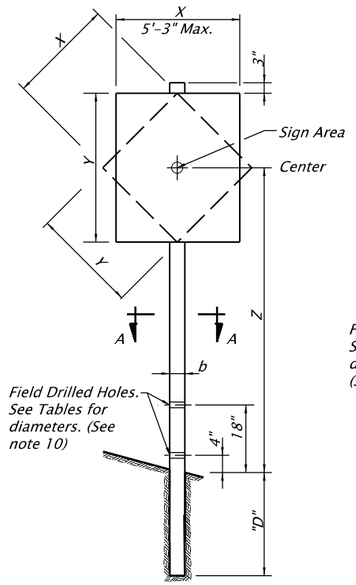
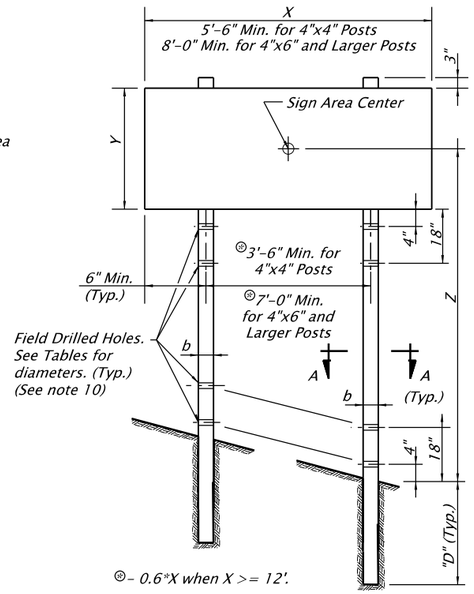
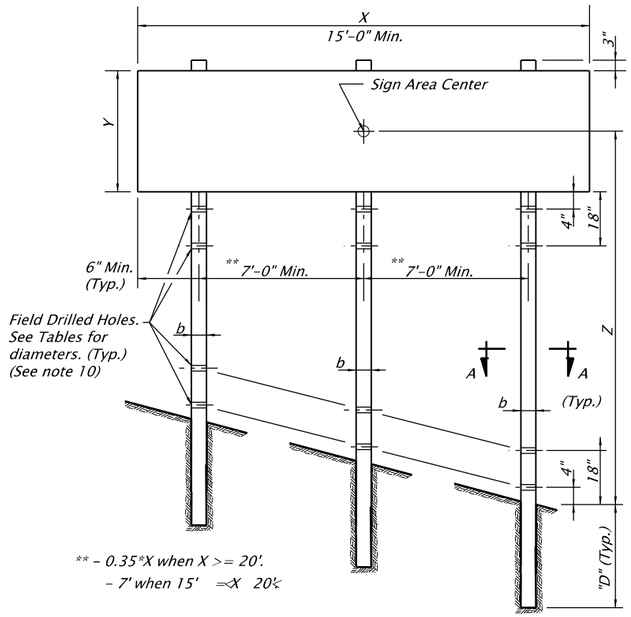



## ELEVATION
*No scale*

| | | ( X * Y * Z ) in ft³ - Maximum | | | | | | | | | | | | Field Drilled Hole Diameters | Post Embedment Depth "D" |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 3 Second Gust Wind Speed (TM671) | | | | | | | | | | | | | |
| | | 85 MPH | | | | 95 MPH | | | | 105 and 110 MPH | | | | | |
| | | Number of Posts | | | | Number of Posts | | | | Number of Posts | | | | | |
| | | 1 | 2 | 3 * X=15' | 3 * X ≥20' | 1 | 2 | 3 * X=15' | 3 * X ≥20' | 1 | 2 | 3 * X=15' | 3 * X ≥20' | | |
| POST SIZE b x d | 4" x 4" | 77 | 154 | 165 | 231 | 62 | 124 | 132 | 186 | 56 | 112 | 120 | 168 | Not Req'd | 4' - 0" |
| | 4" x 6" | 162 | 324 | 347 | 486 | 130 | 260 | 278 | 390 | 117 | 234 | 250 | 351 | 1½" | 5' - 0" |
| | 6" x 6" | 270 | 540 | 578 | 810 | 216 | 432 | 462 | 648 | 195 | 390 | 417 | 585 | 2" | 5' - 0" |
| | 6" x 8" | 494 | 988 | 1058 | 1482 | 395 | 790 | 846 | 1185 | 356 | 712 | 762 | 1068 | 3" | 7' - 0" |

## PERMANENT WOOD POST TABLE**

* - Linear Interpolate X*Y*Z 3 post values for signs greater than 15' and less than 20'.

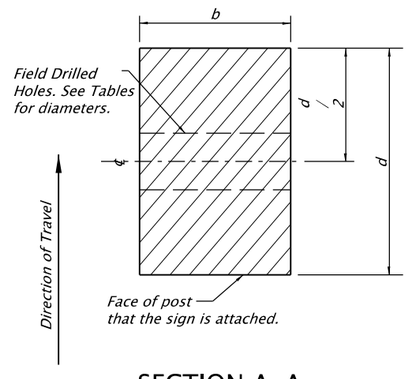
** - See note 8

| | | ( X * Y * Z ) in ft³ - Maximum | | | | | | | | | | | | Field Drilled Hole Diameters | Post Embedment Depth "D" |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 3 Second Gust Wind Speed (TM671) | | | | | | | | | | | | | |
| | | 85 MPH | | | | 95 MPH | | | | 105 and 110 MPH | | | | | |
| | | Number of Posts | | | | Number of Posts | | | | Number of Posts | | | | | |
| | | 1 | 2 | 3 * X=15' | 3 * X ≥20' | 1 | 2 | 3 * X=15' | 3 * X ≥20' | 1 | 2 | 3 * X=15' | 3 * X ≥20' | | |
| POST SIZE b x d | 4" x 4" | 122 | 244 | 261 | 366 | 98 | 196 | 210 | 294 | 88 | 176 | 188 | 264 | Not Req'd | 4' - 0" |
| | 4" x 6" | 257 | 514 | 550 | 771 | 205 | 410 | 439 | 615 | 185 | 370 | 396 | 555 | 1½" | 5' - 0" |
| | 6" x 6" | 426 | 852 | 912 | 1278 | 341 | 682 | 730 | 1023 | 308 | 616 | 660 | 924 | 2" | 5' - 0" |
| | 6" x 8" | 779 | 1558 | 1669 | 2337 | 624 | 1248 | 1337 | 1872 | 563 | 1126 | 1206 | 1689 | 3" | 7' - 0" |

## TEMPORARY WOOD POST TABLE**

* - Linear Interpolate X*Y*Z 3 post values for signs greater than 15' and less than 20'.

** - See note 9




## SECTION A-A
*No scale*

## General Notes:

1. Wood posts are available in the following commercial lengths: 12', 14', 16', 18', 20', 22', 24', 26'.
2. Material shall be Douglas Fir No. 1 and according to Section 02110.40.
3. For horizontal and vertical clearances of permanent signs refer to TM200 and of temporary signs refer to TM822.
4. Wood post design in accordance with the 5th Edition 2009 AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals.
5. Use the 3 second gust wind speeds shown on TM671 for the site specific sign location.
6. General design parameters are Kz = 0.87, SIF (duration factor) = 1.6, Cd (sign) = 1.20, and G = 1.14.
7. The sign width to sign height or sign height to sign width ratio shall not exceed 5.0.
8. Permanent signing uses an Ir = 0.71 for a recurrence interval of 10 years.
9. Temporary signing uses an Ir = 0.45 for a recurrence interval of 1.5 years.
10. Posts protected by barrier or guardrail do not require field drilled holes.
11. 4" x 4" posts should not be used in snow plow areas.

## Post Embedment Installation:

1. Excavate the hole at least 12" larger in diameter than the diagonal dimension of the post. Maintain at least 6" of space around the edges of the post to accomodate compaction equipment.
2. Align the post in the hole to a vertical position.
3. The space around the wood post shall be backfilled to finished ground surface.
4. Backfill with selected general backfill meeting the requirements of 00330.13.
5. Place in layers not greater than 6 inches.
6. Solidly ram and tamp the layers into the excavation area around the post.
7. Dampen during placement if too dry to compact properly.
8. Replace and finish the surface around the post to match the surrounding surface.

Accompanied by dwgs. TM200, TM671, TM822

*The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.*

All materials shall be in accordance with the current Oregon Standard Specifications.

**OREGON STANDARD DRAWINGS**

# WOOD POST SIGN SUPPORTS

2021

| DATE | REVISION DESCRIPTION |
|---|---|
| 01-2022 | ADDED 3'-6" MINIMUM SPACING FOR 4"x4" POSTS AND 8'-0" MINIMUM |
| | SIGN WIDTHS FOR 4"x6" AND LARGER POSTS |

CALC. BOOK NO. 5850 | SDR DATE 07-JAN-2022 | **TM670**

Effective Date: June 1, 2023 - November 30, 2023