

ENG-SP22004-R2-PDR-MDDP.pdf Markup Summary

1 (1)

Refer to comments also made on SKP-22-004

Subject: Text Box
Page Index: 1
Date: 12/29/2022 3:25:44 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 1

Refer to comments also made on SKP-22-004

4 (3)

321.37 ac

Subject:
Page Index: 4
Date: 1/5/2023 3:17:48 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 4

1.37

84.74 ac

Subject:
Page Index: 4
Date: 1/5/2023 3:18:17 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 4

74

61.90 ac

Subject:
Page Index: 4
Date: 1/5/2023 3:18:43 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 4

90

11 (2)

mean (Indian Wells Subd. Fig. 1). The flows from this large basin direction across the northwestern portion of the Ranch property. **Flow = 180 cfs** (plus of approximately 100 cfs) of property that direction through the Sterling Ranch property. The combined flow and EA 22A, tend to remain as **flow** traveling in a southerly, **Flow = 700 + 150 cfs, Q₁₀ = 850 cfs** At this location the flows exit the boundary. **Approx. flow** on fairly consistent with the flow at SP-7 (Q₁₀ = 57 cfs, Q₁₀₀ = 277 cfs). Upon development, much of ac to this basin will be routed internally elsewhere. The remaining

Subject: Callout
Page Index: 11
Date: 1/3/2023 4:22:01 PM
Author: CDurham
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Page Label: 11

Include discussion why flows have almost doubled for 5-year scenario. What is the impact to downstream facilities during this interim condition

on the southeastern corner of the Sterling Ranch property. The flows are seen to remain as **flow** traveling in a southerly direction. **Flow = 60 cfs, Q₁₀ = 160 cfs** At this location the flows exit the property. **Approx. flow** on fairly consistent with the flow at SP-7 (Q₁₀ = 57 cfs, Q₁₀₀ = 277 cfs). The development is proposed within the EA boundary and will not be affected.

Subject: Callout
Page Index: 11
Date: 1/3/2023 4:23:03 PM
Author: CDurham
Color: ■
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Page Label: 11

Include discussion why flows have increased for 5-year scenario. What is the impact to downstream facilities during this interim condition

13 (1)

the HGL's in the intersection were represent the revised total area tributary

Have the areas and flows from Retreat at TimberRidge Filing No. 2 at design point 15 been accounted for?

Subject: Text Box
Page Index: 13
Date: 1/3/2023 4:27:03 PM
Author: CDurham
Color: ■
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Page Label: 13

Have the areas and flows from Retreat at TimberRidge Filing No. 2 at design point 15 been accounted for?

14 (1)

these proposed level-spreaders will be present developments. However, the general location v boundary line for Sterling Ranch. (Reference De

Location of future potential level spreader (Basin EX10A) was not shown on sheet 6. Please add to map.

Subject: Text Box
Page Index: 14
Date: 1/4/2023 7:13:39 AM
Author: CDurham
Color: ■
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Page Label: 14

Location of future potential level spreader (Basin EX10A) was not shown on sheet 6. Please add to map.

20 (5)

eat at TimberR
n a natural sw
irary sediment

Subject:
Page Index: 20
Date: 1/6/2023 10:05:04 AM
Author: dsdrice
Color: ■
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Page Label: 20

natural

ng with the... these temporary facilities v
ectly into Basin P1-E1. Basin P1-E1 (Q₁ = 50 cfs, Q₂ =
posed urban residential) at the north end of this Preli
outary to a proposed downstream storm system with

Verify - address areas to the east if being diverted

Subject: Callout
Page Index: 20
Date: 1/6/2023 10:05:42 AM
Author: dsdrice
Color: ■
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Page Label: 20

Verify - address areas to the east if being diverted

ng which east - phase 1, these temporary facilities v
ectly into Basin P1-E1. Basin P1-E1 (Q₁ = 50 cfs, Q₂ =
posed urban residential) at the north end of this Preli
outary to a proposed downstream storm system with

How will they be captured? Provide total flows.

Subject: Callout
Page Index: 20
Date: 1/6/2023 10:07:03 AM
Author: dsdrice
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Page Label: 20

How will they be captured? Provide total flows.

l adjacent Retreat
in a natural sw
temporary

Subject:
Page Index: 20
Date: 1/6/2023 10:06:32 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 20

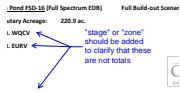
natural



Subject: Callout
Page Index: 20
Date: 1/6/2023 10:08:01 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 20

Address how flows will be conveyed along the east side and to the TSB

22 (1)



Subject: Callout
Page Index: 22
Date: 1/6/2023 8:28:19 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 22

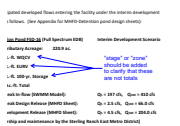
"stage" or "zone" should be added to clarify that these are not totals

23 (5)



Subject: Callout
Page Index: 23
Date: 1/6/2023 8:29:44 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 23

Provide SWMM modeled release rates also



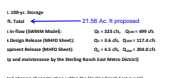
Subject: Callout
Page Index: 23
Date: 1/6/2023 8:28:47 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 23

"stage" or "zone" should be added to clarify that these are not totals



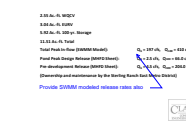
Subject: Callout
Page Index: 23
Date: 1/6/2023 8:40:48 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 23

17.78 Ac. ft proposed



Subject: Callout
Page Index: 23
Date: 1/6/2023 8:30:52 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 23

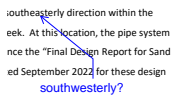
21.56 Ac. ft proposed



Subject: Callout
Page Index: 23
Date: 1/6/2023 8:29:57 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 23

Provide SWMM modeled release rates also

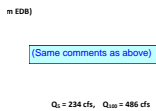
24 (1)



Subject: Callout
Page Index: 24
Date: 1/6/2023 8:34:14 AM
Author: dsdrice
Color: ■
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Space:
Page Label: 24

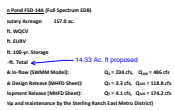
southwesterly?

27 (2)



Subject: Text Box
Page Index: 27
Date: 1/6/2023 8:39:58 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 27

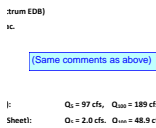
(Same comments as above)



Subject: Callout
Page Index: 27
Date: 1/6/2023 8:42:41 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 27

14.33 Ac. ft proposed

29 (2)



Subject: Text Box
Page Index: 29
Date: 1/6/2023 8:40:24 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 29

(Same comments as above)



Subject: Callout
Page Index: 29
Date: 1/6/2023 8:46:13 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 29

6.44 Ac. ft proposed

Subject:
Page Index: 31
Date: 1/6/2023 8:54:11 AM
Author: dsdrice
Color: [Red]
Layer:
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Page Label: 31

Prior to the school development, these flows will be handled by a temporary sediment basin.



Subject: Text Box
Page Index: 31
Date: 1/6/2023 8:56:18 AM
Author: dsdrice
Color: [Red]
Layer:
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Page Label: 31

See comment memo.

[See comment memo.](#)

prepared by JR Engineering, LLC, dated
uted northeast into Pond FSD-14A. How

Subject: Text Box
Page Index: 31
Date: 1/6/2023 9:55:35 AM
Author: dsdrice
Color: [Red]
Layer:
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Page Label: 31

(Same comments as above)

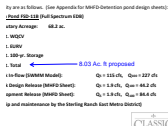
m (DB)

[Same comments as above]

$Q_1 = 115 \text{ cfs}$, $Q_{100} = 227 \text{ cfs}$
est: $Q_1 = 1.9 \text{ cfs}$, $Q_{100} = 44.2 \text{ cfs}$

Subject: Callout
Page Index: 31
Date: 1/6/2023 10:03:05 AM
Author: dsdrice
Color: [Red]
Layer:
Space:
Page Label: 31

8.03 Ac. ft proposed



$Q = 8 \text{ fs}$)

Subject: Text Box
Page Index: 32
Date: 12/29/2022 2:42:02 PM
Author: CDurham
Color: [Red]
Layer:
Space:
Page Label: 32

8

$Q = 16 \text{ fs}$

Subject: Text Box
Page Index: 32
Date: 12/29/2022 2:42:18 PM
Author: CDurham
Color: [Red]
Layer:
Space:
Page Label: 32

16

35 (1)

revision of finding, notes or additional support. The review comment requires a finding the current pre-development flow. As we have the data with the proposed development, including of flows and the multiple use of the site, these development scenarios will determine the flow based on the data already have for all the flows proposed.

Subject: Callout
Page Index: 35
Date: 1/6/2023 10:29:34 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 35

State that the manner of discharge will match existing conditions or easements will be obtained for any changes.

36 (1)

322	2.0	48.3	23.9
33	4	12	17.1
34	18	30	21.3
35	8	100	21.3

Include discussion on DP's where developed 5-year flow is larger than 2018 MDDP 5-year flows.

Subject: Callout
Page Index: 36
Date: 12/29/2022 2:44:08 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 36

Include discussion on DP's where developed 5-year flow is larger than 2018 MDDP 5-year flows

78 (1)

EXISTING C

Include input and output information within SWMM model. Also include actual SWMM model in next submittal.

Subject: Text Box
Page Index: 78
Date: 1/3/2023 3:04:54 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 68

Include input and output information within SWMM model. Also include actual SWMM model in next submittal.

81 (1)

DEVELOPED CON

Include input and output information within SWMM model. Also include actual SWMM model in next submittal.

Subject: Text Box
Page Index: 81
Date: 1/3/2023 3:06:45 PM
Author: CDurham
Color: ■
Layer:
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Page Label: 71

Include input and output information within SWMM model. Also include actual SWMM model in next submittal.

82 (1)

3	5
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See drainage map for comments on summary table.

Subject: Text Box
Page Index: 82
Date: 1/3/2023 3:07:24 PM
Author: CDurham
Color: ■
Layer:
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Page Label: 72

See drainage map for comments on summary table.

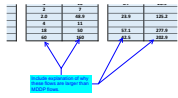
85 (1)

% impervious per basins on these spreadsheets are different than % impervious shown on basin spreadsheets (appendix and maps). Please provide spreadsheet/input showing how % impervious is calculated and update %'s to match throughout calculations.

Subject: Text Box
Page Index: 85
Date: 1/3/2023 3:52:14 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 75

% impervious per basins on these spreadsheets are different than % impervious shown on basin spreadsheets (appendix and maps). Please provide spreadsheet/input showing how % impervious is calculated and update %'s to match throughout calculations.

86 (1)



Subject: Callout
Page Index: 86
Date: 1/3/2023 3:29:09 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 76

Include explanation of why these flows are larger than MDDP flows.

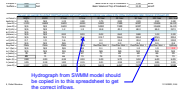
100 (1)



Subject: Callout
Page Index: 100
Date: 1/6/2023 10:44:30 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: [1] Model

Where is this area treated?

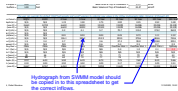
105 (1)



Subject: Callout
Page Index: 105
Date: 1/6/2023 10:02:35 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 134

Hydrograph from SWMM model should be copied in to this spreadsheet to get the correct inflows.

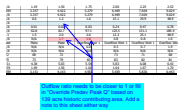
111 (1)



Subject: Callout
Page Index: 111
Date: 1/6/2023 8:42:18 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 140

Hydrograph from SWMM model should be copied in to this spreadsheet to get the correct inflows.

117 (2)



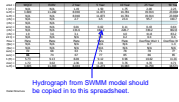
Subject: Callout
Page Index: 117
Date: 12/29/2022 2:45:57 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 146

Outflow ratio needs to be closer to 1 or fill in "Override Predev Peak Q" based on 139 acre historic contributing area. Add a note to this sheet either way



Subject: Callout
Page Index: 117
Date: 1/6/2023 8:45:05 AM
Author: dsdrice
Color: ■
Layer:
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Page Label: 146

Hydrograph from SWMM model should be copied in to this spreadsheet to get the correct inflows.



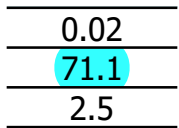
Subject: Callout
Page Index: 123
Date: 1/6/2023 8:32:38 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 152

Hydrograph from SWMM model should be copied in to this spreadsheet.



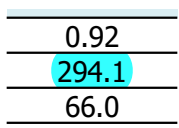
Subject:
Page Index: 123
Date: 1/6/2023 8:24:50 AM
Author: dsdrice
Color: ■
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Space:
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The user can override the default CUHP hydrographs and runoff volumes by entering new values in the Inflow Hydrographs table (Columns W through AF).



Subject:
Page Index: 129
Date: 1/6/2023 8:31:43 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 158

71.1



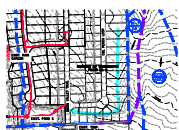
Subject:
Page Index: 129
Date: 1/6/2023 8:31:56 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 158

294.1

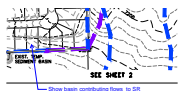


Subject: Callout
Page Index: 129
Date: 1/6/2023 8:42:04 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 158

Hydrograph from SWMM model should be copied in to this spreadsheet to get the correct inflows.



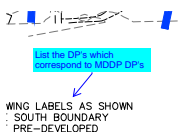
Subject:
Page Index: 134
Date: 1/6/2023 9:41:05 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: [1] SHEET 1



Subject: Callout
Page Index: 134
Date: 1/6/2023 9:41:47 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: [1] SHEET 1

Show basin contributing flows to SR

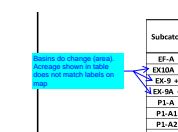
136 (1)



Subject: Callout
Page Index: 136
Date: 1/3/2023 3:44:19 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 3

List the DP's which correspond to MDDP DP's

137 (2)



Subject: Callout
Page Index: 137
Date: 1/3/2023 3:45:37 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 1

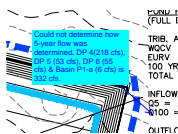
Basins do change (area). Acreage shown in table does not match labels on map



Subject: Callout
Page Index: 137
Date: 1/6/2023 9:58:20 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: [1] SHEET 1

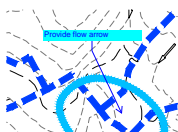
Label this basin if it's contributing to the swale

138 (18)



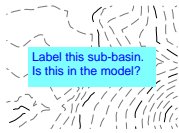
Subject: Callout
Page Index: 138
Date: 1/3/2023 3:48:39 PM
Author: CDurham
Color: ■
Layer:
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Page Label: [1] SHEET 2

Could not determine how 5-year flow was determined. DP 4(218 cfs), DP 5 (53 cfs), DP 6 (55 cfs) & Basin P1-a (6 cfs) is 332 cfs.



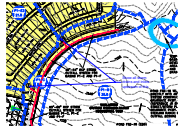
Subject: Callout
Page Index: 138
Date: 12/29/2022 2:49:00 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 2

Provide flow arrow



Subject: Text Box
Page Index: 138
Date: 12/29/2022 2:50:24 PM
Author: CDurham
Color: ■
Layer:
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Page Label: [1] SHEET 2

Label this sub-basin. Is this in the model?



Subject: Callout
Page Index: 138
Date: 1/6/2023 9:58:44 AM
Author: dsdrice
Color: ■
Layer:
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Page Label: [1] SHEET 2

Show all storm drains and inlets upstream of this



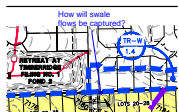
Subject: Callout
Page Index: 138
Date: 1/6/2023 9:43:26 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: [1] SHEET 2

Provide DP and flows



Subject: Callout
Page Index: 138
Date: 1/6/2023 9:43:52 AM
Author: dsdrice
Color: ■
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Page Label: [1] SHEET 2

Call out swale in lots or tract

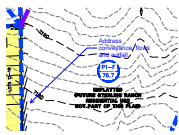


Subject: Callout
Page Index: 138
Date: 1/6/2023 9:46:29 AM
Author: dsdrice
Color: ■
Layer:
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Page Label: [1] SHEET 2

How will swale flows be captured?

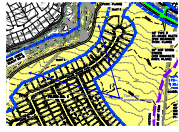


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Page Index: 138
Date: 1/6/2023 9:47:12 AM
Author: dsdrice
Color: ■
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Page Label: [1] SHEET 2



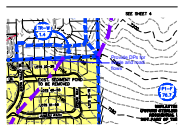
Subject: Callout
Page Index: 138
Date: 1/6/2023 9:47:57 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: [1] SHEET 2

Address conveyance, flows and outfall



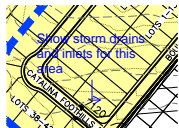
Subject: Callout
Page Index: 138
Date: 1/6/2023 9:49:57 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: [1] SHEET 2

Too many proposed contours



Subject: Callout
Page Index: 138
Date: 1/6/2023 9:57:08 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: [1] SHEET 2

Provide DPs for swale and road flows



Subject: Callout
Page Index: 138
Date: 1/6/2023 9:59:33 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: [1] SHEET 2

Show storm drains and inlets for this area



Subject: Callout
Page Index: 138
Date: 1/6/2023 10:00:09 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: [1] SHEET 2

Show storm drains and inlets for this area



Subject:
Page Index: 138
Date: 1/6/2023 10:51:31 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: [1] SHEET 2



Subject:
Page Index: 138
Date: 1/6/2023 10:51:31 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: [1] SHEET 2



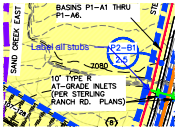
Subject: Callout
Page Index: 138
Date: 1/6/2023 10:52:57 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: [1] SHEET 2

Too many contours



Subject: Callout
Page Index: 138
Date: 1/6/2023 10:54:03 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: [1] SHEET 2

Areas of concern for cross-lot drainage. Provide flow arrows for swales



Subject: Callout
Page Index: 138
Date: 1/6/2023 10:55:29 AM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: [1] SHEET 2

Label all stubs

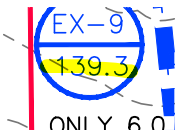
139 (8)

(Ac)	(Ac)	(%)
37.3	6,500	60%
25.8	6,500	60%
63.1		60%

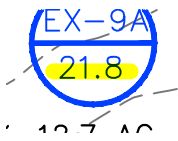
Areas appear to be switched for these 2 basins


Subject: Callout
Page Index: 139
Date: 1/3/2023 3:49:29 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 3

Areas appear to be switched for these 2 basins




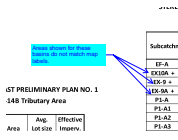
Subject: Highlight
Page Index: 139
Date: 1/3/2023 3:49:54 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 3




Subject: Highlight
Page Index: 139
Date: 1/3/2023 3:49:56 PM
Author: CDurham
Color: 
Layer:
Space:
Page Label: [1] SHEET 3




Subject: Highlight
Page Index: 139
Date: 1/3/2023 3:49:58 PM
Author: CDurham
Color: 
Layer:
Space:
Page Label: [1] SHEET 3



Subject: Callout
Page Index: 139
Date: 1/3/2023 3:50:34 PM
Author: CDurham
Color: 
Layer:
Space:
Page Label: [1] SHEET 3


Areas shown for these basins do not match map labels.



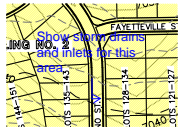
Subject: Cloud+
Page Index: 139
Date: 1/6/2023 9:31:42 AM
Author: dsdrice
Color: 
Layer:
Space:
Page Label: [1] SHEET 3


See comment memo



Subject: Callout
Page Index: 139
Date: 1/6/2023 9:37:05 AM
Author: dsdrice
Color: 
Layer:
Space:
Page Label: [1] SHEET 3

Show all storm drains and inlets upstream of this



Subject: Callout
Page Index: 139
Date: 1/6/2023 10:00:34 AM
Author: dsdrice
Color: 
Layer:
Space:
Page Label: [1] SHEET 3

Show storm drains and inlets for this area