

**AREAS AND HYDRAULIC RADIUS FOR PART FULL FLOW
REINFORCED CONCRETE PIPE ARCH**

Depth (ft)	88" x 54"		102" x 62"		115" x 72"		122" x 78"		138" x 88"		154" x 97"		169" x 107"	
	A	R	A	R	A	R	A	R	A	R	A	R	A	R
0.5	2.1	0.34	2.3	0.34	2.6	0.33	2.8	0.35	3.1	0.34	3.3	0.34	3.4	0.32
1.0	5.5	0.72	6.3	0.72	6.8	0.72	7.2	0.73	8.1	0.74	8.8	0.73	9.3	0.72
1.5	9.2	1.05	10.5	1.08	11.5	1.09	12.1	1.10	13.6	1.12	14.8	1.12	15.8	1.11
2.0	12.8	1.31	14.7	1.37	16.2	1.40	17.2	1.43	19.3	1.46	21.1	1.48	22.6	1.48
2.5	16.2	1.49	18.8	1.59	21.0	1.67	22.2	1.70	25.0	1.76	27.5	1.80	29.6	1.82
3.0	19.4	1.61	22.7	1.75	25.6	1.88	27.2	1.93	30.7	2.01	33.9	2.08	36.6	2.12
3.5	22.2	1.66	26.3	1.86	30.0	2.03	31.9	2.11	36.2	2.22	40.1	2.31	43.5	2.37
4.0	24.4	1.62	29.9	1.90	34.2	2.14	36.5	2.24	41.6	2.39	46.3	2.51	50.4	2.61
4.5	25.7 (F)	1.35 (F)	32.1	1.88	37.9	2.19	40.7	2.32	46.7	2.52	52.2	2.68	57.4	2.79
5.0			34.0	1.73	41.2	2.19	44.5	2.36	51.5	2.61	57.9	2.80	64.4	2.96
5.5			34.2 (F)	1.55 (F)	43.8	2.11	47.8	2.28	55.9	2.65	63.2	2.89	70.1	3.07
6.0					45.2 (F)	1.80 (F)	50.3	2.24	59.8	2.65	68.2	2.94	75.7	3.17
6.5							51.6 (F)	1.93 (F)	63.1	2.58	72.7	2.95	81.0	3.21
7.0									65.4	2.43	76.6	2.92	86.3	3.25
7.5									66.0 (F)	2.17 (F)	79.8	2.81	90.5	3.21
8.0											81.7	2.54	94.7	3.16
8.5											81.8 (F)	2.42 (F)	96.9	2.88
9.0											99.1 (F)	(F)	(F)	(F)

NOTES: A = Area (ft²)

R = Hydraulic Radius (ft)

(F) = Full