

## **SPECIFICATION FOR CORRUGATED METAL PIPE**

### **Smooth Cor™ - ALUMINIZED STEEL TYPE 2 SHELL POLYMER COATED STEEL LINER**

#### **1.0 GENERAL**

- 1.1 This specification covers the manufacture and installation of the double wall corrugated steel pipe (Type IA) or pipe-arch (Type IIA) (Smooth Cor) detailed in the project plans.

#### **2.0 DESIGN STANDARDS**

- 2.1 The Smooth Cor 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.
- 3.2 The polymer coated steel coils shall conform to the applicable requirements of AASHTO M 246 or ASTM A742.

#### **4.0 PIPE**

- 4.1 The Smooth Cor shall be manufactured in accordance with the applicable requirements of AASHTO M 36 or ASTM A760. The pipe sizes, gauges and corrugations shall be as shown on the project plans.
- 4.2 The corrugated external shell shall be Aluminized Steel Type 2 and the smooth interior liner shall be polymer coated steel.
- 4.3 All fabrication of the product shall occur within the United States.

#### **5.0 COUPLING BANDS**

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

#### **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.