PROJECT	SHEET NUMBER	
		l

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

VERTICAL INSTALLATION SPAN RISE					
	MAX. HEIGHT OF COVER IN FEET				
SPAN X RISE (INCH)	1 - 13	14 - 21	22 - 29		
, ,	VE - III	VE - I V	VE - V		
	•				
29 x 45	BEDDING	BEDDING	BEDDING		
32 x 49		" A"	<u>"</u>		
34 x 53	METHOD	МЕТНОБ	метнор		
38 x 60	MET	MET	ME		
43 x 68			1		
48 x 76					
53 x 83					
58 x 91					
63 x 98					
68 x 106			ļ		

## ELLIPTICAL CONCRETE PIPE COVER TABLES FOR H-20 LIVE LOAD

## **NOTES:**

- 1. Cover heights indicated in the Tables are for finished construction.
- 2. To protect pipe during construction, ensure the minimum heights of cover prior to allowing construction traffic to cross installation are  $\frac{1}{2}$  of the span or 3 feet, whichever is greater. Extend cover the full length of the pipe. Extend the approach fill ramp to a minimum of 10 times the span plus 3 feet on each side of the pipe or to the intersection
- 3. Standard minimum finished height of cover for all pipes is  $\frac{1}{2}$  of the span or 2 feet, whichever is greater. In cases in which these cover heights cannot be achieved, an absolute minimum finished cover height of 12 inches will be allowed only if all possible means to obtain the standard height have been exhausted. Ensure minimum finished height of cover for pipes under entrances and median crossovers is 9 inches.
- 4. For flexible pavement and aggregate surface roadways, measure minimum cover from the top of the pipe culvert to the bottom of the roadway subgrade. For rigid pavement measure minimum cover from the top of the pipe culvert to the top of the pavement. For all roadway surface types, measure maximum fill height from the top of the pipe culvert to the top of the pavement.

U.S. DEPARTMENT OF TRANSPORTATION, FHWA OFFICE OF FEDERAL LANDS HIGHWAY EFLHD DETAIL E602-08 SPECIFICATION FP-24, FP-14 **ELLIPTICAL CONCRETE PIPE** APPROVED FOR USE 05/2024

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

NO SCALE