



Iowa Department of Transportation

**SPECIAL PROVISIONS  
FOR  
SMOOTH STEEL PIPE**

**Pottawattamie County  
IMN-080-1(366)4--0E-78**

**Effective Date  
June 16, 2015**

**THE STANDARD SPECIFICATIONS, SERIES 2012, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE SPECIAL PROVISIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.**

**120323.01 DESCRIPTION.**

Smooth Steel Pipe consists of culvert pipe materials delivered and installed in conformity with the contract documents.

**120323.02 MATERIALS.**

- A. New Smooth Steel Pipe (SSP) shall be in accordance with ASTM International A139. Pipe shall be Grade B and steel shall have a minimum yield strength of 35 kips per square inch.
- B. SSPs shall have a welded straight longitudinal seam, and the ends of each pipe section shall be square cut. One pipe end section shall be suitably beveled for field welding sections together.
- C. SSPs are designed for Cooper E80 Live Load with impact, and cover as shown in Table 1. Table 1 indicates the minimum required thickness.

Table 1 – Round Smooth Steel Pipe (SSP)				
Outside Pipe Diameter	Thickness (in.)	Weight (lb./ft.)	Cover *	
			Min. (ft.)	Max. (ft.)
36"	1/2	190	1'-6"	18'-0"

\*Cover to be measured from base of rail to top of pipe

**120323.03 CONSTRUCTION.**

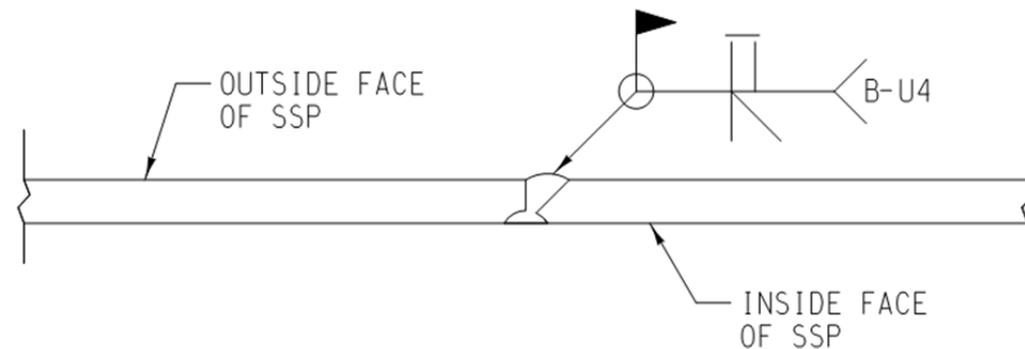
**A. General.**

- 1. SSP construction not covered by this specification shall be per AREMA Manual for Railway Engineering, Chapter 1, Part 4 and Section 2416 of the Standard Specifications.

2. The Contractor shall exercise care in the handling and distribution of SSP material in order to prevent damage, including, but not limited to, distortion of the pipes and damage to pipe culvert coatings. SSPs shall never be dragged over ground, but shall be handled with skids, rolling slings, or cranes. Any damage to the pipe culvert shall be satisfactorily repaired or replaced at no additional cost to the Contracting Authority.
3. Use manufactured adapters or couplings at the connections to manholes per manufacturer's recommendations and per Engineer's approval.

**B. Field Welding.**

Smooth steel pipe sections shall be welded per the detail below. Welders must possess valid qualifications.



**120323.04 METHOD OF MEASUREMENT.**

Culvert, Smooth Steel Pipe will be measured in feet of culvert installed of the size specified

**120323.05 BASIS OF PAYMENT.**

- A. Payment for Culvert, Smooth Steel Pipe will be per linear feet for the size specified.
- B. Payment is full compensation for furnishing incidental items, back filling, pipe bedding, accessories, and welding.