

#### ALLOWABLE BURY DEPTH

CLASS III RCP

Pipe Dlameter (In)	Class R-1 Bedding	Class R-2 Bedding	Class R-3 & R-4 Bedding			
			No Steel	As=0.4%	As=1.0%	
12	7'	10'	15'	19'	27'	
15	8'	10'	16'	19'	27'	
18	8'	1 1'	16'	20'	40'	
21	8'	1 1'	18'	26'	40'	
24	8'	12'	23'	36'	40'	
27	10'	15'	30'	40'	40'	
30	1 1'	15'	29'	40'	40'	
33	1 1'	15'	28'	40'	40'	
36	1 1'	15'	27'	40'	40'	
42	1 1'	15'	26'	38'	40'	
48	1 1'	15'	26'	36'	40'	
54	1 1'	15'	25'	34'	40'	
60	1 1'	15'	25'	33'	40'	
66	1 1'	15'	24'	32'	40'	
72	1 1'	15'	24'	32'	40'	

CLASS	I\/	DCD

P <b>i</b> pe Dlameter	Class R-1	Class R-2 Bedding	Class R-3 & R-4 Bedding			
(in)	Bedding		No Steel	As=0.4%	As=1.0%	
12	12'	15'	23'	28'	40'	
15	12'	16'	23'	30'	40'	
18	13'	16'	29'	40'	40'	
21	13'	18'	40'	40'	40'	
24	16'	23'	40'	40'	40'	
27	19'	30'	40'	40'	40'	
30	19'	29'	40'	40'	40'	
33	19'	28'	40'	40'	40'	
36	19'	28'	40'	40'	40'	
42	18'	27'	40'	40'	40'	
48	18'	26'	40'	40'	40'	
54	18'	25'	40'	40'	40'	
60	18'	25'	40'	40'	40'	
66	18'	25'	40'	40'	40'	
72	18'	24'	40'	40'	40'	
As = Area of Steel Reinforcing						

### CLASS V RCP

Pipe Diameter	Class R-1 Bedding	Class R-2 Bedding	Class R-3 & R-4 Bedding			
(in)			No Steel	As=0.4%	As=1.0%	
12	18'	23'	35'	40'	40'	
15	19'	24'	40'	40'	40'	
18	19'	30'	40'	40'	40'	
21	25'	40'	40'	40'	40'	
24	34'	40'	40'	40'	40'	
27	40'	40'	40'	40'	40'	
30	40'	40'	40'	40'	40'	
33	40'	40'	40'	40'	40'	
36	40'	40'	40'	40'	40'	
42	37'	40'	40'	40'	40'	
48	35'	40'	40'	40'	40'	
54	33'	40'	40'	40'	40'	
60	32'	40'	40'	40'	40'	
66	31'	40'	40'	40'	40'	
72	31'	40'	40'	40'	40'	
As = Area of Steel Reinforcing						

# EXTRA STRENGTH VCP

As = Area of Steel Reinforcing

Plpe	BeddIng Class						
Dia. (in)	R-1	R-2	R-3 & R-4				
	N-1	N-2	No Steel	As=0.4%	As=1.0%		
6	25'	30'	30'	30'	30'		
8	20'	26'	30'	30'	30'		
10	18'	23'	30'	30'	30'		
12	16'	20'	30'	30'	30'		
15	15'	19'	28'	30'	30'		
18	14'	18'	30'	30'	30'		
21	15'	22'	30'	30'	30'		
24	18'	28'	30'	30'	30'		
27	20'	30'	30'	30'	30'		
30	19'	29'	30'	30'	30'		
33	20'	30'	30'	30'	30'		
36	20'	30'	30'	30'	30'		
39	19'	29'	30'	30'	30'		
42	18'	26'	30'	30'	30'		

As = Area of Steel Reinforcing

FIGURE 3010.102

# CONCRETE ARCH PIPE

Plpe Size	Egulv.					
(inch by inch)	Dia. (in)	Plpe Class				
		A-III	A-IV			
18 x 1 1	15	6'	1 1'			
22 x 13	18	6'	1 1'			
26 x 15	21	6'	13'			
29 x 18	24	7'	15'			
36 x 22	30	8'	15'			
44 x 27	36	8'	14'			
51 x 31	42	8'	15'			
58 x 36	48	8'	15'			
65 x 40	54	8'	15'			
73 x 45	60	8'	14'			
88 x 54	72	9'	14'			
Based on Clas	Based on Class R-5 bedding					

### HORIZONTAL ELLIPTICAL RCP

Pipe Size	Equiv. Dla.	Pipe Class		
(in x in)	(In)	HE-III	HE-IV	
14 x 23	18	12'	22'	
19 x 30	24	15'	29'	
22 x 34	27	15'	28'	
24 x 38	30	15'	27'	
27 x 42	33	15'	27'	
29 x 45	36	15'	26'	
32 x 49	39	15'	26'	
34 x 54	42	15'	25'	
38 x 60	48	15'	25'	
43 x 68	54	15'	24'	
48 x 76	60	15'	24'	
53 x 83	66	15'	24'	
58 x 91	72	15'	24'	
63 x 98	78	15'	23'	
68 x 106	84	15'	23'	

# VERTICAL ELLIPTICAL RCP

Plpe Slze	Equiv. Dla.	Pipe Class					
(ín x in)	(In)	VE-III	VE-IV	VE-V	VE-VI		
23 x 14	18	10'	15'	22'	33'		
30 x 19	24	10'	16'	34'	40'		
34 x 22	27	11'	20'	40'	40'		
38 x 24	30	12'	23'	40'	40'		
42 x 27	33	15'	30'	40'	40'		
45 x 29	36	15'	29'	40'	40'		
49 x 32	39	15'	29'	40'	40'		
54 x 34	42	15'	28'	40'	40'		
60 x 38	48	15'	27'	40'	40'		
68 x 43	54	15'	27'	40'	40'		
76 x 48	60	15'	26'	40'	40'		
83 x 53	66	15'	25'	40'	40'		
91 x 58	72	15'	25'	40'	40'		
98 x 63	78	15'	25'	40'	40'		
106 x 68	84	15'	24'	40'	40'		
Based on Clas	Based on Class R-5 bedding						



FIGURE 3010.102 STANDARD ROAD PLAN
SHEET 2 of 2

REVISIONS: Changed title to RCP AND VCP "CIRCULAR" BEDDING. Changed title on bedding Class R-4 from Concrete Arch to Concrete "Top".

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RIGID GRAVITY PIPE TRENCH BEDDING