

ENG-SP22004-R1-PDR.pdf Markup Summary

1 (2)

PCD Project No.
SP-22-004

Subject: Text Box
Page Index: 1
Date: 8/2/2022 6:05:11 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 1

SP-22-004

(Coordinate with
SKP-22-004
comments)

Subject: Text Box
Page Index: 1
Date: 8/17/2022 2:26:42 PM
Author: dsdrice
Color: ■
Layer:
Space:
Page Label: 1

(Coordinate with SKP-22-004 comments)

6 (4)

the large acreage north up to the top of flows within Sand Creek that are shown. These flows are as follows: present $Q_{10} = 430$ cfs $Q_{100} = 1487$ cfs. However, the focus of this development proposed. As mentioned Fork of Sand Creek. The following

Subject: Highlight
Page Index: 6
Date: 8/4/2022 11:36:45 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 6

$Q_{10} = 430$ cfs $Q_{100} = 1487$ cfs

the top of flows within Sand Creek that are shown. These flows are as follows: present $Q_{10} = 430$ cfs $Q_{100} = 1487$ cfs. However, the focus of this development proposed. As mentioned Fork of Sand Creek. The following

Subject: Callout
Page Index: 6
Date: 8/4/2022 11:38:00 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 6

Flows do not match MDDP excerpt shown in appendix. See comments on drainage map.

MDDP proposes developed flows within the DBPS and FEMA currently show. These of the TimberRidge Development) $Q_{10} = 430$ cfs $Q_{100} = 1487$ cfs. However, the adjacent residential development proposed site lie within the East Fork of Sand Creek. The following development flow design points for the pro

Subject: Highlight
Page Index: 6
Date: 8/4/2022 11:37:38 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 6

$Q_{10} = 713$ cfs $Q_{100} = 1911$ cfs

is Include area of each basin within discussion.

Subject: Text Box
Page Index: 6
Date: 8/4/2022 11:40:11 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 6

Include area of each basin within discussion.

1 south end of the basin as the topography becomes steeper and proposed Sterling Ranch Road crossing. The existing flows exit the boundary at Design Point 4. Given the difference in hydrologic model (2) these flows are fairly consistent with the flows determined by the 22 cfs. **Did not see a corresponding DP in the MDDP map to compare with DP 4 or verify flows noted. See additional comments on drainage map.**

Subject: Text Box
Page Index: 8
Date: 8/4/2022 12:02:22 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 8

Did not see a corresponding DP in the MDDP map to compare with DP 4 or verify flows noted. See additional comments on drainage map.

define the westerly edge of the East Fork basin. This basin (2) & (3) and (2) & (3). Unlike the previous basin, the flows leave the property along the south boundary at Design Point 6, with the flows determined by the MDDP (2) = 24 cfs, (3) = 17 cfs. **Did not see a corresponding DP in the MDDP map to compare with DP 6 or verify flows noted. See additional comments on drainage map.**

Subject: Text Box
Page Index: 8
Date: 8/4/2022 12:03:31 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 8

Did not see a corresponding DP in the MDDP map to compare with DP 6 or verify flows noted. See additional comments on drainage map.

combination of approximately 1.0 acre in property area (2) of the Sterling Ranch property. The combined flows exit flow traveling in a westerly direction towards (2) At this location the flows exit the property along the fairly consistent with the flows determined by the 178 cfs. **Did not see a corresponding DP in the MDDP map to compare with DP 7 or verify flows noted. See additional comments on drainage map.**

Subject: Text Box
Page Index: 9
Date: 8/4/2022 12:55:37 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 9

Did not see a corresponding DP in the MDDP map to compare with DP 7 or verify flows noted. See additional comments on drainage map.

r of the Sterling Ranch property. The combined flows exit flow traveling in a southerly direction towards (2) At this location the flows exit the property along the fairly consistent with the flows determined by the 125 cfs. **Did not see a corresponding DP in the MDDP map to compare with DP 56 or verify flows noted. See additional comments on drainage map.**



Subject: Text Box
Page Index: 9
Date: 8/4/2022 12:57:01 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 9

Did not see a corresponding DP in the MDDP map to compare with DP 56 or verify flows noted. See additional comments on drainage map.

COMMENT NO. 2 **Indicate the new pond name**
Review the amendment to the Sterling Ranch MDDP (2) Consultation, approved June 2018. Amendment No. 1 was (2) dated October, 2021. All existing basin hydrology, concept all the same except for the following proposed changes:
Sterling Ranch MDDP Amendment No. 1 - Basin FSD-16A and

Subject: Callout
Page Index: 10
Date: 8/4/2022 12:59:18 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 10

Include County project number that was associated with both of these reports.

ment No. 1, Ponds FSD-16A and spectrum facility located at the (2) Road. **Indicate the new pond name**
om the East Fork Sand Creek (2) sposes to continue to release (2) establish a flow to

Subject: Callout
Page Index: 10
Date: 8/4/2022 1:07:54 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 10

Indicate the new pond name

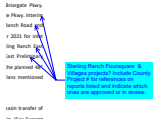
P1-D 31.4 Ac.
TR-W 1.4 Ac.

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

Subject: Text Box
Page Index: 10
Date: 8/4/2022 1:17:11 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 10

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

11 (2)



Subject: Callout
Page Index: 11
Date: 8/4/2022 1:19:33 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 11

Sterling Ranch Foursquare & Villages projects? Include County Project # for references on reports listed and indicate which ones are approved or in review.

nd pipe sizes through this corridor) along with a small preliminary Plan No. 1 north of Briargate (42 lots) and last PUD No. 2 development. The outfall for this facility CP storm system as designed by JR Engineering, LLC as below. [Include where the system outfalls to.](#)

Subject: Text Box
Page Index: 11
Date: 8/4/2022 1:20:02 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 11

Include where this system outfalls to.

he original MDOP as approved in 2018 proposed for a fair approximately 267 acres from East Fork Sand Creek into 1 (below) While this transfer was still kept within the overall t

14 (4)

ment further to the east within Basin EX204, additional level need. [Indicate possible location of Future level spreader on developed drainage plan.](#)

Subject: Text Box
Page Index: 14
Date: 8/4/2022 1:23:01 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 14

Indicate possible location of Future level spreader on developed drainage plan

within Basin EX204, additional level spreader facilities will also be required. [Indicate possible location of Future level spreader on developed drainage plan.](#)

Subject: Callout
Page Index: 14
Date: 8/4/2022 1:23:41 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 14

Villages at Sterling Ranch? Include county project #.

full build-out, a temporary pond to store these released treated flows pre-developed flows for this condition. [Include discussion on Ponds FSD-11 & FSD-14A](#)

Subject: Text Box
Page Index: 14
Date: 8/4/2022 1:29:38 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 14

Include discussion on Ponds FSD-11 & FSD-14A

PROPOSED DRAINAGE CONDITION
As described in the General Notes

No. 1 development. They will be designed to handle development and the two other Starting Ranch East lots No. 2 and No. 3. (Submitted concurrently but under

Subject: Callout
Page Index: 14
Date: 8/4/2022 1:30:23 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 14

Foursquare & Villages?

16 (3)

List what basins these are. Indicate that they will be captured and treated within TimberRidge development and release directly into Sand Creek.

Subject: Text Box
Page Index: 16
Date: 8/4/2022 1:43:42 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 16

List what basins these are. Indicate that they will be captured and treated within TimberRidge development and release directly into Sand Creek.

This facility will help mitigate the impact of this proposal. For both basins TR-V & TR-W will continue to use the existing swale that directs both towards the temporary sedimentation pond, how does 1 end up in Basins P1-F and the other in P1-E?

Subject: Text Box
Page Index: 16
Date: 8/4/2022 1:41:08 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 16

If both basins TR-V & TR-W will continue to use the existing swale that directs both towards the temporary sedimentation pond, how does 1 end up in Basins P1-F and the other in P1-E?

Include areas for each basin in the discussion.

Subject: Text Box
Page Index: 16
Date: 8/4/2022 1:49:30 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 16

Include areas for each basin in the discussion.

17 (3)

If flows are split, keep DP 2 & 3 separate.

Subject: Text Box
Page Index: 17
Date: 8/4/2022 1:44:34 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 17

If flows are split, keep DP 2 & 3 separate.

These basins are currently captured in a road runoff swale towards a temporary and constructed wetland for treatment before being back into Phase 1. These basins are currently captured in a road runoff swale towards a temporary and constructed wetland for treatment before being back into Phase 1. These basins are currently captured in a road runoff swale towards a temporary and constructed wetland for treatment before being back into Phase 1.

Subject: Callout
Page Index: 17
Date: 8/4/2022 1:45:34 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 17

Indicate that this flow is at each DP, not the total flow of DP 2 & 3.

Spectrum EDB)
13.1 ac.
In-flow rates do not match MHFD spreadsheet
with 4:1 max. slopes
 $Q_1 = 97 \text{ cfs}$, $Q_{100} = 189 \text{ cfs}$
 $Q_2 = 11 \text{ cfs}$, $Q_{100} = 95 \text{ cfs}$

Subject: Callout
Page Index: 24
Date: 8/4/2022 4:33:26 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 24

In-flow rates do not match MHFD spreadsheet

29 (1)

and narratives will be submitted along with the
such as site-specific address and elevation
temporarily and permanent BMP's, water flow
retaining walls. BMP's will be constructed
before graded and erosion control within 30
days of construction.
Include discussion on downstream facilities, if
any, that will be impacted by the proposed
development and the proposed BMP's.
WARRANTY STATEMENT
Portions of this site are located within a Floodplain as
shown on the Flood Insurance Rate Map (FIRM) and the
Flood Hazard Boundary Map (FHBM) for the
Community 1, 2008 and the previously mentioned CMA
July 23, 2008. See Appendix J, JR Engineering, LLC's

Subject: Text Box
Page Index: 29
Date: 8/4/2022 4:47:25 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 29

Include discussion on downstream facilities, at each DP where flows exit site, and their ability to accept and handle developed flows.

33 (1)

2021
K. "Drainage Letter for Starling Ranch Rd
JR Engineering, LLC, dated December 2
2021
Include MDDP Amendment by JR
Engineering.

Subject: Text Box
Page Index: 33
Date: 8/4/2022 1:03:00 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 33

Include MDDP Amendment by JR Engineering.

68 (2)

Need to provide
SWMM Input
information. Include
calculations for %
impervious, C-values &
time of concentration.

Subject: Text Box
Page Index: 68
Date: 8/3/2022 1:09:45 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 68

Need to provide SWMM Input information. Include calculations for % impervious, C-values & time of concentration.

include
larger scale
map

Subject: Text Box
Page Index: 68
Date: 8/4/2022 9:56:27 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 68

include larger scale map

70 (1)

Out9
Include EX-10 &
EX-13

Subject: Text Box
Page Index: 70
Date: 8/4/2022 9:57:20 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 70

Include EX-10 & EX-13

78 (1)

| | |
|------|---|
| Out9 | 3 |
|------|---|

Include EX-10 & EX-13

Subject: Text Box
Page Index: 78
Date: 8/4/2022 9:57:41 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 78

Include EX-10 & EX-13

85 (2)

Need to provide SWMM Input information. Include calculations for % impervious, C-values & time of coccentration.

Subject: Text Box
Page Index: 85
Date: 8/3/2022 1:10:06 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 85

Need to provide SWMM Input information. Include calculations for % impervious, C-values & time of coccentration.

Include map at larger scale & Clean up labels so they are all readable on map

Subject: Text Box
Page Index: 85
Date: 8/4/2022 9:58:13 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 85

Include map at larger scale & Clean up labels so they are all readable on map

86 (1)

| | |
|------|------|
| P2-A | 1.68 |
| P2-B | 1.68 |

Include all basins in summary table, as shown on drainage map

Subject: Text Box
Page Index: 86
Date: 8/4/2022 9:58:53 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 86

Include all basins in summary table, as shown on drainage map

90 (2)

All DP's are shown in summary table, as shown on drainage map

| | |
|------|------|
| DP1 | 1.68 |
| DP2 | 1.68 |
| DP3 | 1.68 |
| DP4 | 1.68 |
| DP5 | 1.68 |
| DP6 | 1.68 |
| DP7 | 1.68 |
| DP8 | 1.68 |
| DP9 | 1.68 |
| DP10 | 1.68 |

Subject: Callout
Page Index: 90
Date: 8/4/2022 10:01:31 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 90

List DP's as separate items, to correlate with table shown on developed drainage map

All DP's/Outfalls need to be shown and labeled on drainage map

Subject: Text Box
Page Index: 90
Date: 8/4/2022 10:01:48 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 90

All DP's/Outfalls need to be shown and labeled on drainage map

101 (1)

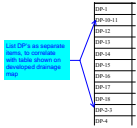
| | |
|------|------|
| P2-A | 2.82 |
| P2-B | 2.82 |

Include all basins in summary table, as shown on drainage map

Subject: Text Box
Page Index: 101
Date: 8/4/2022 9:59:18 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 101

Include all basins in summary table, as shown on drainage map

105 (2)



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

Subject: Callout
Page Index: 105
Date: 8/4/2022 10:02:21 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 105

List DP's as separate items, to correlate with table shown on developed drainage map

All DP's/Outfalls need to be shown and labeled on drainage map

Subject: Text Box
Page Index: 105
Date: 8/4/2022 10:02:41 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 105

All DP's/Outfalls need to be shown and labeled on drainage map

116 (1)

For each pond include a summary table listing all contributing basins with area and percent impervious and determine overall area & imperviousness.

Subject: Text Box
Page Index: 116
Date: 8/3/2022 5:10:46 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 116

For each pond, include a summary table listing all contributing basins with area and percent impervious and determine overall area & imperviousness.

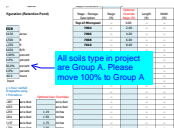
117 (1)

Will review forebay calculations with Final Drainage Report

Subject: Text Box
Page Index: 117
Date: 8/4/2022 4:50:47 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 117

Will review forebay calculations with Final Drainage Report

132 (1)



| | | | |
|--------------|---------|------|----------------|
| Soil Type | Group | Area | Imperviousness |
| Soil Type 1 | Group A | 100% | 100% |
| Soil Type 2 | Group B | 100% | 100% |
| Soil Type 3 | Group C | 100% | 100% |
| Soil Type 4 | Group D | 100% | 100% |
| Soil Type 5 | Group E | 100% | 100% |
| Soil Type 6 | Group F | 100% | 100% |
| Soil Type 7 | Group G | 100% | 100% |
| Soil Type 8 | Group H | 100% | 100% |
| Soil Type 9 | Group I | 100% | 100% |
| Soil Type 10 | Group J | 100% | 100% |
| Soil Type 11 | Group K | 100% | 100% |
| Soil Type 12 | Group L | 100% | 100% |
| Soil Type 13 | Group M | 100% | 100% |
| Soil Type 14 | Group N | 100% | 100% |
| Soil Type 15 | Group O | 100% | 100% |
| Soil Type 16 | Group P | 100% | 100% |
| Soil Type 17 | Group Q | 100% | 100% |
| Soil Type 18 | Group R | 100% | 100% |
| Soil Type 19 | Group S | 100% | 100% |
| Soil Type 20 | Group T | 100% | 100% |
| Soil Type 21 | Group U | 100% | 100% |
| Soil Type 22 | Group V | 100% | 100% |
| Soil Type 23 | Group W | 100% | 100% |
| Soil Type 24 | Group X | 100% | 100% |
| Soil Type 25 | Group Y | 100% | 100% |
| Soil Type 26 | Group Z | 100% | 100% |

Subject: Callout
Page Index: 132
Date: 8/3/2022 5:21:35 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 132

All soils type in project are Group A. Please move 100% to Group A

134 (1)

Outlet design will be reviewed with Final Drainage Reports

| Selected Parameters for Underdrains | |
|-------------------------------------|----|
| N/A | ft |
| N/A | ft |

Subject: Text Box
Page Index: 134
Date: 8/4/2022 10:04:15 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 134

Outlet design will be reviewed with Final Drainage Reports

138 (1)

Subject: Callout
Page Index: 138
Date: 8/3/2022 5:21:50 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 138

All soils type in project are Group A. Please move 100% to Group A

140 (1)

Outlet design will be reviewed with Final Drainage Reports

| Selected Parameters for Underdrains | |
|-------------------------------------|----|
| N/A | ft |
| N/A | ft |

Subject: Text Box
Page Index: 140
Date: 8/4/2022 10:04:28 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 140

Outlet design will be reviewed with Final Drainage Reports

144 (1)

Subject: Callout
Page Index: 144
Date: 8/3/2022 5:23:07 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 144

All soils type in project are Group A. Please move 100% to Group A

146 (2)

Outlet design will be reviewed with Final Drainage Reports

| Selected Parameters for Underdrains | |
|-------------------------------------|----|
| N/A | ft |
| N/A | ft |

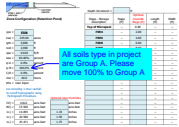
Subject: Text Box
Page Index: 146
Date: 8/4/2022 10:04:40 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 146

Outlet design will be reviewed with Final Drainage Reports

Subject: Callout
Page Index: 146
Date: 8/4/2022 4:51:24 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 146

Flows shown do not match those shown on developed drainage map. Confirm which flows are correct and update as needed.

150 (1)



Subject: Callout
Page Index: 150
Date: 8/3/2022 5:24:06 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 150

All soils type in project are Group A. Please move 100% to Group A

152 (1)



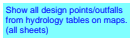
Legend Parameters for Underdrain

| | in | ft |
|-----|----|------|
| N/A | | |
| N/A | | Foot |

Subject: Text Box
Page Index: 152
Date: 8/4/2022 10:04:54 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: 152

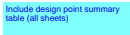
Outlet design will be reviewed with Final Drainage Reports

157 (4)



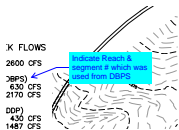
Subject: Text Box
Page Index: 157
Date: 8/3/2022 5:40:47 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 1

Show all design points/outfalls from hydrology tables on maps. (all sheets)



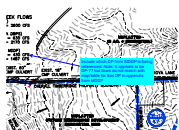
Subject: Text Box
Page Index: 157
Date: 8/3/2022 5:40:37 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 1

Include design point summary table (all sheets)



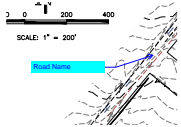
Subject: Callout
Page Index: 157
Date: 8/3/2022 5:27:19 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 1

Indicate Reach & segment # which was used from DBPS



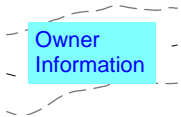
Subject: Callout
Page Index: 157
Date: 8/3/2022 5:28:43 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 1

Include which DP from MDDP is being referenced. Note: It appears to be DP-77 but flows do not match with map/table for that DP in appendix from MDDP



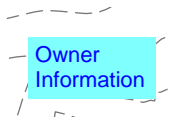
Subject: Callout
Page Index: 158
Date: 8/3/2022 5:41:03 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 2

Road Name



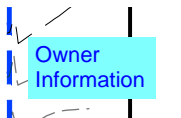
Subject: Text Box
Page Index: 158
Date: 8/3/2022 5:41:29 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 2

Owner Information



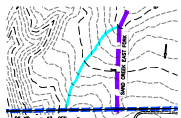
Subject: Text Box
Page Index: 158
Date: 8/3/2022 5:41:33 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 2

Owner Information

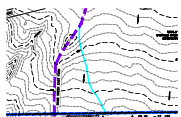


Subject: Text Box
Page Index: 159
Date: 8/3/2022 5:41:47 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 3

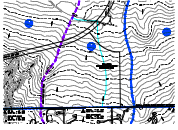
Owner Information




Subject: Highlight
Page Index: 159
Date: 8/3/2022 5:42:22 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 3




Subject: Highlight
Page Index: 159
Date: 8/3/2022 5:42:32 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 3




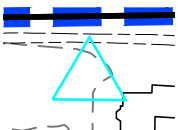
Subject: Highlight
Page Index: 159
Date: 8/3/2022 5:45:27 PM
Author: CDurham
Color: 
Layer:
Space:
Page Label: [1] SHEET 3




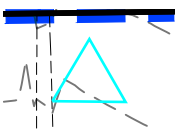
Subject: PolyLine
Page Index: 159
Date: 8/3/2022 5:44:51 PM
Author: CDurham
Color: 
Layer:
Space:
Page Label: [1] SHEET 3




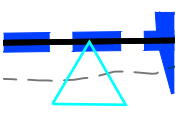
Subject: PolyLine
Page Index: 159
Date: 8/3/2022 5:45:06 PM
Author: CDurham
Color: 
Layer:
Space:
Page Label: [1] SHEET 3




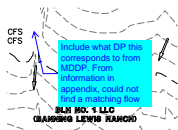
Subject: PolyLine
Page Index: 159
Date: 8/3/2022 5:45:12 PM
Author: CDurham
Color: 
Layer:
Space:
Page Label: [1] SHEET 3



Subject: PolyLine
Page Index: 159
Date: 8/3/2022 5:45:35 PM
Author: CDurham
Color: 
Layer:
Space:
Page Label: [1] SHEET 3

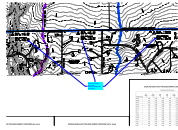


Subject: PolyLine
Page Index: 159
Date: 8/3/2022 5:45:45 PM
Author: CDurham
Color: 
Layer:
Space:
Page Label: [1] SHEET 3



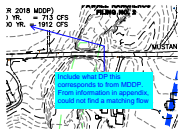
Subject: Callout
Page Index: 159
Date: 8/3/2022 5:46:55 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 3

Include what DP this corresponds to from MDDP. From information in appendix, could not find a matching flow



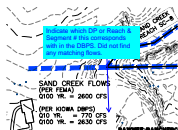
Subject: Callout
Page Index: 159
Date: 8/3/2022 5:47:37 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 3

Did not find these DP's in the referenced appendix information



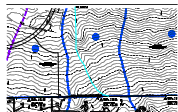
Subject: Callout
Page Index: 159
Date: 8/3/2022 5:47:59 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 3

Include what DP this corresponds to from MDDP. From information in appendix, could not find a matching flow



Subject: Callout
Page Index: 159
Date: 8/3/2022 5:48:56 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 3

Indicate which DP or Reach & Segment # this corresponds with in the DBPS. Did not find any matching flows.

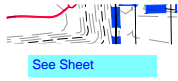


Subject: PolyLine
Page Index: 159
Date: 8/3/2022 5:52:41 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 3

Adjust basins as indicated and add extra outfall design points along property boundary



Subject: Callout
Page Index: 159
Date: 8/3/2022 5:53:51 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 3

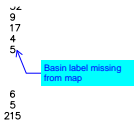


Subject: Text Box
Page Index: 160
Date: 8/3/2022 5:54:42 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 1

See Sheet

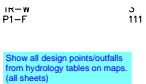
| BASIN_ID | PLAN DIN. | FLOW (CFS) 100% |
|--------------------------|--------------|--------------------|
| (EXISTING BASINS) | | |
| IR-12 | 2 | 9 |
| IR-20 | 10 | 32 |
| IR-4 | 5 | 17 |
| IR-5 | 1 | 4 |
| (PROPOSED BASINS) | | |
| IR-7 | 3 | 6 |
| PI-F | 11 | 215 |

Subject: Highlight
Page Index: 160
Date: 8/4/2022 9:13:19 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 1



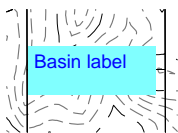
Subject: Callout
Page Index: 160
Date: 8/4/2022 9:13:30 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 1

Basin label missing from map



Subject: Text Box
Page Index: 160
Date: 8/4/2022 9:14:09 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 1

Show all design points/outfalls from hydrology tables on maps. (all sheets)



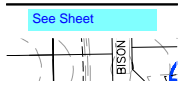
Subject: Text Box
Page Index: 160
Date: 8/4/2022 9:15:33 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 1

Basin label



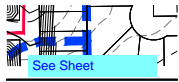
Subject: Text Box
Page Index: 160
Date: 8/4/2022 9:16:52 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 1

Basin label



Subject: Text Box
Page Index: 161
Date: 8/3/2022 5:54:56 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 2

See Sheet



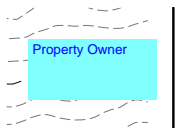
Subject: Text Box
Page Index: 161
Date: 8/3/2022 5:55:04 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 2

See Sheet



Subject: Text Box
Page Index: 161
Date: 8/4/2022 9:17:17 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 2

Basin Label



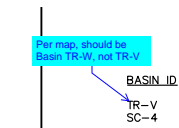
Subject: Text Box
Page Index: 161
Date: 8/4/2022 9:17:34 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 2

Property Owner

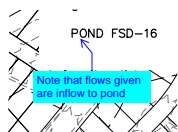
| BASIN_ID | PEAK FLOW (CFS) |
|----------|-----------------|
| TR-V | 27 |
| SC-4 | 6 |
| P1-A | 19 |
| P1-B | 108 |
| P1-C | 185 |
| P1-D | 185 |
| P1-E | 21 |
| P1-F | 185 |
| P1-G | 185 |
| P1-H | 185 |
| P1-I | 185 |
| P1-J | 185 |
| P1-K | 185 |
| P1-L | 185 |
| P1-M | 185 |
| P1-N | 185 |
| P1-O | 185 |
| P1-P | 185 |
| P1-Q | 185 |
| P1-R | 185 |
| P1-S | 185 |
| P1-T | 185 |
| P1-U | 185 |
| P1-V | 185 |
| P1-W | 185 |
| P1-X | 185 |
| P1-Y | 185 |
| P1-Z | 185 |

Subject: Highlight
Page Index: 161
Date: 8/4/2022 9:17:57 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 2

Per map, should be Basin TR-W, not TR-V

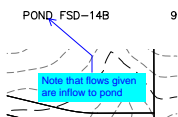


Subject: Callout
Page Index: 161
Date: 8/4/2022 9:18:20 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 2



Subject: Callout
Page Index: 161
Date: 8/4/2022 9:18:59 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 2

Note that flows given are inflow to pond



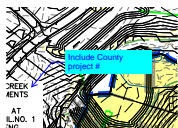
Subject: Callout
Page Index: 161
Date: 8/4/2022 9:19:15 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 2

Note that flows given are inflow to pond



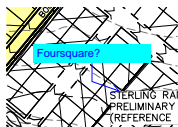
Subject: Text Box
Page Index: 161
Date: 8/4/2022 9:20:07 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 2

Property Owner



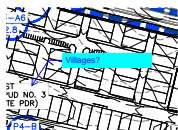
Subject: Callout
Page Index: 161
Date: 8/4/2022 9:21:06 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 2

Include County project #



Subject: Callout
Page Index: 161
Date: 8/4/2022 9:21:34 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 2

Foursquare?



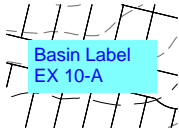
Subject: Callout
Page Index: 161
Date: 8/4/2022 9:21:40 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 2

Villages?



Subject: Callout
Page Index: 161
Date: 8/4/2022 9:22:12 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 2

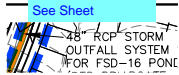
Fix cut off label



Subject: Text Box
Page Index: 161
Date: 8/4/2022 9:22:58 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 2

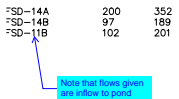
Basin Label EX 10-A

162 (12)



Subject: Text Box
Page Index: 162
Date: 8/3/2022 5:55:15 PM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 3

See Sheet



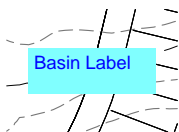
Subject: Callout
Page Index: 162
Date: 8/4/2022 9:19:24 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 3

Note that flows given are inflow to pond



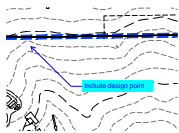
Subject: Text Box
Page Index: 162
Date: 8/4/2022 9:20:20 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 3

Property Owner



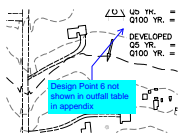
Subject: Text Box
Page Index: 162
Date: 8/4/2022 9:23:40 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 3

Basin Label



Subject: Callout
Page Index: 162
Date: 8/4/2022 9:24:19 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 3

Include design point



Subject: Callout
Page Index: 162
Date: 8/4/2022 9:24:47 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 3

Design Point 6 not shown in outfall table in appendix

| RASHL IN | PEAK FLOW (CFS) | 100 YR. | 50 YR. |
|----------|-----------------|---------|--------|
| SC-1 | 1 | 6 | 20 |
| SC-2 | 4 | 8 | 20 |
| P4-A | 41 | 80 | 123 |
| P4-B | 63 | 123 | 176 |
| P2-A | 10 | 33 | 33 |
| P2-B | 10 | 33 | 33 |
| P2-C | 80 | 176 | 176 |
| P2-D | 68 | 123 | 123 |
| P2-E | 7 | 13 | 13 |
| P2-F | 2 | 5 | 5 |
| P2-G | 3 | 8 | 8 |
| P2-H | 3 | 8 | 8 |
| P2-I | 3 | 8 | 8 |
| P2-J | 3 | 8 | 8 |
| P2-K | 3 | 8 | 8 |
| P2-L | 3 | 8 | 8 |
| P2-M | 3 | 8 | 8 |
| P2-N | 3 | 8 | 8 |
| P2-O | 3 | 8 | 8 |
| P2-P | 3 | 8 | 8 |
| P2-Q | 3 | 8 | 8 |
| P2-R | 3 | 8 | 8 |
| P2-S | 3 | 8 | 8 |
| P2-T | 3 | 8 | 8 |
| P2-U | 3 | 8 | 8 |
| P2-V | 3 | 8 | 8 |
| P2-W | 3 | 8 | 8 |
| P2-X | 3 | 8 | 8 |
| P2-Y | 3 | 8 | 8 |
| P2-Z | 3 | 8 | 8 |

Subject: Highlight
Page Index: 162
Date: 8/4/2022 9:53:26 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 3

| RASHL IN | PEAK FLOW (CFS) | 100 YR. | 50 YR. |
|----------|-----------------|---------|--------|
| SC-1 | 1 | 6 | 20 |
| SC-2 | 4 | 8 | 20 |
| P4-A | 41 | 80 | 123 |
| P4-B | 63 | 123 | 176 |
| P2-A | 10 | 33 | 33 |
| P2-B | 10 | 33 | 33 |
| P2-C | 80 | 176 | 176 |
| P2-D | 68 | 123 | 123 |
| P2-E | 7 | 13 | 13 |
| P2-F | 2 | 5 | 5 |
| P2-G | 3 | 8 | 8 |
| P2-H | 3 | 8 | 8 |
| P2-I | 3 | 8 | 8 |
| P2-J | 3 | 8 | 8 |
| P2-K | 3 | 8 | 8 |
| P2-L | 3 | 8 | 8 |
| P2-M | 3 | 8 | 8 |
| P2-N | 3 | 8 | 8 |
| P2-O | 3 | 8 | 8 |
| P2-P | 3 | 8 | 8 |
| P2-Q | 3 | 8 | 8 |
| P2-R | 3 | 8 | 8 |
| P2-S | 3 | 8 | 8 |
| P2-T | 3 | 8 | 8 |
| P2-U | 3 | 8 | 8 |
| P2-V | 3 | 8 | 8 |
| P2-W | 3 | 8 | 8 |
| P2-X | 3 | 8 | 8 |
| P2-Y | 3 | 8 | 8 |
| P2-Z | 3 | 8 | 8 |

Subject: Highlight
Page Index: 162
Date: 8/4/2022 9:53:32 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 3

| RASHL IN | PEAK FLOW (CFS) | 100 YR. | 50 YR. |
|----------|-----------------|---------|--------|
| SC-1 | 1 | 6 | 20 |
| SC-2 | 4 | 8 | 20 |
| P4-A | 41 | 80 | 123 |
| P4-B | 63 | 123 | 176 |
| P2-A | 10 | 33 | 33 |
| P2-B | 10 | 33 | 33 |
| P2-C | 80 | 176 | 176 |
| P2-D | 68 | 123 | 123 |
| P2-E | 7 | 13 | 13 |
| P2-F | 2 | 5 | 5 |
| P2-G | 3 | 8 | 8 |
| P2-H | 3 | 8 | 8 |
| P2-I | 3 | 8 | 8 |
| P2-J | 3 | 8 | 8 |
| P2-K | 3 | 8 | 8 |
| P2-L | 3 | 8 | 8 |
| P2-M | 3 | 8 | 8 |
| P2-N | 3 | 8 | 8 |
| P2-O | 3 | 8 | 8 |
| P2-P | 3 | 8 | 8 |
| P2-Q | 3 | 8 | 8 |
| P2-R | 3 | 8 | 8 |
| P2-S | 3 | 8 | 8 |
| P2-T | 3 | 8 | 8 |
| P2-U | 3 | 8 | 8 |
| P2-V | 3 | 8 | 8 |
| P2-W | 3 | 8 | 8 |
| P2-X | 3 | 8 | 8 |
| P2-Y | 3 | 8 | 8 |
| P2-Z | 3 | 8 | 8 |

Subject: Highlight
Page Index: 162
Date: 8/4/2022 9:53:37 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 3

| RASHL IN | PEAK FLOW (CFS) | 100 YR. | 50 YR. |
|----------|-----------------|---------|--------|
| SC-1 | 1 | 6 | 20 |
| SC-2 | 4 | 8 | 20 |
| P4-A | 41 | 80 | 123 |
| P4-B | 63 | 123 | 176 |
| P2-A | 10 | 33 | 33 |
| P2-B | 10 | 33 | 33 |
| P2-C | 80 | 176 | 176 |
| P2-D | 68 | 123 | 123 |
| P2-E | 7 | 13 | 13 |
| P2-F | 2 | 5 | 5 |
| P2-G | 3 | 8 | 8 |
| P2-H | 3 | 8 | 8 |
| P2-I | 3 | 8 | 8 |
| P2-J | 3 | 8 | 8 |
| P2-K | 3 | 8 | 8 |
| P2-L | 3 | 8 | 8 |
| P2-M | 3 | 8 | 8 |
| P2-N | 3 | 8 | 8 |
| P2-O | 3 | 8 | 8 |
| P2-P | 3 | 8 | 8 |
| P2-Q | 3 | 8 | 8 |
| P2-R | 3 | 8 | 8 |
| P2-S | 3 | 8 | 8 |
| P2-T | 3 | 8 | 8 |
| P2-U | 3 | 8 | 8 |
| P2-V | 3 | 8 | 8 |
| P2-W | 3 | 8 | 8 |
| P2-X | 3 | 8 | 8 |
| P2-Y | 3 | 8 | 8 |
| P2-Z | 3 | 8 | 8 |

Subject: Highlight
Page Index: 162
Date: 8/4/2022 9:53:40 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 3

Highlighted basins
do not show on this
sheet. Please remove

P4-A
P4-B
P2-A
P2-B
P2-C
P2-D
P2-E
P2-F
P2-G
P2-H
P2-I
P2-J

Subject: Callout
Page Index: 162
Date: 8/4/2022 9:54:10 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 3

Highlighted basins are not shown on this sheet.
Please remove

Indicate all design
points in list, including
all discharges along
property line (DP's 4,
5, 7, 9)

EX10P
DESIG
10
11
12
13
14
15
16
17
18

Subject: Callout
Page Index: 162
Date: 8/4/2022 9:55:14 AM
Author: CDurham
Color: ■
Layer:
Space:
Page Label: [1] SHEET 3

Include all design points in list, including at
discharges along property line (DP's 4, 6 7, 56)