

# MDP23002-R2-MDDP.pdf Markup Summary

5 (1)

Report (PDR), prepared by Kinley-Horn, October 28,  
(PDR), prepared by Kinley-Horn, under review.  
the El Paso County "Engineering Criteria Manual", as revised in  
to be in compliance with the El Paso County "Design  
1580 and October 2023 with County approved changes  
City of Colorado Springs, May 2014 Drainage Criteria  
if the report is unchanged from the approved Engineer

**Subject:** Callout  
**Page Index:** 5  
**Date:** 1/16/2024 10:15:57 AM  
**Author:** Jeff Rice - EPC Engineering Review  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 5

the El Paso County "Engineering Criteria Manual",  
as revised in (move before DCM reference)

6 (4)

	110 cfs	110 cfs
i	140 cfs	610 cfs
ii	160 cfs	478 cfs
iii	174 cfs	490 cfs

provide the values and headers for comparison

analyze the identified reaches which include the use of  
and amendments to the identified drainage features  
design parameters, in Table 3, coordinated with  
and Flood Control District Drainage Criteria  
3), prepared by Wright-McLaughlin Engineers, June

**Subject:** Callout  
**Page Index:** 6  
**Date:** 1/16/2024 10:18:47 AM  
**Author:** Jeff Rice - EPC Engineering Review  
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**Page Label:** 6

provide the values and headers for comparison

ized flow was based on a  
posed model. This aligns  
ved Eagleview PDR hydrology  
y of the difference in the  
Preliminary Drainage Re  
rainage

**Subject:**  
**Page Index:** 6  
**Date:** 1/16/2024 10:19:11 AM  
**Author:** Jeff Rice - EPC Engineering Review  
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**Page Label:** 6

the difference

ies which include  
identified drainage  
, in Table 3, con  
l District Drainage  
lLaughlin Engin

**Subject:**  
**Page Index:** 6  
**Date:** 1/16/2024 10:20:06 AM  
**Author:** Jeff Rice - EPC Engineering Review  
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**Layer:**  
**Space:**  
**Page Label:** 6

Table 3,

sed to analyze the identified reaches which inclu  
Proposed amendments to the identified drain  
ing hydraulic design parameters, in Table 3, o  
bin Drainage and Flood Control District Drai  
1, 2 and 3), prepared by Wright-McLaughlin Eng

Table 4

6		

Kiml

**Subject:** Callout  
**Page Index:** 6  
**Date:** 1/16/2024 10:20:23 AM  
**Author:** Jeff Rice - EPC Engineering Review  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 6

Table 4

7 (1)

Locations that have higher Fr # need to be  
addressed with a footnote to the table (compare to  
County criteria), change the value, or design  
revisions.



**Subject:** Callout  
**Page Index:** 7  
**Date:** 1/16/2024 10:27:40 AM  
**Author:** Jeff Rice - EPC Engineering Review  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 7

Locations that have higher Fr # need to be  
addressed with a footnote to the table (compare to  
County criteria), change the value, or design  
revisions.

8 (1)

provided in Table 4

**Subject:** Table 4  
**Page Index:** 8  
**Date:** 1/16/2024 10:23:15 AM  
**Author:** Jeff Rice - EPC Engineering Review  
**Color:**    
**Layer:**  
**Space:**  
**Page Label:** 8

**Table 4:** Re

9 (4)

0.70 to 0.75

in Table 4, the analysis of the conditions are provided

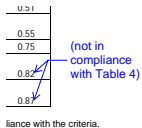
**Subject:** Table 4  
**Page Index:** 9  
**Date:** 1/16/2024 10:23:22 AM  
**Author:** Jeff Rice - EPC Engineering Review  
**Color:**    
**Layer:**  
**Space:**  
**Page Label:** 9

**0.87**

**Subject:** 0.87  
**Page Index:** 9  
**Date:** 1/16/2024 10:24:13 AM  
**Author:** Jeff Rice - EPC Engineering Review  
**Color:**    
**Layer:**  
**Space:**  
**Page Label:** 9

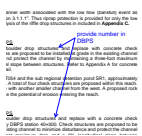
**0.82**

**Subject:** .82  
**Page Index:** 9  
**Date:** 1/16/2024 10:24:16 AM  
**Author:** Jeff Rice - EPC Engineering Review  
**Color:**    
**Layer:**  
**Space:**  
**Page Label:** 9



**Subject:** Callout (not in compliance with Table 4)  
**Page Index:** 9  
**Date:** 1/16/2024 10:28:26 AM  
**Author:** Jeff Rice - EPC Engineering Review  
**Color:**    
**Layer:**  
**Space:**  
**Page Label:** 9

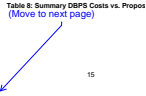
10 (1)



**Subject:** Callout provide number in DBPS  
**Page Index:** 10  
**Date:** 1/16/2024 10:40:35 AM  
**Author:** Jeff Rice - EPC Engineering Review  
**Color:**    
**Layer:**  
**Space:**  
**Page Label:** 10



15 (1)



**Subject:** Callout  
**Page Index:** 15  
**Date:** 1/16/2024 11:20:44 AM  
**Author:** Jeff Rice - EPC Engineering Review  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 15

(Move to next page)

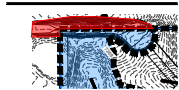
23 (1)



**Subject:** Callout  
**Page Index:** 23  
**Date:** 1/16/2024 12:20:12 PM  
**Author:** Jeff Rice - EPC Engineering Review  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] PR DRN MAP - 150sc

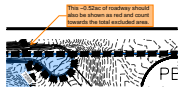
Note: The existing stock ponds need to be addressed in the FDR if they haven't been already. Show it on the drainage plans. Are water rights in place? Has embankment stability analysis and maintenance plan been completed if it is to remain?

25 (3)



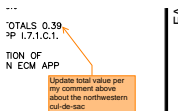
**Subject:** Area Measurement  
**Page Index:** 25  
**Date:** 1/11/2024 2:25:44 PM  
**Author:** Glenn Reese - EPC Stormwater  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] PR TRIB MAP - 150sc

22,681 sf



**Subject:** SW - Textbox with Arrow  
**Page Index:** 25  
**Date:** 1/11/2024 2:25:44 PM  
**Author:** Glenn Reese - EPC Stormwater  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] PR TRIB MAP - 150sc

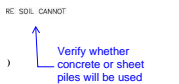
This ~0.52ac of roadway should also be shown as red and count towards the total excluded area.



**Subject:** SW - Textbox with Arrow  
**Page Index:** 25  
**Date:** 1/11/2024 2:26:18 PM  
**Author:** Glenn Reese - EPC Stormwater  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] PR TRIB MAP - 150sc

Update total value per my comment above about the northwestern cul-de-sac

27 (1)



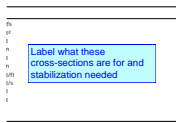
**Subject:** Callout  
**Page Index:** 27  
**Date:** 1/16/2024 11:32:22 AM  
**Author:** Jeff Rice - EPC Engineering Review  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 28

Verify whether concrete or sheet piles will be used

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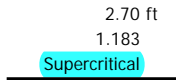
388 (2)

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**Subject:** Text Box  
**Page Index:** 388  
**Date:** 1/16/2024 11:30:11 AM  
**Author:** Jeff Rice - EPC Engineering Review  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 381

Label what these cross-sections are for and stabilization needed



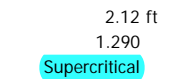
**Subject:**  
**Page Index:** 388  
**Date:** 1/16/2024 11:30:22 AM  
**Author:** Jeff Rice - EPC Engineering Review  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 381

Supercritical

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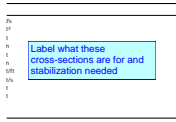
389 (2)

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**Subject:**  
**Page Index:** 389  
**Date:** 1/16/2024 11:30:40 AM  
**Author:** Jeff Rice - EPC Engineering Review  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 382

Supercritical



**Subject:** Text Box  
**Page Index:** 389  
**Date:** 1/16/2024 11:30:46 AM  
**Author:** Jeff Rice - EPC Engineering Review  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 382

Label what these cross-sections are for and stabilization needed

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398 (1)

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**Subject:** Callout  
**Page Index:** 398  
**Date:** 1/16/2024 11:29:31 AM  
**Author:** Jeff Rice - EPC Engineering Review  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] Layout1

Show centerline alignment and stationing

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399 (2)

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**Subject:** Snapshot  
**Page Index:** 399  
**Date:** 1/16/2024 11:41:10 AM  
**Author:** Jeff Rice - EPC Engineering Review  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 400

**Subject:** Text Box  
**Page Index:** 399  
**Date:** 1/16/2024 11:41:38 AM  
**Author:** Jeff Rice - EPC Engineering Review  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 400

Replace table from previous report

Replace table from previous report

453 (2)

**Subject:** Text Box  
**Page Index:** 453  
**Date:** 1/16/2024 11:12:26 AM  
**Author:** Jeff Rice - EPC Engineering Review  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 454

Identify segments that are outside of the project area

Identify segments that are outside of the project area

Dist	Flow rate	Top Width	Friction #/100
1.2	0.01	0.43	0.17
1.4	0.04	0.13	0.13
1.4	0.44	0.41	0.13

127.19	95.14	0.56
96.67	85.74	0.77

Add shear stress calculations to this or another table

**Subject:** Text Box  
**Page Index:** 453  
**Date:** 1/16/2024 11:17:25 AM  
**Author:** Jeff Rice - EPC Engineering Review  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 454

Add shear stress calculations to this or another table

483 (1)

**Subject:** Rectangle  
**Page Index:** 483  
**Date:** 1/16/2024 11:28:06 AM  
**Author:** Jeff Rice - EPC Engineering Review  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 476

Point	Station	Chain	Length	Area
01001.00	0	0.00	0.00	0.00
01001.00	0	0.00	0.00	0.00
01001.00	0	0.00	0.00	0.00
01001.00	0	0.00	0.00	0.00
01001.00	0	0.00	0.00	0.00
01001.00	0	0.00	0.00	0.00
01001.00	0	0.00	0.00	0.00
01001.00	0	0.00	0.00	0.00
01001.00	0	0.00	0.00	0.00
01001.00	0	0.00	0.00	0.00

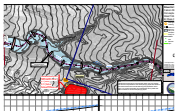
484 (1)

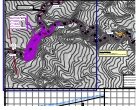
**Subject:** Rectangle  
**Page Index:** 484  
**Date:** 1/16/2024 11:27:52 AM  
**Author:** Jeff Rice - EPC Engineering Review  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 477

Point	Station	Chain	Length	Area
01001.00	0	0.00	0.00	0.00
01001.00	0	0.00	0.00	0.00
01001.00	0	0.00	0.00	0.00
01001.00	0	0.00	0.00	0.00
01001.00	0	0.00	0.00	0.00
01001.00	0	0.00	0.00	0.00
01001.00	0	0.00	0.00	0.00
01001.00	0	0.00	0.00	0.00
01001.00	0	0.00	0.00	0.00
01001.00	0	0.00	0.00	0.00

515 (1)

**Subject:** PolyLine  
**Page Index:** 515  
**Date:** 1/16/2024 11:26:23 AM  
**Author:** Jeff Rice - EPC Engineering Review  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 508





**Subject:** Rectangle  
**Page Index:** 516  
**Date:** 1/16/2024 11:26:02 AM  
**Author:** Jeff Rice - EPC Engineering Review  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 509