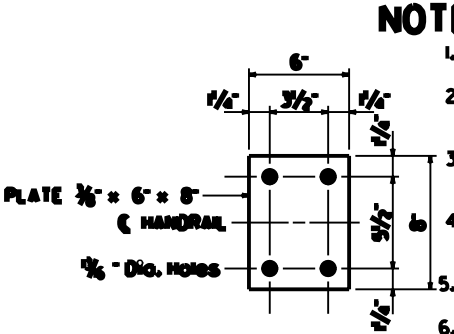
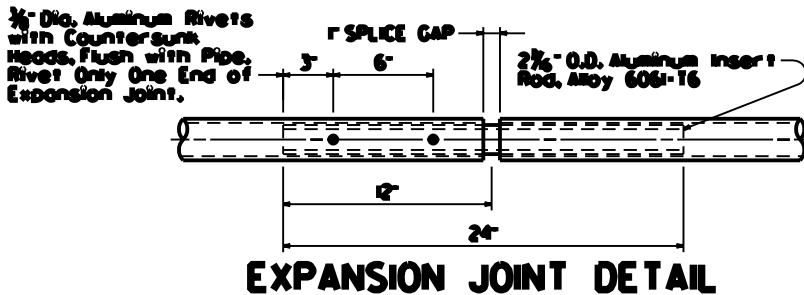
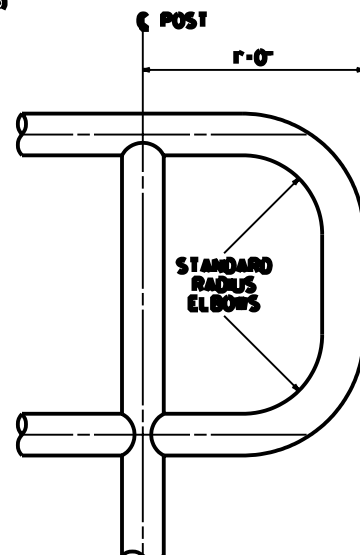


**SECTION A-A**  
**ALUMINUM HANDRAIL AND POST**



**BASE PLATE**



**END POST DETAIL**

**NOTES:**

1. Joints in railing (splice gap) shall be located as shown in post spacing plan.
2. Aluminum pipe to be ASTM B-429, Alloy 6061-T6 and base plate to be ASTM B-209, Alloy 6061-T6.
3. Stainless steel bolts, cap screws, and nuts to be ASTM A-276 Type 304. Stainless steel washers to be ASTM A-276 type 302.
4. Posts to be set perpendicular to top of curb and rails shall be placed parallel to the grade of the bridge.
5. Certified mill reports are required for rail and posts. Shop inspections are not required.
6. After anchor bolt nuts have been tightened, threads shall be nicked to lock nuts.
7. Curved rail usage: Where rails are to be used on bridges on horizontal and/or vertical curvature the Contractor may at his option have the required curvature in the rail formed in the shop or in the field, in either event the rail shall conform without buckling or kinking to the required curvature in a uniform manner acceptable to the engineer.
8. Anchor plates shall be steel conforming to ASTM specification A36.
9. Anchor rods shall conform to ASTM specification A276 type 302 or 304, stainless steel and threads shall be rolled, not cut.
10. Upper anchor rod nuts shall be heavy hex nuts, per ASTM A276 type 302 or 304 stainless steel.
11. Lower anchor rod nuts shall be heavy steel hex nuts, per ASTM A563.
12. The centerline of any splice and/or expansion joint is to be located at least 2'-0\"/>
- 13. Welding shall be in accordance with the current AWS structural welding code - aluminum.

**NORFOLK SOUTHERN CORP**  
**HANDRAIL DETAILS**

OFFICE OF CHIEF ENGINEER OF BRIDGES & STRUCTURES  
FEBRUARY, 1998  
**SHEET 7**