68 mm x 13 mm CORRUGATED STEEL PIPE-ARCH (RIVETED OR LOCK SEAM)
HEIGHT OF COVER LIMITS (m)

Rc (mm)	SPAN (mm)	RISE (mm)	AREA (m^2)	THICKNESS (mm)									
				1.63		2.01		2.77		3.51		4.27	
				MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
75/90	430	330	0.10	0.46	4.2	0.46	4.2	0.46	4.2				
75/105	530	380	0.15	0.49	4.0	0.49	4.0	0.49	4.0				
75/125	610	460	0.20	0.46	4.1	0.46	4.1	0.46	4.1				
75/140	710	510	0.27	0.49	4.0	0.49	4.0	0.49	4.0				
75/175	885	610	0.42	0.49	4.0	0.49	4.0	0.49	4.0	0.49	4.0		
90/210	1060	740	0.60	0.49	4.0	0.49	4.0	0.49	4.0	0.49	4.0	0.49	4.0
100/245	1240	840	0.83			0.49	4.0	0.49	4.0	0.49	4.0	0.49	4.0
130/280	1440	970	1.08					0.49	3.9	0.49	3.9	0.49	3.9
155/315	1620	1100	1.37					0.49	3.9	0.49	3.9	0.49	3.9
180/350	1800	1200	1.68							0.49	3.9	0.49	3.9
205/385	1950	1320	2.03									0.49	4.0
230/420	2100	1450	2.42									0.46	4.0

NOTE:

1. The tabulated cover depths shall be measured from the bottom of the bituminous or concrete pavement to the top of the pipe.

2. Dual entries in the "Corner Radius" column, such as 75/90, represent the following:
   75 – minimum corner radius allowed by AASHTO M 36M.
   90 – corner radius typically available.

3. The tabulated cover heights reflect pipe-arches with typically available corner radii. If a pipe-arch with corner radii other than what is typically available is to be used, a specific design shall be performed to verify structural adequacy.

All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION

PIPE HEIGHT OF COVER LIMITS

JANUARY 1998

STANDARD DRAWING NO. **715-PHCL-11**

ANTHONY L. UREMOVICH REGISTERED No. 18095 STATE OF INDIANA PROFESSIONAL ENGINEER

DESIGN STANDARDS ENGINEER

/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