

DRAINAGE AREA "C" = 0.71 ACRES
 0.02 AC. GRASS (C=0.45)
 0.69 AC. IMPERV. (C=0.95)
 $C_w = 0.94$
 $T_c = 10 \text{ min.}$
 $I_s = 5.34 \quad I_{100} = 8.54$
 $Q_5 = 3.6 \text{ cfs}$
 $Q_{100} = 5.7 \text{ cfs}$
 (EXISTING)

DRAINAGE AREA "A" = 0.77 ACRES
 0.05 AC. GRASS (C=0.45)
 0.72 AC. IMPERV. (C=0.95)
 $C_w = 0.92$
 $T_c = 10 \text{ min.}$ $I_s = 5.34 \quad I_{100} = 8.54$
 $Q = C I A$
 $Q_5 = 3.8 \text{ cfs} \quad Q_{100} = 6.0 \text{ cfs}$
 $2' \times 2' \text{ INLET CAPACITY} = 3.0 \text{ cfs}$
 $@ 0.5' \text{ h} \quad Q = 0.6 \text{ AT } 2' \text{ gh}$
 PER ACPI "DESIGN DATA 4"
 12" RCP OR PVC WILL FLOW 3.6 cfs @ 1.0%

DRAINAGE AREA "B" = 0.37 ACRES
 0.05 AC. GRASS 0.32 AC. IMPERV.
 $C_w = 0.88$
 $T_c = 10 \text{ MIN.}$ $I_s = 5.34 \quad I_{100} = 8.54$
 $Q_5 = 1.7 \text{ cfs} \quad Q_{100} = 2.8 \text{ cfs}$
 PER ACPI
 8" PIPE @ 1.0% WILL FLOW 1.2 cfs
 $Q_p = 70\% \text{ OF } Q_5$

DRAINAGE
 CALCULATIONS
 2-2-04
 JCR

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