Drainage Report - Final_v1.pdf Markup Summary

Callout (26)		
rther evaluated and confirmed with futu please delete ts are depicted in the enclosed Draina ons (to be reviewed and approved wi inage facilities are enclosed in Append	Subject: Callout Page Label: 17 Author: Daniel Torres Date: 6/21/2022 1:58:30 PM Status: Color: Layer: Space:	please delete
Provide the second seco	Subject: Callout Page Label: 1 Author: Daniel Torres Date: 6/21/2022 11:08:13 AM Status: Color: Layer: Space:	SF2219
ifter Invige, P.E. my Earther / ECM Administrator dillors: Please revises to Interim County Engineer/ECM Administrator	Subject: Callout Page Label: 4 Author: Daniel Torres Date: 6/21/2022 11:08:53 AM Status: Color: Layer: Space:	Please revise to Joshua Palmer, Interim County Engineer/ECM Administrator
	Subject: Callout Page Label: 6 Author: Daniel Torres Date: 6/21/2022 11:30:35 AM Status: Color: Layer: Space:	This should also include the prelim drainage report approved with the recent PUDSP amendment. Please add
A result of the second se	Subject: Callout Page Label: 14 Author: Daniel Torres Date: 6/21/2022 2:36:12 PM Status: Color: Layer: Space:	per the drainage plan and construction drawings, the runoff is conveyed on the south side to Inlet D1.5B. Please revise accordingly.
	Subject: Callout Page Label: 14 Author: Daniel Torres Date: 6/21/2022 2:43:32 PM Status: Color: Layer: Space:	Please ensure that Basin C2.9, D1.3 & storm sewers C2.9, D1.3 account for flow from basin D1.1 as the grading for Positive Place and the inlets in Positive Place will not be constructed until Filing 4. Basin D1.1.

	Subject: Callout Page Label: 14 Author: Daniel Torres Date: 6/21/2022 2:58:39 PM Status: Color: Layer: Space:	Please identify that these are future inlets and storm sewers and that flow from this basin will sheet flow to Basins C2.9 and D1.3. Please be aware that further review of this storm system will be provided when filing 4 is submitted.
An and an an an an an an any the through a structure of the structure of t	Subject: Callout Page Label: 14 Author: Daniel Torres Date: 6/21/2022 3:01:27 PM Status: Color: Layer: Space:	Please also indicate that flow from this basin will be conveyed to channel E in the interim as Positive place grading and these inlets are future facilities.
	Subject: Callout Page Label: 140 Author: Daniel Torres Date: 6/21/2022 3:15:04 PM Status: Color: Layer: Space:	please remove the temporary ditch line type.
3.7.5.4. • Will now such associate you have been as the source of the s	Subject: Callout Page Label: 18 Author: Daniel Torres Date: 6/21/2022 3:18:03 PM Status: Color: Layer: Space:	36" is indicated on the drainage plan. revise accordingly,
turns south and flows through Inlets C of El Reno Lane. Storm Sever C29 (30 turns at oldre the spath side of Mayt flows at Design Point #C2.9C are calcu south > Films No. 4 commercial area, has been Sever D11.D15 consists of a 24"42" s from these basins and conveying the	Subject: Callout Page Label: 18 Author: Daniel Torres Date: 6/21/2022 3:18:17 PM Status: Color: Layer: Space:	south
	Subject: Callout Page Label: 18 Author: Daniel Torres Date: 6/21/2022 3:19:22 PM Status: Color: Layer: Space:	Inlet D1.5B and/or the manhole before that

	Subject: Callout Page Label: 140 Author: Daniel Torres Date: 6/22/2022 1:03:21 PM Status: Color: Layer: Space:	Please provide hydraulic analysis at the bend. See ECM 3.3.3.E and DCM 10.5.6
Street International Internati	Subject: Callout Page Label: 140 Author: Daniel Torres Date: 6/22/2022 10:40:25 AM Status: Color: Layer: Space:	Please remove line type for temporary ditch.
	Subject: Callout Page Label: 68 Author: Daniel Torres Date: 6/22/2022 2:47:35 PM Status: Color: Layer: Space:	As the capacity of the inlet is 12.3 cfs please identify where the flow-by will be conveyed to.
	Subject: Callout Page Label: 140 Author: Daniel Torres Date: 7/5/2022 7:38:20 AM Status: Color: Layer: Space:	Please discuss the overtopping that will occur at the culvert/roadway. Is the intent for this channels flow to enter the adjacent inlets? Do they account for this flow?
	Subject: Callout Page Label: 140 Author: Daniel Torres Date: 7/5/2022 7:40:28 AM Status: Color: Layer: Space:	The street grading, inlets storm sewers should not be shown as they do not reflect actual conditions for Filing 3. Flow from these basins will go to Basins C2.9, D1.3 and Channel E per the previous early grading contours. Please revise accordingly.
cated at the southeast comer of the racted with the initial phase of d ast comer of the Phase 1 develor in Appendix B2, based on the soft and phase B2, based on the soft B2. The Basin EC11 and detained being Boing #5. The detained is	Author: Daniel Torres Date: 7/5/2022 8:19:56 AM	filing 3

9.5 9.5 24 25.6 40.4 10 10 11.0 10	Subject: Callout Page Label: 139 Author: Daniel Torres Date: 7/5/2022 8:22:39 AM Status: Color: Layer: Space:	Please identify that this is the undetained flow and/or also provide the detained total flow at DP5 leaving the site.
while the time is the should be due to the should be able to th	Subject: Callout Page Label: 13 Author: Daniel Torres Date: 7/5/2022 8:23:12 AM Status: Color: Layer: Space:	Please provide sheet D2.1.
on the calculated determine pool discharge rates, the minded discharge from Determine Pools C1 and D minded discharge of the Pool Pool of the Pool of the Pool of the Pool Pool of the Pool of th	Subject: Callout Page Label: 15 Author: Daniel Torres Date: 7/5/2022 8:24:13 AM Status: Color: Layer: Space:	Page 9 above indicates flows of 174.2 cfs. Revise accordingly.
- And the second sec	Subject: Callout Page Label: 15 Author: Daniel Torres Date: 7/5/2022 8:34:29 AM Status: Color: Layer: Space:	Please also analyze the fully developed emergency conditions for off-site flow from Basin EC10. Staffs concern at this stage is whether channel E has the capacity to contain this flow such that it would not affect the lots on the east side of Filing 3.
	Subject: Callout Page Label: 137 Author: Daniel Torres Date: 7/5/2022 9:18:39 AM Status: Color: Layer: Space:	please provide a flow arrow depicting the flow going to the east as there appears to be a berm at this location
A structure and a structure of the struc	Subject: Callout Page Label: 13 Author: Daniel Torres Date: 7/5/2022 9:22:57 AM Status: Color: Layer: Space:	Please clarify/elaborate regarding the outfall of Basin D. Per the existing drainage map the flow turns east into the Gillespie parcel at the southeast corner of the site due to a berm at this location. A comment has been provided on the drainage map to show the appropriate flow arrow on the map.

DO D. Hand and and a source of the source o	Subject: Callout Page Label: 138 Author: Daniel Torres Date: 7/5/2022 9:30:02 AM Status: Color: Layer: Space:	please analyze the existing swale that will convey this total flow to the roadside ditch.
	Subject: Callout Page Label: 140 Author: Daniel Torres Date: 7/6/2022 10:34:51 PM Status: Color: Layer: Space:	please show the proposed grading/finished conditions and drainage of the temp. cul-de-sacs.
Cloud+ (1)		
	Subject: Cloud+ Page Label: 140 Author: Daniel Torres Date: 6/21/2022 1:10:16 PM Status: Color: Layer: Space:	The slope% tag does not match the flow direction arrow . Revise accordingly.
Cloud (1)		
	Subject: Cloud Page Label: 140 Author: Daniel Torres Date: 6/21/2022 3:04:36 PM Status: Color: Layer: Space:	
Cloud+ (4)		
Berland et al. (1998) The Market and Berland et al. (1998) The Market and The	Subject: Cloud+ Page Label: 17 Author: Daniel Torres Date: 6/21/2022 3:06:13 PM Status: Color: Layer: Space:	As this is not part of filing 3, it should be removed.
MAYBE	Subject: Cloud+ Page Label: 140 Author: Daniel Torres Date: 6/22/2022 1:07:27 PM Status: Color: Layer: Space:	Please clarify your intent as there are conflicting contours. which way will the channel flow be conveyed to, Channel D or Gillespie parcel?

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Page Label: 140 Author: Daniel Torres Date: 6/22/2022 1:51:26 PM Status: Color: Layer: Space: Space: Subject: Cloud+

Subject: Cloud+

Please explain how the runoff from the temporary cul-de-sacs will be conveyed to pond D to be treated if the flow will first go to Channel E which carries off-site flow that is not conveyed to Pond D.

You may consider the 1 acre exclusion in ECM I.7.1.C.1 should it meet this criteria. Please be sure to include it in the narrative of your report if you go this route. Another option is runoff reduction.

These flows were updated in the recent filing 1

are represented in the report.

vacate replat drainage report to 27.1 cfs and 170.6

cfs. Please verify and ensure that the correct flows

An address of a start of a sta

Subject: Cloud+ Page Label: 13 Author: Daniel Torres Date: 7/5/2022 8:20:11 AM Status: Color: Layer: Space:

Engineer (13)

gn Point veloped proposed Ponds C1 and on Pond bis pond velocated Ponds C1 and D and combine bis pond vith the pond flows at DP-5 Subject: Engineer Page Label: 13 Author: dotprete Date: 7/8/2022 2:59:38 PM Status: Color: ■ Layer: Space:

Let align a set of the set of

Subject: Engineer Page Label: 13 Author: dotprete Date: 7/8/2022 3:00:11 PM Status: Color: Layer: Space:

Are EC11 flows bypassing the ponds and outfalling onto Gillespie parcel at DP-6?

c (Subject: Engineer Page Label: 13 Author: dotprete Date: 7/8/2022 3:02:59 PM Status: Color: Layer: Space: Please clarify. Flows from EC11 bypass Ponds C1 and D and combine with the pond flows at DP-5

Developed flows at this location will be detained to historic levels by routing flows through the proposed Detention Ponds C1 and D prior to discharging at the easterly site boundary.

Are EC11 flows bypassing the ponds and outfalling onto Gillespie parcel at DP-6?

rcial area, has been delineated

via curb and gutter (typ)

Subject: Engineer Page Label: 13 Author: dotprete Date: 7/8/2022 3:12:43 PM Status: Color: ■ Layer: Space:

via curb and gutter (typ)

as Developed Dasins C2.1-C2 Basins C2.1-C2.3 will genera Inlet C2.5 at the low point alor Discuss the combined Os serr/Owner/Doeplox/jopopiets/00/502.ac/ddmi	Subject: Engineer Page Label: 13 Author: dotprete Date: 7/8/2022 3:13:35 PM Status: Color: Layer: Space:	Discuss the combined Qs
Channel C2	Subject: Engineer Page Label: 139 Author: dotprete Date: 7/8/2022 3:19:09 PM Status: Color: Layer: Space:	Channel C2
	Subject: Engineer Page Label: 139 Author: dotprete Date: 7/8/2022 3:19:11 PM Status: Color: Layer: Space:	Channel D
Gillespie	Subject: Engineer Page Label: 139 Author: dotprete Date: 7/8/2022 3:19:37 PM Status: Color: Layer: Space:	Channel E?
ndary of the subdivisic C1 I combine with flows reloped peak flows of rds C1.1 and D will n	Subject: Engineer Page Label: 15 Author: dotprete Date: 7/8/2022 3:22:52 PM Status: Color: ■ Layer: Space:	C1
And a second sec	Subject: Engineer Page Label: 19 Author: dotprete Date: 7/8/2022 3:29:30 PM Status: Color: Layer: Space:	we have seen a lot of issues with ECB in the ditch flowlines, consider using TRM or permanent lining

CULVERT	Subject: Engineer Page Label: 139 Author: dotprete Date: 7/8/2022 3:30:40 PM Status: Color: Layer: Space:	Channel ??
And the set of the set	Subject: Engineer Page Label: 57 Author: dotprete Date: 7/8/2022 3:35:39 PM Status: Color: Layer: Space:	Ratio should be less than or equal to 1.
	Subject: Engineer Page Label: 139 Author: dotprete Date: 7/8/2022 4:11:17 PM Status: Color: Layer: Space:	provide flows and determine if riprap rundown is necessary
Highlight (8)		
TINETS DI IA-BA	Subject: Highlight Page Label: 140 Author: Daniel Torres Date: 6/21/2022 5:04:10 PM Status: Color: Layer: Space:	
4	Subject: Highlight Page Label: 140 Author: Daniel Torres Date: 6/21/2022 5:04:13 PM Status: Color: Layer: Space:	
(S' TYPE R)	Subject: Highlight Page Label: 140 Author: Daniel Torres Date: 6/21/2022 5:04:15 PM Status: Color: Layer: Space:	



Subject: Highlight Page Label: 140 Author: Daniel Torres Date: 6/21/2022 5:04:18 PM Status: Color: Layer: Space:



Subject: Highlight Page Label: 140 Author: Daniel Torres Date: 6/21/2022 5:04:34 PM Status: Color: Layer: Space:

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. Subject: Highlight Page Label: 137 Author: Daniel Torres Date: 7/5/2022 9:08:45 AM Status: Color: 📕 Layer: Space:



Subject: Highlight Page Label: 138 Author: Daniel Torres Date: 7/5/2022 9:29:26 AM Status: Color: Layer: Space:



Subject: Highlight Page Label: 138 Author: Daniel Torres Date: 7/5/2022 9:29:33 AM Status: Color: Layer: Space:

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Pen (3)

s are depicte Page Label: 17 nage facilitie Status:

Subject: Pen ns (to be re Date: 6/21/2022 1:58:14 PM Color: Layer: Space:

are depicted in the enclosed Drainage (to be-reviewed and approved-with ge facilities are enclosed in Appendix	Subject: Pen Page Label: 17 Author: Daniel Torres Date: 6/21/2022 1:58:18 PM
	Status: Color:
	Layer: Space:
E. On-Site Drainage Facility Desig	Subject: Pen
E. On-Site Drainage Facility Desig Developed sub-basins and proposed drai Plan (Figure D1, D1.1, and D2.2). Hy upcoming Final-Drainage.Report) for siz D, and summarized as follows:	Page Label: 17 – Author: Daniel Torres
1. Street / Curb & Gutter (Date: 6/21/2022 1:58:22 PM
The interior roads on this relative slong of 1.0 parcent. In accordance	Status: Color:
	Layer:
	Space:

Stormwater Comments Color (1)



Subject: Stormwater Comments Color Page Label: 1 Author: dotprete Date: 7/8/2022 4:32:01 PM Status: Color: Layer: Space: