



- 5. For traffic approach railing details, see Type I M flare on Standard Plan A77D and the "Approach Railing Transition Details" on
- 6. When metal box spacer is installed, place 32 mm ø x 125 mm and 32 mm ø x 100 mm pipe spacers on M24 bolts passing through Interior of tapered box spacer and 32 mm ø x 130 mm pipe spacers on M24 bolts passing through interior of straight box
- 7. Terminal sections not to be installed on trailing end of approach guard railing constructed adjacent to one-way roadways. When terminal section is not installed, use backup plate between rall element and metal box spacer. See Standard Plan A778 for backup plate details.
- 8. in addition to the use of "Connection Detail B" for traffic departure ends of structure, "Connection Detail B" shall be used on the traffic approach ends of structures on two-way roadways which are 18 m or less in width. Where "Connection Detail B" is used at the traffic approach ends of structures, the guard railing shall be transitioned to the bridge railing as shown in the "Approach Railing Transition Details" on this plan.
- 9. Use timber shims without posts where clearance between rall element and wall or abutment is less than 380 mm.
- 10.Do Not attach railing to bridge columns. Use separate posts as shown on Standard Plan A77E.

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

## **GUARD RAILING CONNECTIONS** TO BRIDGE RAILINGS. RETAINING WALLS AND ABUTMENTS

NO SCALE

ALL DIMENSIONS ARE IN MILLIMÉTERS UNLESS OTHERWISE SHOWN

**A77J**