

| WING | STEM BAR SPACINGS | | | | | | | | | | | | WV1 | | | | | | WV2 | | | | | |
|------|-------------------|--------|-----|--------|-----|--------|-----|--------|-----|-------|-----|--------|------|--------|-------|-----------|--------|--------|-----------|------|---------|--------|-----------|--|
| | WV1 | | WV2 | | WV3 | | WV4 | | WH1 | | WH2 | | SIZE | α | | | LENGTH | | | SIZE | LENGTH | | | |
| | O | P | Q | R | S | T | U | V | W | X | Y | Z | | FROM | TO | VARY BY | FROM | TO | VARY BY | | FROM | TO | VARY BY | |
| A | 8 | 8'-0" | 6 | 7'-6" | - | - | - | - | - | - | 1 | 1'-3" | 4 | 4'-11" | 2'-3" | 0'-4" | 6'-10" | 4'-1" | 0'-4" | 4 | 4'-11" | 2'-5" | 0'-5" | |
| B | 10 | 10'-0" | 8 | 10'-0" | - | - | - | - | 1 | 0'-6" | 1 | 1'-3" | 4 | 5'-5" | 2'-1" | 0'-4" | 7'-4" | 3'-11" | 0'-4" | 4 | 5'-5" | 2'-1" | 0'-5" | |
| C | 11 | 11'-0" | 8 | 10'-0" | - | - | - | - | - | - | 2 | 2'-6" | 4 | 5'-11" | 2'-1" | 0'-4 1/8" | 7'-10" | 4'-0" | 0'-4 1/8" | 4 | 5'-11" | 2'-5" | 0'-5 1/4" | |
| D | 12 | 12'-0" | 10 | 12'-6" | - | - | - | - | - | - | 2 | 2'-6" | 4 | 6'-5" | 2'-3" | 0'-4 1/8" | 8'-4" | 4'-2" | 0'-4 1/8" | 4 | 6'-5" | 2'-1" | 0'-5 1/8" | |
| E | 14 | 14'-0" | 11 | 13'-9" | - | - | - | - | - | - | 3 | 3'-9" | 4 | 6'-11" | 2'-1" | 0'-4 1/8" | 8'-10" | 4'-0" | 0'-4 1/8" | 4 | 6'-11" | 2'-2" | 0'-5 1/8" | |
| F | 15 | 15'-0" | 12 | 15'-0" | - | - | - | - | - | - | 3 | 3'-9" | 4 | 7'-5" | 2'-3" | 0'-4 1/8" | 9'-4" | 4'-2" | 0'-4 1/8" | 4 | 7'-5" | 2'-3" | 0'-5 1/8" | |
| G | 17 | 17'-0" | 13 | 16'-3" | - | - | - | - | 1 | 0'-6" | 3 | 3'-9" | 4 | 7'-11" | 2'-1" | 0'-4 1/8" | 9'-10" | 3'-11" | 0'-4 1/8" | 4 | 7'-11" | 2'-4" | 0'-5 1/8" | |
| H | 18 | 18'-0" | 14 | 17'-6" | - | - | - | - | - | - | 4 | 5'-0" | 4 | 8'-5" | 2'-3" | 0'-4" | 10'-4" | 4'-2" | 0'-4" | 4 | 8'-5" | 2'-5" | 0'-5 1/8" | |
| I | 12 | 12'-0" | 15 | 18'-9" | 8 | 6'-0" | - | - | - | - | 4 | 5'-0" | 4 | 6'-5" | 2'-3" | 0'-4 1/8" | 8'-4" | 4'-2" | 0'-4 1/8" | 4 | 8'-11" | 2'-4" | 0'-5 1/4" | |
| J | 12 | 12'-0" | 16 | 20'-0" | 10 | 7'-6" | - | - | - | - | 5 | 6'-3" | 4 | 6'-5" | 2'-3" | 0'-4 1/8" | 8'-4" | 4'-2" | 0'-4 1/8" | 4 | 9'-5" | 2'-5" | 0'-5 1/4" | |
| K | 13 | 13'-0" | 18 | 22'-6" | 11 | 8'-3" | - | - | - | - | 5 | 6'-3" | 4 | 6'-8" | 2'-2" | 0'-4 1/8" | 8'-7" | 4'-1" | 0'-4 1/8" | 4 | 9'-11" | 2'-1" | 0'-5 1/8" | |
| L | 14 | 14'-0" | 19 | 23'-9" | 12 | 9'-0" | - | - | 1 | 0'-6" | 5 | 6'-3" | 4 | 6'-11" | 2'-1" | 0'-4 1/8" | 8'-10" | 4'-0" | 0'-4 1/8" | 4 | 10'-5" | 2'-2" | 0'-5 1/8" | |
| M | 15 | 15'-0" | 20 | 25'-0" | 12 | 9'-0" | - | - | - | - | 6 | 7'-6" | 4 | 7'-5" | 2'-3" | 0'-4 1/8" | 9'-4" | 4'-2" | 0'-4 1/8" | 4 | 10'-11" | 2'-3" | 0'-5 1/8" | |
| N | 16 | 16'-0" | 21 | 26'-3" | 13 | 9'-9" | - | - | - | - | 6 | 7'-6" | 5 | 7'-8" | 2'-2" | 0'-4 1/8" | 9'-8" | 4'-1" | 0'-4 1/8" | 4 | 11'-5" | 2'-4" | 0'-5 1/8" | |
| O | 17 | 17'-0" | 22 | 27'-6" | 13 | 9'-9" | - | - | - | - | 7 | 8'-9" | 5 | 8'-2" | 2'-2" | 0'-4 1/8" | 10'-1" | 4'-1" | 0'-4 1/8" | 4 | 11'-11" | 2'-3" | 0'-5 1/4" | |
| P | 18 | 18'-0" | 23 | 28'-9" | 14 | 10'-6" | - | - | - | - | 7 | 8'-9" | 5 | 8'-5" | 2'-1" | 0'-4 1/8" | 10'-4" | 4'-0" | 0'-4 1/8" | 4 | 12'-5" | 2'-4" | 0'-5 1/4" | |
| Q | 18 | 18'-0" | 24 | 30'-0" | 16 | 12'-0" | - | - | 1 | 0'-6" | 7 | 8'-9" | 5 | 8'-4" | 2'-1" | 0'-4 1/8" | 10'-4" | 4'-0" | 0'-4 1/8" | 4 | 12'-11" | 2'-5" | 0'-5 1/4" | |
| R | 15 | 15'-0" | 26 | 32'-6" | 13 | 9'-9" | 12 | 6'-0" | - | - | 8 | 10'-0" | 4 | 7'-4" | 2'-1" | 0'-4 1/8" | 9'-2" | 4'-0" | 0'-4 1/8" | 4 | 13'-5" | 2'-1" | 0'-5 1/8" | |
| S | 15 | 15'-0" | 27 | 33'-9" | 13 | 9'-9" | 15 | 7'-6" | - | - | 8 | 10'-0" | 4 | 7'-4" | 2'-1" | 0'-4 1/8" | 9'-2" | 4'-0" | 0'-4 1/8" | 4 | 13'-11" | 2'-2" | 0'-5 1/8" | |
| T | 14 | 14'-0" | 28 | 35'-0" | 15 | 11'-3" | 17 | 8'-6" | - | - | 9 | 11'-3" | 4 | 6'-11" | 2'-1" | 0'-4 1/8" | 8'-10" | 4'-0" | 0'-4 1/8" | 4 | 14'-5" | 2'-3" | 0'-5 1/8" | |
| U | 14 | 14'-0" | 29 | 36'-3" | 17 | 12'-9" | 16 | 8'-0" | - | - | 9 | 11'-3" | 4 | 7'-0" | 2'-1" | 0'-4 1/8" | 8'-11" | 4'-0" | 0'-4 1/8" | 4 | 14'-11" | 2'-2" | 0'-5 1/4" | |
| V | 15 | 15'-0" | 30 | 37'-6" | 17 | 12'-9" | 17 | 8'-6" | 1 | 0'-6" | 9 | 11'-3" | 4 | 7'-4" | 2'-1" | 0'-4 1/8" | 9'-3" | 4'-0" | 0'-4 1/8" | 4 | 15'-5" | 2'-3" | 0'-5 1/4" | |
| W | 15 | 15'-0" | 31 | 38'-9" | 19 | 14'-3" | 17 | 8'-6" | - | - | 10 | 12'-6" | 4 | 7'-7" | 2'-4" | 0'-4 1/8" | 9'-6" | 4'-3" | 0'-4 1/8" | 4 | 16'-2" | 2'-7" | 0'-5 1/4" | |
| X | 17 | 17'-0" | 32 | 40'-0" | 17 | 12'-9" | 19 | 9'-6" | - | - | 10 | 12'-6" | 4 | 8'-6" | 2'-7" | 0'-4 1/8" | 10'-5" | 4'-6" | 0'-4 1/8" | 4 | 16'-11" | 2'-11" | 0'-5 1/4" | |
| Y | 20 | 20'-0" | 34 | 42'-6" | 15 | 11'-3" | 19 | 9'-6" | - | - | 11 | 13'-9" | 4 | 9'-7" | 2'-7" | 0'-4 1/8" | 11'-5" | 4'-6" | 0'-4 1/8" | 4 | 17'-5" | 2'-7" | 0'-5 1/8" | |
| Z | 20 | 20'-0" | 35 | 43'-9" | 17 | 12'-9" | 19 | 9'-6" | - | - | 11 | 13'-9" | 4 | 9'-7" | 2'-7" | 0'-4 1/8" | 11'-5" | 4'-6" | 0'-4 1/8" | 4 | 17'-11" | 2'-8" | 0'-5 1/8" | |
| AA | 19 | 19'-0" | 36 | 45'-0" | 19 | 14'-3" | 20 | 10'-0" | 1 | 0'-6" | 11 | 13'-9" | 4 | 9'-3" | 2'-7" | 0'-4 1/8" | 11'-2" | 4'-6" | 0'-4 1/8" | 4 | 18'-5" | 2'-7" | 0'-5 1/4" | |
| BB | 20 | 20'-0" | 37 | 46'-3" | 19 | 14'-3" | 21 | 10'-6" | - | - | 12 | 15'-0" | 4 | 9'-7" | 2'-7" | 0'-4 1/8" | 11'-6" | 4'-6" | 0'-4 1/8" | 4 | 18'-11" | 2'-8" | 0'-5 1/4" | |
| CC | 19 | 19'-0" | 38 | 47'-6" | 21 | 15'-9" | 23 | 11'-6" | - | - | 12 | 15'-0" | 4 | 9'-3" | 2'-7" | 0'-4 1/8" | 11'-2" | 4'-6" | 0'-4 1/8" | 4 | 19'-5" | 2'-9" | 0'-5 1/4" | |
| DD | 18 | 18'-0" | 39 | 48'-9" | 23 | 17'-3" | 25 | 12'-6" | - | - | 13 | 16'-3" | 4 | 8'-10" | 2'-7" | 0'-4 1/8" | 10'-9" | 4'-6" | 0'-4 1/8" | 4 | 19'-11" | 2'-10" | 0'-5 1/4" | |
| EE | 18 | 18'-0" | 40 | 50'-0" | 25 | 18'-9" | 25 | 12'-6" | - | - | 13 | 16'-3" | 4 | 8'-10" | 2'-7" | 0'-4 1/8" | 10'-9" | 4'-6" | 0'-4 1/8" | 4 | 20'-5" | 2'-11" | 0'-5 1/4" | |

A COPY OF THE ORIGINAL SEALED AND SIGNED DRAWING IS ON FILE IN THE CENTRAL OFFICE

| | |
|---------------------------|---------------|
| VDOT | |
| ROAD AND BRIDGE STANDARDS | |
| SHEET 7 OF 8 | REVISION DATE |
| 1007.15 | 07/11 |

| |
|---|
| <h2 style="margin: 0;">WING DETAILS</h2> <h3 style="margin: 0;">2:1 FILL SLOPE - TYPE II</h3> <p style="margin: 0;">VIRGINIA DEPARTMENT OF TRANSPORTATION</p> |
|---|

| |
|----------------------------|
| SPECIFICATION REFERENCE |
| |