150 mm x 50 mm STRUCTURAL PLATE STEEL PIPE-ARCH (BOLTED)
HEIGHT OF COVER LIMITS (m)

Rc (mm)	SPAN (mm)	RISE (mm)	AREA (m^2)	THICKNESS (mm)									
				2.82		3.56 thru 7.11							
				MIN.	MAX.	MIN.	MAX.						
457	1850	1400	2.0	0.40	4.9	0.40	4.9						
457	1930	1450	2.2	0.40	4.6	0.40	4.6						
457	2060	1500	2.4	0.43	4.3	0.43	4.3						
457	2130	1550	2.6	0.43	4.3	0.43	4.3						
457	2210	1600	2.9	0.46	4.0	0.46	4.0						
457	2340	1650	3.1	0.49	4.0	0.49	4.0						
457	2410	1700	3.3	0.49	3.7	0.49	3.7						
457	2490	1750	3.5	0.52	3.7	0.52	3.7						
457	2620	1800	3.7	0.55	3.4	0.55	3.4						
457	2690	1850	4.0	0.55	3.4	0.55	3.4						
457	2840	1910	4.3	0.61	3.0	0.61	3.0						
457	2900	1960	4.6	0.61	3.0	0.61	3.0						
457	2970	2010	4.8	0.64	3.0	0.64	3.0						
457	3120	2060	5.1	0.64	2.4	0.64	2.4						
457	3250	2110	5.4	0.64	2.4	0.64	2.4						
457	3330	2160	5.7	0.67	2.4	0.67	2.4						
457	3480	2210	5.9	0.70	2.1	0.70	2.1						
457	3530	2260	6.2	0.73	2.1	0.73	2.1						
457	3610	2310	6.6	0.76	2.1	0.76	2.1						
457	3760	2360	6.9	0.79	1.8	0.79	1.8						
457	3810	2410	7.2	0.82	1.8	0.82	1.8						
457	3860	2460	7.5	0.85	1.8	0.85	1.8						
457	3910	2540	7.9	0.85	1.8	0.85	1.8						
787	4040	2840	9.0	0.52	3.7	0.52	3.7						
787	4110	2900	9.5	0.52	3.7	0.52	3.7						
787	4270	2950	9.8	0.55	3.4	0.55	3.4						
787	4320	3000	10.1	0.55	3.4	0.55	3.4						
787	4390	3050	10.6	0.55	3.4	0.55	3.4						
787	4550	3100	11.0	0.58	3.0	0.58	3.0						

All dimensions are in mm unless otherwise specified.

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. A specific design shall be performed for structures with corner radii other than those tabulated above to determine the appropriate cover depth limits.
3. The tabulated plate thickness reflects the required thickness for top and side plates. Refer to 908.09 (a) for the required bottom plate thickness.

INDIANA DEPARTMENT OF TRANSPORTATION

PIPE HEIGHT OF COVER LIMITS

JANUARY 1998

STANDARD DRAWING NO. **717-PHCL-09**

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