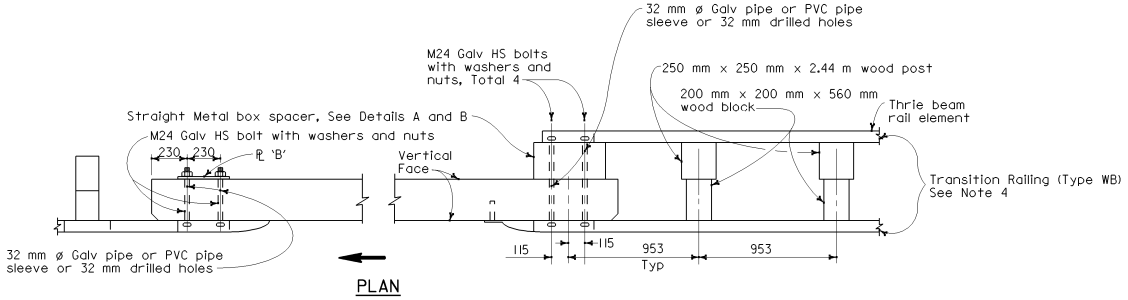
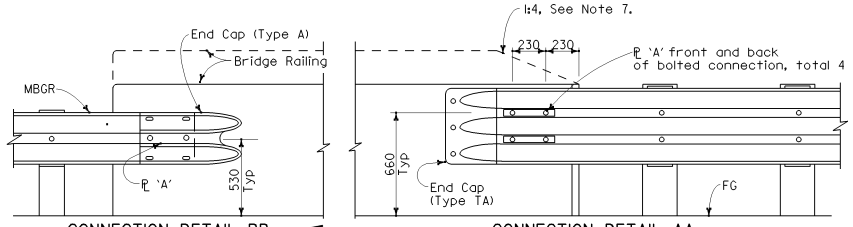
NOTES

1. See Standard Plan A77J2 for additional connection details to bridges without sidewalks.
2. Additional details of posts, blocks and hardware are shown on Standard Plan A77B1, A77C1 and A77C2.
3. Direction of adjacent traffic indicated by ⟶ .
4. For additional details of Transition Railing (Type WB), see Standard Plan A77J4. Transition Railing (Type WB) transitions the 12 gage w-beam standard railing section of guard railing to a heavier gage nested thrie beam railing section which is connected to the concrete bridge railing.
5. For typical use of Connection Detail AA, see Layout Types 12A and 12B on Standard Plan A77F1, Layout Types 12C and 12D on Standard Plan A77F2, and Layout Type 12E on Standard Plan A77F3.
6. For typical use of Connection Detail BB, see Layout Type 12D (structure departure railing connection) on Standard Plan A77F2 and Layout Type 12DD on Standard Plan A77F5.
7. Where the height of the bridge railing exceeds the height of the thrie beam railing by more than 25 mm at Connection Detail AA, taper the top of the end of the bridge railing at 1:4 to match the top elevation of the thrie beam rail.



PLAN



CONNECTION DETAIL BB
See Notes 6

ELEVATION

CONNECTION DETAIL AA
See Notes 5

GUARD RAILING CONNECTION TO BRIDGE RAILING WITHOUT SIDEWALK

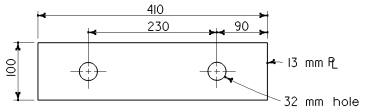


PLATE 'B'
(For backside of connection BB)

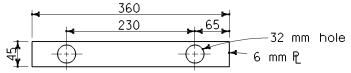
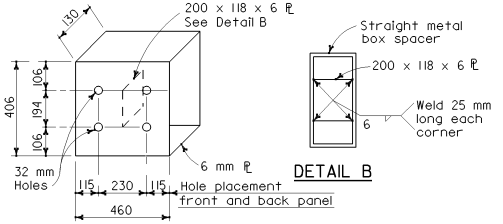


PLATE 'A'



STRAIGHT METAL BOX SPACER

Caltrans Metric

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

Ellis K. Hirst
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

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To get to the Caltrans web site, go to: http://www.dot.ca.gov

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

METAL BEAM GUARD RAILING CONNECTIONS TO BRIDGE RAILINGS WITHOUT SIDEWALKS DETAILS No. 1

NO SCALE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

A77J1

2004 Std PLAN A77J1

05-24-04