

# Stormwater Detention and Infiltration Design Data Sheet

Workbook Protected

Worksheet Protected

**Stormwater Facility Name:** Windermere Subdivision - South Pond

**Facility Location & Jurisdiction:** Marksheffel Rd. & N. Carefree Cir.

**User Input: Watershed Characteristics**

Watershed Slope =	<input type="text" value="0.060"/>	ft/ft
Watershed Length =	<input type="text" value="770"/>	ft
Watershed Area =	<input type="text" value="10.00"/>	acres
Watershed Imperviousness =	<input type="text" value="61.6%"/>	percent
Percentage Hydrologic Soil Group A =	<input type="text" value="100.0%"/>	percent
Percentage Hydrologic Soil Group B =	<input type="text" value="0.0%"/>	percent
Percentage Hydrologic Soil Groups C/D =	<input type="text" value="0.0%"/>	percent

Location for 1-hr Rainfall Depths (use dropdown):

▼

WQCV Treatment Method =  ▼

User Defined Stage [ft]	User Defined Area [ft^2]	User Defined Stage [ft]	User Defined Discharge [cfs]
0.00	40	0.00	0.00
0.50	40	0.50	0.03
1.50	4,047	1.50	0.05
2.50	4,744	2.50	0.09
3.50	5,413	3.50	0.13
4.50	6,058	4.50	0.18
5.50	6,715	5.50	0.23
6.50	7,370	6.50	0.26
7.50	8,037	7.50	0.29
8.50	9,445	8.50	0.31
9.50	10,731	9.50	5.36
10.50	12,088	10.50	48.18
11.50	13,493	11.50	153.44

After completing and printing this worksheet to a pdf, go to:  
<https://maperture.digitaldataservices.com/gvh/?viewer=cswdif>  
 create a new stormwater facility, and  
 attach the pdf of this worksheet to that record.

**Routed Hydrograph Results**

	WQCV	2 Year	5 Year	10 Year	50 Year	100 Year	
Design Storm Return Period =							
One-Hour Rainfall Depth =	0.53	1.19	1.50	1.75	2.25	2.52	in
Calculated Runoff Volume =	0.201	0.517	0.676	0.825	1.209	1.447	acre-ft
OPTIONAL Override Runoff Volume =							acre-ft
Inflow Hydrograph Volume =	0.201	0.516	0.675	0.824	1.209	1.446	acre-ft
Time to Drain 97% of Inflow Volume =	36.0	57.3	63.9	69.4	79.0	77.5	hours
Time to Drain 99% of Inflow Volume =	37.4	60.5	68.0	74.2	85.6	85.3	hours
Maximum Ponding Depth =	2.86	5.17	6.15	7.01	8.72	9.24	ft
Maximum Ponded Area =	0.11	0.15	0.16	0.18	0.22	0.24	acres
Maximum Volume Stored =	0.188	0.492	0.647	0.790	1.131	1.248	acre-ft

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