PC-1									NOTES:			
MINIMUM SHEET THICKNESS AND DESIGN DATA 1. COVER HEIGHTS INDICATED IN TABLES ARE FOR FINISHEE CONSTRUCTION WHICH MATCH FORMER VDOT ALLOWABLE STRESS DESIGN TABLES. COVER HEIGHTS WERE NOT												
PIPE ARCH DIMENSION					MINIMUM	MAXIMUM COVER HEIGHT IN FEET]	RE-CALCULATED USING LRFD TO PROTECT PIPE DURING CONSTRUCTION, MINIMUM HEIGHT			
NOMINAL SIZE SPAN - RISE	EQUIVALENT PIPE DIAMETER	AREA SQ. FT.	B INCHES	Rc INCHES	SHEET THICKNESS REQUIRED	MAXIMUM PRES	SURE	2.	OF COVER TO BE IN ACT TO ALLOWING CONSTRUCTION. THE COV	CCORDANCE WITH TABLE A PRIOR CTION TRAFFIC TO CROSS ER SHALL EXTEND THE FULL		
INCHES	INCHES		(SEE NOTE 7)	INCHES	INCHES (GAUGE)	LBS./SQ. FT. (SEE NOTE 4)			IS TO EXTEND A MINIM	RCH. THE APPROACH FILL RAMP UM OF 10(HEIGHT + ½ SPAN) ON 1, OR TO THE INTERSECTION WITH		
2 2/3" x 1/2" CORRUGATIONS									A CUT.	,		
17 x 13	15	1.1	5 ¹ / ₄	3	0.064 (16)	11	17	3.	ALL PIPES SHALL BE 2'0	SHED HEIGHT OF COVER FOR O" OR 1/2 SPAN, WHICHEVER IS		
21 x 15	18	1.6	6	3	0.064 (16)	9	14		GREATER. IN CASES IN 'CANNOT BE ACHIEVED. A	WHICH THESE COVER HEIGHTS IN ABSOLUTE MINIMUM FINSHED		
24 × 18	21	2.2	71/4	3	0.064 (16)	8	12		GREATER, WILL BE ALLOY	OR 1/8 SPAN, WHICHEVER IS WED ONLY IF ALL POSSIBLE		
28 x 20	24	2.8	8	3	0.064 (16)	7	10		EXHAUSTED. WHERE POL	STANDARD VALUE HAVE BEEN YMER COATED PIPE WILL BE		
35 x 24	30	4.4	91/2	3	0.064 (16)	5	8		WILL BE ASPHALT, CLASS	OVER THE TOP OF THE PIPE SIBACKFILL MATERIAL IS TO		
42 x 29 ⊛	36	6.4	101/2	31/2	0.064 (16)	5	8		BE PLACED UP TO A MI OF THE PIPE.	NIMUM OF 6" ABOVE THE TOP		
49 x 33 ⊛	42	8.7	111/2	4	0.079 (14)	5	8	4.		R PIPE BEDDING AND BACKFILL		
57 x 38 ₩	48	11.4	131/2	5	0.109 (12)	5	8		REQUIREMENTS.			
64 x 43 ⊛	54	14.3	15	6	0.109 (12)	6	9	5.	TABLES IS BASED ON A	F COVER SHOWN IN THE SOIL MODULUS OF 700 PSI.		
71 x 47 ⊛	60	17.6	161/2	7	0.138 (10)	6	9		WITH THE AASHTO SPEC	ERIA ARE IN ACCORDANCE CIFICATIONS AND VDOT		
77 x 52 ⊛	66	21.3	18	8	0.168 (8)	6	10		MODIFICATIONS FOR SOIL STRUCTURE INTERACTION	. CORRUGATED METAL N SYSTEMS.		
83 x 57 ⊛	72	25.3	20	9	0.168 (8)	7	10	6.	WHEN DESIGN HEIGHT OF COVER REQUIRES THE USE			
	3" x 1" AND 5" x 1" CORRUGATIONS								OF THIS CATEGORY OF PIPE, FOUNDATION AND BACKFILL MUST BE APPROVED BY THE ENGINEER.			
40 x 31 ↔	36	6.4	9 3/4	5	0.109 (12)	8	12	7.	SPAN OF PIPE ARCHES	IS MEASURED "B" INCHES ABOVE		
46 x 36 ⊛	42	8.7	111/2	6	0.109 (12)	8	12		OF "B" DIMENSION.	RAM BELOW FOR ILLUSTRATION		
53 x 41 ⊛	48	11.4	13	7	0.109 (12)	8	13		TABLE A			
60 x 46 ↔	54	14.3	14 3/4	8	0.109 (12)	8	13		DID5 4000 00 40	MINIMUM COVER HEIGHT		
66 x 51 ↔	60	17.6	161/2	9	0.109 (12)	9	13		PIPE ARCH SPAN	DURING CONSTRUCTION (SEE NOTE 2)		
73 x 55 ⊛	66	22.0	211/2	12	0.109 (12)	11	16		17" TO 35"	18"		
81 x 59 �	72	26.0	23	14	0.109 (12)	11	17		42" AND ABOVE	1/2 SPAN		
87 x 63	78	31.0	241/2	14	0.109 (12)	10	16					
95 x 67	84	35.0	26 ¹ / ₂	16	0.109 (12)	11	16			A		
103 x 71	90	40.0	27	16	0.109 (12)	10	15					
112 x 75	96	46.0	29	18	0.109 (12)	10	16					
117 × 79	102	52.0	30¾	18	0.109 (12)	10	15		Rc Rb	Rc \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
128 x 83	108	58.0	291/2	18	0.138 (10)	9	14	_				
137 x 87	114	64.0	30¾	18	0.138 (10)	8	13					
142 x 91	120	71.0	321/2	18	0.168 (8)	8	12					
® INDICATES PIPE ARCHES FOR WHICH DIMENSIONS FOR EITHER CORRUGATION MAY BE USED WITHIN HEIGHT OF COVER LIMITATIONS. SPAN ▼ SPAN												
A COPY OF THE ORIGINAL SEALED AND SIGNED DRAWING IS ON FILE IN THE CENTRAL OFFICE. SPECIFICATION REFERENCE												
ROAD AND BRID	DGE STANDARDS CORROGATED STEEL PIPE ARCH											
SHEET 5 OF 18	REVISION DATE HEIGHT OF COVER TABLE FOR HL-93 LIVE LOAD VIRGINIA DEPARTMENT OF TRANSPORTATION 232 302											
107.09	107.09 VIRGINIA DEPARTMENT OF TRANSPORTATION											