

Stormwater Detention and Infiltration Design Data Sheet

Worksheet Protected

Stormwater Facility Name:**Facility Location & Jurisdiction:**

User (Input) Watershed Characteristics

Watershed Slope =	0.010	ft/ft
Watershed Length-to-Width Ratio =	2.00	L:W
Watershed Area =	76.53	acres
Watershed Imperviousness =	27.0%	percent
Percentage Hydrologic Soil Group A =	0.0%	percent
Percentage Hydrologic Soil Group B =	100.0%	percent
Percentage Hydrologic Soil Groups C/D =	0.0%	percent
Location for 1-hr Rainfall Depths (use dropdown):		
User Input		▼

User Input: Detention Basin Characteristics

WQCV Design Drain Time =	40.00	hours
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[illegible]

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

Design Storm Return Period =	WQCV	2 Year	5 Year	10 Year	25 Year	50 Year	100 Year	
One-Hour Rainfall Depth =	0.53	1.19	1.50	1.75	2.00	2.25	2.52	in
Calculated Runoff Volume =	0.894	1.647	3.190	4.638	7.018	8.821	10.918	acre-ft
OPTIONAL Override Runoff Volume =								acre-ft
Inflow Hydrograph Volume =	0.894	1.646	3.189	4.638	7.013	8.813	10.912	acre-ft
Time to Drain 97% of Inflow Volume =	39	55	65	63	59	56	54	hours
Time to Drain 99% of Inflow Volume =	41	58	71	70	68	67	66	hours
Maximum Ponding Depth =	2.46	3.12	3.90	4.32	4.88	5.29	5.70	ft
Maximum Poned Area =	0.905	1.291	1.748	1.876	1.993	2.077	2.164	acres
Maximum Volume Stored =	0.831	1.556	2.738	3.505	4.595	5.418	6.297	acre-ft

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