### Material Specifications

<table>
<thead>
<tr>
<th>Pipe (Chords, Diagonals, Struts, and Posts)</th>
<th>ASTM A 36 or ASTM A 63 Grade B, Type E or S, or A 500 Grade B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plates</td>
<td>ASTM A 36</td>
</tr>
<tr>
<td>Shapes</td>
<td>ASTM A 36, ASTM A 992</td>
</tr>
<tr>
<td>Bolts, Nuts, &amp; Washers</td>
<td>STD. SPEC. 9-06.5(3)</td>
</tr>
<tr>
<td>Pipe, Plate &amp; Shape Galvanizing</td>
<td>AASHTO M 111</td>
</tr>
<tr>
<td>Fastener Galvanizing</td>
<td>AASHTO M 232</td>
</tr>
</tbody>
</table>

### Chord Selection

<table>
<thead>
<tr>
<th>Sign Area (in)</th>
<th>Chord Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 or less</td>
<td>2&quot; 0.154&quot;</td>
</tr>
<tr>
<td>50+ to 100</td>
<td>2&quot; 0.216&quot;</td>
</tr>
<tr>
<td>100+ to 150</td>
<td>2 1/2&quot; 0.203&quot;</td>
</tr>
<tr>
<td>150+ to 200</td>
<td>2 1/4&quot; 0.196&quot;</td>
</tr>
</tbody>
</table>

### Notes

1. Vertical and horizontal clearance requirements shall be as shown on the Contract Plans.
2. No post splices permitted in lower third of height, nor closer than 3'-0" to bottom chord, except as otherwise noted. No chord shop splices permitted in first two-thirds of the span, except as otherwise noted. A maximum of two splices are permitted in the post. For post or chord shop splice details, see Standard Plan G-70.10.
3. The back-up plates or rings 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. No weld shall be drilled, and the diameter shall be 1/16" (in) larger than the nominal bolt diameter, except as noted.
4. All bolt holes shall be drilled, and the diameter shall be 1/16" (in) larger than the nominal bolt diameter, except as noted.
5. The design and analysis of the structures has been done in accordance with AASHTO Standard Specification for Structural Supports for Highway Signs, Luminaires and Traffic Signals Dated 2001, using 50 MPH wind velocity and fatigue category - 1.
6. Adjust post alignment in plane normal to roadway centerline by means of leveling nuts located below base plate to maintain upward slope in cantilever arm(s). Tighten anchor nuts above base plate in accordance with Standard Specification 6-03.3(33).
7. Variable Message Signs (VMS) exceeding 700 lbs. and/or 200 sq. ft. shall not be installed on cantilever structure.
8. For electrical requirements, see Standard Plan J-75.46.
VERTICAL STRUTS AT SPAN END ONLY

VERTICAL "FAR" TRUSS DIAGONAL (TYP.)

VERTICAL "NEAR" TRUSS DIAGONAL (TYP.)

PANEL LENGTH (4' - 3" MAX.) TO BE "CONSTANT THROUGHOUT SPAN"

POST

CHORD (TYP.)

CHORD (TYP.)

VERTICAL CLEARANCE = 17'- 8" MIN.
FROM RIMMER ASPECT OR ROADWAY
1'- 4"

BOTTOM OF LUMINAIRE BRACKET, WHEN SIGN LIGHTING IS SHOWN IN THE CONTRACT

HAND HOLE ON SIDE AWAY FROM TRAFFIC

BASE PLATE

ELEVATION

SIGN CENTERLINE MAY VARY FROM TRUSS CENTERLINE TO PROVIDE MINIMUM VERTICAL CLEARANCE.

ELEVATION

DOUBLE CANTILEVER SIGN STRUCTURE

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURE (TRUSS TYPE)

STANDARD PLAN G-60.10-03

SHEET 2 OF 4 SHEETS

APPROVED FOR PUBLICATION

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
HEMISPHERICAL POST FINIAL, 1/8" (IN) MIN. THICKNESS. INSTALL AFTER GALVANIZING.

3/8" (IN) ALLEN HOLLOW SET SCREW WITH DOG POINT (TYP.) (CORROSION RESISTANT METAL OR COATING) AT 90° INTERVALS.

CUT HOLE IN POST FOR WIDE FLANGE, 1/8" (IN) MAX. CLEARANCE ALL AROUND.

HEMISPHERICAL POST FINIAL, 1/8" (IN) MIN. THICKNESS. INSTALL AFTER GALVANIZING.

3/8" (IN) ALLEN HOLLOW SET SCREW WITH DOG POINT (TYP.) (CORROSION RESISTANT METAL OR COATING) AT 90° INTERVALS.

CUT HOLE IN POST FOR WIDE FLANGE, 1/8" (IN) MAX. CLEARANCE ALL AROUND.

HEMISPHERICAL POST FINIAL, 1/8" (IN) MIN. THICKNESS. INSTALL AFTER GALVANIZING.

3/8" (IN) ALLEN HOLLOW SET SCREW WITH DOG POINT (TYP.) (CORROSION RESISTANT METAL OR COATING) AT 90° INTERVALS.
REMOVABLE RAIN TIGHT HAND HOLE COVER WITH GASKET = FASTEN WITH TWO STAINLESS STEEL (ASTM F 593) SCREWS

PIPE WALL
BACK-UP RING

PIECE O.D.

100% UT
SEE WELD DETAIL "G"

1/4" (IN) BACK-UP BAR
SEAL WELD

1 2 1/2

100% UT
SEE WELD DETAIL "G"

1/4" (IN) BACK-UP BAR
SEAL WELD

SECTION B

POST BASE DETAILS

24" (IN) O.D. PIPE (t = 0.969) SPLICE WITH 24" (IN) O.D. UPPER POST (SEE POST SELECTION TABLE)
18" (IN) O.D. PIPE (t = 0.750) SPLICE WITH 18" (IN) O.D. UPPER POST (SEE POST SELECTION TABLE)

CANTILEVER SIGN STRUCTURE (TRUSS TYPE)
STANDARD PLAN G-60.10-03

SCREEN - SEE STANDARD PLAN J-75.40. SHEET 1 FOR DETAILS

TOP OF BASE PLATE
TOP OF SCREEN
TOP OF FOUNDATION

POST BASE DETAILS