Milo Residence
11901 S.W. 63rd Avenue
Pinecrest, FL 33156

Revised
August 22, 2025

Project Description

Construction of a one-story single-family home with a pool, pool deck, walkways and driveways on an existing vacant lot. Storm water will be retained on site.

Existing conditions

Total Site Area: 40,118 sf

Impervious Area:	0 sf = 0.00%
Pervious Area:	40,118 sf = 100.00%
	100.00%

Proposed Site Distribution

Total Site Area: 40,118 sf

Roof Area:	8,337 sf / 42,253 = 20.78%
Driveways, walkways & equip. pads:	3,342 sf / 42,253 = 8.33%
Pool & Pool Deck:	2,249 sf/ 42,253 = 5.60%
Pervious Area:	26,190 sf / 42,253 = 65.29%
	100.00%

Required Storage

Rainfall amount (P) = 9.5" (from SFWMD Manual)
Average October water table level = 3.00' NGVD
Average pervious elevation 17.50'
Depth to water table 17.50' - 3.00' = 14.50'
Compacted soil storage = 8.175" (from SFWMD Manual)

Existing Conditions

S = (Pervious Area / Site Area) x (Compacted Soil Storage)
S = (40,118 / 40,118) x 8.175
S = 1 x 8.175
S = 8.175"

Runoff (R) = $(P - 0.2S)^2 / (P + 0.8S)$
R = $(9.5 – 0.2(8.175))^2 / (9.5 + 0.8(8.175))$
R = $(9.5 – 1.635)^2 / (9.5+6.54)$
R = $(7.865)^2 / 16.04$
R = 61.86 / 16.04
R = 3.86"

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Volume of Runoff (V)
V = (A x R) / 12
V = (40,118 x 3.86) /12
V = 12,904.62 cf

Proposed Conditions

S = (Pervious Area / Site Area) x (Compacted Soil Storage)
S = (26,190 / 40,118) 8.175
S = 0.65 x 8.175
S = 5.34”

Runoff (R) = $(P – 0.2S)^2 / (P + 0.8S)$
R = $(9.5 – 0.2(5.34))^2 / (9.5 + 0.8(5.34))$
R = $(9.5 – 1.068)^2 / (9.5 + 4.27)$
R = $(8.432)^2 / 13.77$
R = 71.10 / 13.77
R = 5.16”

Volume of Runoff (V)
V = (A x R) / 12
V = (40,118 x 5.16) / 12
V = 17,250.74 cf

Difference in Runoff Proposed and Existing

17,250.74 cf – 12,904.62 cf = 4,346.12 cf
1.0” x 40,118 sf / 12” = 3,343.17 cf
2.5” x 13,928 sf / 12” = 2,901.67 cf

Provided Site Storage (Refer to Stormwater Retention Summary on sheet G1.1)

Catchment Area Storage ((Top Area + Bottom Area) / 2) x Depth of Area
Depth of Areas, varies – refer to plan

Total on site storage provided (Areas 1 to 7) = **4,525.00 cf**

4,525.00 cf > 4,346.12 cf

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