PC-1

CORRUGATED STEEL PIPE 2 2/3" x 1/2" CORRUGATIONS									
PIPE	ARE A	MAXIMUM HEIGHT OF COVER IN FEET					MINIMUM SHEET THICKNESS FOR		
DIAMETER		SHEET	THICKNE	ENTRANCE PIPES WITH LESS THAN					
INCHES	SQ. FT.	0.064 (16)	0.079 (14)	0.109 (12)	0.138 (10)	0.168 (8)	1 FT COVER INCHES (GAUGE)		
12	0.79	233	291				0.064 (16)		
15	1.23	186	233				0.064 (16)		
18	1.77	155	194	272			0.064 (16)		
21	2.40	132	166	233			0.064 (16)		
24	3.14	116	145	203			0.064 (16)		
27	3.98	102	128	180			0.064 (16)		
30	4.91	92	115	162			0.064 (16)		
33	5.94	83	105	147	190		0.064 (16)		
36	7.1	76	96	135	174		0.064 (16)		
42	9.6	65	81	115	149	182	0.064 (16)		
48	12.6	56	71	100	130	159	0.064 (16)		
54	16.0		63	89	115	141	0.079 (14)		
60	19.6			79	103	126	0.109 (12)		
66	23.8				93	114	0.138 (10)		
72	28.3				85	105	0.138 (10)		
78	33.2					96	0.168 (8)		
84	38.5				·	89	0.168 (8)		

NOTES:

- COVER HEIGHTS INDICATED IN TABLES ARE FOR FINISHED CONSTRUCTION, USING AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND ASSUMING 25% METAL LOSS AT END OF DESIGN LIFE.
- TO PROTECT PIPE DURING CONSTRUCTION, MINIMUM HEIGHT OF COVER TO BE IN ACCORDANCE WITH TABLE A PRIOR TO ALLOWING CONSTRUCTION TRAFFIC TO CROSS INSTALLATION. THE COVER SHALL EXTEND THE FULL LENGTH OF THE PIPE. THE APPROACH FILL RAMP IS TO EXTEND A MINIMUM OF 15 DIAMETERS ON EACH SIDE OF THE PIPE OR THE INTERSECTION WITH A CUT.
- STANDARD MINIMUM FINISHED HEIGHT OF COVER FOR ALL PIPES, EXCEPT UNDER ENTRANCES, SHALL BE 2.0' OR 1/2 DIAMETER, WHICHEVER IS GREATER. IN CASES IN WHICH THESE COVER HEIGHTS CANNOT BE ACHIEVED, AN ABSOLUTE MINIMUM FINISHED COVER HEIGHT OF 1.0' OR 1/8 DIAMETER, WHICHEVER IS GREATER, WILL BE ALLOWED ONLY IF ALL POSSIBLE MEANS TO OPTAIN THE STANDARD VALUE FIRE EVALUATION. OBTAIN THE STANDARD VALUE HAVE BEEN EXHAUSTED. THE MINIMUM FINISHED HEIGHT OF COVER FOR PIPES UNDER ENTRANCES IS 9" FOR PIPE DIAMETERS LESS THAN OR EQUAL TO 24" AND 12" OR 1/8 DIAMETER, WHICHEVER IS GREATER, FOR PIPE DIAMETERS GREATER THAN 24". WHERE A POLYMER COATED PIPE WILL BE USED AND THE SURFACE OVER THE TOP OF THE PIPE WILL BE ASPHALT, CLASS I BACKFILL MATERIAL IS TO BE PLACED UP TO A MINIMUM OF 6" ABOVE THE TOP OF THE PIPE.
- SEE STANDARD PB-1 FOR PIPE BEDDING AND BACKFILL REQUIREMENTS.

T.	ABLE A
PIPE DIAMETER	MINIMUM COVER HEIGHT DURING CONSTRUCTION (SEE NOTE 2)
12" TO 33"	18''
36" AND ABOVE	1/2 DIAMETER

CONCRETE- LINED CORRUGATED STEEL PIPE

MAXIMUM HEIGHT OF COVER TO BE IN ACCORDANCE WITH THE TABLES BUT SHALL NOT EXCEED 30'.

CORRUGATED STEEL PIPE 3'' x 1'' CORRUGATIONS									
PIPE AREA MAXIMUM HEIGHT OF (MAXIMUM HEIGHT OF COVER IN FEET								
	SHEET THICKNESS IN INCHES (GAUGE)								
INCHES SQ. FT. 0.064 0.079 0.109 (16) (14) (12)	0.138 (10)	0.168 (8)							
36 7.1 88 110 155	200	246							
42 9.6 75 94 133	171	210							
48 12.6 65 82 116	149	183							
54 16.0 57 72 102	132	163							
60 19.6 51 65 92	119	146							
66 23.8 46 58 83	108	132							
72 28.3 42 53 76	98	121							
78 33.2 38 49 69	90	111							
84 38.5 35 45 64	83	103							
90 44.2 32 41 59	77	96							
96 50.3 38 55	72	89							
102 56.7 36 52	68	84							
108 63.6 49	64	80							
114 70.9 45	60	74							
120 78.5 43	56	70							
132 95.0	51	63							
14.4 113.0		57							
CORRUGATED STEEL PIPE 5" x 1" CORRUGATIONS									
PIPE AREA MAXIMUM HEIGHT OF CO	COVER IN								
PIPE AREA	COVER IN	GAUGE) 0.168 (8)							
DIAMETER	COVER IN	GAUGE) 0.168							
DIAMETER SHEET THICKNESS IN	NCHES (0.168 (8)							
SHEET THICKNESS IN	OVER IN NCHES (0.138 (10) 178	0.168 (8) 218							
SHEET THICKNESS IN	OVER IN NCHES (0.138 (10) 178 152	0.168 (8) 218							
SHEET THICKNESS IN	OVER IN NCHES (0.138 (10) 178 152 133	0.168 (8) 218 187							
SHEET THICKNESS IN INCHES SQ. FT. 0.064 0.079 0.109 (16) (14) (12)	OVER IN NCHES (0.138 (10) 178 152 133 118	0.168 (8) 218 187 163							
SHEET THICKNESS IN SQ. FT. 0.064 0.079 0.109 (16) (14) (12) 36 7.1 78 98 138 42 9.6 66 84 118 48 12.6 58 73 103 54 16.0 51 64 91 60 19.6 45 57 81	OVER IN NCHES (10) 178 152 133 118 105	0.168 (8) 218 187 163 144 130							
SHEET THICKNESS IN SOLUTION SHEET THICKNESS IN SOLUTION SHEET THICKNESS IN SHEET THICKNESS IN	OVER IN NCHES (0.138 (10) 178 152 133 118 105 95	0.168 (8) 218 187 163 144 130							
SHEET THICKNESS IN SOLUTION SUPERIOR	OVER IN NCHES (0.138 (10) 178 152 133 118 105 95 87	0.168 (8) 218 187 163 144 130 117							
SHEET THICKNESS IN INCHES SQ. FT.	COVER IN NCHES (10) 178 152 133 118 105 95 87 80	0.168 (8) 218 187 163 144 130 117 107							
SHEET THICKNESS IN INCHES SQ. FT. SHEET THICKNESS IN INCHES SQ. FT. SHEET THICKNESS IN INCHES SQ. FT. SHEET THICKNESS IN INCHES SQ. FT. SHEET THICKNESS IN INCHES SQ. FT. SHEET THICKNESS IN INCHES SQ. FT. SHEET THICKNESS IN INCHES SQ. FT. SHEET THICKNESS IN INCHES SQ. FT. SHEET THICKNESS IN INCHES SQ. FT. SHEET THICKNESS IN INCHES SQ. FT. SHEET THICKNESS IN INCHES SQ. FT. SHEET THICKNESS IN INCHES SQ. FT. SHEET THICKNESS IN INCHES SQ. FT. SHEET THICKNESS IN INCHES SQ. FT. SHEET THICKNESS IN INCHES SQ. FT. SHEET THICKNESS IN INCHES SQ. FT. SHEET THICKNESS IN INCHES SQ. FT. SHEET THICKNESS IN INCHES SQ. FT. SHEET THICKNESS IN INCHES SQ. FT. SHEET THICKNESS IN INCHES SQ. FT. SQ	COVER IN NCHES (10) 0.138 (10) 178 152 133 118 105 95 87 80 74	0.168 (8) 218 187 163 144 130 117 107 99							
SHEET THICKNESS IN SQ. FT.	COVER IN NCHES (10) 0.138 (10) 178 152 133 118 105 95 87 80 74 69	0.168 (8) 218 187 163 144 130 117 107 99 91							
SHEET THICKNESS IN SOLFT	COVER IN NCHES (10) 0.138 (10) 178 152 133 118 105 95 87 80 74 69 64	GAUGE) 0.168 (8) 218 187 163 144 130 117 107 99 91 85 79							
SHEET THICKNESS IN SOLFT.	COVER IN NCHES (10) 178 152 133 118 105 95 87 80 74 69 64 60	0.168 (8) 218 187 163 144 130 117 107 99 91 85 79							
SHEET THICKNESS IN SOLFT.	COVER IN NCHES (10) 1.138 (10) 1.78 152 1.33 118 1.05 95 8.7 80 7.4 69 6.4 60 5.6 60	0.168 (8) 218 187 163 144 130 117 107 99 91 85 79 74							
SHEET THICKNESS IN SHEET T	COVER IN NCHES (10) 1.138 (10) 1.78 152 1.33 118 1.05 95 8.7 80 7.4 69 6.4 60 5.6 5.3	GAUGE) 0.168 (8) 218 187 163 144 130 117 107 99 91 85 79 74 69 65							

CODDUCATED STEEL DIDE

 \mathbb{V} DOT ROAD AND BRIDGE STANDARDS SHEET 3 OF 18 REVISION DATE 11/15 107.07

A COPY OF THE ORIGINAL SEALED AND SIGNED DRAWING IS ON FILE IN THE CENTRAL OFFICE. CORRUGATED STEEL PIPE

HEIGHT OF COVER TABLES FOR HL-93 LIVE LOAD

VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE

> 302 232