ALC- Zanesville

DAD 3/3/97

4/25/97 Rev

STORM VOLUME CALCULATIONS

POST DEVELOPMENT :

AVERAGE $C = \frac{.96(1.37) + .88(.36)}{2.25} = \frac{1.63}{2.25}$

DESIGN STORM = 10 YEAR

DRAINAGE AREA $A =$ 2.25 $C = 0.73$

$CA =$ 1.63

$Q_{out} =$ 2.25 (.36)(3.38) = 2.74 2yr @ 11.6min

TIME T (MIN.)	INTENSITY i (inches per hour)	$Q_i = CAi$ (cfs)	Q_{out} (cfs)	$Q_i - Q_{out}$ (cfs)	REQUIRED STORAGE (cu. ft.)
10	5.13	8.36	2.74	5.62	3372
20	3.71	6.05		3.31	3972 ←
30	2.95	4.81		2.07	3726
40	2.48	4.04		1.30	3120
50					
60					
90					

Req'd Storage = 3972 ft³