## ENG-SF21012-R1-FDR-redlines.pdf Markup Summary

1 (4)

Project #: 096300000 Prepared: January 28, 2021 Add PCD File Number: PPR-21-017 Subject: Engineer Page Index: 1

Date: 3/10/2021 1:39:20 PM

Kimley»Horn Author: CFurchak

Color: Layer: Space: Page Label: 1

------

Subject: Stormwater Comments Color

Page Index: 1

Date: 3/10/2021 1:39:34 PM

Author: CFurchak

Color: Layer:
Space:
Page Label: 1

Subject: PCD Comment Legend

Page Index: 1

Date: 3/25/2021 5:25:56 PM

Author: dsdrice

Color: Layer: Space: Page Label: 1

------

Subject: EPC ENG Review

Page Index: 1

Date: 3/25/2021 5:25:58 PM

Author: dsdrice Color: Layer: Space:

Page Label: 1

5 (6)

Subject: Text Box Page Index: 5

Date: 3/25/2021 5:41:39 PM

Author: dsdrice
Color: Layer:
Space:
Page Label: 5

Address quantity and where offsite runoff from the

Add PCD File Number: PPR-21-017

north goes.

Subject: Callout Page Index: 5

Date: 3/25/2021 5:41:39 PM

Author: dsdrice
Color: Layer:
Space:
Page Label: 5

inlet and storm drain system

Committee of the entirely of the TS that is an analysis of the CS that is a second of the CS that is a

Subject: Callout Add the offsite basins Page Index: 5 Date: 3/25/2021 5:41:39 PM Author: dsdrice Color: Layer: Space: Page Label: 5 Subject: Callout is currently(?) Page Index: 5 Date: 3/25/2021 5:41:39 PM Author: dsdrice Color: Layer: Space: Page Label: 5 Subject: the 5-year a Page Index: 5 will be sin will be dir Date: 3/25/2021 5:41:47 PM Constitution Author: dsdrice Color: Layer: Space: Page Label: 5 Subject: channe e north side 0 Page Index: 5 ge channel th Date: 3/25/2021 5:41:58 PM of 15.39 acre Author: dsdrice Color: Canditiona Dr. Layer: Space: Page Label: 5 7 (1) Subject: Text Box Address quantity and where offsite runoff from the Page Index: 7 north goes. Date: 3/25/2021 5:42:28 PM Author: dsdrice Color: Layer: Space: Page Label: 7

8 (3)

In Tocated at the acutineur corner of the data and altimately not taking in a Tarity. Pand calculations are provided in the Appendix C. In Tarity. Pand calculations are provided in the Appendix C. In the street of baseline, and care make place are designed or carely times thore to a design points are provided in the Proposed Dearlage Map Incared in CESS.

CESS.

Subject: Engineer Page Index: 8

Date: 3/10/2021 1:33:07 PM

Author: CFurchak

Color: Layer:
Space:
Page Label: 8

Chapter 1 Section 4.0 of the Colorado Springs MANUAL.

THE FOUR STEP PROCESS

The Priject was designed in accordance with in repeated of destruction, in auditoria (Disquer)

Pleases are the Page 1, Engingly Barnel Education ProFrom August 1, Process 1

Subject: Engineer Page Index: 8

Date: 3/10/2021 1:33:19 PM

Author: CFurchak

Color: ■
Layer:
Space:
Page Label: 8

Please use the County's "Four-Step Process" for selecting structural BMPs (ECM Section I.7.2 BMP

Selection)

When the second term of the seco

Subject: Callout Page Index: 8

Date: 3/25/2021 5:42:48 PM

Author: dsdrice Color: Layer: Space:

Page Label: 8

Address downstream conveyances for 100-year flows and emergency conditions.

9 (3)

Control of the Contro

Subject: Text Box Page Index: 9

Date: 3/25/2021 5:43:02 PM

Author: dsdrice
Color: Layer:
Space:
Page Label: 9

Check with Classic to see if drainage credits will be allocated to this site. If not, drainage fees will be

Section 1. The control of the contro

Subject: Page Index: 9

Date: 3/25/2021 5:43:07 PM

Author: dsdrice Color: Layer: Space: Page Label: 9 There are no current drainage and fees for the Project as the fees were paid when the initial plat for the site was completed

age Maps are included in the erence. not correct

> Discharge Permit System th Construction Addivities from

s were paid when the initial plat

Subject: Callout Page Index: 9

Date: 3/25/2021 5:43:23 PM

Author: dsdrice Color: Layer: Space: Page Label: 9 not correct

39 (1)



Subject: Highlight Page Index: 39

Date: 3/25/2021 5:43:44 PM

Author: dsdrice Color: Layer: Space:

Page Label: 39

41 (1)

Subject: Text Box Page Index: 41

Provide calculations for offsite basins

Date: 3/25/2021 5:43:54 PM

Author: dsdrice Color: Layer:

Space: Page Label: 41

Provide calculations for offsite basins

45 (1)

Subject: Text Box Page Index: 45

Date: 3/25/2021 5:44:05 PM

EO, Hannah Kidge at Feethergress Filling No. 1 - Drainage Report Ing Russoff Calculations
Unique Storm 200 Trees
ut Matthed Procedury) Author: dsdrice Color: Layer: Space: Page Label: 45 Provide calculations for offsite basins

61 (1)

| 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |

Subject: Text Box Page Index: 61

Date: 3/25/2021 5:44:13 PM

Author: dsdrice Color: Layer: Space: Page Label: 61 Ensure that culvert calculations include total flows for the contributing acreages.

65 (1)

Subject: Page Index: 65

e - 3.1 cfs Date: 3/25/2021 5:44:26 PM

Author: dsdrice
Color: Layer:
Space:

Page Label: 65

68 (1)

Ensure that seale calculations include total flows for the contributing acreages.

Swale 82 - 100-yr

Consistent
Ferming
Forman

Or Martin Capit

Subject: Text Box Page Index: 68

Date: 3/25/2021 5:44:40 PM

Author: dsdrice
Color: Layer:
Space:
Page Label: 68

Ensure that swale calculations include total flows for the contributing acreages.

83 (3)

Needs to include the total contributing acreage

Subject: Callout Page Index: 83

Date: 3/25/2021 5:45:07 PM

Author: dsdrice

Color: Layer: Space: Page Label: 83

Needs to include the total contributing acreage

Slope = 0.015 ft/ft iness = 68.00% per inup A = 80.0% per inup B = 20.00% per inup B =

Subject: Highlight Page Index: 83

Date: 3/25/2021 5:45:07 PM

Author: dsdrice

Color: Layer: Space:

Page Label: 83

match
previous
yaluss?

(pd p g 39)

Subject: Callout Page Index: 83

Date: 3/25/2021 5:45:07 PM

Author: dsdrice Color:

Layer: Space:

Page Label: 83

match previous values? (pdf pg 39)

85 (1)



Subject: Engineer Page Index: 85

Date: 3/11/2021 4:56:12 PM

Author: CFurchak

Color: Layer: Space:

Page Label: 85

Ratio should be less than or equal to 1.

89 (8)



Subject: Arrow Page Index: 89

Date: 3/25/2021 5:45:40 PM

Author: dsdrice
Color: Layer:
Space:

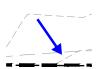
Page Label: [1] Existing Drainage Map

Subject: Arrow Page Index: 89

Date: 3/25/2021 5:45:40 PM

Author: dsdrice
Color: Layer:
Space:

Page Label: [1] Existing Drainage Map



Subject: Arrow Page Index: 89

Date: 3/25/2021 5:45:40 PM

Author: dsdrice Color: Layer: Space:

Page Label: [1] Existing Drainage Map



Subject: Arrow Page Index: 89

Date: 3/25/2021 5:45:40 PM

Author: dsdrice Color: Layer: Space:

Page Label: [1] Existing Drainage Map

Subject: Text Box Page Index: 89

Date: 3/25/2021 5:45:40 PM

Author: dsdrice Color: Layer:

Space:

Page Label: [1] Existing Drainage Map

https://epcdevplanreview.com/Public/ProjectDetails

/110809



Subject: Callout Page Index: 89

Date: 3/25/2021 5:45:40 PM

Author: dsdrice Color: Layer: Space:

Page Label: [1] Existing Drainage Map

Identify the flow path to inlet and size of inlet



Subject: Image Page Index: 89

Date: 3/25/2021 5:45:40 PM

Color: Layer: Space:

Page Label: [1] Existing Drainage Map

Author: dsdrice

Subject: Callout Page Index: 89

Date: 3/25/2021 5:45:40 PM Author: dsdrice Color: Layer:

Space:

Page Label: [1] Existing Drainage Map

show and address all contributing sub-basins





Subject: Engineer Page Index: 90

Date: 3/10/2021 4:28:52 PM

Author: CFurchak

Color: Layer: Space:

Page Label: [1] Proposed Drainage Map

is this design point B10?



Subject: Engineer Page Index: 90

Date: 3/10/2021 4:29:04 PM

Author: CFurchak

Color: 
Layer:
Space:

Page Label: [1] Proposed Drainage Map

is this design point B15?



Subject: Engineer Page Index: 90

Date: 3/11/2021 4:57:05 PM

Author: CFurchak

Color: 
Layer:
Space:

Page Label: [1] Proposed Drainage Map

these are very difficult to read, please adjust font



Subject: Arrow Page Index: 90

Date: 3/25/2021 5:45:55 PM

Author: dsdrice Color: Layer: Space:

Page Label: [1] Proposed Drainage Map



Subject: Callout Page Index: 90

Date: 3/25/2021 5:45:55 PM

Author: dsdrice
Color:

Layer: Space:

Page Label: [1] Proposed Drainage Map

Show pipe and label pipe sizes



Subject: Callout Page Index: 90

Date: 3/25/2021 5:45:55 PM

Author: dsdrice
Color: Layer:
Space:

Page Label: [1] Proposed Drainage Map

Is a larger conveyance needed for flows from the north?



Subject: Callout Page Index: 90

Date: 3/25/2021 5:45:55 PM

Author: dsdrice
Color: Layer:
Space:

Page Label: [1] Proposed Drainage Map

Adjust this inflow as far to the south as possible



Subject: Callout

Date: 3/25/2021 5:45:55 PM

Author: dsdrice Color: Layer: Space:

Page Index: 90

Page Label: [1] Proposed Drainage Map

Identify the flow path to inlet and size of inlet



Subject: Arrow Page Index: 90

Date: 3/25/2021 5:45:55 PM

Author: dsdrice Color:

Layer: Space:

Page Label: [1] Proposed Drainage Map



Subject: Callout Page Index: 90

Date: 3/25/2021 5:45:55 PM

Author: dsdrice Color: Layer:

Space:

Page Label: [1] Proposed Drainage Map

show proposed curb and gutter



Subject: Arrow Page Index: 90

Date: 3/25/2021 5:45:55 PM

Author: dsdrice
Color: Layer:
Space:

Page Label: [1] Proposed Drainage Map



Subject: Callout Page Index: 90

Date: 3/25/2021 5:45:55 PM

Author: dsdrice
Color: Layer:
Space:

Page Label: [1] Proposed Drainage Map

show and address all contributing sub-basins



Subject: Callout Page Index: 90

**Date:** 3/25/2021 5:45:55 PM

Author: dsdrice
Color: Layer:
Space:

Page Label: [1] Proposed Drainage Map

show all pond features

label the crosspan

Subject: Callout Page Index: 90
Date: 3/25/2021 5:45:55 PM
Author: dsdrice
Color:

Layer: Space:

Page Label: [1] Proposed Drainage Map

Subject:

Page Index: 90 Date: 3/25/2021 5:45:55 PM

Author: dsdrice Color:

Layer: Space:

Page Label: [1] Proposed Drainage Map