

| DIMENSIONS | | | | | | | | | | REINFORCING STEEL | | | | | | | | | | | | | | | | | | | | | | |
|------------|-------|----------|-------------|---------------------|---------------------|----|--------|----|--------|-------------------|--------|------|-------------|---------|------|-------------|--------|------|-------------|------------|--------|------|-------------|------------|------------|---------|------|-------------|---------|------|-------------|---------|
| SPAN | HGHT | T1 | T2 | T3 | T4 | | | | | | BH1 | | | BH2 | | | BH3 | | | BH4 | | | BV1 | | | BV2 | | | | | | |
| (FT.) | (FT.) | TOP SLAB | BOTTOM SLAB | EXTERIOR WALL (IN.) | INTERIOR WALL (IN.) | A | B | C | D | E | F | 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" |
| 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 | 3 | 8 1/2" | 8 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'-8 1/2" | 4'-9" | 4 | 12" | 4'-1" | 4 | 12" | 4'-1" |
| 4 | 4 | 8 1/2" | 8 1/2" | 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 1/2" | 5'-3" | 4 | 12" | 5'-1" | 4 | 12" | 5'-1" |
| 4 | 5 | 8 3/4" | 8 3/4" | 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'-8 3/4" | 5'-9" | 4 | 12" | 6'-2" | 4 | 12" | 6'-2" |
| 4 | 6 | 8 3/4" | 8 3/4" | 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'-2 3/4" | 6'-3" | 4 | 12" | 7'-2" | 4 | 12" | 7'-2" |
| 5 | 3 | 10 1/4" | 10 1/4" | 8" | 8" | 10 | 10'-0" | 10 | 10'-0" | 1 | 1'-0" | 4 | 12" | 10'-8" | 4 | 12" | 11'-8" | -- | -- | ---- | ---- | 4 | 12" | 2'-6" | 2'-10 1/4" | 5'-1" | 4 | 12" | 4'-5" | 4 | 12" | 4'-5" |
| 5 | 4 | 10 1/4" | 10 1/4" | 8" | 8" | 10 | 10'-0" | 10 | 10'-0" | 2 | 2'-0" | 4 | 12" | 10'-8" | 4 | 12" | 11'-8" | -- | -- | ---- | ---- | 4 | 12" | 2'-6" | 3'-4 1/4" | 5'-7" | 4 | 12" | 5'-5" | 4 | 12" | 5'-5" |
| 5 | 5 | 10 1/4" | 10 1/4" | 8" | 8" | 10 | 10'-0" | 10 | 10'-0" | 3 | 3'-0" | 4 | 12" | 10'-8" | 4 | 12" | 11'-8" | -- | -- | ---- | ---- | 4 | 12" | 2'-6" | 3'-10 1/4" | 6'-1" | 4 | 12" | 6'-5" | 4 | 12" | 6'-5" |
| 5 | 6 | 10 1/4" | 10 1/4" | 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'-4 1/4" | 6'-7" | 4 | 12" | 7'-5" | 4 | 12" | 7'-5" |
| 5 | 7 | 10 1/4" | 10 1/4" | 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'-10 1/4" | 7'-1" | 4 | 12" | 8'-5" | 4 | 12" | 8'-5" |
| 6 | 4 | 12 1/4" | 12 1/4" | 8" | 8" | 12 | 12'-0" | 12 | 12'-0" | 2 | 2'-0" | 4 | 11" | 12'-3" | 4 | 11" | 13'-8" | -- | -- | ---- | ---- | 4 | 11" | 2'-8 3/8" | 3'-6 1/4" | 5'-11" | 4 | 12" | 5'-9" | 4 | 12" | 5'-9" |
| 6 | 5 | 12 1/4" | 12 1/4" | 8" | 8" | 12 | 12'-0" | 12 | 12'-0" | 3 | 3'-0" | 4 | 11" | 12'-3" | 4 | 11" | 13'-8" | -- | -- | ---- | ---- | 4 | 11" | 2'-8 3/8" | 4'-1 1/4" | 6'-5" | 4 | 12" | 6'-9" | 4 | 12" | 6'-9" |
| 6 | 6 | 12" | 12" | 8" | 8" | 12 | 12'-0" | 12 | 12'-0" | 4 | 4'-0" | 4 | 11" | 12'-3" | 4 | 11" | 13'-8" | 3 | 11" | 2'-8 3/8" | 5'-2" | 4 | 11" | 2'-8 3/8" | 4'-6" | 6'-11" | 4 | 12" | 7'-8" | 4 | 12" | 7'-8" |
| 6 | 7 | 12" | 12" | 8" | 8" | 12 | 12'-0" | 12 | 12'-0" | 5 | 5'-0" | 4 | 10" | 12'-3" | 4 | 10" | 13'-8" | 3 | 10" | 2'-8 3/8" | 5'-2" | 4 | 10" | 2'-8 3/8" | 5'-0" | 7'-5" | 4 | 12" | 8'-8" | 4 | 12" | 8'-8" |
| 6 | 8 | 12" | 12" | 8" | 8" | 12 | 12'-0" | 12 | 12'-0" | 6 | 6'-0" | 4 | 10" | 12'-3" | 4 | 10" | 13'-8" | -- | -- | ---- | ---- | 5 | 10" | 2'-8 3/8" | 5'-6" | 7'-10" | 4 | 8" | 9'-8" | 4 | 12" | 9'-8" |
| 7 | 4 | 13 3/4" | 13 3/4" | 8" | 8" | 14 | 14'-0" | 14 | 14'-0" | 2 | 2'-0" | 5 | 9" | 13'-10" | 4 | 9" | 15'-8" | -- | -- | ---- | ---- | 4 | 9" | 2'-10 3/4" | 3'-7 3/4" | 6'-3" | 4 | 12" | 6'-0" | 4 | 12" | 6'-0" |
| 7 | 6 | 13 3/4" | 13 3/4" | 8" | 8" | 14 | 14'-0" | 14 | 14'-0" | 4 | 4'-0" | 5 | 9" | 13'-10" | 4 | 9" | 15'-8" | -- | -- | ---- | ---- | 4 | 9" | 2'-10 3/4" | 4'-7 3/4" | 7'-3" | 4 | 12" | 8'-0" | 4 | 12" | 8'-0" |
| 7 | 8 | 13 3/4" | 13 3/4" | 8" | 8" | 14 | 14'-0" | 14 | 14'-0" | 6 | 6'-0" | 5 | 9" | 13'-10" | 4 | 9" | 15'-8" | 3 | 9" | 2'-10 3/4" | 5'-7" | 4 | 9" | 2'-10 3/4" | 5'-7 3/4" | 8'-3" | 4 | 8 1/2" | 10'-0" | 4 | 12" | 10'-0" |
| 7 | 10 | 13 3/4" | 13 3/4" | 8" | 8" | 14 | 14'-0" | 14 | 14'-0" | 8 | 8'-0" | 5 | 9" | 13'-10" | 4 | 9" | 15'-8" | 3 | 9" | 2'-10 3/4" | 5'-7" | 5 | 9" | 2'-10 3/4" | 6'-7 3/4" | 9'-3" | 4 | 5" | 12'-0" | 4 | 12" | 12'-0" |
| 8 | 4 | 15 1/2" | 15 1/2" | 8" | 8" | 16 | 16'-0" | 16 | 16'-0" | 2 | 2'-0" | 5 | 8" | 15'-6" | 4 | 8" | 17'-8" | -- | -- | ---- | ---- | 4 | 8" | 3'-1 1/4" | 3'-9 1/2" | 6'-8" | 4 | 12" | 6'-3" | 4 | 12" | 6'-3" |
| 8 | 6 | 15 1/2" | 15 1/2" | 8" | 8" | 16 | 16'-0" | 16 | 16'-0" | 4 | 4'-0" | 5 | 8" | 15'-6" | 4 | 8" | 17'-8" | -- | -- | ---- | ---- | 4 | 8" | 3'-1 1/4" | 4'-9 1/2" | 7'-8" | 4 | 12" | 8'-3" | 4 | 12" | 8'-3" |
| 8 | 8 | 15 1/2" | 15 1/2" | 8" | 8" | 16 | 16'-0" | 16 | 16'-0" | 6 | 6'-0" | 5 | 8" | 15'-6" | 4 | 8" | 17'-8" | 3 | 8" | 3'-1 1/4" | 6'-0" | 4 | 8" | 3'-1 1/4" | 5'-9 1/2" | 8'-8" | 4 | 8 1/2" | 10'-3" | 4 | 12" | 10'-3" |
| 8 | 10 | 15 1/2" | 15 1/2" | 8" | 8" | 16 | 16'-0" | 16 | 16'-0" | 8 | 8'-0" | 5 | 8" | 15'-6" | 4 | 8" | 17'-8" | 3 | 8" | 3'-1 1/4" | 6'-0" | 5 | 8" | 3'-1 1/4" | 6'-9 1/2" | 9'-7" | 4 | 5" | 12'-3" | 4 | 12" | 12'-3" |
| 9 | 4 | 17 1/4" | 17 1/4" | 8" | 8" | 18 | 18'-0" | 18 | 18'-0" | 2 | 2'-0" | 6 | 9" | 17'-1" | 5 | 9" | 19'-8" | -- | -- | ---- | ---- | 4 | 9" | 3'-3 5/8" | 3'-11 1/4" | 7'-0" | 4 | 12" | 6'-6" | 4 | 11" | 6'-6" |
| 9 | 6 | 17 1/4" | 17 1/4" | 8" | 8" | 18 | 18'-0" | 18 | 18'-0" | 4 | 4'-0" | 6 | 9" | 17'-1" | 5 | 9" | 19'-8" | -- | -- | ---- | ---- | 4 | 9" | 3'-3 5/8" | 4'-11 1/4" | 8'-0" | 4 | 12" | 8'-6" | 4 | 11" | 8'-6" |
| 9 | 8 | 17 1/2" | 17 1/2" | 8" | 8" | 18 | 18'-0" | 18 | 18'-0" | 6 | 6'-0" | 6 | 9" | 17'-1" | 5 | 9" | 19'-8" | 3 | 9" | 3'-3 5/8" | 6'-5" | 4 | 9" | 3'-3 5/8" | 5'-11 1/2" | 9'-0" | 4 | 8" | 10'-7" | 4 | 11" | 10'-7" |
| 9 | 10 | 17 1/2" | 17 1/2" | 8" | 8" | 18 | 18'-0" | 18 | 18'-0" | 8 | 8'-0" | 6 | 9" | 17'-1" | 5 | 9" | 19'-8" | 4 | 9" | 3'-3 5/8" | 6'-4" | 4 | 9" | 3'-3 5/8" | 6'-11 1/2" | 10'-0" | 5 | 7 1/2" | 12'-7" | 4 | 11" | 12'-7" |
| 9 | 12 | 17 1/2" | 17 1/2" | 8 1/2" | 8" | 18 | 18'-0" | 18 | 18'-0" | 10 | 10'-0" | 6 | 9" | 17'-1" | 5 | 9" | 19'-9" | 3 | 9" | 3'-4 5/8" | 6'-6" | 6 | 9" | 3'-4 5/8" | 7'-11 1/2" | 10'-11" | 5 | 5 1/2" | 14'-7" | 4 | 11" | 14'-7" |
| 10 | 4 | 18 1/2" | 18 1/2" | 8" | 8" | 20 | 20'-0" | 20 | 20'-0" | 2 | 2'-0" | 6 | 8" | 18'-8" | 4 | 8" | 21'-8" | -- | -- | ---- | ---- | 4 | 8" | 3'-6" | 4'-1 1/2" | 7'-3" | 4 | 12" | 6'-9" | 4 | 10" | 6'-9" |
| 10 | 6 | 18 3/4" | 18 3/4" | 8" | 8" | 20 | 20'-0" | 20 | 20'-0" | 4 | 4'-0" | 6 | 9" | 18'-8" | 5 | 9" | 21'-8" | -- | -- | ---- | ---- | 4 | 9" | 3'-6" | 5'-3 1/4" | 8'-4" | 4 | 12" | 8'-9" | 4 | 10" | 8'-9" |
| 10 | 8 | 18 3/4" | 18 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" | 6'-3 1/4" | 9'-4" | 4 | 8 1/2" | 10'-9" | 4 | 10" | 10'-9" |
| 10 | 10 | 19" | 19" | 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" | 7'-1" | 10'-3" | 5 | 7 1/2" | 12'-10" | 4 | 10" | 12'-10" |
| 10 | 12 | 19 1/4" | 19 1/4" | 8 1/2" | 8" | 20 | 20'-0" | 20 | 20'-0" | 10 | 10'-0" | 6 | 9" | 18'-8" | 5 | 9" | 21'-9" | 3 | 9" | 3'-6 1/2" | 6'-11" | 6 | 9" | 3'-6 1/2" | 8'-1 1/4" | 11'-3" | 7 | 10 1/2" | 14'-10" | 4 | 10" | 14'-10" |
| 12 | 6 | 22 1/4" | 22 1/4" | 8" | 8" | 24 | 24'-0" | 24 | 24'-0" | 4 | 4'-0" | 7 | 9" | 21'-10" | 6 | 9" | 25'-8" | -- | -- | ---- | ---- | 4 | 9" | 3'-10 3/4" | 5'-4 1/4" | 9'-0" | 4 | 12" | 9'-4" | 4 | 10" | 9'-4" |
| 12 | 8 | 22 1/4" | 22 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" | 6'-4 1/4" | 10'-0" | 4 | 8" | 11'-4" | 4 | 10" | 11'-4" |
| 12 | 10 | 22 1/4" | 22 1/4" | 8" | 8" | 24 | 24'-0" | 24 | 24'-0" | 8 | 8'-0" | 7 | 9" | 21'-10" | 6 | 9" | 25'-8" | 3 | 9" | 3'-10 3/4" | 7'-7" | 5 | 9" | 3'-10 3/4" | 7'-4 1/4" | 10'-11" | 5 | 7 1/2" | 13'-4" | 4 | 10" | 13'-4" |
| 12 | 12 | 22 1/2" | 22 1/2" | 8 1/2" | 8" | 24 | 24'-0" | 24 | 24'-0" | 10 | 10'-0" | 7 | 9" | 21'-10" | 6 | 9" | 25'-9" | 3 | 9" | 3'-11 1/4" | 7'-8" | 6 | 9" | 3'-11 1/4" | 8'-4 1/2" | 11'-11" | 6 | 7 1/2" | 15'-5" | 4 | 10" | 15'-5" |

DOUBLE BOX CULVERTS

25 TO 30 FT. FILLS

VIRGINIA DEPARTMENT OF TRANSPORTATION

STRUCTURE
AND
BRIDGE
DIVISION