



Figure 4.40 Geometric Criteria Assessment of Two Tube Railing – 36d.

Recommendation

As summarized in Table 4.21, the Two Tube Railing-36d bridge rail system from Wyoming does not satisfy all evaluation criteria, and determination of MASH TL-3 compliance will require testing.

Table 4.21 Summary of Assessment of Two Tube Railing – 36d.

	Required	Actual	Assessment
Stability	29 in.	32-5/8 in.	Satisfactory
Rail Geometrics	See Figure 4.40		Marginal
Strength	71 kips	72 kips	Satisfactory

4.6.14 Type A42 Metal Bridge Railing (New Mexico)

The Type A42 Metal Bridge Railing from New Mexico is a metal post and beam deck mounted bridge rail system. The bridge rail system has a total height of 42 inches. The three metal rails are HSS6x4x3/8 steel members. The posts are made of W8x24 steel members spaced at 6-1/4 feet. Figure 4.41 shows the profile view of the bridge rail system. Further details of the Type A42 Metal Bridge Railing can be found in NMDOT drawing Metal Railing NM Type A42. Appendix B.14 contains the full analysis for the Type A42 Metal Bridge Railing. Below is a summary of the evaluation results and recommendations.