	4'- 0"	4	9"	21'- 6"	4	9"	23'- 4"	--	---	----	----	4	9"	2'- 10 3/4"	4'- 6 1/4"	7'- 2"	4	12"	7'- 9"	4	12"	7'- 9"
7	8	12 1/2"	12 1/2"	8"	8"	21	21'- 0"	21	21'- 0"	6	6'- 0"	4	9"	21'- 6"	4	9"	23'- 4"	3	9"	2'- 10 3/4"	5'- 7"	4	9"	2'- 10 3/4"	5'- 6 1/2"	8'- 2"	4	12"	9'- 9"	4	12"	9'- 9"
7	10	12 1/2"	12 1/2"	8"	8"	21	21'- 0"	21	21'- 0"	8	8'- 0"	4	11"	21'- 6"	5	11"	23'- 4"	3	11"	2'- 10 3/4"	5'- 7"	5	11"	2'- 10 3/4"	6'- 6 1/2"	9'- 1"	4	6"	11'- 9"	4	12"	11'- 9"
8	4	13 1/4"	13 1/4"	8"	8"	24	24'- 0"	24	24'- 0"	2	2'- 0"	5	9"	24'- 2"	5	9"	26'- 4"	3	9"	3'- 1 1/4"	6'- 0"	4	9"	3'- 1 1/4"	3'- 7 1/4"	6'- 5"	4	12"	5'- 10"	4	12"	5'- 10"
8	6	13 1/4"	13 1/4"	8"	8"	24	24'- 0"	24	24'- 0"	4	4'- 0"	5	9"	24'- 2"	5	9"	26'- 4"	3	9"	3'- 1 1/4"	6'- 0"	4	9"	3'- 1 1/4"	4'- 7 1/4"	7'- 5"	4	12"	7'- 10"	4	12"	7'- 10"
8	8	13 1/4"	13 1/4"	8"	8"	24	24'- 0"	24	24'- 0"	6	6'- 0"	5	9"	24'- 2"	5	9"	26'- 4"	3	9"	3'- 1 1/4"	6'- 0"	4	9"	3'- 1 1/4"	5'- 7 1/4"	8'- 5"	4	12"	9'- 10"	4	12"	9'- 10"
8	10	13 1/2"	13 1/2"	8"	8"	24	24'- 0"	24	24'- 0"	8	8'- 0"	5	9"	24'- 2"	5	9"	26'- 4"	3	9"	3'- 1 1/4"	6'- 0"	5	9"	3'- 1 1/4"	6'- 7 1/2"	9'- 5"	4	6"	11'- 11"	4	12"	11'- 11"
9	4	14 3/4"	14 3/4"	8"	8"	27	27'- 0"	27	27'- 0"	2	2'- 0"	5	8"	26'- 9"	5	8"	29'- 4"	--	---	----	----	4	8"	3'- 3 5/8"	3'- 8 3/4"	6'- 9"	4	12"	6'- 1"	4	12"	6'- 1"
9	6	15"	15"	8"	8"	27	27'- 0"	27	27'- 0"	4	4'- 0"	5	8"	26'- 9"	5	8"	29'- 4"	--	---	----	----	4	8"	3'- 3 5/8"	4'- 9"	7'- 9"	4	12"	8'- 2"	4	12"	8'- 2"
9	8	15"	15"	8"	8"	27	27'- 0"	27	27'- 0"	6	6'- 0"	5	8"	26'- 9"	5	8"	29'- 4"	3	8"	3'- 3 5/8"	6'- 5"	4	8"	3'- 3 5/8"	5'- 9"	8'- 9"	4	12"	10'- 2"	4	12"	10'- 2"
9	10	15 1/4"	15 1/4"	8"	8"	27	27'- 0"	27	27'- 0"	8	8'- 0"	5	8"	26'- 9"	5	8"	29'- 4"	4	8"	3'- 3 5/8"	6'- 4"	4	8"	3'- 3 5/8"	6'- 9 1/4"	9'- 10"	4	6"	12'- 3"	4	12"	12'- 3"
9	12	15 1/4"	15 1/4"	8"	8"	27	27'- 0"	27	27'- 0"	10	10'- 0"	5	9"	26'- 9"	5	9"	29'- 4"	--	---	----	----	7	9"	3'- 3 5/8"	7'- 9 1/4"	10'- 7"	5	6"	14'- 3"	4	12"	14'- 3"
10	4	16 1/4"	16 1/4"	8"	8"	30	30'- 0"	30	30'- 0"	2	2'- 0"	6	9"	29'- 4"	5	9"	32'- 4"	--	---	----	----	4	9"	3'- 6"	3'- 10 1/4"	7'- 1"	4	12"	6'- 4"	4	12"	6'- 4"
10	6	16 1/2"	16 1/2"	8"	8"	30	30'- 0"	30	30'- 0"	4	4'- 0"	6	9"	29'- 4"	5	9"	32'- 4"	3	9"	3'- 6"	6'- 10"	4	9"	3'- 6"	4'- 10 1/2"	8'- 1"	4	12"	8'- 5"	4	12"	8'- 5"
10	8	16 1/2"	16 1/2"	8"	8"	30	30'- 0"	30	30'- 0"	6	6'- 0"	6	9"	29'- 4"	5	9"	32'- 4"	3	9"	3'- 6"	6'- 10"	4	9"	3'- 6"	5'- 10 1/2"	9'- 1"	4	12"	10'- 5"	4	12"	10'- 5"
10	10	16 3/4"	16 3/4"	8"	8"	30	30'- 0"	30	30'- 0"	8	8'- 0"	6	9"	29'- 4"	5	9"	32'- 4"	3	9"	3'- 6"	6'- 10"	5	9"	3'- 6"	6'- 10 3/4"	10'- 1"	4	6"	12'- 6"	4	12"	12'- 6"
10	12	16 3/4"	16 3/4"	8"	8"	30	30'- 0"	30	30'- 0"	10	10'- 0"	6	9"	29'- 4"	5	9"	32'- 4"	--	---	----	----	7	9"	3'- 6"	7'- 10 3/4"	10'- 11"	5	6"	14'- 6"	4	12"	14'- 6"
12	6	19 1/2"	19 1/2"	8"	8"	36	36'- 0"	36	36'- 0"	4	4'- 0"	6	9"	34'- 6"	6	9"	38'- 4"	3	9"	3'- 10 3/4"	7'- 7"	4	9"	3'- 10 3/4"	5'- 1 1/2"	8'- 9"	4	12"	8'- 11"	4	11"	8'- 11"
12	8	19 1/2"	19 1/2"	8"	8"	36	36'- 0"	36	36'- 0"	6	6'- 0"	6	8"	34'- 6"	6	8"	38'- 4"	3	8"	3'- 10 3/4"	7'- 7"	4	8"	3'- 10 3/4"	6'- 1 1/2"	9'- 9"	4	12"	10'- 11"	4	11"	10'- 11"
12	10	19 1/2"	19 1/2"	8"	8"	36	36'- 0"	36	36'- 0"	8	8'- 0"	6	8"	34'- 6"	6	8"	38'- 4"	--	---	----	----	5	8"	3'- 10 3/4"	7'- 1 1/2"	10'- 8"	4	6"	12'- 11"	4	11"	12'- 11"
12	12	19 3/4"	19 3/4"	8"	8"	36	36'- 0"	36	36'- 0"	10	10'- 0"	6	9"	34'- 6"	6	9"	38'- 4"	4	9"	3'- 10 3/4"	7'- 6"	6	9"	3'- 10 3/4"	8'- 1 3/4"	11'- 8"	5	6"	15'- 0"	4	11"	15'- 0"

TRIPLE BOX CULVERTS  
20 TO 25 FT. FILLS

VIRGINIA DEPARTMENT OF TRANSPORTATION

STRUCTURE  
AND  
BRIDGE  
DIVISION