**Date:** 3/27/25 **Permit #** 24-1643 **C&F** 500 ✓

**LOD** 3953 **SF** **IS** 1600 **SF** **I%** 40.47

**Soil Types** B

# Environmental Site Design Plan Review

Determine ESD targets using Environmental Site Design Sizing Criteria per 5.2.2 on page 5.18.

**Pe** = Rainfall Target from Table 5.3 used to determine ESD goals and size practices

(minimum 1", maximum 2.8") If the reduced RCN (per Table 5.3) reflects "woods in good condition" (green) then Cpv has been satisfied.

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**Pe = 1.8** **On the water -Yes ( 1" Pe) or No**

Where multiple soils types are present, RCN is averaged (see example on page 5.23).

40.47

**Rv** = .414 = 0.05 + 0.009(I) where I is percent impervious cover

**Qe** = .745 = Runoff depth in inches that must be treated using ESD practices

1.8 * .414

Pe x Rv; Rv = the dimensionless volumetric runoff coefficient

**ESDv** = Runoff volume (in cubic feet) used in the design of specific ESD practices

1.8 * .414 * 3953 / 12

245.64 = (Pe)(Rv)(A) divided by 12 where A is the drainage area

≈ 246.

ESDv Provided 257.4

Corrections

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NRTD

N2-1 = $1 \times .95 \times 750/12 = 59.37 \approx$ **59.4**

N2-2 = $1 \times .95 \times 1000/12 = 79.16 \approx$ **79.2**

N2-3 = $1 \times .95 \times 1000/12 = 79.16 \approx$ **79.2**

N2-4 = $1 \times .95 \times 500/12 = 39.58 \approx$ **39.6**

**257.4**