

| SPAN (FT.) | HGHT (FT.) | REINFORCING STEEL (LBS/LONG. JT) | QUAN./LF | | HEADWALLS | | | | | | | | |
|---------------|---------------|--|---------------------------------|----------------------------------|--------------------|------|---------|-------|----------------------------------|-------------------------------------|-----------------------------------|--------------------------------------|----------|
| | | | CONCRETE CLASS A4 (CY/LF) | REINFORCING STEEL (LBS/LF) | G | | HW I | | INLET CONCRETE CL. A4 (CY) | INLET REINFORCING STEEL (LBS) | OUTLET CONCRETE CL. A4 (CY) | OUTLET REINFORCING STEEL (LBS) | WINGWALL |
| | | | | | HEADWALL LENGTH | SIZE | LENGTH | | | | | | |
| 3 | 3 | 16.184 | 0.400 | 45.201 | 5'-10" | 6 | 5'- 6" | 1.038 | 33.044 | 1.042 | 33.044 | A | |
| 3 | 4 | 17.596 | 0.449 | 49.377 | 5'-10" | 6 | 5'- 6" | 1.131 | 33.044 | 1.134 | 33.044 | C | |
| 4 | 3 | 19.524 | 0.449 | 53.135 | 6'-10" | 6 | 6'- 6" | 1.139 | 39.052 | 1.146 | 39.052 | A | |
| 4 | 4 | 20.936 | 0.498 | 63.973 | 6'-10" | 6 | 6'- 6" | 1.232 | 39.052 | 1.239 | 39.052 | C | |
| 4 | 5 | 22.348 | 0.547 | 68.271 | 6'-10" | 6 | 6'- 6" | 1.324 | 39.052 | 1.332 | 39.052 | E | |
| 4 | 6 | 23.760 | 0.596 | 74.584 | 6'-10" | 6 | 6'- 6" | 1.417 | 39.052 | 1.424 | 39.052 | G | |
| 5 | 3 | 22.864 | 0.516 | 80.245 | 7'-10" | 6 | 7'- 6" | 1.240 | 45.060 | 1.251 | 45.060 | A | |
| 5 | 4 | 24.276 | 0.565 | 87.679 | 7'-10" | 6 | 7'- 6" | 1.333 | 45.060 | 1.343 | 45.060 | C | |
| 5 | 5 | 25.688 | 0.614 | 90.246 | 7'-10" | 6 | 7'- 6" | 1.426 | 45.060 | 1.436 | 45.060 | E | |
| 5 | 6 | 27.100 | 0.674 | 94.821 | 7'-10" | 6 | 7'- 6" | 1.518 | 45.060 | 1.529 | 45.060 | G | |
| 5 | 7 | 28.512 | 0.722 | 92.896 | 7'-10" | 6 | 7'- 6" | 1.611 | 45.060 | 1.621 | 45.060 | I | |
| 6 | 4 | 27.616 | 0.684 | 106.939 | 8'-10" | 6 | 8'- 6" | 1.446 | 51.068 | 1.460 | 51.068 | D | |
| 6 | 5 | 29.028 | 0.745 | 97.220 | 8'-10" | 6 | 8'- 6" | 1.538 | 51.068 | 1.552 | 51.068 | F | |
| 6 | 6 | 30.440 | 0.794 | 106.917 | 8'-10" | 6 | 8'- 6" | 1.631 | 51.068 | 1.645 | 51.068 | H | |
| 6 | 7 | 31.852 | 0.843 | 112.047 | 8'-10" | 6 | 8'- 6" | 1.724 | 51.068 | 1.738 | 51.068 | J | |
| 6 | 8 | 33.264 | 0.890 | 138.951 | 8'-10" | 6 | 8'- 6" | 1.817 | 51.068 | 1.830 | 51.068 | L | |
| 7 | 4 | 30.956 | 0.822 | 117.002 | 9'-10" | 6 | 9'- 6" | 1.532 | 57.076 | 1.549 | 57.076 | D | |
| 7 | 6 | 33.780 | 0.932 | 131.068 | 9'-10" | 6 | 9'- 6" | 1.716 | 57.076 | 1.733 | 57.076 | H | |
| 7 | 8 | 36.604 | 1.030 | 142.092 | 9'-10" | 6 | 9'- 6" | 1.902 | 57.076 | 1.919 | 57.076 | L | |
| 7 | 10 | 39.428 | 1.125 | 197.314 | 9'-10" | 6 | 9'- 6" | 2.087 | 57.076 | 2.104 | 57.076 | P | |
| 8 | 4 | 34.296 | 0.961 | 167.087 | 10'-10" | 6 | 10'- 6" | 1.611 | 63.084 | 1.631 | 63.084 | D | |
| 8 | 6 | 37.120 | 1.075 | 161.419 | 10'-10" | 6 | 10'- 6" | 1.794 | 63.084 | 1.815 | 63.084 | H | |
| 8 | 8 | 39.944 | 1.172 | 185.729 | 10'-10" | 6 | 10'- 6" | 1.980 | 63.084 | 2.000 | 63.084 | L | |
| 8 | 10 | 42.768 | 1.266 | 238.319 | 10'-10" | 6 | 10'- 6" | 2.165 | 63.084 | 2.185 | 63.084 | P | |
| 9 | 4 | 37.636 | 1.085 | 196.771 | 11'-10" | 6 | 11'- 6" | 1.688 | 69.092 | 1.712 | 69.092 | D | |
| 9 | 6 | 40.460 | 1.184 | 197.873 | 11'-10" | 6 | 11'- 6" | 1.874 | 69.092 | 1.897 | 69.092 | H | |
| 9 | 8 | 43.284 | 1.281 | 220.077 | 11'-10" | 6 | 11'- 6" | 2.059 | 69.092 | 2.083 | 69.092 | L | |
| 9 | 10 | 46.108 | 1.379 | 237.461 | 11'-10" | 6 | 11'- 6" | 2.245 | 69.092 | 2.268 | 69.092 | P | |
| 9 | 12 | 48.932 | 1.456 | 309.829 | 11'-10" | 6 | 11'- 6" | 2.433 | 69.092 | 2.457 | 69.092 | T | |
| 10 | 4 | 40.976 | 1.254 | 224.040 | 12'-10" | 6 | 12'- 6" | 1.753 | 75.100 | 1.780 | 75.100 | D | |
| 10 | 6 | 43.800 | 1.369 | 237.193 | 12'-10" | 6 | 12'- 6" | 1.935 | 75.100 | 1.962 | 75.100 | H | |
| 10 | 8 | 46.624 | 1.468 | 235.505 | 12'-10" | 6 | 12'- 6" | 2.120 | 75.100 | 2.147 | 75.100 | L | |
| 10 | 10 | 49.448 | 1.562 | 304.296 | 12'-10" | 6 | 12'- 6" | 2.306 | 75.100 | 2.333 | 75.100 | P | |
| 10 | 12 | 52.272 | 1.657 | 347.194 | 12'-10" | 6 | 12'- 6" | 2.491 | 75.100 | 2.518 | 75.100 | T | |
| 12 | 6 | 50.480 | 1.757 | 277.565 | 14'-10" | 6 | 14'- 6" | 2.059 | 87.116 | 2.092 | 87.116 | I | |
| 12 | 8 | 53.304 | 1.872 | 336.479 | 14'-10" | 6 | 14'- 6" | 2.239 | 87.116 | 2.272 | 87.116 | M | |
| 12 | 10 | 56.128 | 1.969 | 364.495 | 14'-10" | 6 | 14'- 6" | 2.424 | 87.116 | 2.458 | 87.116 | Q | |
| 12 | 12 | 58.952 | 2.064 | 408.019 | 14'-10" | 6 | 14'- 6" | 2.609 | 87.116 | 2.643 | 87.116 | U | |

SPECIFICATION
REFERENCE

SINGLE BOX CULVERTS

20 TO 25 FT. FILLS

VIRGINIA DEPARTMENT OF TRANSPORTATION



ROAD AND BRIDGE STANDARDS

REVISION DATE

SHEET 2 OF 2

1002.14