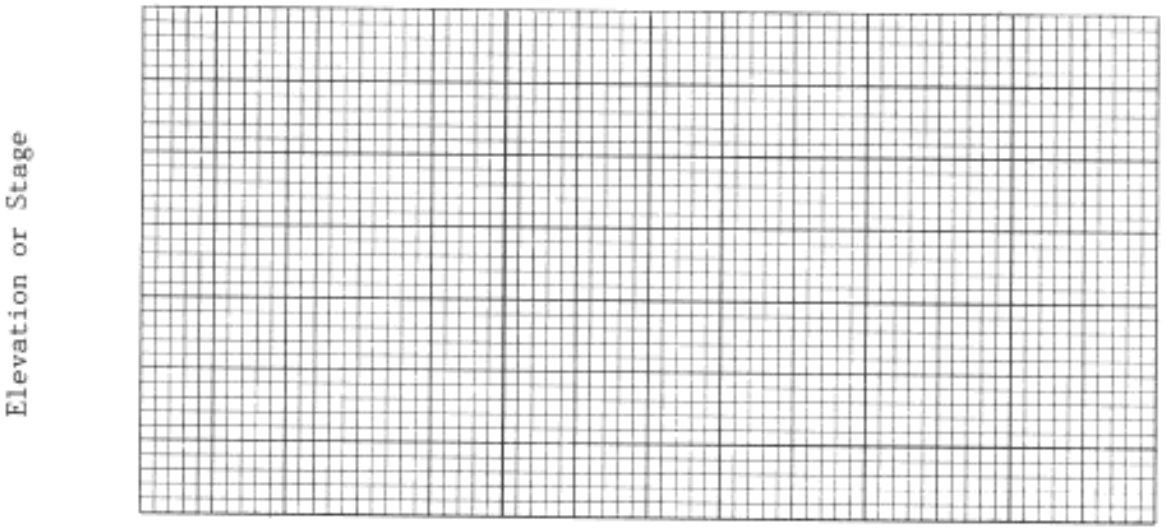
Worksheet 4: Detention basin storage computation

Project _____ By _____ Date _____

Location _____ Checked _____ Date _____

Circle one: Present Developed _____



1. Data:
   Drainage area.....A_m = _____ acre
   Rainfall distribution
   Type II, III = _____

	1st stage	2nd stage
2. Frequency.....yr		
3. Peak inflow discharge, $q_D = q_i$.....cfs (From worksheet 3)		
4. Peak outflow discharge, q_o.....cfs 1/		
5. Compute q_o/q_i.		
6. V_s/V_r ratio... (Use q_o/q_i with figure 6-2)		
7. Runoff volume, V_r.....ac-ft (V_r = Q x 12 x Am)		
8. Storage volume, V_s.....ac-ft (V_s = V_r x Ratio Vs/Vr)		
9. Storage elev. (From plot)		

1/ 2nd stage q_o includes 1st stage q_o.