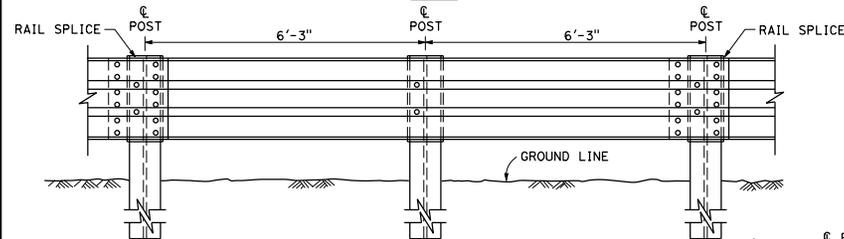
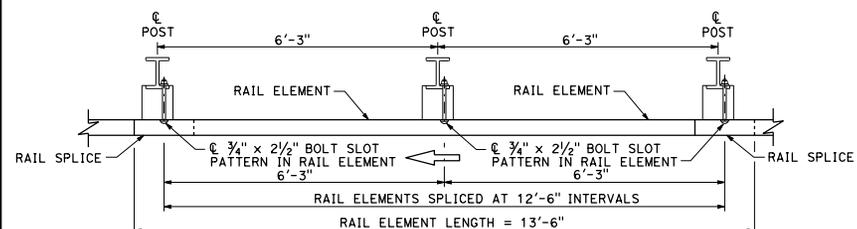


PLAN

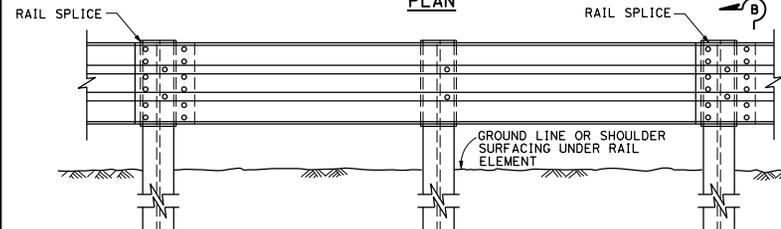


ELEVATION

**DOUBLE THRIE BEAM BARRIER**  
(Steel post with notched wood or notched plastic blocks)  
See Note 1

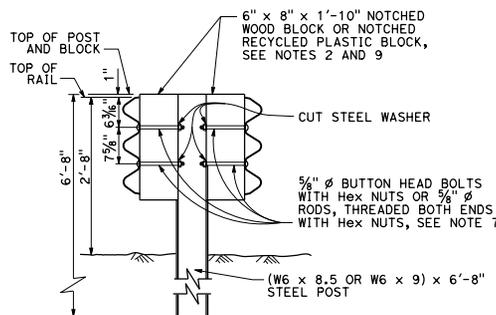


PLAN



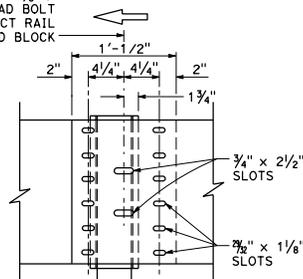
ELEVATION

**SINGLE THRIE BEAM BARRIER**  
(Steel post with notched wood or notched plastic blocks)  
See Note 1



**SECTION A-A**  
**TYPICAL STEEL LINE**  
**POST INSTALLATION**

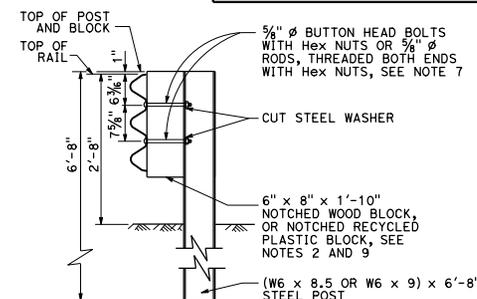
CL RAIL SPLICE AND SLOTS FOR 5/8" Ø BUTTON HEAD BOLT TO CONNECT RAIL TO POST AND BLOCK



ELEVATION

**RAIL ELEMENT SPLICE DETAIL**

- Connect the overlapped ends of the thrie beam rail elements with 5/8" Ø x 1 1/4" button head oval shoulder bolts inserted into the 7/8" x 1 1/8" slots and bolted together with 5/8" Ø recessed hex nuts. Recess of hex nut points toward rail element. A total of 12 bolts and nuts are to be used at each rail splice connection.
- The ends of the rail elements are to be overlapped in the direction of traffic (see details).
- Where end cap is to be attached to the end of a rail element, a total of 4 of the above described splice bolts and nuts are to be used. Where a return cap is to be attached to the ends of rail elements, a total of 8 of the above described splice bolts and nuts are to be used.



**SECTION B-B**  
**TYPICAL STEEL LINE**  
**POST INSTALLATION**

**NOTES:**

- For details of the cross section of the thrie beam rail element and details for wood post with wood block installations, see Standard Plan A78A.
- For details of standard hardware, posts and blocks used to construct thrie beam barrier, see Standard Plans A78C1 and A78C2.
- Thrie beam barrier post spacing to be 6'-3" center to center, except as otherwise noted.
- Top of barrier rail to be 2'-8" above ground line or shoulder surfacing under the rail element.
- For barrier end treatments and barrier connections, see Standard Plans A78E1, A78E2, A78E3, A78F1, A78F2, A78G and A78H.
- For connection to Concrete Barrier, see Standard Plan A78I.
- Attach rail element to block and steel post with 2 bolts or rods on approaching traffic side of block and post web. No washer on rail face for rod or bolted connections to line post.
- For details of thrie beam barrier on bridges, see Standard Plan A78D2. For details of thrie beam barrier at fixed objects, see Standard Plan A78D1.
- Notched face of block faces steel post.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**THRIE BEAM BARRIER**  
**STANDARD BARRIER RAILING**  
**SECTION (STEEL POST**  
**WITH NOTCHED WOOD BLOCK**  
**OR NOTCHED RECYCLED**  
**PLASTIC BLOCK)**

NO SCALE

**A78B**

Dist*	COUNTY	ROUTE	POST MILES	SHEET	TOTAL
			TOTAL PROJECT	No.	SHEETS

**Randell D. Hiatt**  
REGISTERED CIVIL ENGINEER

October 30, 2015  
PLANS APPROVAL DATE

**Randell D. Hiatt**  
No. C50200  
Exp. 6-30-17  
CIVIL  
STATE OF CALIFORNIA

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