



NOTES:

1. All work and materials shall conform to the provisions of Section 507 - Railings of the Standard Specifications.
2. Tubing shall meet the longitudinal CVN minimum requirements of 15 ft-lb at 0° F or proportional values of sub - size specimens. Testing shall be done  in accordance with ASTM A673. The H frequency shall be used and the material shall be as - rolled.
3. All exposed cut or sheared edges shall be broken and free of burrs. The inside weld flash of tubing shall be removed at splices and expansion joints.
4. Rail posts shall be set normal to grade unless otherwise shown.
5. Lengths of rail bar shall be attached to a minimum of 2 rail posts and to at least 4 posts whenever possible.
6. Rail bar expansion joints shall be provided in any rail bay spanning a superstructure expansion joint. Expansion joint width shall be "X" at 45° F and will be adjusted in the field as directed by the Resident. Refer to detail and table on page 507(12) for dimension "X".
7. All parts shall be galvanized after fabrication in accordance with except that hardware shall meet the requirements of either ASTM F2329 or ASTM  B695, Class 50, Type I. Parts except hardware shall be blast - cleaned prior to galvanizing in accordance with SSPC - SP6.
8. Anchor bolts shall be set with a template. Nuts securing the post base plate shall be tightened to a snug fit and given an additional $\frac{1}{8}$ turn.
9. Bolts for attaching rail bars to posts shall be $\frac{3}{4}$ " Diameter round or dome head and may be rib neck, slotted, wrench head or tension control (TC or twist - off). Holes in posts shall be $\frac{1}{16}$ inch larger than the diameter of the bolt. Holes in rail bars shall be drilled to size as follows:

Slotted, wrench head or TC bolts: $\frac{1}{16}$ " larger than bolt diameter

Rib neck bolts: Size appropriate to accomodate an interference fit

Bolts shall be 6 inches in length and shall include a flat washer under the nut.

(Continued)

STEEL BRIDGE RAILING

Supersedes 507(14)