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PROJECT 024-034 ZYAIR ESTATES (Hilltop Manor)

DATE 4-8-26

Soil Loss Calculations

Initial Soil Loss Calculation (No Controls)

$$A = 300 (K)(LS)(C)(P)$$

$$K = 0.32 \text{ (SCS CLASSIFICATION MAP)}$$

$$LS = 2.9 \text{ (L = 1000 @ 9.0\%)}$$

$$C = 1 \text{ (NO CONTROLS)}$$

$$P = 1 \text{ (NO CONTROLS)}$$

$$A = 300 (0.32)(2.9)(1)(1) = 278.4 \text{ Tons/AC/yr} > 5 \therefore \text{CONTROLS ARE REQ'D}$$

Soil Loss Calculation (w/ Controls)

$$A = 300 (K)(LS)(C)(P)$$

$$K = 0.32 \text{ (SCS CLASSIFICATION MAP)}$$

$$LS = 0.97 \text{ (1000' @ 9\%)}$$

$$C = 0.06 \text{ (2 TONS Hay/SEED/AC)}$$

$$P = 0.50$$

$$A = (300)(0.32)(0.97)(0.06)(0.5) = 2.77 \text{ Tons/AC/yr} < 5 \checkmark$$