

SPECIFICATION FOR CORRUGATED METAL PIPE

RIVETED PIPE – ALUMINUM

1.0 GENERAL

- 1.1 This specification covers the manufacture and installation of the corrugated aluminum riveted pipe or pipe-arch (CAP) detailed in the project plans.

2.0 DESIGN STANDARDS

- 2.1 The CAP meets the design parameters of the American Association of State Highway and Transportation Officials (AASHTO) Standard Specification for Highway Bridges, and/or AASHTO LRFD Bridge Design.
- 2.2 The gauges specified by the engineer shall consider the seam strength of the riveted pipe using the AASHTO Specification for Highway Bridge Design, Section 12.

3.0 MATERIAL

- 3.1 The aluminum coils shall conform to the applicable requirements of AASHTO M 197 or ASTM B744.

4.0 PIPE

- 4.1 The CAP shall be manufactured in accordance with the applicable requirements of AASHTO M 196 or ASTM B745. The pipe sizes, gauges and corrugations shall be as shown on the project plans.
- 4.2 All fabrication of the product shall occur within the United States.

5.0 COUPLING BANDS

- 5.1 Coupling bands for the CAP shall be made of the same base metal and coatings as the CAP to a minimum of 18 gauge.
- 5.2 Connection fasteners will be provided.

6.0 HANDLING & ASSEMBLY

- 6.1 Refer to the recommendations per the manufacturer's guidelines.

7.0 INSTALLATION

- 7.1 The installation shall be in accordance with AASHTO Standard Specifications for Highway Bridges, LRFD Section 26, Division II, or ASTM B 788 and in conformance with the project plans and specifications. If there are any inconsistencies or conflicts, the contractor must bring them to the attention of the project engineer.
- 7.2 It is always the contractor's responsibility to follow OSHA guidelines for safe practices.

8.0 CONSTRUCTION LOADS

- 8.1 Construction loads may be greater than design loads. The contractor shall follow the recommendations for additional compacted material per manufacturer's guidelines.