



C. F. BIRD & R. J. BULL, INC.
2875 West Dublin-Granville Road
Columbus, Ohio 43235
(614)761-1661

JOB ALC - Zanesville

SHEET NO. _____ OF _____

CALCULATED BY DAD DATE 2/28/97

CHECKED BY _____ DATE 5/7/97 Rev

SCALE _____

Basin Volume

Elev	A (ft ²)	h (ft)	ΔV (ft ³)	ΣV (ft ³)
802	0			0
		1	1228	
803	3683			1228
		1	4174	
804	4666			5402
		1		

Orifice Calculation $Q = .6A\sqrt{2gh}$

$Q_{allow} = 2.74$

Try $d = 6\frac{3}{4}"$

$h = 803.8 - 798.19 - .28 = 5.33'$

$A = .249 \text{ ft}^2$

$Q = 2.77 \text{ cfs } \checkmark$

