

LAST REVISED: 08/13/2025

GENERAL NOTES:

1. ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION DATED 20____ AND AMENDMENTS.
2. THE SIGN STRUCTURES DESIGN AND ANALYSIS HAS BEEN DONE IN ACCORDANCE WITH AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS - FIRST EDITION - DATED 2015 (INCLUDING LATEST INTERIMS), USING BASIC A WIND SPEED OF 115 MPH, WITH A MEAN RECURRENCE INTERVAL OF 1700 YEARS AND FATIGUE CATEGORY I.
3. THE CONTRACTOR SHALL SURVEY ALL NEW AND EXISTING ROADWAY AND FOUNDATION GEOMETRY FOR SIGN STRUCTURE PLACEMENT INCLUDING, BUT NOT LIMITED TO, ANCHOR BOLT LOCATIONS, ORIENTATIONS, AND ELEVATIONS. FABRICATION METHODS SHALL INCLUDE PROVISIONS TO ADJUST FINAL DIMENSIONS TO MATCH NEW OR EXISTING SUPPORT LOCATIONS, DIMENSIONS, ORIENTATIONS, AND SITE CONDITIONS THAT ARE FIELD VERIFIED BY THE CONTRACTOR. SURVEY DATA SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO THE COMPLETION OF FABRICATION. AS AN OPTION FOR SIGN BRIDGES, THE CAP OF ONE FOUNDATION MAY BE PLACED WHILE THE SIGN BRIDGE IS SUPPORTED BY FALSEWORK.
4. ALL BUTT JOINT WELDS SHALL BE FULL PENETRATION GROOVE WELDS WITH BACK-UP PLATES OF 1/4" MIN. THICKNESS.
5. THE BACK-UP PLATES FOR ALL FULL PENETRATION WELDS SHALL BE WELDED CONTINUOUSLY TO THE JOINED PIECES. THIS CAN BE DONE BY EITHER A CONTINUOUS FILLET WELD ON THE BACK SIDE OF THE PIECE, OR BY A CONTINUOUS WELD IN THE ROOT OF THE FULL PENETRATION WELD, UNLESS OTHERWISE NOTED.
6. ALL RODS, BOLTS, AND RELATED HARDWARE SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM F2329.
7. ALL STEEL SURFACES SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH AASHTO M 111. MAINTENANCE PLATFORMS AND ASSOCIATED HANDRAILINGS SHALL NOT BE PAINTED.
8. SIGN PANELS AS SHOWN IN THE CONTRACT PLANS SHALL BE INSTALLED WITH THE SIGN STRUCTURE OR IMMEDIATELY AFTER THE SIGN STRUCTURE IS ERECTED.
9. FABRICATE BEAM TO PROVIDE SMOOTH PARABOLIC CAMBER CURVE. SEE CAMBER DIAGRAM. DO NOT SHIM AT BOLTED SPLICES.
9. FABRICATE BEAM TO PROVIDE STRAIGHT CAMBER. SEE CAMBER DIAGRAM. DO NOT SHIM AT BOLTED SPLICES.
10. FABRICATE POST STRAIGHT.
11. MATERIALS SPECIFICATIONS:

ALL STRUCTURAL STEEL EXCEPT AS OTHERWISE NOTED	ASTM A572 GR. 50 OR ASTM A588
ANCHOR RODS	ASTM F1554 GR. 105
HANDHOLE COVER SCREWS	ASTM F593 GR. 1
SPLICE BOLTS	ASTM F3125 GR. A325
SIGN BRACKET RODS	ASTM A307
MOUNTING BEAM BOLTS	ASTM F3125 GR. A325
COVER PLATES	ASTM A36

12. POSTS, BASE PLATES, BEAMS AND SPLICE PLATES ARE MAIN LOAD CARRYING TENSILE MEMBERS OR TENSION COMPONENTS OF FLEXURAL MEMBERS AND SHALL MEET THE LONGITUDINAL CHARPY V-NOTCH TEST AS DESCRIBED IN SECTION 6-03.2 FOR AASHTO M 270 MATERIAL. NON-DESTRUCTIVE TEST ACCEPTANCE CRITERIA TO CONFORM TO TENSILE MEMBERS WITH CYCLIC LOAD.
13. SEE OTHER PLANS FOR CONDUIT PENETRATIONS AND HAND HOLES. REFER TO ELECTRICAL PLANS FOR INTERNAL ROUTING OF CONDUCTORS. CONDUIT CONDUCTORS SHALL NOT BE ATTACHED TO THE OUTSIDE OF THE SIGN STRUCTURE. ISOLATION SWITCH SHALL BE LOCATED NEAR THE SHOULDER OF ROADWAY ON THE OPPOSITE SIDE OF THE BEAM AS THE SIGNS. SEE NEMA 3R TERMINAL CABINET DETAIL ON BRIDGE SHEET ____/10.1-A5-2.
14. THE MAXIMUM SIGN AREA ON THE STRUCTURE SHALL BE AS NOTED.
15. FOR SIGN AND LIGHT ATTACHMENT BRACKET DETAILS FOR MONOTUBES SEE STANDARD PLAN G-90.20. PAINT ENTIRE ATTACHMENT BRACKET TO MATCH EXISTING STRUCTURE EXCEPT FOR MOUNTING BEAM. SIGN, BEAM LENGTHS, AND SIZE SHALL BE DETERMINED FROM THE STANDARD PLANS. SPACING SHALL BE DETERMINED FROM THE CONTRACT PLANS. VARIABLE MESSAGE SIGNS SHALL HAVE MOUNTING BEAMS @ 3'-0" MAXIMUM. THE MAINTENANCE PLATFORM AND ASSOCIATED HAND RAILINGS SHALL NOT BE PAINTED. FOR MAINTENANCE PLATFORM ATTACHMENT BRACKET DETAILS FOR MONOTUBES SEE STANDARD PLAN G-95.20. MAINTENANCE WALKWAY DETAILS SHALL BE DETERMINED FROM THE CONTRACT PLANS OR THE STANDARD PLANS.
15. FOR SIGN AND LIGHT ATTACHMENT BRACKET DETAILS FOR MONOTUBES SEE STANDARD PLAN G-90.20. PAINT ENTIRE ATTACHMENT BRACKET TO MATCH EXISTING STRUCTURE EXCEPT FOR MOUNTING BEAM. SIGN, BEAM LENGTHS, AND SIZE SHALL BE DETERMINED FROM THE STANDARD PLANS. SPACING SHALL BE DETERMINED FROM THE CONTRACT PLANS.
16. THE TOTAL BEAM LENGTH "S" SHALL NOT EXCEED 35'-0".
17. ALL WELDING SHALL BE DONE TO MINIMIZE DISTORTION. PERMISSIBLE MONOTUBE DIMENSION VARIATIONS FOR OUTSIDE DIMENSIONS, WALL THICKNESS, LENGTH, STRAIGHTNESS, (PARABOLIC-CAMBER SIGN BRIDGE BEAMS EXCLUDED) SQUARENESS OF SIDES AND TWIST SHALL BE IN ACCORDANCE WITH SECTION 11 OF ASTM A500.

NOTE TO DESIGNER

suggested sheet order:

- layouts
- cantilever
- balanced "t"
- sign bridge
- general notes & other misc. info.
- structural details
- cantilever
- balanced "t"
- sign bridge
- monotube sign structures common details
- foundation
- cantilever
- type 1
- type 2
- balanced "t"
- type 1
- type 2 or 3
- sign bridge
- type 1
- type 2 or 3
- barrier shape modification

2

1

3

4

3

NOTE TO DESIGNER

1 cantilever only

2 balance "t" & sign bridges only

3 balance "t" & cantilevers only

4 sign bridge only

(modify these notes to fit specific project structure type)

LEGEND:

A IDENTIFIES SECTION OR VIEW
BG15 SHOWN OR TAKEN ON SHEET BG15

1 IDENTIFIES DETAIL
- SHOWN OR TAKEN ON SAME SHEET

99 KEY NOTE REFERENCE ON SAME SHEET

10.1-A5-1

FILE NAME 10.1-A5-1_General Notes.dgn				REGION NO. 10	STATE WASH	 PRELIMINARY PLAN NOT FOR CONSTRUCTION	SEE CERTIFICATION SHEET DATE STAMP BOX	SEE CERTIFICATION SHEET DATE STAMP BOX	STANDARD DESIGN DRAWINGS MONOTUBE SIGN STRUCTURES	PLAN REF NO		
BRIDGE DES. ENG.												
BRIDGE PROJ. ENG.												
SUPERVISOR												
DESIGNED BY												
CHECKED BY												
ENTERED BY												
PRELIM. PLAN BY												
ARCH. / SPEC.												
REVISION				DATE	BY				GENERAL NOTES	SHEET OF SHEETS		
PLOT DATE: 02-Oct-2025 PLOT TIME: 12:48:06 PM				PLOTTED BY: deboejak		FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Standards/Standard Drawings and Details/Sign Structures and Components/_DGN/10.1-A5-1_General Notes.dgn						