Thrie beam guardrail on the bridge shall be made of steel and shall be fabricated from ASTM A709 Grade 36 steel and galvanized. Posts, top plates, channels and channel splice plates shall be fabricated from ASTM A992 steel and galvanized. Minimum length of thrie beam sections is equal to one post space.

All steel connecting bolts and fasteners for posts and railing shall be full-threaded, carbon steel bolts, nuts and washers, which shall be galvanized, except for fasteners required for fabrication and welding. Screws shall be high strength structural bolts. Bolt holes shall be drilled in the channel and thrie beam rails for connection to the channel and thrie beam rail. The thickness of the shims shall be determined by the contractor and verified by the engineer before ordering material for this work.

Shim plates 6" x 6" x 1/16" may be used between the top of post and the channel and thrie beam rail. This type of joint shall be made at first post and every 100 ft. below the first post on either side of the joint and on structure at ends as required. In addition to the expansion provisions at these expansion joints, a horizontal slot shall be provided in the thrie beam rail for connection to the channel at the bridge ends for two-way pavement. This system meets TL-2 bridge barrier railing requirements.

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