Date: 09 / 30 / 25 Permit # 24-0666 C&F 600

Soil Types C LOD 17,468 SF IS 6,415 SF I% 36.72

Soil AVG

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.

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

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

I 36.72

Rv = .3805 = 0.05 + 0.009(I) where I is percent impervious cover

Qe = .3805 = Runoff depth in inches that must be treated using ESD practices

1 * .3805

Pe x Rv; Rv = the dimensionless volumetric runoff coefficient

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

1 * .3805 * 17,468 / 12

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

ESDv Provided= 567.44

Required Corrections----------

[illegible]

Cistern

M1-1 2.8 x .95 x 1542 /12 = [redacted] 341.81cf

Max 1500 / 7.48 = 200.53cf

M1-2 2.8 x .95 x 1232 /12 = [redacted] 273.09cf

Max 1000 / 7.48 = 133.68cf

Rooftop Disconnect

N1-1 [redacted] 1/75 = .0133 x 66 = .79pc

.8 x .95 x 315/12 = 19.95cf

Slope = 8.3 - 7.0 = 1.3 / 60 = 2.1%

N1-2 [redacted] 1/75 = .0133 x 52 = .6933pc

.69 x .95 x 254/12 = 13.87cf

Slope = 8.3 - 7.0 = 1.3 / 52 = 2.5%

N1-3 [redacted] 1/75 = .0133 x 47 = .6266pc

.63 x .95 x 498/12 = 24.83cf

Slope = 8.3 - 7.0 = 1.3 / 47 = 2.7%

N1-4 [redacted] 1/75 = .0133 x 50 = .666pc

.67 x .95 x 278/12 = 14.74cf

Slope = 9.0 - 7.0 = 2.0 / 50 = 4%

Non-rooftop Disconnect

N2-1 1 x .95 x 488/12 = 38.63cf Slope = 5.8 - 5.7 = .1 = 1.0 / 10 = .1%

N2-2 1 x .95 x 484/12 = 38.32cf Slope = 6.3 - 6.2 = .1 = 1.0 / 10 = .1%

N2-3 [redacted] 24/30 = 0.8pc

.8 x .95 x 701/12 = 44.39cf Slope = 8.3 - 7.0 = 1.3 = 1.3/24 = 5.41%

N2-4 24/30 = 0.80pc

.8 x 95 x 608/12 = 38.50cf Slope = 8.3 - 7.0 = 1.3 = 1.3/24 = 5.41%
