

Project: _____ City: _____ State: _____

SPECIFICATION FOR CORRUGATED METAL PIPE

RIVETED PIPE – ALUMINUM – AREMA

1.0 GENERAL

- 1.1 This specification covers the manufacture and installation of the corrugated aluminum riveted pipe/pipe-arch (CAP) detailed in the project plans. The AASHTO specifications listed below are referenced in the AREMA Specification for Culverts, Part 4.

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.
- 2.2 The gauges specified by the engineer shall consider the seam strength of the riveted pipe using AREMA Height of Cover table information.

3.0 MATERIAL

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

4.0 PIPE

- 4.1 The CAP shall be manufactured in accordance with the applicable requirements of AASHTO M 196. The pipe size(s) diameter(s), gauge(s), 2 2/3" x 1/2", 3" x 1" corrugation(s) 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 (e.g. 5-C, 10-C...) 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 (e.g. Techco angle, etc.).

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 AREMA Section 4.14 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.



Project: _____ City: _____ State: _____

SPECIFICATION FOR CORRUGATED METAL PIPE

ALUMINIZED STEEL TYPE 2

1.0 GENERAL

- 1.1 This specification covers the manufacture and installation of the Aluminized Steel Type 2 corrugated steel pipe/pipe-arch (CSP) detailed in the project plans.

2.0 DESIGN STANDARDS

- 2.1 The CSP meets the design parameters of the American Association of State Highway and Transportation Officials (AASHTO) Standard Specification for Highway Bridges, AASHTO LRFD Bridge Design, and/or the American Iron and Steel Institute (AISI).

3.0 MATERIAL

- 3.1 The Aluminized Steel Type 2 coils shall conform to the applicable requirements of AASHTO M 274 or ASTM A929.

4.0 PIPE

- 4.1 The CSP shall be manufactured in accordance with the applicable requirements of AASHTO M 36 or ASTM A760. The pipe size(s)* diameter(s), gauge(s), 1 1/2" x 1/4", 2 3/8" x 1/2", 3" x 1", 5" x 1" corrugation(s) 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 (e.g. H-12 Hugger Band, 10-C...) for the CSP shall be made of the same base metal and coatings as the CSP to a minimum of 18 gauge.
- 5.2 Ends of the CSP are rerolled with annular corrugations (e.g. Plain cut) for proper indexing.
- 5.3 Connection fasteners will be provided (e.g. Techco angle, bolt bar and strap, etc.).

6.0 HANDLING & ASSEMBLY

- 6.1 Refer to the recommendations of the National Corrugated Steel Pipe Association's (NCSPA).

7.0 INSTALLATION

- 7.1 The installation shall be in accordance with AASHTO Standard Specifications for Highway Bridges, LRFD Section 26, Division II, NCSPA, or ASTM A798 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 or NCSPA guidelines.

Commented [BK1]:

- Fill in or edit the information that is in yellow highlighting. Edit according to your particular project's requirements.

- Items that are specific to a project will be:

Design standards
Diameter
Gauge
Corrugation
Coupling band type
Coupling band fastener type
Installation standards

- When finished editing, remove the yellow highlighting.

- Replace "CUSTOM" in file name with project information.

- Before printing, disable comments from printing. Go to the Review Tab, click on the "show markup" dropdown, and uncheck "Comments".