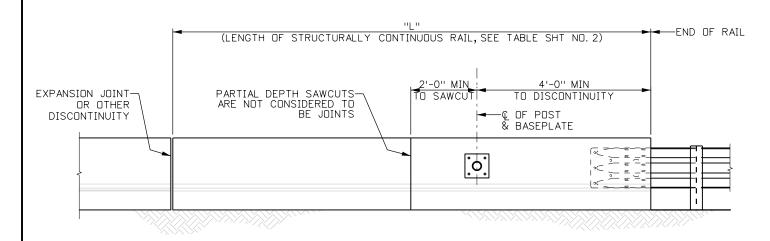


SIGN PANEL DIMENSIONS & ORIENTATION



J-POST PLACEMENT REQUIREMENTS

Creation Date: 3/1/2024 Created By: ASP Last Modification Date: Last Modified By: CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English Sheet Revisions Date: Comments Date: Comments

Colorado Department of Transportation



2829 W. Howard Pl. Denver, CD 80204 Phone: 303-757-9654 FAX: 303-757-9219

Traffic Safety & Engineering

EB

GENERAL NOTES:

- 1. J-POST MOUNT IS SPECIFIED FOR INSTALLATION ON BRIDGE RAIL TYPE 7, BRIDGE RAIL TYPE 9, GUARDRAIL TYPE 7 STYLES CA AND CC, AND GUARDRAIL TYPE 9 STYLES CA AND CC.
- 2. J-POST MATERIALS SHALL CONFORM TO THE FOLLOWING:

a. ROUND HOLLOW STEEL SECTIONS (HSS)
 b. BASEPLATES
 c. BOLTS
 d. NUTS

ASTM A500 GRADE C
ASTM A709 GRADE 50
ASTM F3125 GRADE A 325
ASTM A563

e. WASHERS ASTM F436

- 3. BOLTS, U-CLAMPS, NUTS, AND METAL WASHERS SHALL BE GALVANIZED.
- 4. VENT HOLES SHALL BE PROVIDED PRIOR TO GALVANIZATION. VENT HOLES ON HORIZONTAL SEGMENT OF POST SHALL BE ORIENTED DOWN SO AS TO DRAIN WATER FROM THE INTERIOR OF THE MEMBER WHEN INSTALLED.
- 5. ALL SIGNS SHALL BE AS REQUIRED PER CDOT M&S STANDARDS PLANS AND SPECIFICATIONS AND/OR AS SHOWN ON THE PLANS.
- 6. REFERENCE STANDARD S-614-3 FOR SIGN DETAILS, INCLUDING SIGN PANEL AND ZEE BACKING. POST SHALL BE ATTACHED TO ZEE MEMBERS WITH U-BOLTS. REFERENCE STANDARD S-614-8. ADJUST U-BOLT DIMENSIONS BASED ON SELECTED POST DIAMETER.
- 7. GUARDRAIL PARAMETERS MUST BE VERIFIED PRIOR TO INSTALLATION.
- 8. BATTER ANGLE OF GUARDRAIL OR BRIDGE RAIL SHALL BE FIELD VERIFIED PRIOR TO FABRICATION.
- 9. J-POST MOUNT IS INTENDED FOR BACK (NON-TRAFFIC FACE) OF GUARDRAIL OR BRIDGE RAIL.DD NOT USE ON RETAINING WALL FACING, WALL COPING, OR TRAFFIC-FACING SIDE OF BARRIER.
- 10. J-POST MOUNT IS ONLY APPLICABLE FOR USE ON PERMANENT, CAST-IN-PLACE GUARDRAIL, NOT TEMPORARY OR PRECAST BARRIERS THAT ARE PINNED TOGETHER.
- 11. J-POST SHALL NOT BE MOUNTED ON A SEGMENT OF BARRIER WHERE THE GUARDRAIL WAS PREVIOUSLY DAMAGED AND REPAIRED.
- 12. REFERENCE STANDARD S-614-14 FOR FLASHING BEACON ELECTRICAL REQUIREMENTS AND DETAILS.

DESIGN DATA:

SPECIFICATIONS:

DESIGN: AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS,

LUMINAIRES, AND TRAFFIC SIGNALS, 1ST EDITION (2015) WITH 2020 INTERIMS.

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION (2020).

WIND LOADING: PER CDOT BRIDGE DESIGN MANUAL SECTION 32.3:

120 MPH OUTSIDE OF SPECIAL WIND REGION 165 MPH INSIDE SPECIAL WIND REGION

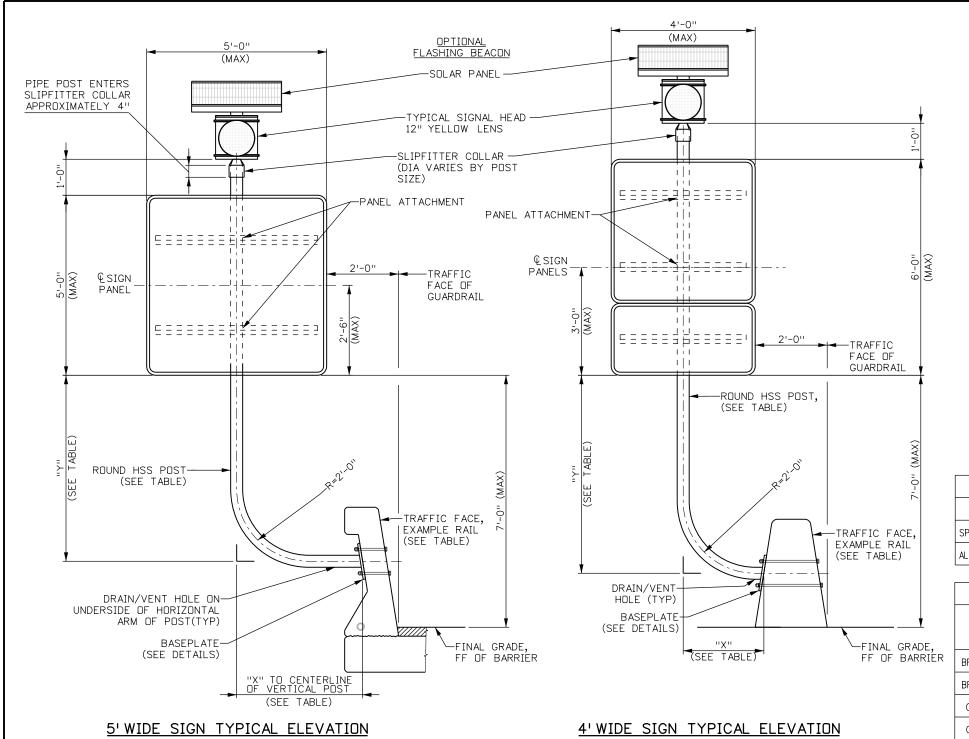
J-POST SIGN SUPPORT

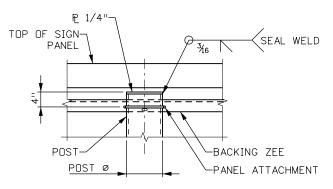
S-614-23

Standard Sheet No. 1 of 3

Issued By: Traffic Safety & Engineering Branch March 1, 2024

Project Sheet Number:





POST CAP DETAIL

(REQUIRED FOR ALL INSTALLATIONS EXCEPT WHERE FLASHING BEACON IS INSTALLED)

POST SELECTION TABLE							
WIND REGION	DESIGN WIND SPEED	POST SELECTION					
SPECIAL WIND REGION	165 MPH	HSS6.000x0.312					
ALL OTHER LOCATIONS	120 MPH	HSS4.500x0.337					

GUARDRAIL OFFSET AND APPLICABILITY TABLE							
		HORIZONTAL PO:	VERTICAL POST				
BARRIER TYPE	REQUIRED CONTINUOUS LENGTH "L"	4'-0" WIDE SIGN	5'-0" WIDE SIGN	DIMENSION "Y"			
BRIDGE RAIL TYPE 7	N/A (MOUNTED ON MOMENT SLAB)	2'-6"	3'-0"	5'-8"			
BRIDGE RAIL TYPE 9	N/A (MOUNTED ON MOMENT SLAB)	3'-0"	3'-6"	5'-2"			
GUARDRAIL TYPE 7	L ≥ 15'-0"	2'-7"	3'-1"	5'-6"			
GUARDRAIL TYPE 9	L ≥ 10'-0"	2'-3"	2'-9"	5'-6"			

NOTE:

- 1. LENGTH OF STRUCTURALLY CONTINUOUS GUARDRAIL SHALL NOT BE LESS THAN THE DIMENSION "L" AS SHOWN IN THE TABLE. IF A MOMENT SLAB IS REQUIRED, THE PRESENCE OF THE MOMENT SLAB SHALL BE FIELD VERIFIED BY A COOT OR OTHER DESIGNATED STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
- 2. REQUIRED LENGTH "L" SHALL BE INCREASED BY 3'-O" FOR DOUBLE POST INSTALLATION.

Computer File Information			Sheet Revisions	Colorado Department of Transportation		STANDARD PLAN NO.
Creation Date: 3/1/2024 Created By: ASP		Date:	Comments	2829 W. Howard Pl. Denver, CD 80204 Phone: 303-757-9654 FAX: 303-757-9219	J-POST SIGN SUPPORT	S-614-23
Last Modification Date:						Standard Sheet No. 2 of 3
Last Modified By: CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English)()			Traffic Safety & Engineering EB	Issued By: Traffic Safety & Engineering Branch March 1, 2024	Project Sheet Number:

