ENG-CDR20005-R2-FDR-Redlines.pdf Markup Summary

1 (2)		
210 http: Engineering Review Roman 2019 (1754 Jeffice Development (1945-2017) EPC Planning & Commanly Development Dependence	Subject: EPC ENG Review Page Index: 1 Date: 10/30/2020 2:12:20 PM Author: dsdrice Color: Layer: Space: Page Label: 1	
See comment letter also.	Subject: Text Box Page Index: 1 Date: 10/30/2020 2:12:32 PM Author: dsdrice Color: Layer: Space: Page Label: 1	See comment letter also.
4 (1)		
 All more than the strength of the	Subject: Callout Page Index: 4 Date: 10/30/2020 2:14:03 PM Author: dsdrice Color: Layer: Space: Page Label: 4	verify with updated plat
5 (3)		
draft (profile)	Subject: Callout Page Index: 5 Date: 10/30/2020 2:15:34 PM Author: dsdrice Color: Layer: Space: Page Label: 5	and (channel construction, etc.)
• with Astim Number SPA-2015-04128-0518 spin. For the somewhere of Society Rack where the source of Society Rack where the source of Society Rack and Society Rack and Society Rack and Society Rack and Society Rack and Society Rack and Society Rack and Board Rack and Society Rack and Society Rack and Society Rack and Society and Board Rack and Society Rack and Society and Society Rack and Society Rack and Society Rack and Society and Society Rack and Society Rack and Society Rack and Society and Society Rack and Society Rack and Society Rack and Society Rack and Society and Society Rack and Society Rack and Society Rack and Society Rack and Society and Society Rack and Society R	Subject: Callout Page Index: 5 Date: 10/30/2020 2:16:18 PM Author: dsdrice Color: Layer: Space: Page Label: 5	specify name of plan set.
s of 49.5387 acr studied in the "S	Subject: Page Index: 5 Date: 10/30/2020 2:19:49 PM Author: dsdrice Color: Layer: Space: Page Label: 5	49.5387

6 (1)		
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7 (1)		
Basin A consist all 49.5387 acr single-family re sites the future	Subject: Page Index: 7 Date: 10/30/2020 2:33:15 PM Author: dsdrice Color: Layer: Space: Page Label: 7	l 49.5387
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	Subject: Callout Page Index: 8 Date: 10/30/2020 2:37:58 PM Author: dsdrice Color: Layer: Space: Page Label: 8	Barbarick is already developed how is Sterling Ranch collecting the Barbarick flows?
9 (4)		
Sub-basin A6A ($Q_5=2$ as a commercial tract sub-basin will sheet fl From here, the flow is	Subject: Page Index: 9 Date: 10/30/2020 2:41:47 PM Author: dsdrice Color:	commercial

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being a Grant structure structure of the set of the se	Subject: Callout Page Index: 9 Date: 10/30/2020 2:42:25 PM Author: dsdrice Color: Layer: Space: Page Label: 9	delete "commercial"
Sub-basin 4 western por Runoff fror	Subject: Page Index: 9 Date: 10/30/2020 2:44:20 PM Author: dsdrice Color: Layer: Space: Page Label: 9	western
In the state of th	Subject: Callout Page Index: 9 Date: 10/30/2020 2:46:42 PM Author: dsdrice Color: Layer: Space: Page Label: 9	delete or change wording
12 (6)		
Sterling Ranch Filing No. 2 conveyed via sheet flow and curb : From here, the flow is piped directly wessfort? Sub-Johim B4 (Qe-74 cf. Quee-1: castern portion of Vollmer Road loc This basin is primarily proposed r conveyed via sheet flow and curb : From here, the flow is piped directly		western?
14.1. Str. Starf, and a starf, a frame of the starf of	Subject: Callout Page Index: 12 Date: 10/30/2020 3:50:51 PM Author: dsdrice Color: Layer: Space: Page Label: 12	full-spectrum (or overdetention in Pond W5?)
the Sanitary S y a future on . From here,	Page Index: 12	future

Subject: Callout explain when (is the lift station site developed Page Index: 12 already?) Date: 10/30/2020 3:52:46 PM Author: dsdrice Color: Layer: Space: Page Label: 12 Subject: Callout show on GEC plan Page Index: 12 Date: 10/30/2020 3:53:39 PM Author: dsdrice Color: Layer: Space: Page Label: 12 _____ Subject: Callout Is this right? Should be >308? Why is it lower than Page Index: 12 MDDP flows? Date: 10/30/2020 3:57:41 PM Author: dsdrice Color: Layer: Space: Page Label: 12 13 (7) Subject: Callout this seems low Page Index: 13 Date: 10/30/2020 4:05:01 PM Author: dsdrice Color: 📘 Layer: Space: Page Label: 13 Subject: Sub-basin OS2 (Q₅=13. western portion of the I an onsite sand filter and has been provided Page Index: 13 Date: 10/30/2020 4:06:29 PM has been provided for c has provided the pond Barbarick subdivision to Author: dsdrice emergency overflow pa Color: Layer: Space: Page Label: 13 Subject: . It will be the responsibility of the Page Index: 13 Barbarick subdivision to connect the outfall pipes Date: 10/30/2020 4:06:47 PM to the future Phase 2 storm system. Author: dsdrice Color: Layer: Space: Page Label: 13

Subject: n will be 8.7 acres and rep Page Index: 13 basin will be cap Date: 10/30/2020 4:08:03 PM g No. 2 Phase 2 Author: dsdrice Dond W5 Star Color: Layer: Space: Page Label: 13 Subject: Sub-basin OS3 (Q5=17. sub-basin OS3 (Qs=17, eastern portion of the Bi onsite detention pond at has been provided for c has provided the pond Barbarick subdivision t has been provided Page Index: 13 Date: 10/30/2020 4:08:18 PM Author: dsdrice emergency overflow pa Color: Layer: Space: Page Label: 13 Subject: . It will be the responsibility of the Page Index: 13 Barbarick subdivision to connect the outfall pipes Date: 10/30/2020 4:08:28 PM Author: dsdrice Color: Layer: Space: Page Label: 13 ------Subject: Callout The tended and earthf ine convergent to Rasin 10 4.0-44 from the MDDP le Saul Coris Daisagroup. Office Basics OEDS (2021) and A 40 - 1711 also (0, -1967), why and RCD 80-771 and Isn't Barbarick constructed already? Page Index: 13 Date: 10/30/2020 4:08:37 PM Author: dsdrice Color: Layer: Space: Page Label: 13

14 (2)



Subject: Page Index: 14 Date: 10/30/2020 4:10:08 PM Author: dsdrice Color: Layer: Space: Page Label: 14

was evaluated using the rational method for flows and utilized the SCS method for the sizing of pond W

 Subject: Callout Page Index: 14 Date: 10/30/2020 4:10:51 PM Author: dsdrice Color: Layer: Space: Page Label: 14

too big for Rational method

15 (3) Subject: Callout incomplete Page Index: 15 Date: 10/30/2020 4:22:46 PM Author: dsdrice anon 1 Manual Volume 2, this site has Color: Laver: Space: Page Label: 15 . Subject: Text Box I disordy into the Xaul Crosk Drainagenery, where it will revealedly satial into All Frash will be reveal and maintained by Barling Bands Miror Diseis. A Address the impacts to Sand Creek from re-routing Page Index: 15 flows to the Pond W5/PondW4 diversion outfall. Date: 10/30/2020 4:22:48 PM i Volume 3, data site has physication. The four site Author: dsdrice Color: Layer: Space: Page Label: 15 1 and maintained by Sterling Ranch A ndix E showing locations of the pond an Subject: Callout construction plans Page Index: 15 construction plans nents to the Sand Creek Drainage C o. 2 site to maintain the integrity of Por Iowever, channel improvements for San with the analysis performed by Kiowa I all location should cause Date: 10/30/2020 4:23:29 PM Author: dsdrice Color: Layer: Space: Page Label: 15 16 (2) Subject: Callout This is not the case for the channel and properties Page Index: 16 upstream of the historic confluence with re-routed Date: 10/30/2020 4:25:31 PM flows Author: dsdrice Color: Layer: Space: Page Label: 16 Subject: d reduction in released flows compared to the Page Index: 16 pre-developed flows Date: 10/30/2020 4:25:40 PM Author: dsdrice Color: Layer: Space: Page Label: 16 17 (13) Subject: Highlight

Subject: Highlight Page Index: 17 Date: 10/30/2020 4:28:46 PM Author: dsdrice Color: Layer: Space: Page Label: 17

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zing can be found in Appendix C. vita Sterling Ranch Metropolitan <i>far access and maintenance of the</i> <i>in proposed being</i> .	Author: dsdrice Color: Layer: Space:	highlighted values don't match calculations
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18 (4)

10(1)		
<text><text><text><text></text></text></text></text>	Subject: Text Box Page Index: 18 Date: 10/30/2020 4:39:35 PM Author: dsdrice Color: Layer: Space: Page Label: 18	Address additional improvements needed from W5 outfall to historic confluence.
Antonio Status and Antonio Statu	Subject: Text Box Page Index: 18 Date: 10/30/2020 4:40:04 PM Author: dsdrice Color: Layer: Space: Page Label: 18	If any "swapping" of DBPS improvements for proposed improvements is intended to offset drainage fees it needs to be addressed here and go to the drainage board. The Filing 1 improvements credits also need to be finalized.
Acres (ac) 33.905	Subject: Page Index: 18 Date: 10/30/2020 4:40:43 PM Author: dsdrice Color: Layer: Space: Page Label: 18	33.90
2000 DRAMACE AND BRDGE FEIS - Semi propriodic Drangeries Drangeries Propriodic Drangeries Drangeries Drangeries Propriodic Drangeries Drangeries Drangeries US Propriodic Drangeries Drangeries Drangeries Drangeries Dra	Subject: Callout Page Index: 18 Date: 10/30/2020 4:40:59 PM Author: dsdrice Color: Layer: Space: Page Label: 18	to be verified with F2 submittal
20 (3)		
<pre></pre>	Subject: Callout Page Index: 20 Date: 10/30/2020 4:42:31 PM Author: dsdrice Color: Layer: Space: Page Label: 20	1990
Bulketsburg, ; BUESE BUESE<	Subject: Page Index: 20 Date: 10/30/2020 4:43:55 PM Author: dsdrice Color: Layer: Space: Page Label: 20	El Paso County Drainage Criteria Manual Volume 2, El Paso County, CO, 2018

 Second Second Sec	Subject: Callout Page Index: 20 Date: 10/30/2020 4:44:39 PM Author: dsdrice Color: Layer: Space: Page Label: 20	Change to DCM update (City Chapter 6), 2015
36 (1)		
Provide legible version and updated maps for the whole filling.	Subject: Text Box Page Index: 36 Date: 10/30/2020 4:47:50 PM Author: dsdrice Color: Layer: Space: Page Label: 36	Provide legible version and updated maps for the whole filing.
43 (2)		
	Subject: Callout Page Index: 43 Date: 10/30/2020 4:55:36 PM Author: dsdrice Color: Layer: Space: Page Label: 43	Needs to be per SCS or MDDP
	Subject: Cloud+ Page Index: 43 Date: 10/30/2020 4:57:13 PM Author: dsdrice Color: Layer: Space: Page Label: 43	should be closer to .13/.40 per Table 6-6
48 (1)		
	Subject: Cloud+ Page Index: 48 Date: 10/30/2020 4:59:14 PM Author: dsdrice Color: Layer: Space: Page Label: 48	SCS calculation for this basin?
52 (1)		
	Subject: Text Box Page Index: 52 Date: 11/1/2020 10:03:35 PM Author: dsdrice Color: Layer: Space: Page Label: 52	(Inlet calculations not checked on this review.)

117 (1)

Subject: Text Box Page Index: 117 Date: 11/1/2020 10:15:56 PM Author: dsdrice Color: Layer: Space: Page Label: 117	(Not cross-checked against plans)
Subject: Callout Page Index: 119 Date: 11/1/2020 10:20:12 PM Author: dsdrice Color: Layer: Space: Page Label: 119	Check for velocity and Froude No. with steepest slope.
Subject: Text Box Page Index: 120 Date: 11/1/2020 10:23:05 PM Author: dsdrice Color: Layer: Space: Page Label: 120	Label this (what is it for?)
Subject: Callout Page Index: 120 Date: 11/1/2020 10:43:23 PM Author: dsdrice Color: Layer: Space: Page Label: 120	does this meet DCM1 criteria?
Subject: Callout Page Index: 121 Date: 11/1/2020 10:42:09 PM Author: dsdrice Color: Layer: Space: Page Label: 121	15?
Subject: Text Box Page Index: 121 Date: 11/1/2020 10:42:52 PM Author: dsdrice Color: Layer: Space: Page Label: 121	Label what pipe this is for
	Page Index: 117 Date: 11/1/2020 10:15:56 PM Author: dsdrice Color: ■ Layer: Space: Page Label: 117 Subject: Callout Page Index: 119 Date: 11/1/2020 10:20:12 PM Author: dsdrice Color: ■ Layer: Space: Page Label: 119 Subject: Text Box Page Index: 120 Date: 11/1/2020 10:23:05 PM Author: dsdrice Color: ■ Layer: Space: Page Label: 120 Subject: Callout Page Index: 120 Date: 11/1/2020 10:43:23 PM Author: dsdrice Color: ■ Layer: Space: Page Label: 120 Subject: Callout Page Index: 120 Date: 11/1/2020 10:43:23 PM Author: dsdrice Color: ■ Layer: Space: Page Label: 120 Subject: Callout Page Index: 121 Date: 11/1/2020 10:42:09 PM Author: dsdrice Color: ■ Layer: Space: Page Label: 121

127 (1)		
x xx xx xx xx 0 <th>Subject: Callout Page Index: 127 Date: 11/2/2020 8:16:27 AM Author: dsdrice Color: Layer: Space: Page Label: 127</th> <th>needs to be <72</th>	Subject: Callout Page Index: 127 Date: 11/2/2020 8:16:27 AM Author: dsdrice Color: Layer: Space: Page Label: 127	needs to be <72
133 (1)		
No. No. No. No. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Subject: Callout Page Index: 133 Date: 11/1/2020 10:49:09 PM Author: dsdrice Color: Layer: Space: Page Label: 133	Verify grate size
136 (1)		
Provide splitway calculations	Subject: Text Box Page Index: 136 Date: 11/1/2020 10:52:44 PM Author: dsdrice Color: Layer: Space: Page Label: 136	Provide spillway calculations
153 (2)		
61 14 10 8 11 14	Subject: Arrow Page Index: 153 Date: 10/30/2020 4:19:34 PM Author: dsdrice Color: Layer: Space: Page Label: 153	
an work were provide were condition ware condition ware MDDP map as well	Subject: Text Box Page Index: 153 Date: 10/30/2020 4:21:03 PM Author: dsdrice Color: Layer: Space: Page Label: 153	Provide developed condition MDDP map as well
217 (1)		
disible - Lee 1, 2, 7 and 4 - Find Drainage Report	Subject: Text Box Page Index: 217	Replace drainage and bridge fees calculation

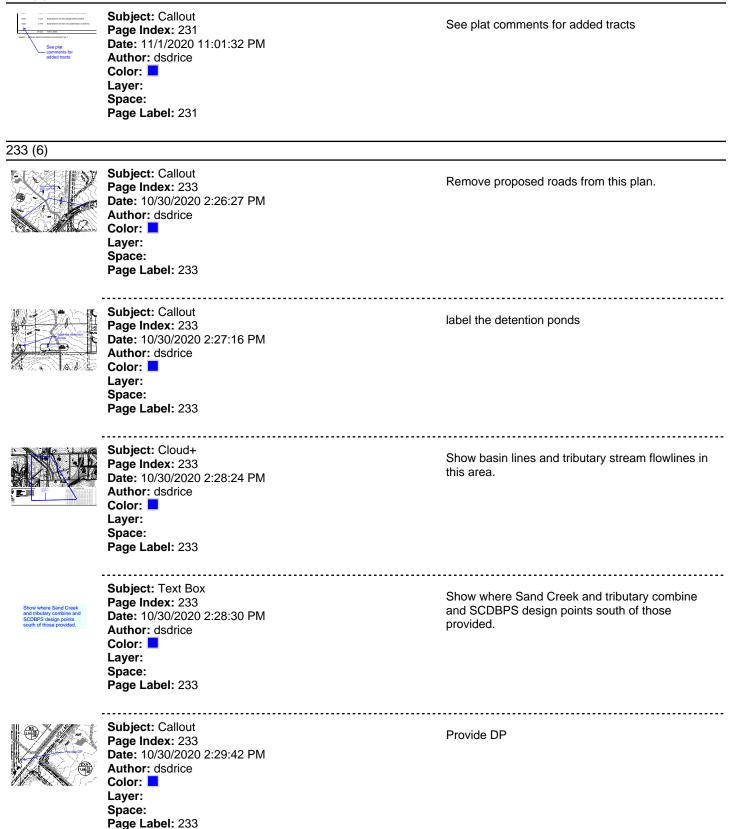
ce drainage and bridge fees lation sheet Rep

APPENDIX D Maps

Page Index: 217 Date: 11/1/2020 10:57:20 PM Author: dsdrice Color: Layer: Space: Page Label: 217

sheet

231 (1)





Address existing and proposed in this area



Subject: Cloud+ Page Index: 233 Date: 11/1/2020 11:18:05 PM Author: dsdrice Color: Layer: Space: Page Label: 233

234 (6)



Subject: Page Index: 234 Date: 10/30/2020 4:00:17 PM Author: dsdrice Color: Layer: Space: Page Label: 234



Subject: Page Index: 234 Date: 10/30/2020 4:00:57 PM Author: dsdrice Color: Layer: Space: Page Label: 234



Subject: Callout Page Index: 234 Date: 10/30/2020 4:01:18 PM Author: dsdrice Color: Layer: Space: Page Label: 234

Date: 11/1/2020 11:03:45 PM

Subject:

Page Index: 234

Author: dsdrice Color: Layer: Space:

Page Label: 234

.....

SCS/MDDP/DBPS calculation?

Emergency overflow path?



Subject: Callout Page Index: 234 Date: 11/1/2020 11:03:45 PM Author: dsdrice Color: Layer: Space: Page Label: 234

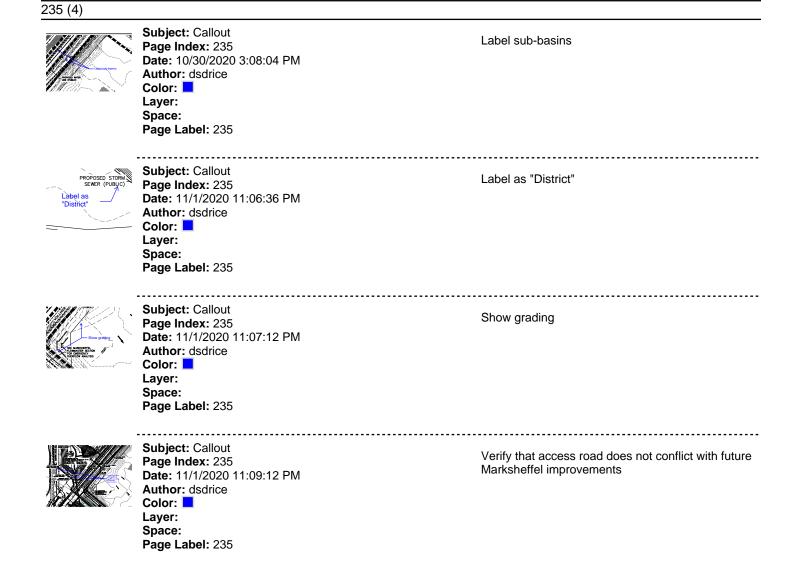
Provide an emergency conditions analysis addressing how flows from upstream basins are conveyed from here to the southeast.

.....



Subject: Text Box Page Index: 234 Date: 11/1/2020 11:05:17 PM Author: dsdrice Color: Layer: Space: Page Label: 234

Obtain City approval for maintenance access roads from Marksheffel Road.

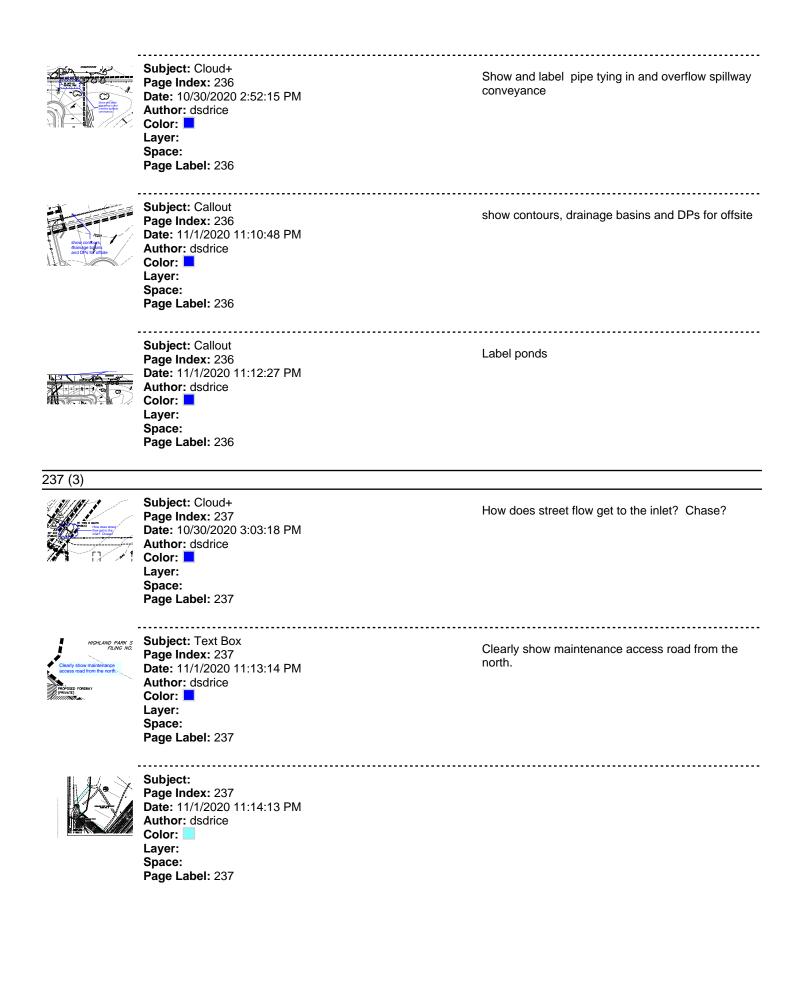


236 (4)



Subject: Cloud+ Page Index: 236 Date: 10/30/2020 2:51:34 PM Author: dsdrice Color: Layer: Space: Page Label: 236

Show and label pipe tying in and overflow spillway conveyance



238 (1)



Subject: Callout Page Index: 238 Date: 11/1/2020 11:15:53 PM Author: dsdrice Color: Layer: Space: Page Label: 238

Label detention ponds