230 mm x 64 mm STRUCTURAL PLATE ALUMINUM ALLOY PIPE (STEEL BOLTED)
HEIGHT OF COVER LIMITS (m)

	AREA (m^2)	DIAMETER (mm)	THICKNESS (mm)										
			2.54		3.18		3.81		4.44		5.08		
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	
	1.77	1500	0.30	9.4	0.30	13.7	0.30	18.3	0.30	21.3	0.30	24.7	
	2.15	1655	0.30	8.5	0.30	12.5	0.30	16.5	0.30	19.5	0.30	22.6	
	2.57	1810	0.30	7.6	0.30	11.3	0.30	15.2	0.30	17.7	0.30	20.4	
	3.03	1965	0.30	7.0	0.30	10.7	0.30	14.0	0.30	16.5	0.30	18.9	
	3.84	2120	0.30	6.7	0.30	9.8	0.30	12.8	0.30	15.2	0.30	17.7	
	4.06	2275	0.34	6.1	0.30	9.1	0.30	12.2	0.30	14.3	0.30	16.5	
	4.64	2430	0.34	5.8	0.30	8.5	0.30	11.3	0.30	13.4	0.30	15.2	
	5.25	2585	0.34	5.5	0.34	7.9	0.34	10.7	0.34	12.5	0.34	14.3	
	5.90	2740	0.37	5.2	0.37	7.6	0.37	10.1	0.37	11.9	0.37	13.7	
	6.58	2895	0.40	4.9	0.37	7.0	0.37	9.4	0.37	11.3	0.37	12.8	
	7.31	3050	0.40	4.6	0.40	6.7	0.40	9.1	0.40	10.7	0.40	12.2	
	8.07	3205	0.43	4.3	0.43	6.4	0.43	8.5	0.43	10.1	0.43	11.6	
	8.87	3360	0.43	4.3	0.43	6.1	0.43	8.2	0.43	9.8	0.43	11.3	
	9.70	3515	0.46	4.0	0.46	5.8	0.46	7.9	0.46	9.1	0.46	10.7	
	10.58	3670	0.49	3.7	0.46	5.5	0.46	7.6	0.46	8.8	0.46	10.1	
	11.49	3825			0.49	5.5	0.49	7.3	0.49	8.5	0.49	9.8	
	12.44	3980			0.52	5.2	0.52	7.0	0.52	8.2	0.52	9.4	
	13.43	4135					0.52	6.7	0.52	7.9	0.52	9.1	
	14.45	4290					0.55	6.4	0.55	7.6	0.55	8.8	
	15.52	4445					0.58	6.1	0.58	7.3	0.58	8.5	
	16.62	4600							0.58	7.0	0.58	8.2	
	17.76	4755							0.61	6.7	0.61	7.9	
	18.93	4910									0.61	7.6	
	20.15	5065									0.64	7.3	
	21.40	5220									0.67	7.0	
	22.69	5375											
	24.02	5530											
	25.38	5685											
	26.79	5840											

NOTE:

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

All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION

PIPE HEIGHT OF COVER LIMITS

JANUARY 1998

STANDARD DRAWING NO. **717-PHCL-01**

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