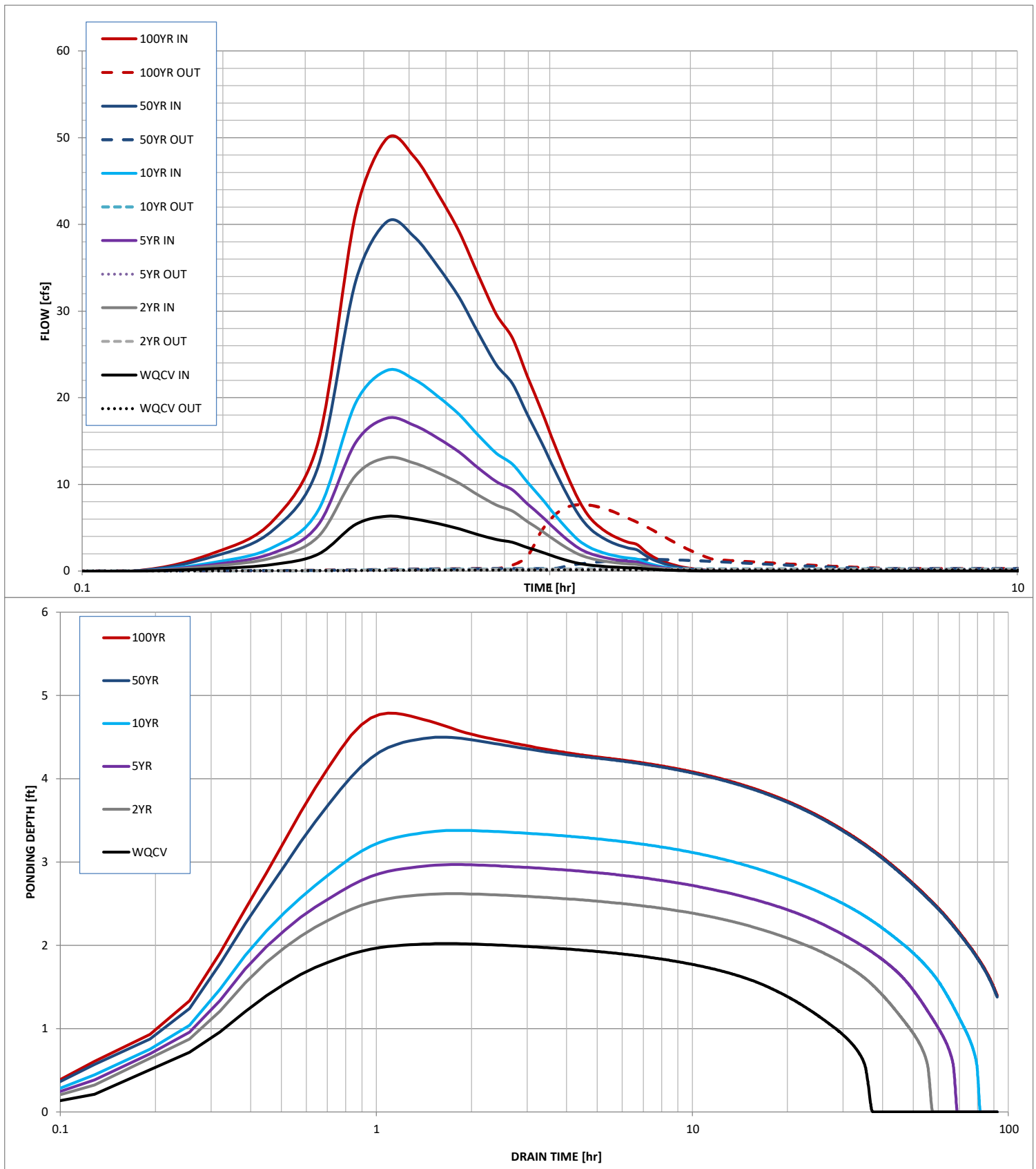


Stormwater Detention and Infiltration Design Data Sheet



Stormwater Detention and Infiltration Design Data Sheet

Workbook Protected

Worksheet Protected

Stormwater Facility Name: Pond C - Interim

Facility Location & Jurisdiction: Falcon Field Filing 1 - El Paso County

User Input: Watershed Characteristics

Watershed Slope =	0.040	ft/ft
Watershed Length =	1200	ft
Watershed Area =	22.69	acres
Watershed Imperviousness =	30.3%	percent
Percentage Hydrologic Soil Group A =	50.0%	percent
Percentage Hydrologic Soil Group B =	50.0%	percent
Percentage Hydrologic Soil Groups C/D =	0.0%	percent

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

User Input ▼

WQCV Treatment Method = Extended Detention ▼

User Defined Stage [ft]	User Defined Area [ft^2]	User Defined Stage [ft]	User Defined Discharge [cfs]
0.00	40	0.00	0.00
0.25	360	0.25	0.02
0.50	680	0.50	0.03
0.75	1,000	0.75	0.04
1.00	1,320	1.00	0.05
1.25	5,197	1.25	0.05
1.50	9,075	1.50	0.08
1.75	12,952	1.75	0.10
2.00	16,829	2.00	0.11
2.25	18,983	2.25	0.12
2.50	21,137	2.50	0.13
2.75	23,292	2.75	0.16
3.00	25,446	3.00	0.18
3.25	26,202	3.25	0.20
3.50	26,959	3.50	0.21
3.75	27,715	3.75	0.36
4.00	28,472	4.00	0.43
4.25	29,228	4.25	0.48
4.50	29,984	4.50	0.53
4.75	30,741	4.75	0.57
5.00	31,497	5.00	0.61
5.25	32,254	5.25	4.67
5.50	33,010	5.50	12.07
5.75	33,767	5.75	21.63
6.00	34,523	6.00	43.58
6.25	35,661	6.25	87.54
6.50	36,800	6.50	139.80
6.75	37,584	6.75	195.59
7.00	38,369	7.00	260.72
7.25	39,153	7.25	334.78
7.50	39,938	7.50	417.40

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 =	0.53	0.95	1.22	1.48	2.19	2.54	in
One-Hour Rainfall Depth =	0.288	0.401	0.564	0.824	1.884	2.544	acre-ft
Calculated Runoff Volume =							acre-ft
OPTIONAL Override Runoff Volume =							acre-ft
Inflow Hydrograph Volume =	0.288	0.400	0.564	0.824	1.883	2.543	hours
Time to Drain 97% of Inflow Volume =	39.6	49.8	62.8	78.7	>98	>98	hours
Time to Drain 99% of Inflow Volume =	41.6	52.4	66.0	82.9	>98	>98	hours
Maximum Ponding Depth =	2.13	2.38	2.70	3.15	4.72	5.31	ft
Maximum Ponded Area =	0.41	0.46	0.52	0.59	0.70	0.74	acres
Maximum Volume Stored =	0.272	0.381	0.541	0.799	1.816	2.238	acre-ft

Stormwater Detention and Infiltration Design Data Sheet

