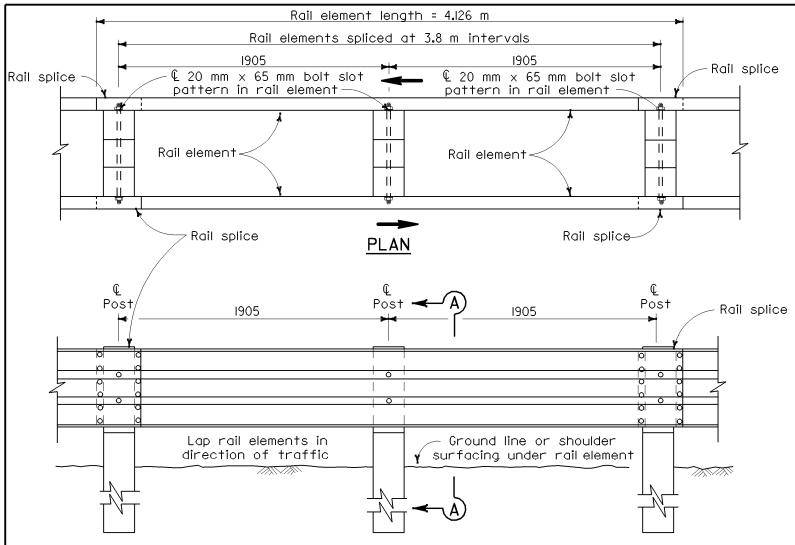
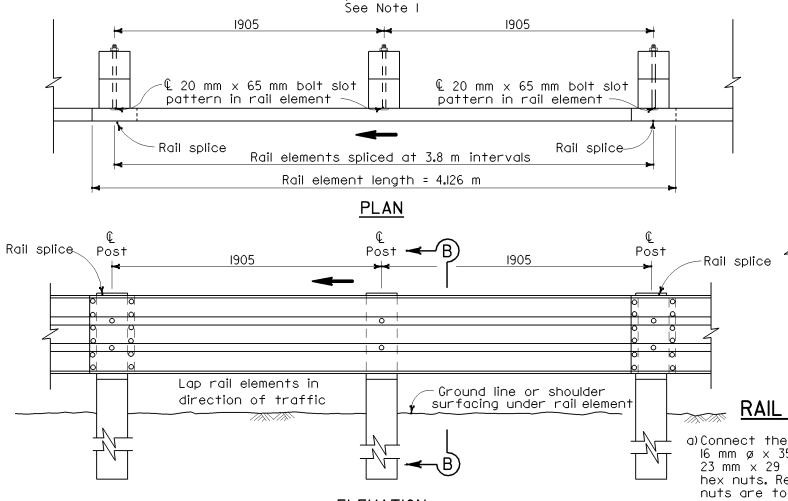


ELEVATION

DOUBLE THRIE BEAM BARRIER

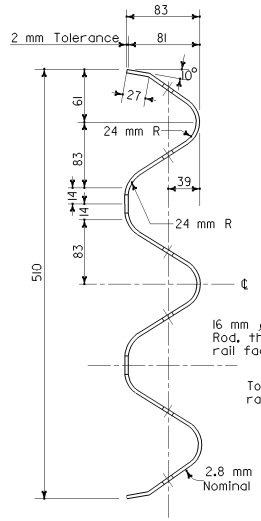
(Wood post and blocks)
See Note 1



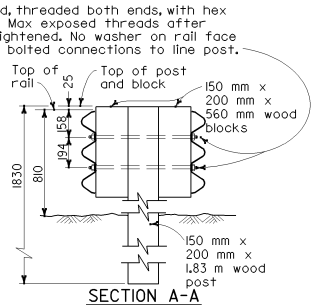
ELEVATION

SINGLE THRIE BEAM BARRIER

(Wood post and blocks)
See Note 1



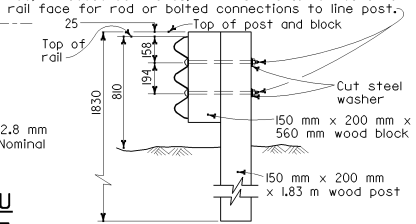
SECTION THRU RAIL ELEMENT



SECTION A-A

TYPICAL WOOD LINE POST INSTALLATION

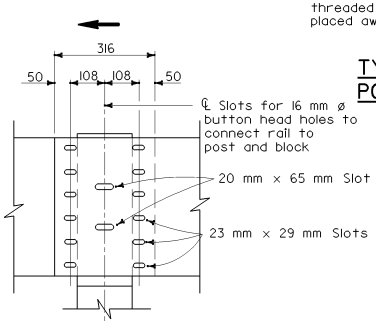
See Note 8



Where bolts are used, install so that the threaded end of the bolts and nuts are placed away from traffic side of rail.

SECTION B-B

TYPICAL WOOD LINE POST INSTALLATION



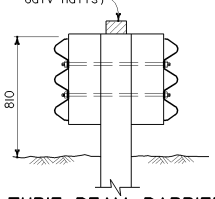
ELEVATION

RAIL ELEMENT SPLICE DETAIL

a) Connect the overlapped ends of the thrie beam rail elements with 16 mm ø x 35 mm button head oval shoulder bolts inserted into the 23 mm x 29 mm slots and bolted together with 16 mm ø x 35 mm 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.

b) The ends of the rail elements are to be overlapped in the direction of traffic (see details).

c) 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.



THRIE BEAM BARRIER DELINEATION

See Note 10

NOTES

1. For details of steel post thrie beam barrier, see Standard Plan 78B.
2. For details of standard hardware, posts and blocks used to construct thrie beam barrier, see Standard Plans A78C1 and A78C2.
3. Thrie beam barrier post spacing to be 1905 mm center to center, except as otherwise noted.
4. Top of barrier rail to be 810 mm above ground line or shoulder surfacing under the rail element.
5. For barrier end treatments and barrier connections, see Standard Plans A78E1, A78E2, A78E3, A78F, A78G and A78H.
6. For connection to Concrete Barrier (Type 60), see Standard Plans A78I.
7. For details of thrie beam barrier on bridge see Standard Plan A78D2. For details of thrie beam barrier at fixed object, see Standard Plan A78D1.
8. Where offset roadway grades are encountered and height of rail element for each roadway cannot be obtained as shown in Section A-A, use saw tooth installation as shown on Standard Plan A78B.
9. Direction of traffic indicated by ⟶.
10. Median barrier delineation to be used when required by the Special Provisions. Spacing of barrier markers to match spacing of raised pavement markers on adjacent median edgeline pavement delineation.

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER

July 1, 2004
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Ellis K. Hirst No. C17926 Exp. 6-30-05 CIVIL STATE OF CALIFORNIA

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STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

THRIE BEAM BARRIER STANDARD BARRIER RAILING SECTION (WOOD POST WITH WOOD BLOCK)

NO SCALE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

A78A

2004 Std PLAN A78A

04-30-04