

**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 required for 50 year Design Service Life	X	X	X	4.27	4.27	3.51	2.77	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
	X	X	3.51	2.77	2.77	2.01	1.63	Aluminum Coated Type 2 Corrugated Steel Pipe w/Paved Invert Aluminum Coated Type 2 Corrugated Steel Pipe-Arch w/Paved Invert
	2.77	2.77	2.01	1.63	1.63	1.63	1.63	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	4.32	2.82	2.82	2.82	Structural Plate Steel Pipe w/Concrete Field Paving Structural Plate Steel Pipe-Arch w/Concrete Field Paving

pH	≤ 4.0	4.5	5.0	5.5	6.0	6.5	≥ 7.0	Steel Conduit Type
Thickness required for 75 year Design Service Life	X	X	X	X	X	4.27	3.51	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
	X	X	X	4.27	4.27	3.51	2.77	Aluminum Coated Type 2 Corrugated Steel Pipe w/Paved Invert Aluminum Coated Type 2 Corrugated Steel Pipe-Arch w/Paved Invert
	4.27	4.27	4.27	3.51	3.51	2.77	2.77	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	5.54	2.82	2.82	2.82	Structural Plate Steel Pipe w/Concrete Field Paving Structural Plate Steel Pipe-Arch w/Concrete Field Paving

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

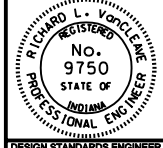
All Dimension are in mm unless otherwise specified

INDIANA DEPARTMENT OF TRANSPORTATION

**PIPE SERVICE
LIFE CRITERIA**

SEPTEMBER 2002

STANDARD DRAWING NO. 715-PSLC-02

	<i>/s/ Richard L. VanCleave</i> 9-03-02 <small>DESIGN STANDARDS ENGINEER DATE</small>
	<i>/s/ Richard K. Smutzer</i> 9-03-02 <small>CHIEF HIGHWAY ENGINEER DATE</small>

DESIGN STANDARDS ENGINEER