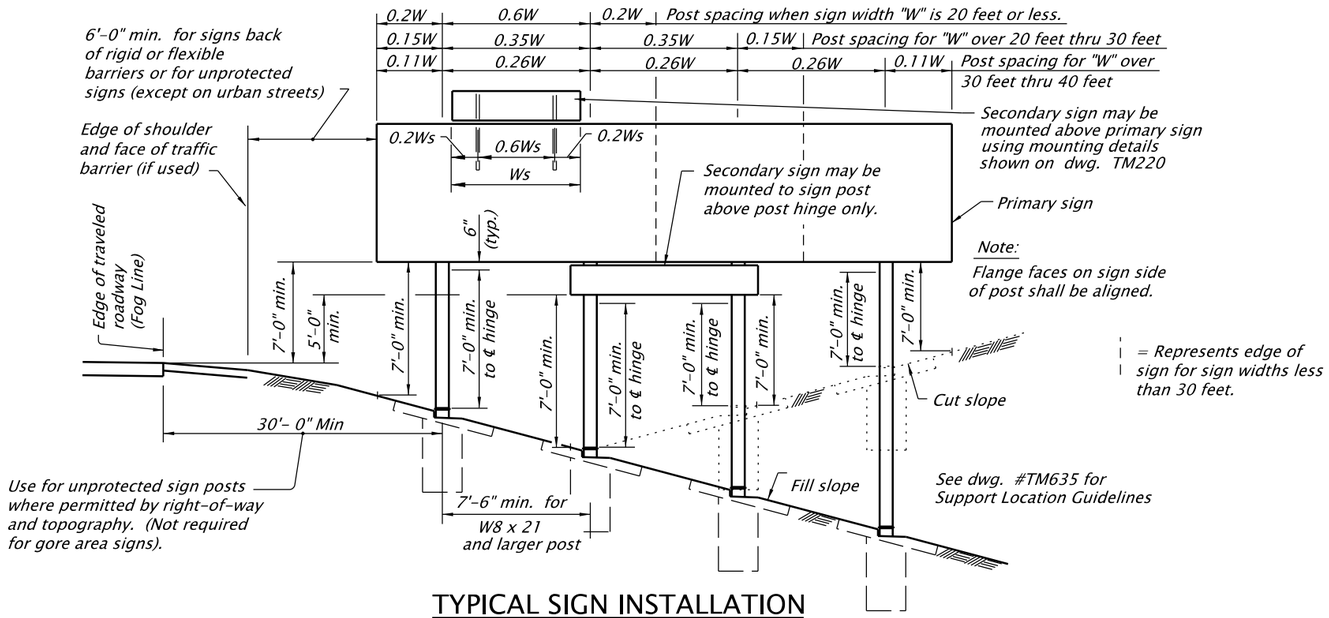
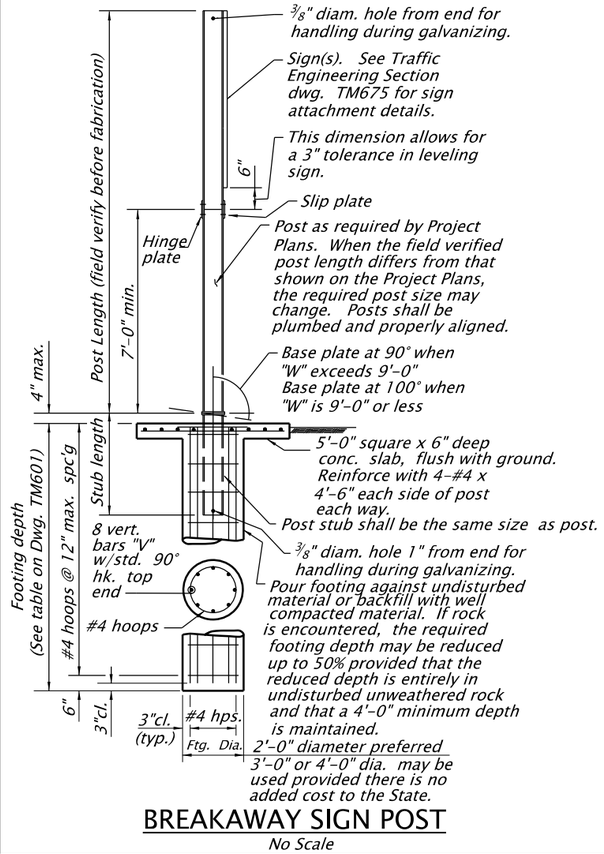


TYPICAL SIGN INSTALLATION

No Scale



BREAKAWAY SIGN POST

No Scale

GENERAL NOTES:

1. Sign supports are designed in accordance with the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals 1994. Use a wind velocity with a 25-year mean reccurrence interval.
2. All concrete shall be Commercial Grade Concrete (f'c = 3000 psi).
3. All reinforcing steel shall conform to AASHTO Specification M31 (ASTM A615), Grade 60 or A706.
4. The following splice lengths shall be used unless otherwise shown:

Bar Size		3	4	5	6	7	8	9	10	11
Splice Length	Uncoated	1'-0"	1'-4"	1'-8"	2'-0"	2'-8"	3'-6"	4'-4"	5'-7"	6'-9"

5. All structural steel shall conform to ASTM Specification A572, Grade 50 unless shown otherwise.
6. Shims shall be fabricated from brass shim stock conforming to ASTM B36.
7. All bolts shall be high strength bolts conforming to ASTM Specification A325 (AASHTO M164). Nuts for high strength bolts shall be well lubricated heavy hexagon nuts conforming to ASTM Specification A563, (AASHTO M291), Grade DH. Compressible direct tension indicator washers shall conform to ASTM Specification F959. Hardened steel washers shall conform to ASTM Specification F436 (AASHTO M293).
8. Steel sheet for keepers shall conform to ASTM Specification A653.
9. Hinge and base plate holes shall be sub-drilled and reamed to size. Hinge and base plate slots shall be saw cut or machine guided flame cut.
10. Direct tension indicator washers shall be mechanically galvanized to ASTM B695.
11. Keeper plate shall be galvanized in accordance with ASTM A653, Coating G165.
12. All other steel including fasteners shall be hot-dip galvanized after fabrication. Remove galvanizing runs and beads on all slip surfaces. Nuts for high strength bolts may be retapped after galvanizing.
13. The use of a post larger than required by design is not permitted.
14. Tightening of base plate bolts shall be done with a state inspector present.
15. See TM601 for additional details.

BASE PLATE BOLTING PROCEDURE:

1. Assemble post to stub as shown in Base Assembly Detail.
2. Shim as required to plumb post. ($\pm \frac{1}{16}$" / vert. 12") (2 shims maximum per bolt)
3. Tighten bolts in a systematic order to the "T1" torque prescribed in the Base Plate Data Table.
4. Loosen and retighten bolts to the "T2" torque prescribed in the Base Plate Data Table. Use the same order as the intitial tightening and DO NOT OVER TIGHTEN!
5. Burr threads at junction with nut using a center punch.

HINGE AND SLIP PLATE BOLTING PROCEDURE:

1. Shop assemble post sections as shown. (D.T.I. bumps toward bolt head)
2. Tighten each nut in a systematic order until the gap between the bolt head and direct tension indicator washer is in the 0.005" to 0.010" range.
3. Further tighten each nut in the same order until a nil gap between the bolt head and indicator washer is attained.

Accompanied by dwgs. TM220, TM601, TM635, TM675

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

MULTI-POST BREAKAWAY SIGN SUPPORTS NOTES

2021

DATE	REVISION DESCRIPTION

CALC. BOOK NO. _ _ _ 1493 _ _ _ | SDR DATE_ 09-JAN-2015 | **TM600**

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