

Final Drainage Report_V1.pdf Markup Summary

CDurham (64)

tree sock
is sparse
north to
[stock](#)
via Soil

Subject: Callout
Page Label: 4
Author: CDurham
Date: 2/14/2022 4:15:10 PM
Status:
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stock

in and into the pond.
ition **comprised of** is cc
, part of proposed Mer
d swales, proposed road

Subject: Highlight
Page Label: 10
Author: CDurham
Date: 2/14/2022 5:21:38 PM
Status:
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comprised of

and 100-year storm are 0 cfs
land towards DP8.1.
approximately 2.06 acres and its prop
ed lots, **and undeveloped land**. Runoff
athwest to DP8, DP7 and DP8 com
d towards DP9.1 in Basin OS-5.

Subject: Highlight
Page Label: 9
Author: CDurham
Date: 2/14/2022 5:23:38 PM
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, and undeveloped land.

ar storm are 6 cfs and 50
8.1.
[delete](#)
6 acres and its proposed o
veloped land. Runoff gener
DP7 and DP8 combined fl

Subject: Callout
Page Label: 9
Author: CDurham
Date: 2/14/2022 5:24:00 PM
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delete

bined flows at DP11.1 (Q
asin G and continue in t
e pond. [delete](#)
ed of is comprised of part
osed Mercy Court, parts

Subject: Callout
Page Label: 10
Author: CDurham
Date: 2/14/2022 5:24:09 PM
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delete

approximately 6.20 acres and its prop
d lots, **and undeveloped land**. Runo
annel generally southeast to DP11.
= 137.9 cfs) will cross a future dr
: towards DP12.2. There they enter t

Subject: Highlight
Page Label: 10
Author: CDurham
Date: 2/14/2022 5:24:17 PM
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and undeveloped land

of 100 years (Q₁₀₀ = 131.3 cfs) flow
delete
20 acres and its proposed
developed land. Runoff generated
to the southeast to DP11 DP10

Subject: Callout
Page Label: 10
Author: CDurham
Date: 2/14/2022 5:24:24 PM
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delete

ia
Administration's HY-8
in the **Latigo Trails** develop
ertop the road in the 10
Volume 2 Chapter 9 E

Subject: Highlight
Page Label: 11
Author: CDurham
Date: 2/14/2022 5:29:27 PM
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Latigo Trails

Control District's UD-Detention, Version 4.04 w
ion volumes and allowable release rates were desi
spreadsheets are presented in Appendix D.
Cornerstone Estates
Administration's HY-8 program (Volume 7.50) was
Latigo Trails development. Per Section 6.4.1 of t
the road in the 100-year storm. Current design s
me 2 Chapter 9 Equation 9-16 was used to size

Subject: Callout
Page Label: 11
Author: CDurham
Date: 2/14/2022 5:29:45 PM
Status:
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Cornerstone Estates

Just. Proposed main section D.D
5.2 and will need turf reinforcing mat
Will need to include design
calculations for reinforcing mat to
be used.

Subject: Text Box
Page Label: 12
Author: CDurham
Date: 2/14/2022 5:37:55 PM
Status:
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Will need to include design calculations for
reinforcing mat to be used.

management are presented
e release rates will be limi
stormwater facilities.
OS-5
OS-6 will contribute flow
60.01 acres and off-site b

Subject: Callout
Page Label: 13
Author: CDurham
Date: 2/14/2022 5:43:06 PM
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OS-5

ugh OS-6 w
oute **60.01** ac
ith a weightec

Subject: Highlight
Page Label: 13
Author: CDurham
Date: 2/14/2022 5:43:54 PM
Status:
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60.01

DCM will specify to our quality and education...
7.1.8 shall...
The total...
174.41 ac

Subject: Callout
Page Label: 13
Author: CDurham
Date: 2/14/2022 5:44:35 PM
Status:
Color: ■
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Space:

57.86 acres? Basin H does not drain to pond

proposed
174.41 ac
The total

Subject: Highlight
Page Label: 13
Author: CDurham
Date: 2/14/2022 5:45:18 PM
Status:
Color: ■
Layer:
Space:

174.4

drainag
histori
144.27 acres?
On-sit
propos
174.41
The to
storms
spectr

Subject: Callout
Page Label: 13
Author: CDurham
Date: 2/14/2022 5:45:38 PM
Status:
Color: ■
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144.27 acres?

contribute
s of 7.1%.
100-year

Subject: Highlight
Page Label: 13
Author: CDurham
Date: 2/14/2022 5:45:50 PM
Status:
Color: ■
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7.1%.

with the
estimat
of 7.1%
0.00 acre
and fall
flooding
V drain

Subject: Callout
Page Label: 13
Author: CDurham
Date: 2/14/2022 5:46:12 PM
Status:
Color: ■
Layer:
Space:

Update imperviousness based on only contributing areas

Also include discussion on
trickle channel, emergency
spillway riprap sizing and if
cutoff wall is needed and
maintenance access.

xx: 72
historic path along the existing

Subject: Text Box
Page Label: 14
Author: CDurham
Date: 2/14/2022 5:53:24 PM
Status:
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Also include discussion on trickle channel, emergency spillway riprap sizing and if cutoff wall is needed and maintenance access.

ulated based on
in is \$12,441 per
bridge fees for t

Subject: Highlight
Page Label: 14
Author: CDurham
Date: 2/14/2022 5:53:27 PM
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\$12,441

e associated w:
e is \$4,772 per
I) are based on

Subject: Highlight
Page Label: 14
Author: CDurham
Date: 2/14/2022 5:54:18 PM
Status:
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Layer:
Space:

\$4,772

on inspection, routine maintenance, reconstructive maintenance, rehabilitation,
All proposed drainage structures within the city of Raleigh County (RCDD) require
I columns will be removed and replaced by 12 Foot Columns. All proposed
for maintenance or reconstruction require a permit. The permit application
requirements will be revised and submitted by Construction Events. Inspect
only with the permit for a [permit application](#).

Subject: Callout
Page Label: 14
Author: CDurham
Date: 2/14/2022 5:54:25 PM
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2022 Drainage fees are \$13,312 & Bridge fees are \$5,106

ious acres

Update costs based on 2022 fees

Subject: Text Box
Page Label: 14
Author: CDurham
Date: 2/14/2022 5:55:56 PM
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Update costs based on 2022 fees

Quantity | U
7,162 | (

Subject: Highlight
Page Label: 15
Author: CDurham
Date: 2/15/2022 1:49:32 PM
Status:
Color: 
Layer:
Space:

7,162

636 | T

Subject: Highlight
Page Label: 15
Author: CDurham
Date: 2/15/2022 1:49:35 PM
Status:
Color: 
Layer:
Space:

636

Subject: Callout
Page Label: 15
Author: CDurham
Date: 2/15/2022 1:49:51 PM
Status:
Color: ■
Layer:
Space:

Reconcile quantities with what is shown on FAE

Construction Cost Opinion

Item	Description	Quantity	Unit	Cost
1	Permanent Pond BMP Construction	7.10	sq ft	142
2	Permanent Pond BMP (Grass)	1	sq ft	1
3	Permanent Pond BMP (Grass) (Sustainable)	1	sq ft	1
4	1" x 10" HBRCP	10	sq ft	10
5	1" x 10" HBRCP	10	sq ft	10
6	1" x 10" HBRCP	10	sq ft	10
7	1" x 10" HBRCP	10	sq ft	10
8	1" x 10" HBRCP	10	sq ft	10
9	1" x 10" HBRCP	10	sq ft	10

Subject: Callout
Page Label: 15
Author: CDurham
Date: 2/15/2022 1:50:23 PM
Status:
Color: ■
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52 ft shown on CD's

Final Drainage Report for Construction Estates

Construction Cost Opinion

Item	Description	Quantity	Unit	Cost
1	Permanent Pond BMP Construction	7.10	sq ft	142
2	Permanent Pond BMP (Grass)	1	sq ft	1
3	Permanent Pond BMP (Grass) (Sustainable)	1	sq ft	1
4	1" x 10" HBRCP	10	sq ft	10
5	1" x 10" HBRCP	10	sq ft	10
6	1" x 10" HBRCP	10	sq ft	10
7	1" x 10" HBRCP	10	sq ft	10
8	1" x 10" HBRCP	10	sq ft	10
9	1" x 10" HBRCP	10	sq ft	10

Subject: Highlight
Page Label: 15
Author: CDurham
Date: 2/15/2022 1:50:33 PM
Status:
Color: ■
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Private Storm System (For Information Only):

Storm Facilities listed under Public Improvements on FAE

Item	Quantity	Unit	Unit Cost	Cost
1" x 10" HBRCP	11,062	sq ft	1	11,062

Subject: Callout
Page Label: 15
Author: CDurham
Date: 2/15/2022 1:51:12 PM
Status:
Color: ■
Layer:
Space:

Storm Facilities listed under Public Improvements on FAE

For historic/existing analysis should use using 2% impervious

Item	Weighted %	Area (sq ft)	Weighted %	Area (sq ft)
1	0.06	0.08	0.35	0.08
2	0.15	0.09	0.36	0.15
3	0.05	0.11	0.37	0.05

Subject: Callout
Page Label: 29
Author: CDurham
Date: 2/15/2022 1:54:11 PM
Status:
Color: ■
Layer:
Space:

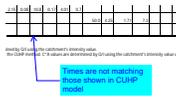
For historic/existing analysis should be using 2% impervious

Add note that OS basins time of concentration are from CUHP method

Item	Weighted %	Area (sq ft)	Weighted %	Area (sq ft)
1	0.06	0.08	0.35	0.08
2	0.15	0.09	0.36	0.15
3	0.05	0.11	0.37	0.05

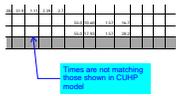
Subject: Text Box
Page Label: 30
Author: CDurham
Date: 2/15/2022 1:55:12 PM
Status:
Color: ■
Layer:
Space:

Add note that OS basins time of concentration are from CUHP method



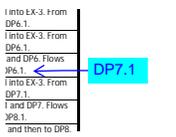
Subject: Callout
Page Label: 32
Author: CDurham
Date: 2/15/2022 1:56:34 PM
Status:
Color: ■
Layer:
Space:

Times are not matching those shown in CUHP model



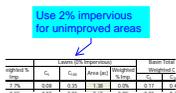
Subject: Callout
Page Label: 31
Author: CDurham
Date: 2/15/2022 1:56:43 PM
Status:
Color: ■
Layer:
Space:

Times are not matching those shown in CUHP model



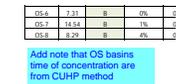
Subject: Callout
Page Label: 33
Author: CDurham
Date: 2/15/2022 1:57:28 PM
Status:
Color: ■
Layer:
Space:

DP7.1



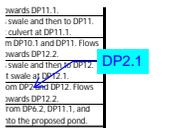
Subject: Callout
Page Label: 35
Author: CDurham
Date: 2/15/2022 1:57:56 PM
Status:
Color: ■
Layer:
Space:

Use 2% impervious for unimproved areas



Subject: Text Box
Page Label: 36
Author: CDurham
Date: 2/15/2022 1:58:06 PM
Status:
Color: ■
Layer:
Space:

Add note that OS basins time of concentration are from CUHP method



Subject: Callout
Page Label: 39
Author: CDurham
Date: 2/15/2022 1:58:48 PM
Status:
Color: ■
Layer:
Space:

DP2.1

swales DP11.1
swale and then to DP11.
culvert at DP11.1
in DP10.1 and DP11.1 flows
swale DP12.2
swale and then to DP12.
I swale at DP12.
on DP12 the DP12 flows
swale DP12.2
from DP6.2, DP11.1, and
to the proposed pond.

DP2.1

Subject: Callout
Page Label: 41
Author: CDurham
Date: 2/15/2022 1:59:13 PM
Status:
Color: ■
Layer:
Space:

DP2.1

by Autodesk, Inc.
Please run separate analysis
for DP2.1 to DP12.1 as it has
a larger flow rate.
0

Highlighted
Depth (ft)
Q (cfs)
Area (sqft)

Subject: Text Box
Page Label: 43
Author: CDurham
Date: 2/15/2022 2:14:46 PM
Status:
Color: ■
Layer:
Space:

Please run separate analysis for DP2.1 to DP12.1 as it has a larger flow rate.

Provide analysis of existing
swales to show they are able
to handle proposed flows

Subject: Text Box
Page Label: 42
Author: CDurham
Date: 2/15/2022 2:15:17 PM
Status:
Color: ■
Layer:
Space:

Provide analysis of existing swales to show they are able to handle proposed flows

Include design of TRM's to
be used in channels

Subject: Text Box
Page Label: 42
Author: CDurham
Date: 2/15/2022 2:15:43 PM
Status:
Color: ■
Layer:
Space:

Include design of TRM's to be used in channels

Please include separate
analysis for DP5.1 & DP6.1
as they have larger flows

Subject: Text Box
Page Label: 45
Author: CDurham
Date: 2/15/2022 2:16:31 PM
Status:
Color: ■
Layer:
Space:

Please include separate analysis for DP5.1 & DP6.1 as they have larger flows

© by Autodesk, Inc.
Note that this is a
roadside ditch.

Higl
Dep
Q (c

Subject: Text Box
Page Label: 45
Author: CDurham
Date: 2/15/2022 2:16:48 PM
Status:
Color: ■
Layer:
Space:

Note that this is a roadside ditch.

3k Note that this is a roadside ditch

3.10

Subject: Text Box
Page Label: 47
Author: CDurham
Date: 2/15/2022 2:17:16 PM
Status:
Color: ■
Layer:
Space:

Note that this is a roadside ditch

Known Q = 33.15

Flow at DP6.2 is 51.6 cfs

Section

Subject: Callout
Page Label: 47
Author: CDurham
Date: 2/15/2022 2:17:37 PM
Status:
Color: ■
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Flow at DP6.2 is 51.6 cfs.

1: Specify Minimum, Design, and Maximum

Hydrology spreadsheet shows a 100-year flow of 24.6 cfs at DP2.1

Subject: Text Box
Page Label: 56
Author: CDurham
Date: 2/15/2022 2:18:29 PM
Status:
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Hydrology spreadsheet shows a 100-year flow of 24.6 cfs at DP2.1

PIPE CUI

Substation

Conduits

Manholes

Include design point labels

Station	Flow (cfs)	Depth (ft)	Velocity (ft/s)
DP1.0	10.0	1.0	1.0
DP2.1	24.6	1.5	1.5
DP3.0	15.0	1.2	1.2
DP4.0	20.0	1.3	1.3
DP5.0	30.0	1.5	1.5
DP6.2	51.6	2.0	2.0

Subject: Callout
Page Label: 77
Author: CDurham
Date: 2/15/2022 2:19:41 PM
Status:
Color: ■
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Include design point labels

Station	Flow (cfs)	Depth (ft)	Velocity (ft/s)
DP1.0	10.0	1.0	1.0
DP2.1	24.6	1.5	1.5
DP3.0	15.0	1.2	1.2
DP4.0	20.0	1.3	1.3
DP5.0	30.0	1.5	1.5
DP6.2	51.6	2.0	2.0

Remove reference to future flow

Subject: Callout
Page Label: 77
Author: CDurham
Date: 2/15/2022 2:21:02 PM
Status:
Color: ■
Layer:
Space:

Remove reference to future flow

From HY-8 spreadsheets, Fr #s are greater than 1, which makes flow supercritical.

Station	Flow (cfs)	Depth (ft)	Velocity (ft/s)	Fr #
DP1.0	10.0	1.0	1.0	0.5
DP2.1	24.6	1.5	1.5	1.2
DP3.0	15.0	1.2	1.2	0.8
DP4.0	20.0	1.3	1.3	1.0
DP5.0	30.0	1.5	1.5	1.5
DP6.2	51.6	2.0	2.0	2.0

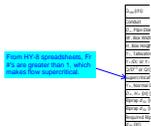
Subject: Callout
Page Label: 77
Author: CDurham
Date: 2/15/2022 2:23:02 PM
Status:
Color: ■
Layer:
Space:

From HY-8 spreadsheets, Fr #'s are greater than 1, which makes flow supercritical.



Subject: Callout
Page Label: 77
Author: CDurham
Date: 2/15/2022 2:23:23 PM
Status:
Color: ■
Layer:
Space:

Looks like this value is closer to 3.25



Subject: Callout
Page Label: 78
Author: CDurham
Date: 2/15/2022 2:23:55 PM
Status:
Color: ■
Layer:
Space:

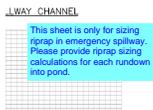
From HY-8 spreadsheets, Fr #'s are greater than 1, which makes flow supercritical.

EGL (ft) = 2.57

Rundowns should be trapezoidal in shape.

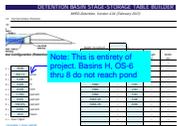
Subject: Text Box
Page Label: 80
Author: CDurham
Date: 2/15/2022 2:36:00 PM
Status:
Color: ■
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Rundowns should be trapezoidal in shape.



Subject: Text Box
Page Label: 83
Author: CDurham
Date: 2/15/2022 2:36:58 PM
Status:
Color: ■
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Space:

This sheet is only for sizing riprap in emergency spillway. Please provide riprap sizing calculations for each rundown into pond.



Subject: Callout
Page Label: 85
Author: CDurham
Date: 2/15/2022 2:46:43 PM
Status:
Color: ■
Layer:
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Note: This is entirety of project. Basins H, OS-6 thru 8 do not reach pond



Subject: Callout
Page Label: 85
Author: CDurham
Date: 2/15/2022 2:47:29 PM
Status:
Color: ■
Layer:
Space:

Check impervious percentage based on comment on hydrology spreadsheet

Include design of forebays and trickle channels

Subject: Text Box
Page Label: 84
Author: CDurham
Date: 2/15/2022 2:47:52 PM
Status:
Color: ■
Layer:
Space:

Include design of forebays and trickle channels

INLET	INLET	INLET	INLET
1%	0.09	0.35	50.0
4%	0.11	0.37	50.0

in RED indicate they were from the CUHP model

CUHP times do not match what is shown in model

DESIGN POINT SUMMARY	
DP#	Q _s

Subject: Callout
Page Label: 98
Author: CDurham
Date: 2/15/2022 2:49:21 PM
Status:
Color: ■
Layer:
Space:

CUHP times do not match what is shown in model

DP#	Q _s	Q ₁₀	Q ₅	Q ₂	Q ₁	Q _{0.5}	Q _{0.2}	Q _{0.1}	Q _{0.05}	Q _{0.02}	Q _{0.01}	Q _{0.005}	Q _{0.002}	Q _{0.001}
1	0.09	0.35	0.37	0.38	0.39	0.40	0.41	0.42	0.43	0.44	0.45	0.46	0.47	0.48
2	0.11	0.37	0.39	0.40	0.41	0.42	0.43	0.44	0.45	0.46	0.47	0.48	0.49	0.50

DESIGN POINT SUMMARY TABLE

Subject: Cloud+
Page Label: 98
Author: CDurham
Date: 2/15/2022 2:50:09 PM
Status:
Color: ■
Layer:
Space:

Update Q's to match with corresponding DP's in table below

INLET	INLET	INLET	INLET
0%	0.08	0.35	50.0
1%	0.09	0.36	50.0
4%	0.11	0.37	50.0

in RED indicate they were from the CUHP model

CUHP times do not match what is shown in model

SUMMARY	
DP#	Q _s
1	2

Subject: Callout
Page Label: 99
Author: CDurham
Date: 2/15/2022 2:51:54 PM
Status:
Color: ■
Layer:
Space:

CUHP times do not match what is shown in model

DP#	Q _s	Q ₁₀	Q ₅	Q ₂	Q ₁	Q _{0.5}	Q _{0.2}	Q _{0.1}	Q _{0.05}	Q _{0.02}	Q _{0.01}	Q _{0.005}	Q _{0.002}	Q _{0.001}
1	0.09	0.35	0.37	0.38	0.39	0.40	0.41	0.42	0.43	0.44	0.45	0.46	0.47	0.48
2	0.11	0.37	0.39	0.40	0.41	0.42	0.43	0.44	0.45	0.46	0.47	0.48	0.49	0.50

DESIGN POINT SUMMARY TABLE

Subject: Cloud+
Page Label: 99
Author: CDurham
Date: 2/15/2022 2:52:30 PM
Status:
Color: ■
Layer:
Space:

Update Q's to match with corresponding DP's in table below

Label swales to correspond to calculations in appendix

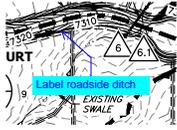
Subject: Text Box
Page Label: 99
Author: CDurham
Date: 2/15/2022 2:53:55 PM
Status:
Color: ■
Layer:
Space:

Label swales to correspond to calculations in appendix

Show and label riprap outlet protection at all culverts

Subject: Text Box
Page Label: 99
Author: CDurham
Date: 2/15/2022 2:53:59 PM
Status:
Color: ■
Layer:
Space:

Show and label riprap outlet protection at all culverts



Subject: Callout
Page Label: 99
Author: CDurham
Date: 2/15/2022 2:54:54 PM
Status:
Color: ■
Layer:
Space:

Label roadside ditch



Subject: Callout
Page Label: 99
Author: CDurham
Date: 2/15/2022 2:55:20 PM
Status:
Color: ■
Layer:
Space:

Label all pipes, rundowns & swales as private or public

same as Basin EX-4 is described in the exist the basin at DP15 in the 5- and 100-year to DP15, and DP16 combined flows at DP16.1 path flowing undisturbed off-site to the south.

Include discussion on existing vs. developed flows being released.

Subject: Text Box
Page Label: 10
Author: CDurham
Date: 2/15/2022 7:35:13 AM
Status:
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Include discussion on existing vs. developed flows being released.

Glenn Reese - EPC Stormwater (9)

.XXXX

SF222

'021

Subject: SW - Textbox with Arrow
Page Label: 1
Author: Glenn Reese - EPC Stormwater
Date: 2/7/2022 8:09:24 AM
Status:
Color: ■
Layer:
Space:

SF222

Environmental Consultants, Inc. and dated November 2021. Minimal data from this DBPS was a location of the site being at the top of the watershed 2 assuming residential development with less dense state.
age:
e generally from north to south by way of sheet flow natural channels. Off-site flows enter on-site along 3 routed in the same general direction from north to a existing stock pond on the southern border of the

Discuss how this will effect downstream conditions.

Subject: SW - Textbox with Arrow
Page Label: 5
Author: Glenn Reese - EPC Stormwater
Date: 2/7/2022 8:09:43 AM
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Discuss how this will effect downstream conditions.

Subject: SW - Highlight
Page Label: 5
Author: Glenn Reese - EPC Stormwater
Date: 2/7/2022 8:09:51 AM
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The Bennett Ranch DBPS also modeled the site assuming residential development with less dense 5-acre single-family lots, which is no longer accurate.

Subject: SW - Textbox with Arrow
Page Label: 10
Author: Glenn Reese - EPC Stormwater
Date: 2/7/2022 8:10:02 AM
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revise this and other similar statements in report text if forebays are added.

Subject: SW - Highlight
Page Label: 10
Author: Glenn Reese - EPC Stormwater
Date: 2/7/2022 8:10:09 AM
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enter the rundown and into the pond.

Subject: SW - Textbox
Page Label: 13
Author: Glenn Reese - EPC Stormwater
Date: 2/7/2022 8:10:19 AM
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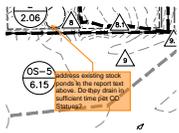
Additional note about forebays:
Per MHFD USDCMv2 Chap 9, Section 3.2.4 (pdf pages 89 to 99), baffles are required for inlet pipes up to 48" diameter. Use Type VI impact basin for larger pipes or higher exit velocities. Also see req's in ECM Chap 10.8.

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MHFD DCMv3, detail T-12 recommends forebays at inlets to EDB's. Discuss why forebays are or are not appropriate for this site. And then if added, show forebay calcs.

Subject: SW - Textbox with Arrow
Page Label: 14
Author: Glenn Reese - EPC Stormwater
Date: 2/7/2022 8:10:28 AM
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Discuss outlet structure in more detail. It should have a micropool, trash screen, orifice plate, overflow, etc.



Subject: SW - Textbox with Arrow
Page Label: 99
Author: Glenn Reese - EPC Stormwater
Date: 2/7/2022 8:11:04 AM
Status:
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address existing stock ponds in the report text above. Do they drain in sufficient time per CO Statues?