REQUIREMENTS FOR CORRUGATED STEEL PIPE THICKNESS AND PROTECTION AT NON-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 Zinc Coated Corrugated Steel Pipe-Arch
	X	X	3.51	2.77	2.77	2.01	1.63	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 Aluminum Coated Type 2 Corrugated Steel Pipe-Arch
	2.77	2.77	2.01	1.63	1.63	1.63	1.63	Polymer Precoated Galvanized Corrugated Steel Pipe Polymer Precoated Galvanized Corrugated Steel Pipe-Arch Fiber Bonded Bituminous Coated Corrugated Steel Pipe Fiber Bonded Bituminous Coated Corrugated Steel Pipe-Arch
	2.82*	2.82*	2.82*	4.32	2.82	2.82	2.82	Structural Plate Steel Pipe Structural Plate Steel Pipe-Arch

* -- Concrete field paving required

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 Zinc Coated Corrugated Steel Pipe-Arch
	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	X	4.27	4.27	3.51	2.77	Aluminum Coated Type 2 Corrugated Steel Pipe Aluminum Coated Type 2 Corrugated Steel Pipe-Arch
	4.27	4.27	4.27	3.51	3.51	2.77	2.77	Polymer Precoated Galvanized Corrugated Steel Pipe Polymer Precoated Galvanized Corrugated Steel Pipe-Arch Fiber Bonded Bituminous Coated Corrugated Steel Pipe Fiber Bonded Bituminous Coated Corrugated Steel Pipe-Arch
	2.82*	2.82*	2.82*	5.54	2.82	2.82	2.82	Structural Plate Steel Pipe Structural Plate Steel Pipe-Arch

* -- Concrete field paving required
Refer to Standard Drawing 715-PSLC-03 for General Notes.

All Dimension are in mm unless otherwise specfied

INDIANA DEPARTMENT OF TRANSPORTATION

PIPE SERVICE LIFE CRITERIA

SEPTEMBER 2002

STANDARD DRAWING NO. 715-PSLC-01

RICHARD L. VanCLEAVE REGISTERED No. 9750 STATE OF INDIANA PROFESSIONAL ENGINEER
DESIGN STANDARDS ENGINEER

/s/ Richard L. VanCleave 9-03-02
DESIGN STANDARDS ENGINEER DATE

/s/ Richard K. Smutzer 9-03-02
CHIEF HIGHWAY ENGINEER DATE