

August 24, 2026

Department of Public Works – Stormwater Section
El Paso County

Re: Space Village Road Outdoor Storage; PPR233, CON2429, ESQ2430

To the Department of Public Works, Stormwater Section:

The site and adjacent properties (as affected by work performed under the County permit) are stable with respect to settlement and subsidence, and sloughing of cut and fill slopes - only as determined by a review of the constructed slopes represented by the as-built survey and indicated as as-built on the *Space Village Filing No. 4, Grading & Erosion Plan – As-Built (AS-BUILT)*. In addition, the improvements (indicated as as-built on the *AS-BUILT*) meet or exceed the minimum design requirements as represented on the approved *Space Village Filing No. 4, Grading & Erosion Control Plan*, except as otherwise noted below.

The emergency spillways and level spreaders associated with the two infiltration ponds represented by the as-built survey and indicated as as-built on the *AS-BUILT*, have been constructed in accordance with the design intent of the construction documents.

The constructed detention and stormwater quality facilities represented by the as-built survey and indicated as as-built on the *AS-BUILT*, provide the required storage volume and will meet the required release rates, as documented by the attached Mile High Flood District, *Stormwater Detention and Infiltration Design Data Sheet(s)*, except as otherwise noted below.

- Although most of the pond side slopes are shallower than 3:1, there are a few areas with the side slopes of each pond that exceed 3:1 (no steeper than 1.75:1). Erosion control blankets will be installed prior to seeding in order to help establish vegetation within the pond areas.
- The East Pond will drain the WQCV in approximately 12.4 hours rather than the target of 12 hours.
- The West Pond volume is 2,243 CY, which is 94% of the design capacity. The pond is capable of infiltrating the 100 year without activating the emergency spillway (see attached SDI sheet).

Respectfully,

FARNSWORTH GROUP, INC.

Ryan J. Loftus, PE
Engineering Manager



8/24/26

SPI-Design Data v2.00, Released January 2020

Facility Location & Jurisdiction: **Lot 2, Block 1, Space Village Filing No. 4., El Paso County, CO**

Sand Filter (SF)	SF	
Watershed Area =	9.45	acres
Watershed Length =	750	ft
Watershed Length to Centroid =	375	ft
Watershed Slope =	0.025	ft/ft
Watershed Imperviousness =	70.0%	percent
Percentage Hydrologic Soil Group A =	100.0%	percent
Percentage Hydrologic Soil Group B =	0.0%	percent
Percentage Hydrologic Soil Groups C/D =	0.0%	percent
Target WQCV Drain Time =	12.0	hours

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

User Input

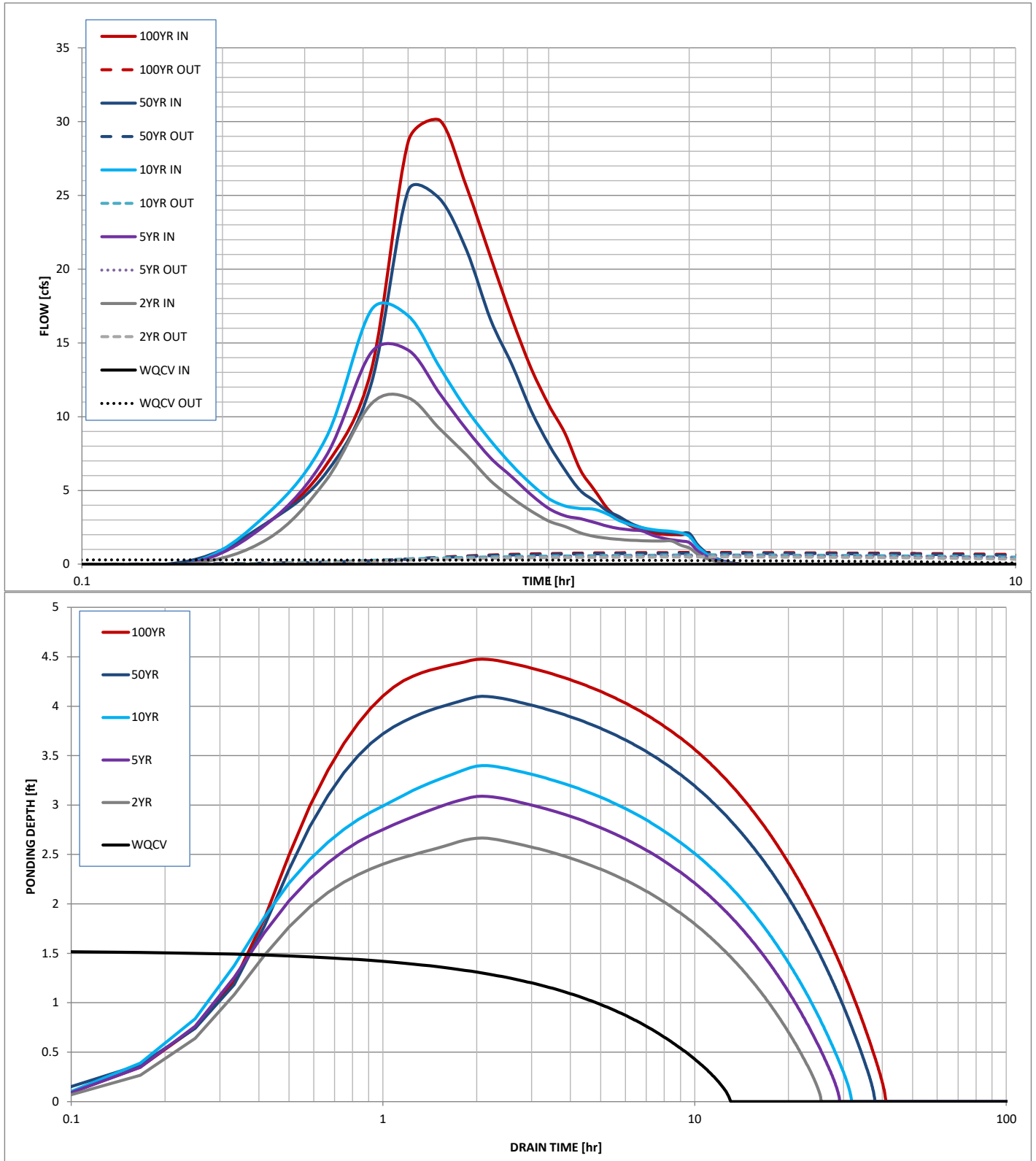
Once CUHP has been run and the Stage-Area-Discharge information has been provided, click 'Process Data' to interpolate the Stage-Area-Volume-Discharge data and generate summary results in the table below. Once this is complete, click 'Print to PDF'.

[illegible]

Create a new stormwater facility, and attach the PDF of this worksheet to that record.

	WQCV	2 Year	5 Year	10 Year	50 Year	100 Year	
Design Storm Return Period =							
One-Hour Rainfall Depth =	N/A	1.19	1.50	1.75	2.25	2.52	in
CUHP Runoff Volume =	0.173	0.585	0.764	0.907	1.263	1.474	acre-ft
Inflow Hydrograph Volume =	N/A	0.585	0.764	0.907	1.263	1.474	acre-ft
Time to Drain 97% of Inflow Volume =	11.6	22.0	25.2	27.3	32.3	35.0	hours
Time to Drain 99% of Inflow Volume =	12.4	23.8	27.3	29.7	35.1	38.0	hours
Maximum Ponding Depth =	1.53	2.67	3.09	3.40	4.10	4.48	ft
Maximum Poned Area =	0.22	0.37	0.42	0.45	0.52	0.57	acres
Maximum Volume Stored =	0.173	0.512	0.679	0.814	1.155	1.359	acre-ft

Stormwater Detention and Infiltration Design Data Sheet



SPI-Design Data v2.00, Released January 2020

Facility Location & Jurisdiction: **Lot1, Block 1, Space Village Filing No. 4, El Paso County, CO**

Sand Filter (SF)	SF	
Watershed Area =	10.95	acres
Watershed Length =	750	ft
Watershed Length to Centroid =	375	ft
Watershed Slope =	0.026	ft/ft
Watershed Imperviousness =	68.0%	percent
Percentage Hydrologic Soil Group A =	100.0%	percent
Percentage Hydrologic Soil Group B =	0.0%	percent
Percentage Hydrologic Soil Groups C/D =	0.0%	percent
Target WQCV Drain Time =	12.0	hours

User Input

Once CUHP has been run and the Stage-Area-Discharge information has been provided, click 'Process Data' to interpolate the Stage-Area-Volume-Discharge data and generate summary results in the table below. Once this is complete, click 'Print to PDF'.

[illegible]

<https://maperture.digitaldataservices.com/qvh/?viewer=cswdif>

Create a new stormwater facility, and attach the PDF of this worksheet to that record.

	WQCV	2 Year	5 Year	10 Year	50 Year	100 Year	
Design Storm Return Period =							
One-Hour Rainfall Depth =	N/A	1.19	1.50	1.75	2.25	2.52	in
CUHP Runoff Volume =	0.194	0.652	0.853	1.014	1.420	1.663	acre-ft
Inflow Hydrograph Volume =	N/A	0.652	0.853	1.014	1.420	1.663	acre-ft
Time to Drain 97% of Inflow Volume =	2.8	5.9	6.8	7.5	9.0	9.9	hours
Time to Drain 99% of Inflow Volume =	2.9	6.3	7.3	8.0	9.7	10.6	hours
Maximum Ponding Depth =	1.00	1.52	1.88	2.15	2.88	3.31	ft
Maximum Poned Area =	0.35	0.43	0.46	0.48	0.54	0.57	acres
Maximum Volume Stored =	0.195	0.406	0.570	0.697	1.068	1.303	acre-ft

Stormwater Detention and Infiltration Design Data Sheet

