

SPECIFICATION FOR CORRUGATED METAL PIPE

UNDERDRAIN – ALUMINUM

1.0 GENERAL

- 1.1 This specification covers the manufacture and installation of the corrugated aluminum pipe (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.

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, diameters, gauges, 1 ½" x ¼" corrugation shall be as shown on the project plans.
- 4.2 The pipe may be strip perforated with four rows of 3/8" diameter holes.
- 4.3 The minimum allowable cover height is 12" for standard highway loading.
- 4.4 All fabrication of the product shall occur within the United States.

5.0 COUPLING BANDS

- 5.1 Coupling bands for the CAP shall be Hat Bands 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 B788 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.