

ENG-PUDSP20007-R2-PDRFDR.pdf Markup Summary

1 (1)

Subject: Text Box

See comment letter also

Page Index: 1

[See comment letter also](#)

Date: 12/3/2021 1:10:02 PM

Author: dsdrice

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2 (2)

Subject:

R. Campbell, C

Page Index: 2

Date: 12/3/2021 12:43:54 PM

Author: dsdrice

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Subject:

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Date: 12/3/2021 12:44:08 PM

Author: dsdrice

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6 (2)

at intersection at equin
in B along the east side

B-1?

Point 2 (Q₅ = 4.3 cfs an

Subject: Callout

B-1?

Page Index: 6

Date: 11/22/2021 11:05:21 AM

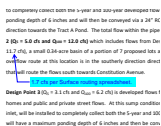
Author: CDurham

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Subject: Callout

1.7 cfs per Surface routing spreadsheet.

Page Index: 6

Date: 11/22/2021 11:05:33 AM

Author: CDurham

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Page Label: 6

storm sewer towards the Tract A Pond. The total Run 3 (Q₃ = 5.1 cfs and Q_{sum} = 6.2 cfs). The entry into the proposed expanded Pond. Pipe Run 4 combined pipe flows from Design Point 1 and all storm sewer will route through combined developed Design Point 4 (Q₄ = 0.1 cfs, and Q_{sum} = 1.7 cfs) on condition, a private (DOT Type C sump graded in year and 100-year developed flows. These flows inches and then be conveyed via a private 12" P.

Subject: Callout
Page Index: 7
Date: 11/22/2021 11:05:50 AM
Author: CDurham
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Pipe routing spreadsheet shows DP 5

as = 69.5 cfs) represents the oped flows. A 48" RCP public pond. Basin B-2 does not show a design point on the drainage map from Basin B-2. At this sump completely collect both the 5- maximum runoff depth of 6.

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Author: CDurham
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Basin B-2 does not show a design point on the drainage map.

into the proposed expanded pond. Pipe Run 4 (Q₄ = 0.1 cfs, and Q_{sum} = 1.7 cfs) on condition, a private (DOT Type C sump graded in year and 100-year developed flows. These flows inches and then be conveyed via a private 12" P.

Subject: Callout
Page Index: 7
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Author: CDurham
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At Tract A, leading into the pond, there is a ridge line, so how does any overflow cross over the ridge and into the pond? From grading, looks like area is more likely to end up in drainage ditch along Constitution.

100 = 1.7 cfs). The id. Discussion of DP's 5 & 6? posed expanded

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Author: CDurham
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Discussion of DP's 5 & 6?

n is via Tract A directly into the proposed pond. Basin G (1.87 Acres) flow directly into the pond. What are the flows generated by these basins? a small 0.42-acre landscape parcel at the intersection of Akers Drive and Constitution Avenue

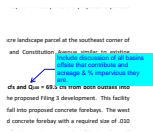
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Page Index: 7
Date: 11/22/2021 11:06:34 AM
Author: CDurham
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What are the flows generated by these basins?

t street flows directly sheet?

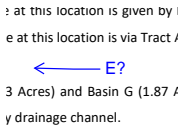
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sheet?



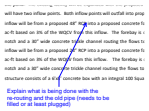
Subject: Callout
Page Index: 7
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Include discussion of all basins offsite that contribute and acreage & % impervious they are.



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Page Index: 7
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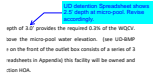
E?



Subject: Callout
Page Index: 7
Date: 12/3/2021 12:58:59 PM
Author: dsdrice
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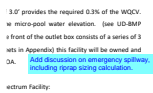
Explain what is being done with the re-routing and the old pipe (needs to be filled or at least plugged)

8 (4)



Subject: Callout
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Date: 11/22/2021 11:07:13 AM
Author: CDurham
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UD detention Spreadsheet shows 2.5' depth at micro-pool. Revise accordingly.



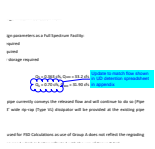
Subject: Text Box
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Add discussion on emergency spillway, including riprap sizing calculation.



Subject: Cloud+
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Update volumes per US Detention spreadsheet in appendix



Subject: Cloud+
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Author: CDurham
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Update to match flow shown in UD detention spreadsheet in appendix

11 (2)



Subject: Text Box
Page Index: 11
Date: 12/3/2021 1:01:37 PM
Author: dsdrice
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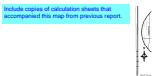
(the fees depend on date of plat submittal - there have been updates)

the 2020 dra

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2020

27 (1)



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Page Index: 27
Date: 11/22/2021 11:09:53 AM
Author: CDurham
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Page Label: 14

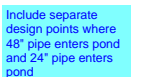
Include copies of calculation sheets that accompanied this map from previous report.

33 (2)

2080.1	120	120	0.1
211.1 (existing)	120	120	0.1
1200.0			

Subject: Callout
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Author: CDurham
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What about storm flow from existing system that releases into pond?



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Author: CDurham
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Include separate design points where 48" pipe enters pond and 24" pipe enters pond

34 (2)

31	52	OF POND RCP
32	53	OF POND RCP
33	54	OF POND RCP
34	55	OF POND RCP

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Author: CDurham
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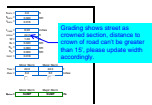
18"

DP1	0.0	0.0	0.0
DP2	0.0	0.0	0.0
DP3	0.0	0.0	0.0
DP4	0.0	0.0	0.0

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Author: CDurham
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Page Label: 21

Oversizes pipe as DP 5 includes DP 2, which does not run through this segment of storm (opposite side of pond) and Basin F, which is Pond itself.

37 (1)



Subject: Callout
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Date: 11/22/2021 11:11:22 AM
Author: CDurham
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Grading shows street as crowned section, distance to crown of road can't be greater than 15', please update width accordingly.

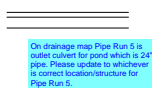
40 (1)



Subject: Text Box
Page Index: 40
Date: 11/22/2021 11:11:41 AM
Author: CDurham
Color: ■
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Page Label: 27

How are you addressing high FR #?

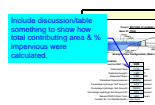
44 (1)



Subject: Text Box
Page Index: 44
Date: 11/22/2021 11:12:01 AM
Author: CDurham
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Page Label: 31

On drainage map Pipe Run 5 is outlet culvert for pond which is 24" pipe. Please update to whichever is correct location/structure for Pipe Run 5.

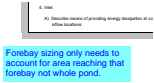
48 (1)



Subject: Callout
Page Index: 48
Date: 11/22/2021 11:12:27 AM
Author: CDurham
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Page Label: 35

Include discussion/table something to show how total contributing area & % impervious were calculated.

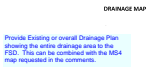
54 (1)



Subject: Text Box
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Author: CDurham
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Forebay sizing only needs to account for area reaching that forebay not whole pond.

60 (1)



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Page Index: 60
Date: 11/22/2021 11:13:16 AM
Author: CDurham
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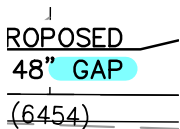
Provide Existing or overall Drainage Plan showing the entire drainage area to the FSD. This can be combined with the MS4 map requested in the comments.

61 (11)



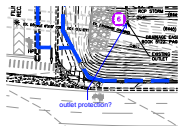
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What is GAP?

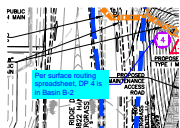


Subject: Highlight
Page Index: 61
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Author: CDurham
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outlet protection?

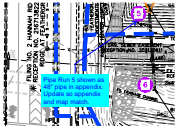


Subject: Callout
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Page Label: [1] Layout1



Subject: Callout
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Per surface routing spreadsheet, DP 4 is in Basin B-2



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Page Label: [1] Layout1

Pipe Run 5 shown as 48" pipe in appendix. Update so appendix and map match.



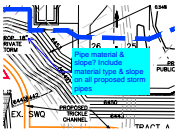
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Page Index: 61
Date: 11/22/2021 11:14:58 AM
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Page Label: [1] Layout1

Same design Point Label - Please revise



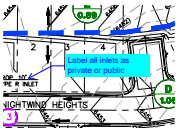
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Page Index: 61
Date: 11/22/2021 11:15:34 AM
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Clarify flow direction



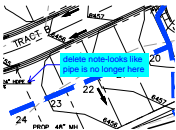
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Pipe material & slope? Include material type & slope on all proposed storm pipes



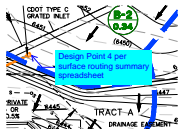
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Author: CDurham
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Label all inlets as private or public



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delete note-looks like pipe is no longer here



Subject: Callout
Page Index: 61
Date: 11/22/2021 11:16:36 AM
Author: CDurham
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Page Label: [1] Layout1

Design Point 4 per surface routing summary spreadsheet