

ENG-SF22001-R1-FDR.pdf Markup Summary

CDurham (60)

APPENDIX A -

Delete extra appendix dividers

Subject: Text Box

Page Label: 14

Author: CDurham

Date: 1/27/2022 5:32:58 PM

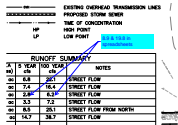
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Delete extra appendix dividers



| EXISTING OVERHEAD TRANSMISSION LINES | |
|--------------------------------------|-------|
| PROPOSED TOWNSHIP | |
| TIME OF CONCENTRATION | |
| INLET POINT | |
| LOW POINT | |
| RUNOFF SUMMARY | |
| STATION | NOTES |
| 1.0 | 1.0 |
| 2.0 | 2.0 |
| 3.0 | 3.0 |
| 4.0 | 4.0 |
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Subject: Callout

Page Label: 59

Author: CDurham

Date: 1/31/2022 3:59:55 PM

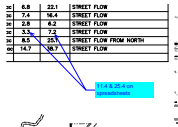
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8.9 & 19.8 in spreadsheets



| EXISTING OVERHEAD TRANSMISSION LINES | |
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| PROPOSED TOWNSHIP | |
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| INLET POINT | |
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| RUNOFF SUMMARY | |
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Subject: Callout

Page Label: 59

Author: CDurham

Date: 1/31/2022 4:00:16 PM

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11.4 & 25.4 on spreadsheets

Label inlets as
sump or at-grade

Subject: Text Box

Page Label: 59

Author: CDurham

Date: 1/31/2022 4:00:28 PM

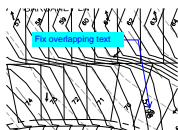
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Label inlets as sump or at-grade



| EXISTING OVERHEAD TRANSMISSION LINES | |
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| PROPOSED TOWNSHIP | |
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| INLET POINT | |
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Subject: Callout

Page Label: 59

Author: CDurham

Date: 1/31/2022 4:00:45 PM

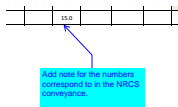
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Fix overlapping text



| EXISTING OVERHEAD TRANSMISSION LINES | |
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| PROPOSED TOWNSHIP | |
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Subject: Callout

Page Label: 30

Author: CDurham

Date: 1/31/2022 4:05:22 PM

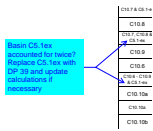
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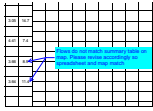
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Add note for the numbers correspond to in the NRCS conveyance.



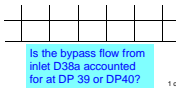
Subject: Callout
Page Label: 31
Author: CDurham
Date: 1/31/2022 4:07:16 PM
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Basin C5.1ex accounted for twice? Replace C5.1ex with DP 39 and update calculations if necessary



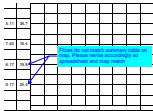
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Page Label: 31
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Flows do not match summary table on map. Please revise accordingly so spreadsheet and map match



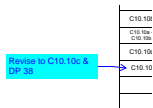
Subject: Text Box
Page Label: 31
Author: CDurham
Date: 1/31/2022 4:10:25 PM
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Is the bypass flow from inlet D38a accounted for at DP 39 or DP40?



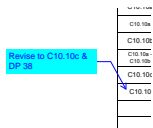
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Flows do not match summary table on map. Please revise accordingly so spreadsheet and map match



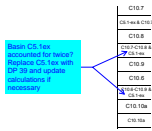
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Revise to C10.10c & DP 38



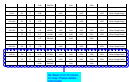
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Date: 1/31/2022 4:11:05 PM
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Revise to C10.10c & DP 38



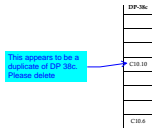
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Page Label: 32
Author: CDurham
Date: 1/31/2022 4:11:24 PM
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Basin C5.1ex accounted for twice? Replace C5.1ex with DP 39 and update calculations if necessary



Subject: Cloud+
Page Label: 33
Author: CDurham
Date: 1/31/2022 4:12:35 PM
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No Basin C10.10 shown on map. Please delete information



Subject: Callout
Page Label: 35
Author: CDurham
Date: 1/31/2022 4:13:43 PM
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This appears to be a duplicate of DP 38c. Please delete

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |

Subject: Callout
Page Label: 34
Author: CDurham
Date: 1/31/2022 4:14:10 PM
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Add note for the numbers correspond to in the NRCS conveyance.

adsheet UD-Inlet.
drainage report to use the pro
antion and water quality ponds
in are preliminary only as show
ed hydraulic calculations and th
cities (100-year capacity is only
n

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Author: CDurham
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preliminary only as

Manual". Street cap
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port to use the propos
vate quality ponds th
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Subject: Callout
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Author: CDurham
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delete

Include line item for street slope 2.7%

| Street Slope | 6 year | 100 year | 6.0 |
|--------------|--------|----------|-----|
| 0.0% | 0.0 | 28.0 | 1 |
| 0.5% | 0.0 | 28.0 | 1 |
| 1.0% | 0.0 | 28.0 | 1 |
| 1.5% | 0.0 | 28.0 | 1 |
| 2.0% | 0.0 | 28.0 | 1 |
| 2.5% | 0.0 | 28.0 | 1 |
| 3.0% | 0.0 | 28.0 | 1 |

Subject: Text Box
Page Label: 8
Author: CDurham
Date: 1/31/2022 4:15:51 PM
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Include line item for street slope 2.7%

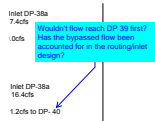
total flow accepted is 6.1
 drive (10.6/32.1 at 0.6% sl

(Collector)

side of Lamprey Dr, east

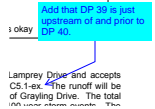
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Author: CDurham
Date: 1/31/2022 4:16:17 PM
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(Collector)



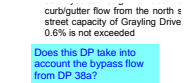
Subject: Callout
Page Label: 8
Author: CDurham
Date: 1/31/2022 4:17:24 PM
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Wouldn't flow reach DP 39 first? Has the bypassed flow been accounted for in the routing/inlet design?



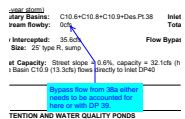
Subject: Callout
Page Label: 9
Author: CDurham
Date: 1/31/2022 4:18:17 PM
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Add that DP 39 is just upstream of and prior to DP 40.



Subject: Text Box
Page Label: 9
Author: CDurham
Date: 1/31/2022 4:18:42 PM
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Does this DP take into account the bypass flow from DP 38a?



Subject: Callout
Page Label: 10
Author: CDurham
Date: 1/31/2022 4:19:47 PM
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Bypass flow from 38a either needs to be accounted for here or with DP 39.

Has existing inlet at DP40a been checked with this additional bypassed flow? In FDR from CDR 20-007, inlet was designed for flows of 1.8 and 6.9 cfs.

Subject: Callout
Page Label: 10
Author: CDurham
Date: 1/31/2022 4:22:12 PM
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Has existing inlet at DP40a been checked with this additional bypassed flow? In FDR from CDR 20-007, inlet was designed for flows of 1.8 and 6.9 cfs.

Volumes listed for EURV, 5-year and 100-year do not match UD Detention spreadsheet in appendix. Please revise.

Subject: Callout
Page Label: 11
Author: CDurham
Date: 1/31/2022 4:23:41 PM
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Volumes listed for EURV, 5-year and 100-year do not match UD Detention spreadsheet in appendix. Please revise.

top outlet structure set at 5770.50, 6'x6'
if the pond
side square orifice in orifice plate)
4.5cfs (22" wide square orifice in orifice

Subject: Callout
Page Label: 11
Author: CDurham
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rectangular

ality and discharges
ding a 24" pipe outlet.
/ and EURV volumes.
been modeled in the
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ull spectrum print outs

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Author: CDurham
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Subject: Callout
Page Label: 11
Author: CDurham
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delete

UD Detention spreadsheet "Basin" information for full buildout scenario was missing. Volumes and WSE elevations could not be verified. Please include sheet next submittal.

Subject: Text Box
Page Label: 11
Author: CDurham
Date: 1/31/2022 4:25:42 PM
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UD Detention spreadsheet "Basin" information for full buildout scenario was missing. Volumes and WS elevations could not be verified. Please include sheet next submittal.

1. WSEL: 5770.41, Top outlet structure set at 5770.35, 6'x6'
5770.34, 16.5cfs
2. WSEL: 5774.34, 43.7cfs
3%
4 Bottom elevation=5775.05, 4.1 side slopes, flow depth=1.87'
50
Include discussion on where information shown in SAVD table came from
The Jimmy Camp Creek drainage basin which is currently a
Pike County regulations require drainage and bridge fees to be
reimbursement process.

Subject: Text Box
Page Label: 11
Author: CDurham
Date: 1/31/2022 4:28:54 PM
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Include discussion on where information shown in SAVD table came from

drainage basin which is require drainage and bridge fees
2022
ie 2021 drainage fees previous acre per Resolution

Subject: Callout
Page Label: 11
Author: CDurham
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2022

are \$19,752, million 18-470.

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\$19,752,

currently a ge fees to be \$21,134 are \$19,752,

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Page Label: 11
Author: CDurham
Date: 1/31/2022 4:29:56 PM
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\$21,134

orson Ranch are \$924 and

Subject: Highlight
Page Label: 11
Author: CDurham
Date: 1/31/2022 4:30:04 PM
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\$924


orson Ranch are \$924

Subject: Highlight
Page Label: 11
Author: CDurham
Date: 1/31/2022 4:30:05 PM
Status:
Color: 
Layer:
Space:

\$9


116 0024 d1

\$989

Subject: Text Box
Page Label: 11
Author: CDurham
Date: 1/31/2022 4:30:29 PM
Status:
Color: 
Layer:
Space:

\$989


re \$19,752,
tion 18-470

Subject: Highlight
Page Label: 11
Author: CDurham
Date: 1/31/2022 4:30:34 PM
Status:
Color: 
Layer:
Space:

18-470


in 18-470.

21-468

Subject: Text Box
Page Label: 11
Author: CDurham
Date: 1/31/2022 4:30:58 PM
Status:
Color: 
Layer:
Space:

21-468

Update table
based on 2022
fees


Subject: Text Box
Page Label: 12
Author: CDurham
Date: 1/31/2022 4:31:20 PM
Status:
Color: 
Layer:
Space:

Update table based on 2022 fees

136 \$44,440


Where was riprap? Not
shown on map anywhere. If
riprap is used, please label
and include sizing
calculations.

\$6,000
\$1,435
\$7,435

Subject: Callout
Page Label: 12
Author: CDurham
Date: 1/31/2022 4:32:04 PM
Status:
Color: 
Layer:
Space:

Where was riprap? Not shown on map anywhere.
If riprap is used, please label and include sizing
calculations.

| | | |
|--|----------|-------|
| | | |
| | | Total |
| 3 inlets & 1 manhole | | |
| Table 7.1: Public Drainage Facility Co | | |
| Item | Quantity | |
| Rip Rap | 5 | |
| Inlets/Manholes | 3 | |
| 18" Storm | 41 | |
| 24" Storm | 58 | |
| 10" Storm | 600 | |

Subject: Callout
Page Label: 12
Author: CDurham
Date: 1/31/2022 4:32:46 PM
Status:
Color: 
Layer:
Space:

3 inlets & 1 manhole

300
305
'00 Include cost for new
705 items being installed in
Pond

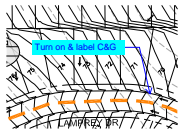
Subject: Text Box
Page Label: 12
Author: CDurham
Date: 1/31/2022 4:36:35 PM
Status:
Color: ■
Layer:
Space:

Include cost for new items being installed in Pond

Include forebay notch sizing.

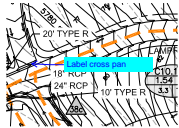
Subject: Text Box
Page Label: 43
Author: CDurham
Date: 1/31/2022 4:38:51 PM
Status:
Color: ■
Layer:
Space:

Include forebay notch sizing.



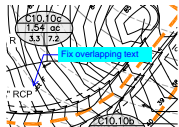
Subject: Callout
Page Label: 59
Author: CDurham
Date: 1/31/2022 4:45:30 PM
Status:
Color: ■
Layer:
Space:

Turn on & label C&G



Subject: Callout
Page Label: 59
Author: CDurham
Date: 1/31/2022 4:45:54 PM
Status:
Color: ■
Layer:
Space:

Label cross pan



Subject: Callout
Page Label: 59
Author: CDurham
Date: 1/31/2022 4:46:34 PM
Status:
Color: ■
Layer:
Space:


Fix overlapping text



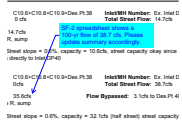
Subject: Callout
Page Label: 59
Author: CDurham
Date: 1/31/2022 4:46:49 PM
Status:
Color: ■
Layer:
Space:


Label MH

UCIS
35.6cfs
ie R, sump

Subject: Highlight
Page Label: 10
Author: CDurham
Date: 1/31/2022 4:50:05 PM
Status:
Color: 
Layer:
Space:


35.6cfs



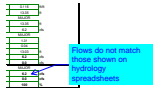
Subject: Callout
Page Label: 10
Author: CDurham
Date: 1/31/2022 4:51:20 PM
Status:
Color: 
Layer:
Space:


SF-2 spreadsheet shows a 100-yr flow of 38.7 cfs. Please update summary accordingly.

| | |
|-------|-------|
| 2.8 | 6.2 |
| 0.0 | 0.0 |
| MINOR | MAJOR |
| 2.8 | 6.2 |
| 0.0 | 0.0 |
| 100 | 100 |

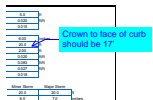
Subject: Highlight
Page Label: 40
Author: CDurham
Date: 1/31/2022 9:04:45 AM
Status:
Color: 
Layer:
Space:


2.8 6.2



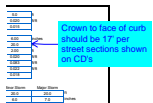
Subject: Callout
Page Label: 40
Author: CDurham
Date: 1/31/2022 9:05:08 AM
Status:
Color: 
Layer:
Space:


Flows do not match those shown on hydrology spreadsheets



Subject: Callout
Page Label: 39
Author: CDurham
Date: 1/31/2022 9:05:29 AM
Status:
Color: 
Layer:
Space:

Crown to face of curb should be 17'



Subject: Callout
Page Label: 37
Author: CDurham
Date: 1/31/2022 9:06:17 AM
Status:
Color: 
Layer:
Space:

Crown to face of curb should be 17' per street sections shown on CD's

Crown to face of curb should be 17'

Subject: Callout
Page Label: 41
Author: CDurham
Date: 1/31/2022 9:06:47 AM
Status:
Color: ■
Layer:
Space:

Crown to face of curb should be 17'

| | |
|-------|-------|
| N/A | N/A |
| MINOR | MAJOR |
| 3.3 | 7.2 |
| 3.3 | 7.2 |

Subject: Highlight
Page Label: 42
Author: CDurham
Date: 1/31/2022 9:07:59 AM
Status:
Color: ■
Layer:
Space:

3.3 7.2

Flows do not match those shown on hydrology spreadsheets

Subject: Callout
Page Label: 42
Author: CDurham
Date: 1/31/2022 9:08:14 AM
Status:
Color: ■
Layer:
Space:

Flows do not match those shown on hydrology spreadsheets

Where does bypass flow go?

Subject: Callout
Page Label: 38
Author: CDurham
Date: 1/31/2022 9:08:44 AM
Status:
Color: ■
Layer:
Space:

Where does bypass flow go?

Update storm sewer design to match information in CD's

Subject: Text Box
Page Label: 53
Author: CDurham
Date: 2/1/2022 10:00:42 AM
Status:
Color: ■
Layer:
Space:

Update storm sewer design to match information in CD's

Update table per current plat status (Creekside South Filing 1, Hills at Lorson Ranch East Filing 17)

Subject: Text Box
Page Label: 56
Author: CDurham
Date: 2/1/2022 12:41:27 PM
Status:
Color: ■
Layer:
Space:

Update table per current plat status (Creekside South Filing 1, Hills at Lorson Ranch East Filing 17)

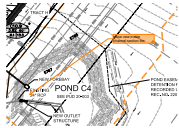
Glenn Reese - EPC Stormwater (5)

APPENDIX D - POND AND ROW

Include forebay sizing calcs.

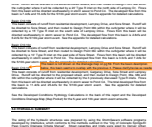
Subject: SW - Textbox
Page Label: 43
Author: Glenn Reese - EPC Stormwater
Date: 1/19/2022 11:10:35 AM
Status:
Color: ■
Layer:
Space:

Include forebay sizing calcs.



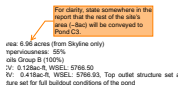
Subject: SW - Textbox with Arrow
Page Label: 59
Author: Glenn Reese - EPC Stormwater
Date: 1/19/2022 11:27:36 AM
Status:
Color: ■
Layer:
Space:

show new trickle channel section too.



Subject: SW - Textbox with Arrow
Page Label: 7
Author: Glenn Reese - EPC Stormwater
Date: 1/19/2022 11:32:18 AM
Status:
Color: ■
Layer:
Space:

This basin is not shown on the drainage map on pg 59. From the basin description below, this basin seems to overlap with the previous 3. Please clarify/revise as needed.



Subject: SW - Textbox with Arrow
Page Label: 11
Author: Glenn Reese - EPC Stormwater
Date: 1/19/2022 11:33:50 AM
Status:
Color: ■
Layer:
Space:

For clarity, state somewhere in the report that the rest of the site's area (~8ac) will be conveyed to Pond C3.



Subject: SW - Textbox with Arrow
Page Label: 1
Author: Glenn Reese - EPC Stormwater
Date: 1/19/2022 11:36:31 AM
Status:
Color: ■
Layer:
Space:

SF221