



**REQUIREMENTS FOR CORRUGATED STEEL PIPE THICKNESS  
AND PROTECTION AT ABRASIVE SITES**

pH	≤ 4.0	4.5	5.0	5.5	6.0	6.5	≥ 7.0	Steel Conduit Type		
Thickness (in.) required for 50 year Design Service Life	X	X	X	0.168	0.168	0.138	0.109	Zinc Coated Corrugated Steel Pipe w/Paved Invert Zinc Coated Corrugated Steel Pipe-Arch w/Paved Invert Fully Bituminous Coated and Lined Corrugated Steel Pipe Fully Bituminous Coated and Lined Corrugated Steel Pipe-Arch		
				0.138	0.109	0.109	0.079	0.064	Aluminum Coated Type 2 Corrugated Steel Pipe w/Paved Invert Aluminum Coated Type 2 Corrugated Steel Pipe-Arch w/Paved Invert	
				0.109	0.109	0.079	0.064	0.064	0.064	Polymer Precoated Galvanized Corrugated Steel Pipe w/Paved Invert Polymer Precoated Galvanized Corrugated Steel Pipe-Arch w/Paved Invert Fiber Bonded Bituminous Coated Corrugated Steel Pipe w/Paved Invert Fiber Bonded Bituminous Coated Corrugated Steel Pipe-Arch w/Paved Invert
				X	X	X	0.170	0.111	0.111	0.111

pH	≤ 4.0	4.5	5.0	5.5	6.0	6.5	≥ 7.0	Steel Conduit Type			
Thickness (in.) required for 75 year Design Service Life	X	X	X	X	X	0.168	0.138	Zinc Coated Corrugated Steel Pipe w/Paved Invert Zinc Coated Corrugated Steel Pipe-Arch w/Paved Invert Fully Bituminous Coated and Lined Corrugated Steel Pipe Fully Bituminous Coated and Lined Corrugated Steel Pipe-Arch			
						0.168	0.168	0.138	0.109	Aluminum Coated Type 2 Corrugated Steel Pipe w/Paved Invert Aluminum Coated Type 2 Corrugated Steel Pipe-Arch w/Paved Invert	
				0.168	0.168	0.168	0.138	0.138	0.109	0.109	Polymer Precoated Galvanized Corrugated Steel Pipe w/Paved Invert Polymer Precoated Galvanized Corrugated Steel Pipe-Arch w/Paved Invert Fiber Bonded Bituminous Coated Corrugated Steel Pipe w/Paved Invert Fiber Bonded Bituminous Coated Corrugated Steel Pipe-Arch w/Paved Invert
				X	X	X	0.218	0.111	0.111	0.111	Structural Plate Steel Pipe w/Concrete Field Paving Structural Plate Steel Pipe-Arch w/Concrete Field Paving

Refer to Standard Drawing E 715-PSLC-03 for General Notes.

INDIANA DEPARTMENT OF TRANSPORTATION	
PIPE SERVICE LIFE CRITERIA SEPTEMBER 2002	
STANDARD DRAWING NO. E 715-PSLC-02	
	/s/ Richard L. VanCleave     9-03-02 DESIGN STANDARDS ENGINEER     DATE
	/s/ Richard K. Smutzer     9-03-02 CHIEF HIGHWAY ENGINEER     DATE