

EQUIVALENT CIRCULAR PIPE DIAMETER	2 $\frac{2}{3}$ " x $\frac{1}{2}$ " CSPA & CAPA		① CSPA AND 3" x 1" CAPA		6" x 2" CSPA		9"x2 $\frac{1}{2}$ " CAPAASB		RCHEP	
	SPAN (INCH)	RISE (INCH)	SPAN (INCH)	RISE (INCH)	SPAN	RISE	SPAN	RISE	SPAN (INCH)	RISE (INCH)
15"	17	13								
18"	21	15							23	14
21"	24	18								
24"	28	20							30	19
30"	35	24							38	24
36"	42	29							45	29
42"	49	33							53	34
48"	57	38							60	38
54"	64	43	60	46					68	43
60"	71	47	66	51					76	48
66"			73	55	6'-1"	4'-7"			83	53
72"			81	59	6'-9"	4'-11"			91	58
78"			87	63	7'-3"	5'-3"	6'-11"	5'-9"	98	63
84"			95	67	7'-11"	5'-7"	7'-9"	6'-0"	106	68
90"			103	71	8'-7"	5'-11"	8'-5"	6'-3"	113	72
96"			112	75	9'-4"	6'-3"	9'-3"	6'-5"	121	77
102"			117	79	9'-9"	6'-7"	9'-11"	6'-8"	128	82
108"			128	83	10'-8"	6'-11"	10'-9"	6'-10"	136	87
114"			137	87	11'-5"	7'-3"	11'-5"	7'-1"	143	92
120"			142	91	11'-10"	7'-7"	12'-3"	7'-3"	151	97

**CHART KEY**

2 $\frac{2}{3}$ "x $\frac{1}{2}$ " CSPA: CORRUGATED STEEL PIPE ARCH  
 3"x1" OR 5"x1" CSPA: CORRUGATED STEEL PIPE ARCH  
 6"x2" CSPA: CORRUGATED STEEL PIPE ARCH  
 2 $\frac{2}{3}$ "x $\frac{1}{2}$ " CAPA: CORRUGATED ALUMINUM ALLOY PIPE ARCH  
 3"x1" CAPA: CORRUGATED ALUMINUM ALLOY PIPE ARCH  
 9"x2 $\frac{1}{2}$ " CAPAASB: CORRUGATED ALUMINUM ALLOY PIPE ARCH  
 WITH ALUMINUM OR STEEL BOLTS  
 RCHEP: REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE

**~ NOTES ~**

① 3"x1" OR 5"x1"

<b>KENTUCKY DEPARTMENT OF HIGHWAYS</b>	
<b>NON-CIRCULAR PIPE ALTERNATES</b>	
STANDARD DRAWING NO. RDI-016-03	
SUBMITTED <i>William S. Gullett</i>	DATE 12-01-15
<small>DIRECTOR, DIVISION OF DESIGN</small>	
APPROVED <i>[Signature]</i>	DATE 12-01-15
<small>STATE HIGHWAY ENGINEER</small>	