



El Paso County MS4 Post Construction Detention / Water Quality Facility Documentation Form

This document **must be completed and submitted** with required attachments to the County for projects requiring a detention and/or a water quality facility. A separate completed form must be submitted for each facility.

Project name: Monument Academy **Pond C14**

Owner name: Monument Academy Foundation

Location Address:

SE of SH83 & Walker Road

Latitude and Longitude:

Lat 39 deg 05' 59" N; Long 104 deg 45' 59" W

Assessor's Parcel #: 61000-00-245 Section: 15 Township: 11S Range: 66W

Expected Completion date: May 2020

Project acreage: 64.1 Design Ponding Acres: 0.33 Design Storm: 100-Year

18.1 Ac. contr.

Design Engineer Email Address: john@jpsengr.com

To ensure compliance with C.R.S. 37-92-602(8), the completed Stormwater Detention and Infiltration Design Data Sheet **must be attached**. The form can be found here: <https://maperture.digitaldataservices.com/gvh/?viewer=cswdif#> (click on Download SDI Design Data Sheet)

List all permanent water quality control measure(s) (EDBs, rain gardens, etc):

Extended Detention Basin (EDB) - Detention Pond C14

For all projects for which the constrained redevelopment sites standard is applied, provide an explanation of why it is not practicable to meet the full design standards. N/A

Attach Operations and Maintenance (O&M) Plan describing the operation and maintenance procedures that ensure the long-term observation, maintenance, and operation of control measure(s), including routine inspection frequencies and maintenance activities. If multiple, different water quality control measures are used at the same location, a separate O & M Plan must be provided for each facility.

Attach Private Detention Basin / Stormwater Quality Best Management Practice Maintenance Agreement and Easement addressing maintenance of BMPs that shall be binding on all subsequent owners of the permanent BMPs.

Attachments:

Stormwater Detention and Infiltration Design Data Sheet
O & M Plan

Review Engineer

EPC Project File No.

CDR 19-001

Stormwater Detention and Infiltration Design Data Sheet

Worksheet Protected

Watershed Slope =	0.043	ft/ft
Watershed Length =	1650	ft
Watershed Area =	18.14	acres
Watershed Imperviousness =	25.9%	percent
Percentage Hydrologic Soil Group A =		percent
Percentage Hydrologic Soil Group B =	100.0%	percent
Percentage Hydrologic Soil Groups C/D =		percent

User Input

WQCV Treatment Method = Extended Detention

[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	50 Year	100 Year	
One-Hour Rainfall Depth =	0.60	1.19	1.50	1.75	2.25	2.52	in
Calculated Runoff Volume =	0.208	0.359	0.517	0.823	1.876	2.418	acre-ft
OPTIONAL Override Runoff Volume =							acre-ft
Inflow Hydrograph Volume =	0.208	0.359	0.517	0.823	1.875	2.417	acre-ft
Time to Drain 97% of Inflow Volume =	43.8	51.7	57.3	64.6	55.0	51.2	hours
Time to Drain 99% of Inflow Volume =	48.0	57.2	63.9	72.9	67.6	65.4	hours
Maximum Ponding Depth =	1.93	2.94	3.85	5.07	6.40	6.98	ft
Maximum Poned Area =	0.14	0.14	0.19	0.26	0.31	0.33	acres
Maximum Volume Stored =	0.191	0.331	0.482	0.752	1.125	1.313	acre-ft

Stormwater Detention and Infiltration Design Data Sheet

