

**GENERAL NOTES**


1. "X" entries in the table indicate that a thickness which satisfies the required design service life is not available.
2. The tabulated plate thickness for Structural Plate Steel Pipe and Pipe-Arches reflects the required thickness for the top and side plates. If the tabulated plate thickness is less than 7.11 mm, the bottom plates shall be of the next greater available thickness.
3. Corrugated Aluminum Alloy Pipe and Pipe-Arches and Aluminum Alloy Structural Plate Pipe and Pipe-Arches are acceptable with the minimum thickness required to satisfy cover conditions for all non-abrasive sites with a structure pH  $\geq$  5.0.
4. Corrugated Aluminum Alloy Pipe and Pipe-Arches with bituminous paved invert and Aluminum Alloy Structural Plate Pipe and Pipe-Arches with concrete field paving are acceptable with the minimum thickness required to satisfy cover conditions for all abrasive sites with a structure pH  $\geq$  5.0.
5. Service life criteria apply to only reinforced concrete, corrugated metal, and structural plate metal pipe. Other materials which conform to the designated pipe type and height of cover parameters are acceptable for installation.
6. Service life criteria do not apply to Type 4 pipe.

**REQUIREMENTS FOR REINFORCED CONCRETE  
PIPE PROTECTION**

Pipe Slope	Minimum pH to Attain Design Service Life	
	50 Year	75 Year
Less than 3%	4.0	4.5
3% to 10%	4.5	5.0
Greater than 10%	5.0	5.5

For a structure pH lower than the minimums listed above, reinforced concrete pipe shall not be used.

All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION	
PIPE SERVICE LIFE CRITERIA	
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STANDARD DRAWING NO. 715-PSLC-03	
	/s/ Anthony L. Uremovich 1-02-98 DESIGN STANDARDS ENGINEER DATE
	/s/ Donald W. Lucas 1-02-98 CHIEF HIGHWAY ENGINEER DATE

Source Sheet: NONE