

# Stormwater Detention and Infiltration Design Data Sheet

Workbook Protected

Worksheet Protected

**Stormwater Facility Name:** Bradley Storage EDB

**Facility Location & Jurisdiction:** Tract C Bradley Storage - El Paso County

**User Input: Watershed Characteristics**

Watershed Slope =  ft/ft  
 Watershed Length =  ft  
 Watershed Area =  acres  
 Watershed Imperviousness =  percent  
 Percentage Hydrologic Soil Group A =  percent  
 Percentage Hydrologic Soil Group B =  percent  
 Percentage Hydrologic Soil Groups C/D =  percent

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

User Input

WQCV Treatment Method =



User Defined Stage [ft]	User Defined Area [ft^2]	User Defined Stage [ft]	User Defined Discharge [cfs]
0.00	35	0.00	0.00
0.20	145	0.20	0.02
0.40	321	0.40	0.02
0.60	386	0.60	0.03
0.80	455	0.80	0.03
1.00	768	1.00	0.04
1.20	1,239	1.20	0.04
1.40	1,596	1.40	0.05
1.60	2,187	1.60	0.07
1.80	3,359	1.80	0.08
2.00	6,221	2.00	0.09
2.20	9,065	2.20	0.09
2.40	12,507	2.40	0.10
2.60	16,548	2.60	0.11
2.80	20,946	2.80	0.15
3.00	25,103	3.00	0.19
3.20	25,995	3.20	0.22
3.40	32,619	3.40	0.25
3.60	33,392	3.60	0.27
3.80	34,164	3.80	0.29
4.00	34,936	4.00	0.30
4.20	35,706	4.20	0.32
4.40	36,476	4.40	2.94
4.60	37,235	4.60	3.91
4.80	38,105	4.80	6.41
5.00	38,783	5.00	16.89
5.20	39,551	5.20	32.39
5.40	40,392	5.40	52.12
5.60	40,962	5.60	75.75
5.80	41,725	5.80	103.13
6.00	42,491	6.00	134.16
6.20	43,258	6.20	168.82
6.40	44,028	6.40	207.07

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 =	0.313	0.823	1.067	1.285	1.731	1.996	acre-ft
OPTIONAL Override Runoff Volume =							acre-ft
Inflow Hydrograph Volume =	0.313	0.822	1.067	1.284	1.731	1.995	acre-ft
Time to Drain 97% of Inflow Volume =	38.2	62.3	71.4	78.8	80.2	79.5	hours
Time to Drain 99% of Inflow Volume =	40.3	66.4	76.0	83.9	86.2	86.0	hours
Maximum Ponding Depth =	2.78	3.56	3.87	4.13	4.45	4.64	ft
Maximum Poned Area =	0.47	0.76	0.79	0.81	0.84	0.86	acres
Maximum Volume Stored =	0.289	0.776	1.014	1.224	1.486	1.653	acre-ft

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