

5/30/2019 4:26:34 PM (1)

**Subject:** Engineer  
**Page Label:** 5  
**Author:** dsdgrimm  
**Date:** 5/30/2019 4:26:34 PM  
**Color:** ■

Property assessor's shows 5.01 acres. Please revise.

5/30/2019 4:29:46 PM (1)

**Subject:** Engineer  
**Page Label:** 5  
**Author:** dsdgrimm  
**Date:** 5/30/2019 4:29:46 PM  
**Color:** ■


A gravel driving area is being placed in the storage area. Mention this in the report.

5/30/2019 4:35:05 PM (1)

**Subject:** Engineer  
**Page Label:** 33  
**Author:** dsdgrimm  
**Date:** 5/30/2019 4:35:05 PM  
**Color:** ■


Based on previous site visits, it does not appear that this swale exists.

5/30/2019 5:16:45 PM (1)

**Subject:** Engineer  
**Page Label:** 6  
**Author:** dsdgrimm  
**Date:** 5/30/2019 5:16:45 PM  
**Color:** 


Based on the drainage map it appears that PLD is in Basin A2

5/30/2019 5:17:33 PM (1)

**Subject:** Engineer  
**Page Label:** 6  
**Author:** dsdgrimm  
**Date:** 5/30/2019 5:17:33 PM  
**Color:** 


Include the gravel drive area in this drainage basin.

5/30/2019 5:17:49 PM (1)

**Subject:** Engineer  
**Page Label:** 6  
**Author:** dsdgrimm  
**Date:** 5/30/2019 5:17:49 PM  
**Color:** 

How is the proposed gravel drive area treated through the PLDs? Please clarify the increased runoff from the gravel area.

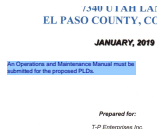
5/30/2019 5:21:01 PM (1)

**Subject:** Engineer  
**Page Label:** 7  
**Author:** dsdgrimm  
**Date:** 5/30/2019 5:21:01 PM  
**Color:** 

Identify how the proposed gravel drive area in the western portion of lot will be treated.

This area will be treated by natural vegetation

5/30/2019 6:24:03 PM (1)

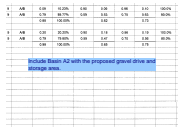


**Subject:** Engineer  
**Page Label:** 1  
**Author:** dsdgrimm  
**Date:** 5/30/2019 6:24:03 PM  
**Color:** ■

This was discussed  
at our meeting

An Operations and Maintenance Manual must be submitted for the proposed PLDs.  
Will be included with this submittal

5/30/2019 6:25:25 PM (1)

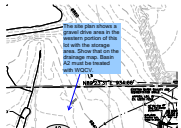


**Subject:** Engineer  
**Page Label:** 21  
**Author:** dsdgrimm  
**Date:** 5/30/2019 6:25:25 PM  
**Color:** ■

This was discussed  
at our meeting

Include Basin A2 with the proposed gravel drive and storage area.  
The revised gravel drive is included and shown on the plan

5/30/2019 6:26:01 PM (1)



**Subject:** Engineer  
**Page Label:** 33  
**Author:** dsdgrimm  
**Date:** 5/30/2019 6:26:01 PM  
**Color:** ■

This was discussed  
at our meeting

The site plan shows a gravel drive area in the western portion of this lot with the storage area. Show that on the drainage map. Basin A2 must be treated with WQCV.  
The 40'x24' gravel drive is shown in basin A2, WQ is discussed in report

6/25/2019 4:37:48 PM (1)

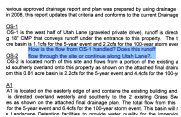
Add PCD File #

**Subject:** PCD File #  
**Page Label:** 1  
**Author:** Lindsay Darden  
**Date:** 6/25/2019 4:37:48 PM  
**Color:** ■

This was discussed  
at our meeting

Add PCD File #  
The PDD File #PPR 19-024 has been added

6/3/2019 1:21:59 PM (1)



**Subject:** Engineer  
**Page Label:** 6  
**Author:** dsdgrimm  
**Date:** 6/3/2019 1:21:59 PM  
**Color:** ■

This was discussed  
at our meeting

How is the flow from OS-1 handled? Does this runoff flow through the site or continue along Utah Lane?.

6/3/2019 1:26:14 PM (1)



**Subject:** Engineer  
**Page Label:** 7  
**Author:** dsdgrimm  
**Date:** 6/3/2019 1:26:14 PM  
**Color:** ■

This was discussed  
at our meeting

How is the existing gravel lot being treated? Please clarify.  
Flow continues along Utah Ln, clarified in report

6/3/2019 10:02:41 AM (1)



**Subject:** Engineer  
**Page Label:** 24  
**Author:** dsdgrimm  
**Date:** 6/3/2019 10:02:41 AM  
**Color:** ■

Provide a legend for the line types  
Called out line designations on the sheet

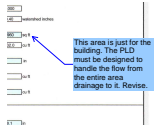
6/3/2019 10:04:23 AM (1)



**Subject:** Engineer  
**Page Label:** 33  
**Author:** dsdgrimm  
**Date:** 6/3/2019 10:04:23 AM  
**Color:** ■

The bold text needs to be more legible, typical all.  
This has been fixed

6/3/2019 10:05:45 AM (1)



**Subject:** Engineer  
**Page Label:** 28  
**Author:** dsdgrimm  
**Date:** 6/3/2019 10:05:45 AM  
**Color:** ■

This was discussed  
at our meeting

This area is just for the building. The PLD must be designed to handle the flow from the entire area drainage to it. Revise.  
The PLD's are for only the building and Concrete pads

6/3/2019 10:12:58 AM (1)



**Subject:** Engineer  
**Page Label:** 35  
**Author:** dsdgrimm  
**Date:** 6/3/2019 10:12:58 AM  
**Color:** ■

These depths do not match. Revise to the correct depth. Design sheet shows 8".  
Discussed at our meeting and it is OK

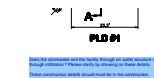
6/3/2019 10:16:09 AM (1)



**Subject:** Engineer  
**Page Label:** 36  
**Author:** dsdgrimm  
**Date:** 6/3/2019 10:16:09 AM  
**Color:** ■

These depths do not match. Revise to the correct depth. Design sheet shows 8".  
Discussed at our meeting and it is OK

6/3/2019 11:23:48 AM (1)



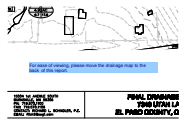
**Subject:** Engineer  
**Page Label:** 37  
**Author:** dsdgrimm  
**Date:** 6/3/2019 11:23:48 AM  
**Color:** ■

This was discussed  
at our meeting

Const. drawings will  
be separate set

Does the stormwater exit the facility through an outlet structure or through infiltration? Please clarify by showing on these details. Infiltration Discussed in report & on shown Const. Plans  
These construction details should must be in the construction drawings, not in the drainage report.

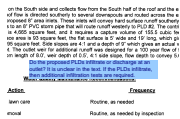
6/3/2019 11:37:37 AM (1)



**Subject:** Engineer  
**Page Label:** 33  
**Author:** dsdgrimm  
**Date:** 6/3/2019 11:37:37 AM  
**Color:** ■

For ease of viewing, please move the drainage map to the back of this report.  
Moved to back of report

6/3/2019 8:15:26 AM (1)

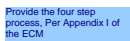


**Subject:** Engineer  
**Page Label:** 7  
**Author:** dsdgrimm  
**Date:** 6/3/2019 8:15:26 AM  
**Color:** ■

This was discussed  
at our meeting

Do the proposed PLDs infiltrate or discharge at an outlet? It is unclear in the text. If the PLDs infiltrate, then additional infiltration tests are required.  
Infiltrate, discussed in report and shown on const. plans

6/3/2019 8:16:31 AM (1)

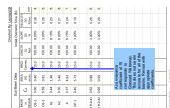


**Subject:** Engineer  
**Page Label:** 8  
**Author:** dsdgrimm  
**Date:** 6/3/2019 8:16:31 AM  
**Color:** ■

This was discussed  
at our meeting

Provide the four step process, Per Appendix I of the ECM  
Four step process included in report

6/3/2019 8:27:40 AM (1)



**Subject:** Engineer  
**Page Label:** 20  
**Author:** dsdgrimm  
**Date:** 6/3/2019 8:27:40 AM  
**Color:** ■

A conveyance coefficient of 15 corresponds to Grassed Waterway. This does not seem accurate for all of the basins. Revise with appropriate coefficients.  
Discussed this at our meeting and agreed that 15 is appropriate for this report

6/3/2019 9:02:55 AM (1)

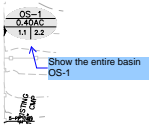


**Subject:** Polylength Measurement  
**Page Label:** 33  
**Author:** dsdgrimm  
**Date:** 6/3/2019 9:02:55 AM  
**Color:** ■

98'-7"

Scale is 1" = 100', fixed bar scale

6/3/2019 9:04:44 AM (1)

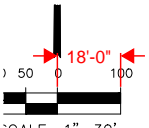


**Subject:** Engineer  
**Page Label:** 33  
**Author:** dsdgrimm  
**Date:** 6/3/2019 9:04:44 AM  
**Color:** ■

Show the entire basin OS-1

All of basin OS-1 is shown

6/3/2019 9:06:38 AM (1)



**Subject:** Length Measurement  
**Page Label:** 33  
**Author:** dsdgrimm  
**Date:** 6/3/2019 9:06:38 AM  
**Color:** ■

18'-0"

Scale is 1" = 100', fixed bar scale

6/3/2019 9:06:57 AM (1)

SCALE: 1" = 30'

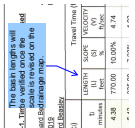
This scale is incorrect. Revise.

**Subject:** Engineer  
**Page Label:** 33  
**Author:** dsdgrimm  
**Date:** 6/3/2019 9:06:57 AM  
**Color:** ■

This scale is incorrect. Revise.

Scale is 1" = 100', fixed bar scale

6/3/2019 9:07:46 AM (1)

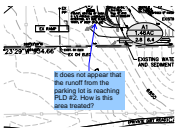


**Subject:** Engineer  
**Page Label:** 20  
**Author:** dsdgrimm  
**Date:** 6/3/2019 9:07:46 AM  
**Color:** ■

The basin lengths will be verified once the scale is revised on the drainage map.

Scale is 1" = 100', fixed bar scale

6/3/2019 9:45:09 AM (1)

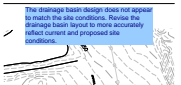


**Subject:** Engineer  
**Page Label:** 33  
**Author:** dsdgrimm  
**Date:** 6/3/2019 9:45:09 AM  
**Color:** ■

It does not appear that the runoff from the parking lot is reaching PLD #2. How is this area treated?

Flow is directed to the 2-existing grass swales, to be cleaned and restored

6/3/2019 9:57:48 AM (1)



**Subject:** Engineer  
**Page Label:** 33  
**Author:** dsdgrimm  
**Date:** 6/3/2019 9:57:48 AM  
**Color:** ■

This was discussed at our meeting

The drainage basin design does not appear to match the site conditions. Revise the drainage basin layout to more accurately reflect current and proposed site conditions.

The basins now match site conditions  
40'x24' gravel drive has been added

6/3/2019 9:58:41 AM (1)

Basin	Area (Ac)	Runoff Coefficient	Peak Discharge (cfs)	Time of Concentration (min)
1	1.2	0.4	1.2	10
2	1.2	0.4	1.2	10
Total	2.4	0.4	2.4	10

**Subject:** Engineer  
**Page Label:** 20  
**Author:** dsdgrimm  
**Date:** 6/3/2019 9:58:41 AM  
**Color:** ■

Rational method calculations will be reviewed once the drainage basin design is revised.

We discussed this at our meeting