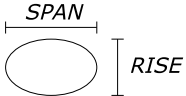
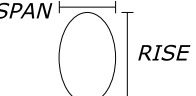


HORIZONTAL INSTALLATION			
EQUIVALENT ROUND SIZE (IN.)	SPAN X RISE (IN.)	MAX. HEIGHT OF COVER IN FEET	
		1 - 13	14 - 21
		HE - III	HE - I V
18	23 x 14		
24	30 x 19		
27	34 x 22		
30	38 x 24		
33	42 x 27		
36	45 x 29	METHOD "A" BEDDING	METHOD "A" BEDDING
39	49 x 32		
42	53 x 34		
48	60 x 38		
54	68 x 43		
60	76 x 48		
66	83 x 53		
72	91 x 58		
78	98 x 63		
84	106 x 68		

VERTICAL INSTALLATION				
SPAN X RISE (IN.)	MAX. HEIGHT OF COVER IN FEET	MAX. HEIGHT OF COVER IN FEET		
		1 - 13	14 - 21	22 - 29
		VE - III	VE - I V	VE - V
29 x 45		METHOD "A" BEDDING	METHOD "A" BEDDING	METHOD "A" BEDDING
32 x 49				
34 x 53				
38 x 60				
43 x 68				
48 x 76				
53 x 83				
58 x 91				
63 x 98				
68 x 106				

ELLIPTICAL CONCRETE PIPE COVER TABLES FOR H-20 LIVE LOAD

Heights of cover shown in table are for finished construction.
 To protect pipe during construction, minimum heights of cover prior to allowing construction traffic to cross installation are to be $\frac{Span}{2}$ or 3.0', whichever is greater. Extend cover the full length of the pipe culvert. The approach fill ramp is to extend a minimum of 10' (Span + 3') on each side of the culvert or to the intersection with a cut. Minimum finished height of cover to be $\frac{Span}{2}$ or 2.0', whichever is greater, except pipe under entrances and median crossovers where a 9" minimum will be permitted.

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ADOPTED FROM:
 VIRGINIA DEPARTMENT OF TRANSPORTATION
 STANDARD PC-1, PAGE 107.06

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION EASTERN FEDERAL LANDS HIGHWAY DIVISION	
U.S. CUSTOMARY DETAIL	
ELLIPTICAL CONCRETE PIPE	
DETAIL APPROVED FOR USE APPROVED : MAY 2011	DETAIL E602-08