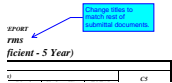# V1_Drainage Report - Final_Comments.pdf Markup Summary
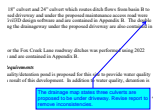
Callout (29)

Subject: Callout
Page Label: 1
Author: lpackman
Date: 1/4/2023 5:32:24 PM
Status:
Color: ■
Layer:
Space:
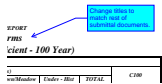
PCD File No. SF-2239

Subject: Callout
Page Label: 31
Author: lpackman
Date: 1/5/2023 1:51:17 PM
Status:
Color: ■
Layer:
Space:

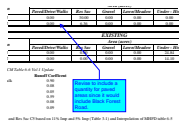Change titles to match rest of submittal documents.

Subject: Callout
Page Label: 26
Author: lpackman
Date: 1/5/2023 12:53:29 PM
Status:
Color: ■
Layer:
Space:

The drainage map states three culverts are proposed to be under driveway. Revise report to remove inconsistencies.
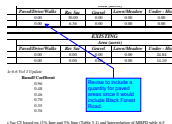

Subject: Callout
Page Label: 32
Author: lpackman
Date: 1/5/2023 2:00:48 PM
Status:
Color: ■
Layer:
Space:

Change titles to match rest of submittal documents.

Subject: Callout
Page Label: 31
Author: lpackman
Date: 1/5/2023 2:20:19 PM
Status:
Color: ■
Layer:
Space:

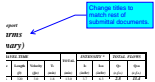Revise to include a quantity for paved areas since it would include Black Forest Road.

Subject: Callout
Page Label: 32
Author: lpackman
Date: 1/5/2023 2:26:55 PM
Status:
Color: ■
Layer:
Space:

Revise to include a quantity for paved areas since it would include Black Forest Road.
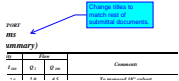
Subject: Callout
Page Label: 33
Author: lpackman
Date: 1/5/2023 2:35:24 PM
Status:
Color: ■
Layer:
Space:

Change titles to match rest of submittal documents.

Subject: Callout
Page Label: 34
Author: lpackman
Date: 1/5/2023 2:35:28 PM
Status:
Color: ■
Layer:
Space:

Change titles to match rest of submittal documents.

Subject: Callout
Page Label: 35
Author: lpackman
Date: 1/5/2023 2:35:31 PM
Status:
Color: ■
Layer:
Space:

Change titles to match rest of submittal documents.
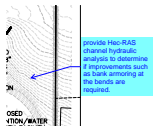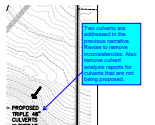

Subject: Callout
Page Label: [1] developed
Author: dsdlaforce
Date: 1/5/2023 3:16:11 PM
Status:
Color: ■
Layer:
Space:

provide Hec-RAS channel hydraulic analysis to determine if improvements such as bank armoring at the bends are required.
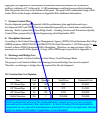

Subject: Callout
Page Label: [1] developed
Author: lpackman
Date: 1/5/2023 3:30:25 PM
Status:
Color: ■
Layer:
Space:

Two culverts are addressed in the previous narrative. Revise to remove inconsistencies. Also remove culvert analysis reports for culverts that are not being proposed.

Subject: Callout
Page Label: 45
Author: lpackman
Date: 1/5/2023 3:38:10 PM
Status:
Color: ■
Layer:
Space:

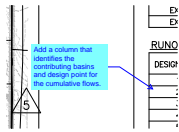Per DCM HW/D should not exceed 1.5. Revise to meet criteria.

Subject: Callout
Page Label: 28
Author: lpackman
Date: 1/5/2023 3:52:29 PM
Status:
Color: ■
Layer:
Space:

Staff recommends removing the predevelopment request since you are no longer processing the preliminary plan application. An Early Grading Permit application is required to do any type of predevelopment grading if the plat is not approved. Revise report to remove information if application is not submitted.
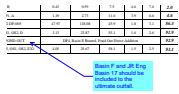

Subject: Callout
Page Label: 47
Author: lpackman
Date: 1/5/2023 3:54:35 PM
Status:
Color: ■
Layer:
Space:

Change titles to match rest of submittal documents.
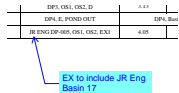

Subject: Callout
Page Label: [1] developed
Author: dsdlaforce
Date: 1/5/2023 3:58:05 PM
Status:
Color: ■
Layer:
Space:

Add a column that identifies the contributing basins and design point for the cumulative flows.
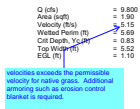

Subject: Callout
Page Label: 35
Author: dsdlaforce
Date: 1/5/2023 4:03:20 PM
Status:
Color: ■
Layer:
Space:

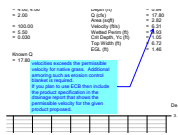Basin F and JR Eng Basin 17 should be included to the ultimate outfall.

Subject: Callout
Page Label: 35
Author: dsdlaforce
Date: 1/5/2023 4:03:38 PM
Status:
Color: ■
Layer:
Space:

EX to include JR Eng Basin 17

Subject: Callout
Page Label: 38
Author: dsdlaforce
Date: 1/5/2023 4:09:48 PM
Status:
Color: ■
Layer:
Space:

velocities exceeds the permissible velocity for native grass. Additional armoring such as erosion control blanket is required.

Subject: Callout
Page Label: 39
Author: dsdlaforce
Date: 1/5/2023 4:13:26 PM
Status:
Color: ■
Layer:
Space:

velocities exceeds the permissible velocity for native grass. Additional armoring such as erosion control blanket is required.
If you plan to use ECB then include the product specification in the drainage report that shows the permissible velocity for the given product proposed.
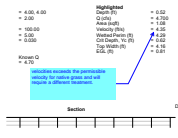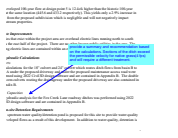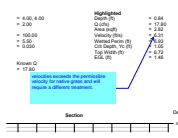

Subject: Callout
Page Label: 56
Author: dsdlaforce
Date: 1/5/2023 4:23:03 PM
Status:
Color: ■
Layer:
Space:

velocities exceeds the permissible velocity for native grass and will require a different treatment.
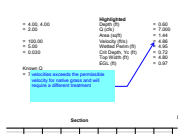

Subject: Callout
Page Label: 26
Author: dsdlaforce
Date: 1/5/2023 4:23:22 PM
Status:
Color: ■
Layer:
Space:

provide a summary and recommendation based on the calculations. Sections of the ditch exceed the permissible velocity for native grass(4 fps) and will require a different treatment.
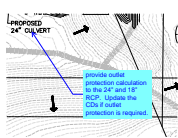

Subject: Callout
Page Label: 59
Author: dsdlaforce
Date: 1/5/2023 4:24:29 PM
Status:
Color: ■
Layer:
Space:

velocities exceeds the permissible velocity for native grass and will require a different treatment.

Subject: Callout
Page Label: 37
Author: dsdlaforce
Date: 1/5/2023 4:26:57 PM
Status:
Color: ■
Layer:
Space:

velocities exceeds the permissible velocity for native grass and will require a different treatment

---

Subject: Callout
Page Label: [1] developed
Author: dsdlaforce
Date: 1/5/2023 5:12:58 PM
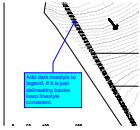**Status:**
Color: ■
Layer:
Space:

provide outlet protection calculation to the 24" and 18" RCP. Update the CDs if outlet protection is required.

Subject: Callout
Page Label: 67
Author: dsdlaforce
Date: 1/5/2023 5:26:02 PM
Status:
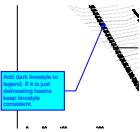**Color:** ■
Layer:
Space:

Revise design to a rectangular notch.

UD-BMP provides calculation the required width. This may simplify construction and future maintenance.
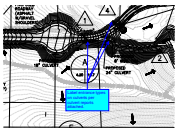Per MHFD a notch should be used for walls.

Subject: Callout
Page Label: [1] UNdeveloped
Author: lpackman
Date: 1/5/2023 7:17:13 AM
Status:
Color: ■
Layer:
Space:

Add dark linestyle to legend. If it is just delineating basins keep linestyle consistent.

Subject: Callout
Page Label: [1] developed
Author: lpackman
Date: 1/5/2023 7:19:02 AM
Status:
Color: ■
Layer:
Space:

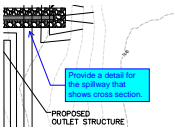Add dark linestyle to legend. If it is just delineating basins keep linestyle consistent.

Subject: Callout
Page Label: [1] developed
Author: lpackman
Date: 1/5/2023 7:56:46 AM
Status:
Color: ■
Layer:
Space:

Label entrance types on culverts per culvert reports attached.

Subject: Callout
Page Label: [1] developed
Author: lpackman
Date: 1/5/2023 8:35:34 AM
Status:
Color: ■
Layer:
Space:

Provide a detail for the spillway that shows cross section.

Cloud (1)

Subject: Cloud
Page Label: [1] developed
Author: dsdlaforce
Date: 1/5/2023 3:12:21 PM
Status:
Color: ■
Layer:
Space:

Cloud+ (1)

Subject: Cloud+
Page Label: 48
Author: lpackman
Date: 1/5/2023 3:58:29 PM
Status:
Color: ■
Layer:
Space:

Revise to match City DCM Vol. 1 table 6-2 rainfall depths.

Highlight (4)

```
= 7.000
= 1.44
= 4.86
= 4.95
= 0.72
```

Subject: Highlight
Page Label: 37
Author: dsdlaforce
Date: 1/5/2023 4:07:34 PM
Status:
Color: ▨
Layer:
Space:

- -

```
= 4.700
= 1.08
= 4.35
= 4.29
= 0.62
```

Subject: Highlight
Page Label: 56
Author: dsdlaforce
Date: 1/5/2023 4:23:01 PM
Status:
Color: ▨
Layer:
Space:

- -

```
= 9.800
= 1.90
= 5.15
= 5.69
```

Subject: Highlight
Page Label: 58
Author: dsdlaforce
Date: 1/5/2023 4:24:25 PM
Status:
Color: ▨
Layer:
Space:

- -
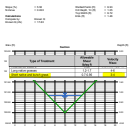
```
= 17.80
= 2.82
= 6.31
= 6.93
= 1.05
```

Subject: Highlight
Page Label: 59
Author: dsdlaforce
Date: 1/5/2023 4:24:29 PM
Status:
Color: ▨
Layer:
Space:

Image (3)

Subject: Image
Page Label: 39
Author: dsdlaforce
Date: 1/5/2023 4:18:19 PM
Status:
Color: ■
Layer:
Space:

Subject: Image
Page Label: 67
Author: dsdlaforce
Date: 1/5/2023 5:22:58 PM
Status:
Color: 🟥
Layer:
Space:

Subject: Image
Page Label: 67
Author: dsdlaforce
Date: 1/5/2023 5:24:59 PM
Status:
Color: 🟥
Layer:
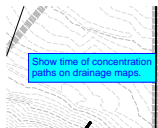**Space:**

Text Box (10)

Subject: Text Box
Page Label: 2
Author: lpackman
Date: 1/4/2023 5:37:07 PM
Status:
Color: 🟦
Layer:
Space:

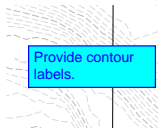Move Appendix A after report contents per table of contents.

Subject: Text Box
Page Label: 18
Author: lpackman
Date: 1/4/2023 5:37:43 PM
Status:
Color: 🟦
Layer:
Space:

Move Appendix B after report contents per table of contents.

Subject: Text Box
Page Label: [1] developed
Author: lpackman
Date: 1/5/2023 3:07:22 PM
Status:
Color: 🟦
Layer:
Space:

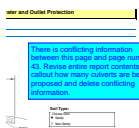Show time of concentration paths on drainage maps.

Subject: Text Box
Page Label: [1] developed
Author: lpackman
Date: 1/5/2023 3:14:22 PM
Status:
Color: 🟦
Layer:
Space:

Provide contour labels.

Subject: Text Box
Page Label: 43
Author: lpackman
Date: 1/5/2023 3:53:59 PM
Status:
Color: ■
Layer:
Space:

There is conflicting information between this page and page number 45. Revise entire report contents to callout how many culverts are being proposed and delete conflicting information.

Subject: Text Box
Page Label: 45
Author: lpackman
Date: 1/5/2023 3:54:03 PM
Status:
Color: ■
Layer:
Space:

There is conflicting information between this page and page number 43. Revise entire report contents to callout how many culverts are being proposed and delete conflicting information.

Subject: Text Box
Page Label: 51
Author: lpackman
Date: 1/5/2023 4:04:11 PM
Status:
Color: ■
Layer:
Space:

Remove any duplicate sheets from report.

Subject: Text Box
Page Label: 30
Author: lpackman
Date: 1/5/2023 4:05:10 PM
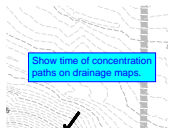**Status:**
Color: ■
Layer:
Space:

Remove duplicated calculations in this appendix.

Subject: Text Box
Page Label: 57
Author: dsdlaforce
Date: 1/5/2023 4:26:20 PM
Status:
Color: ■
Layer:
Space:

This seems to be a duplicate of page 37.

Check the entire drainage report and remove any duplicate documents.

Subject: Text Box
Page Label: [1] UNdeveloped
Author: lpackman
Date: 1/5/2023 8:37:31 AM
Status:
Color: ■
Layer:
Space:

Show time of concentration paths on drainage maps.