ENG-SF1914-R3-TIS-Redlines Summary_Markup Summary



Add and the adverse of the function of the second s	Subject: Callout Page Index: 29 Date: 3/11/2020 10:04:52 AM Author: dsdrice Color: Layer: Space: Page Label: 29	Add a note addressing this potential access. (Would westbound traffic be likely to use this to access Bent Grass Meadows Drive?)
72 (1)		
	Subject: Page Index: 72 Date: 3/9/2020 10:43:32 PM Author: dsdrice Color: Layer: Space: Page Label: 72	
84 (1)		
	Subject: Page Index: 84 Date: 3/9/2020 10:51:36 PM Author: dsdrice Color: Layer: Space: Page Label: 84	
89 (1)		
	Subject: Page Index: 89 Date: 3/9/2020 11:02:30 PM Author: dsdrice Color: Layer: Space: Page Label: 89	
93 (1)		
: Dr /Meridian Rd. → → ↑ ↓ <u>BL EBR NBL NBT SBT</u>	Subject: Text Box Page Index: 93 Date: 3/9/2020 10:57:48 PM Author: dsdrice Color: Layer: Space: Page Label: 93	/Meridian Rd.
95 (1)		
	Subject: Page Index: 95 Date: 3/9/2020 10:59:17 PM Author: dsdrice Color: Layer: Space: Page Label: 95	

ENG-SF1914-R3-MDDP-Redlines Summary_Markup Summary

1 (1)		
Engineering Review 03123007 1004 4744 dictorotory constant and constant and constant and constant and constant and constant Development Department	Subject: EPC ENG Review Page Index: 1 Date: 3/12/2020 1:47:44 PM Author: Steve Kuehster Color: Layer: Space: Page Label: 1	
5 (1)		
and an	Subject: Callout Page Index: 5 Date: 3/13/2020 9:08:52 AM Author: dsdrice Color: Layer: Space: Page Label: 5	HEC-RAS calcs appear to be higher
6 (1)		
<text><text><text><text></text></text></text></text>	Subject: Callout Page Index: 6 Date: 3/13/2020 9:09:37 AM Author: dsdrice Color: Layer: Space: Page Label: 6	See Planning comments
8 (1)		
the state t	Subject: Callout Page Index: 8 Date: 3/13/2020 9:11:03 AM Author: dsdrice Color: Layer: Space: Page Label: 8	Is analysis provided?
12 (2)		
<text></text>	Subject: Callout Page Index: 12 Date: 3/13/2020 9:20:33 AM Author: dsdrice Color: Layer: Space: Page Label: 12	Most are higher on summary sheet.



14 (2)

Subject: Callout Page Index: 12 Date: 3/13/2020 9:21:53 AM Author: dsdrice Color: Layer: Space: Page Label: 12

Date: 3/13/2020 9:27:06 AM

Date: 3/13/2020 9:28:05 AM

Subject: Callout

Page Index: 14

Author: dsdrice Color: Layer: Space:

Page Label: 14

Subject: Callout

Page Index: 14

Author: dsdrice Color: Provide comparison table with existing flows, proposed flows and flow attributes.

discussion is necessary - what would release rate be without covering top?

Don't dry up the wetlands.

16 (1)

Subject: text box Page Index: 16 Date: 3/12/2020 1:35:17 PM Author: Steve Kuehster Color: Layer: Space: Page Label: 16

Add the following to the text. Reimbursement is limited to items identified in the DBPS (adjusted for fee increases). These will be further identified in final drainage reports.

18 (3)



Subject: arrow & box Page Index: 18 Date: 3/12/2020 2:25:49 PM Author: Steve Kuehster Color: Layer: Space: Page Label: 18

Comparing the second seco

Subject: Callout Page Index: 18 Date: 3/13/2020 2:13:47 PM Author: dsdrice Color: Layer: Space: Page Label: 18 releasing EURV from Bentgrass that will go through two properties before getting to Pond WU. It would be best if you could get permission letters form these property owners; and/or the Bentgrass district would maintain the natural channel through these properties.

This does not completely resolve the matter of

Bent Grass Metro District until completion and County acceptance of the ultimate improvements.

ach dreich wordt han bester produktio by de 1800 achware insplact of understand in development of an and a standard and a standard and a standard development of the applacity and and a standard development of the applacity and a standard C. Or, or Coloreact, Bornago Convoly 46 Texas 1. Development development of the applacity and development of the applacity and a standard by the 1. Development development of the applacity and development of the applacity and a standard by the Development of the applacity of the applacity of the applacity of the development of the applacity of the applacity of the applacity of the development of the applacity of the applacity of the applacity of the development of the applacity of the applacity of the applacity of the development of the applacity of the applacity of the applacity of the development of the applacity of the applacity of the applacity of the development of the applacity of the applacity of the applacity of the development of the applacity of the development of the applacity of the appla

Subject: Callout Page Index: 18 Date: 3/13/2020 2:14:30 PM Author: dsdrice Color: Layer: Space: Page Label: 18

247 (1)



Subject: text box Page Index: 247 Date: 3/12/2020 2:35:41 PM Author: Steve Kuehster Color: Layer: Space: Page Label: 247 doesn't make sense

Call out the where the exhibit and summary tables are for the MDDP level RWT204 and RWT210 channel reach design .

ENG-SF1914-R3-FDR-Redlines Summary_Markup Summary

1 (1)		
Engineering Review 03/33/08/7292-2174 Judice Judice State PC Paning & Community Development Department Development Department	Subject: EPC ENG Review Page Index: 1 Date: 3/13/2020 2:27:39 PM Author: dsdrice Color: Layer: Space: Page Label: 1	
17 (2)		
	Subject: Callout Page Index: 17 Date: 3/11/2020 1:23:57 PM Author: dsdrice Color: Layer: Space: Page Label: 17	Will this take flow away from the wetlands?
et is a same and and maintened by UI Pass County. Other than the construction of the properties of the	Subject: Callout	
A state of the first plane barries barries and the state of the st	Page Index: 17 Date: 3/13/2020 4:05:54 PM Author: dsdrice Color: Layer: Space: Page Label: 17	necessary where shown on redlines
18 (4)		
<text><text><text><text><text><text></text></text></text></text></text></text>	Subject: Callout Page Index: 18 Date: 3/13/2020 12:29:29 AM Author: dsdrice Color: Layer: Space: Page Label: 18	Should be 68.545, 59.755 with fees
Fees	Subject: Callout	
x 19.81 Imp. Acres = <u>\$586.1</u> es ~22.7 : 19.81 Imp. Acres = <u>\$80.604</u> ssions with El Paso Countv the fi	Page Index: 18 Date: 3/13/2020 12:29:50 AM Author: dsdrice Color: Layer: Space: Page Label: 18	~22.1
approximately 39	Subject: Callout Page Index: 18 Date: 3/13/2020 12:30:37 AM Author: dsdrice Color: Layer: Space: Page Label: 18	38?

Subject: Text Box Show split of acreage that will pay fees when Page Index: 18 replatted. Date: 3/13/2020 12:59:54 PM Author: dsdrice Color: Layer: Space: Page Label: 18 19(1) 15 CULUII VVali - C Subject: ' Sheet Pile 13' Cutoff Wall - S Page Index: 19 13' Sheet Pile Cut Date: 3/13/2020 12:31:55 AM Author: dsdrice Rip Rap - Type VH Color: _ . . . Laver: Space: Page Label: 19 20 (3) Subject: Cloud+ this doesn't make sense Page Index: 20 Date: 3/13/2020 2:04:25 PM Author: dsdrice Color: Layer: Space: Page Label: 20 Subject: Callout district until final improvements are constructed Page Index: 20 Date: 3/13/2020 2:04:44 PM Author: dsdrice Color: Layer: Space: Page Label: 20 Subject: Callout Add a statement regarding no significant adverse Page Index: 20 impacts to downstream and adjacent properties Date: 3/13/2020 2:05:58 PM Author: dsdrice Color: Layer: Space: Page Label: 20 230 (37)

0.8 1.07 0.58 Subject: Page Index: 230 Date: 3/13/2020 8:22:10 AM Author: dsdrice Color: Layer: Space: Page Label: 230

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n 94 🔵	Date: 3/13/2020 8:22:37 AM
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315 (21)

	Subject: Page Index: 315 Date: 3/13/2020 8:44:37 AM Author: dsdrice Color: Layer: Space: Page Label: 315
7	Subject: Page Index: 315 Date: 3/13/2020 8:44:39 AM Author: dsdrice Color: Layer: Space: Page Label: 315
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).78 1).98	Subject: Page Index: 315 Date: 3/13/2020 8:45:28 AM Author: dsdrice Color: Layer: Space: Page Label: 315



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61 6958.68 0.009513 8.52 197.2 106.64 0 7 6956.79 0.009615 9.4 181.5 82.06 0 15 68555 0.011109 9.36 162.85 72.45 0 6995.62 0.011109 5.5 163.6 0	Date: 3/13/2020 8:46:17 AM
81 6954.22 0.012099 9.54 155.5 65.23 0 98 6950.42 0.011344 9.35 156.84 67.53 0 85 6949.24 0.027601 7.63 191.51 215.39 0	Author: dsdrice
3 0949.09 0.013476 9.01 161 201.94 3 6946.52 0.012253 9.25 159.4 100.87 0 000.02 0 000225 0.05 159.4 100.87 0	Color:
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7.76 19 7.34 20 8.63 1	Subject: Page Index: 315 Date: 3/13/2020 8:47:24 AM Author: dsdrice Color: Layer: Space: Page Label: 315	
0868 7.34 202.85 2179 8.63 172.72 2816 9.12 164 11701 8.89 173.92 2306 8.68 172.24 3459 5.7 271.11 9651 9.14 210.52	Subject: Page Index: 315 Date: 3/13/2020 8:47:27 AM Author: dsdrice Color: Layer: Space: Page Label: 315	
0.57 1 1.01	Subject: Page Index: 315 Date: 3/13/2020 8:47:33 AM Author: dsdrice Color: Layer: Space: Page Label: 315	
362 (1)		
Provide stage-storage discharge calculations and tables. Provide electronic model.	Subject: Text Box Page Index: 362 Date: 3/12/2020 11:52:29 PM Author: dsdrice Color: Layer: Space: Page Label: 362	Provide stage-storage discharge calculations and tables. Provide electronic model.
366 (1)		
	Subject: Highlight Page Index: 366 Date: 3/12/2020 11:49:48 PM Author: dsdrice Color: Layer: Space: Page Label: 366	
393 (1)		
	Subject: Page Index: 393 Date: 3/12/2020 11:42:13 PM Author: dsdrice Color: Layer: Space: Page Label: 393	

•	Subject: Page Index: 394 Date: 3/12/2020 11:41:33 PM Author: dsdrice Color: Layer: Space: Page Label: 394	
396 (3)		
	Subject: Text Box Page Index: 396 Date: 3/11/2020 1:47:40 PM Author: dsdrice Color: Layer: Space: Page Label: 396	What is this for?
oject: (Thompson Thrift) in ID: Detention and Water Q WE 1	Subject: Page Index: 396 Date: 3/11/2020 1:47:52 PM Author: dsdrice Color: Layer: Space: Page Label: 396	Thompson Thrift
	Subject: Page Index: 396 Date: 3/11/2020 1:47:58 PM Author: dsdrice Color: Layer: Space: Page Label: 396	15.87 15.87 15.87 15.87 15.87 15.87
405 (1)		



Subject: Callout Page Index: 405 Date: 3/13/2020 8:37:24 AM Author: dsdrice Color: Layer: Space: Page Label: [1] DR-2

Provide analysis showing how

406 (3)



Subject: arrow & box Page Index: 406 Date: 3/13/2020 1:02:33 PM Author: dsdrice Color: Layer: Space: Page Label: [1] DR-3

Provide design points for the channels below the crossings and below the outfall locations



Subject: Page Index: 406 Date: 3/13/2020 1:14:18 PM Author: dsdrice Color: Layer: Space: Page Label: [1] DR-3



Subject: Callout Page Index: 406 Date: 3/13/2020 8:36:41 AM Author: dsdrice Color: Layer: Space: Page Label: [1] DR-3

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407 (2)



Subject: Callout Page Index: 407 Date: 3/13/2020 1:49:35 PM Author: dsdrice Color: Layer: Space: Page Label: [1] DR-3 Describe the necessary conveyance design

.

Do check structures need to be provided based on modeling?

Address how street flows go around cul-de-sacs



Subject: Callout Page Index: 407 Date: 3/13/2020 8:34:12 AM Author: dsdrice Color: Layer: Space: Page Label: [1] DR-3

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ENG-SF1914-R3-CD-Redlines Summary_Markup Summary

1 (1)		
Engineering Review d)/12/df 9964.44 Mittische berginson (195357977 EPC Panning & Community Development Department	Subject: EPC ENG Review Page Index: 1 Date: 3/13/2020 9:51:04 AM Author: dsdrice Color: Layer: Space: Page Label: [1] 1 COVER SHEET	
5 (1)		
	Subject: Callout Page Index: 5 Date: 3/11/2020 12:36:11 PM Author: dsdrice Color: Layer: Space: Page Label: [5] 5 OVERALL SITE PLAN	provide coordinates on the cul-de-sacs
8 (1)		
	Subject: Callout Page Index: 8 Date: 3/11/2020 12:40:07 PM Author: dsdrice Color: Layer: Space: Page Label: [8] 8 BENT GRASS MEADOWS DRIVE STREET IMPROVEMENT PLAN	Show and label RCP
9 (2)		
	Subject: Callout Page Index: 9 Date: 3/11/2020 12:38:32 PM Author: dsdrice Color: Layer: Space: Page Label: [9] 9 BENT GRASS MEADOWS DRIVE STREET IMPROVEMENT PLAN	Show and label culvert(s)
	Subject: Callout Page Index: 9 Date: 3/11/2020 12:39:16 PM Author: dsdrice Color: Layer: Space: Page Label: [9] 9 BENT GRASS MEADOWS DRIVE STREET IMPROVEMENT PLAN	Show and label RCP

18 (2)



Subject: Callout Page Index: 17 Date: 3/11/2020 12:46:34 PM Author: dsdrice Color: Laver: Space: Page Label: [17] 17 WILLMORE DRIVE STREET IMPROVEMENT PLAN

Provide all cul-de-sac and ROW and profile geometry. Show pavement and shoulder.



Subject: Callout Page Index: 18 Date: 3/11/2020 12:47:44 PM Author: dsdrice Color: 📘 Layer: Space: Page Label: [18] 18 THEDFORD COURT & SILKY THREAD ROAD STREET IMPROVEMENT PLAN

Provide all cul-de-sac and ROW and profile geometry. Show pavement and shoulder.



Subject: Callout Page Index: 18 Date: 3/11/2020 12:48:49 PM Author: dsdrice Color: Layer: Space: Page Label: [18] 18 THEDFORD COURT & SILKY THREAD ROAD STREET IMPROVEMENT PLAN

Label all slopes and cross-slopes (all cul-de-sacs)

19 (6)

6962.50

6962.4



Subject:

Subject: Page Index: 19 Date: 3/11/2020 1:04:36 PM Author: dsdrice Color: 📘 Layer: Space: Page Label: [19] 19 CROSS PAN & CURB RETURN PROFILES

Page Index: 19 Date: 3/11/2020 1:04:41 PM Author: dsdrice Color: 📘 Layer: Space: Page Label: [19] 19 CROSS PAN & CURB RETURN PROFILES





Subject: Page Index: 20 Date: 3/11/2020 1:07:19 PM Author: dsdrice Color: Layer: Space: Page Label: [20] 20 CROSS PAN & CURB RETURN PROFILES

21 (1)

NTERSECTION OF: I an UEBNARADRIVE On all International datals: Show and lateri sarge rooms. Lateri rispes and rooms depent in critical areas. Subject: Text Box Page Index: 21 Date: 3/11/2020 1:08:25 PM Author: dsdrice Color: Layer: Space: Page Label: [21] 21 CROSS PAN & CURB RETURN PROFILES

On all intersection details:

Show and label warp crowns.

Label slopes and cross-slopes in critical areas.

22 (4)



Provide missing prodestrian crossings or request deviations.	Subject: Text Box Page Index: 23 Date: 3/11/2020 1:12:40 PM Author: dsdrice Color: Layer: Space: Page Label: [23] 23 CROSS PAN & CURB RETURN PROFILES	Provide missing pedestrian crossings or request deviations.
24 (3)		
6955.07 6954.99 6954.95	Subject: Page Index: 24 Date: 3/11/2020 1:15:00 PM Author: dsdrice Color: Layer: Space: Page Label: [24] 24 CROSS PAN & CURB RETURN PROFILES	
6954.99 6954.95	Subject: Page Index: 24 Date: 3/11/2020 1:15:05 PM Author: dsdrice Color: Layer: Space: Page Label: [24] 24 CROSS PAN & CURB RETURN PROFILES	
6955.50 6955.42 6955.30	Subject: Page Index: 24 Date: 3/11/2020 1:15:10 PM Author: dsdrice Color: Layer: Space: Page Label: [24] 24 CROSS PAN & CURB RETURN PROFILES	

26 (1)



Subject: Callout Page Index: 26 Date: 3/11/2020 1:18:11 PM Author: dsdrice Color: Layer: Space: Page Label: [26] 26 BENT GRASS MEADOWS DRIVE STORM PLAN & PROFILE

provide attachment details, space between inlets with pipe, or single inlets on each side

30 (2)

	Subject: Callout Page Index: 30 Date: 3/11/2020 2:05:16 PM Author: dsdrice Color: Layer: Space: Page Label: [30] 30 BOX CULVERT PLAN & PROFILE	Erosion protection/check structure?
	Subject: Callout Page Index: 30 Date: 3/11/2020 2:06:32 PM Author: dsdrice Color: Layer: Space: Page Label: [30] 30 BOX CULVERT PLAN & PROFILE	Show HGL
31 (6)		
	Subject: Text Box Page Index: 31 Date: 3/11/2020 1:53:28 PM Author: dsdrice Color: Layer: Space: Page Label: [31] 31 CULVERT & WINGWALL PLAN & PROFILE	Provide station labels
	Subject: Callout Page Index: 31 Date: 3/11/2020 1:54:39 PM Author: dsdrice Color: Layer: Space: Page Label: [31] 31 CULVERT & WINGWALL PLAN & PROFILE	Provide maintenance access to bottom
	Subject: Callout Page Index: 31 Date: 3/11/2020 1:55:09 PM Author: dsdrice Color: Layer: Space: Page Label: [31] 31 CULVERT & WINGWALL PLAN & PROFILE	Provide maintenance access to bottom
	Subject: Cloud+ Page Index: 31 Date: 3/11/2020 2:02:25 PM Author: dsdrice Color: Layer: Space: Page Label: [31] 31 CULVERT & WINGWALL PLAN &	erosion protection?

PROFILE



.....

What is the invert elevation of these pipes - 34.5?



Subject: Callout Page Index: 39 Date: 3/13/2020 9:31:52 AM Author: dsdrice Color: Layer: Space: Page Label: [39] 39 POND MODIFICATION PLAN

.....

44 (1)

Nat reviewed

Subject: Text Box Page Index: 44 Date: 3/13/2020 9:46:30 AM Author: dsdrice Color: Layer: Space: Page Label: [1] 1 COVER SHEET

Not reviewed

ENG-SF1914-R3-GEC-Redlines Summary_Markup Summary



Author: dsdnijkamp Color: Layer: Space: Page Label: [5] 5 INTERIM OVERALL GRADING & EROSION CONTROL PLAN

Subject: Engineer call out VTC call out VTC Page Index: 5 Date: 3/11/2020 1:53:44 PM Author: dsdnijkamp Color: Layer: Space: Page Label: [5] 5 INTERIM OVERALL GRADING & EROSION CONTROL PLAN Subject: Engineer call out VTC Page Index: 5 Date: 3/11/2020 1:55:22 PM Author: dsdnijkamp Color: Layer: Space: Page Label: [5] 5 INTERIM OVERALL GRADING & **EROSION CONTROL PLAN** Subject: Engineer add in parentheses "initial", "interim" or "final" next Page Index: 5 to BMP in legend Date: 3/12/2020 10:56:11 AM Author: dsdnijkamp Color: Layer: Space: Page Label: [5] 5 INTERIM OVERALL GRADING & **EROSION CONTROL PLAN** Subject: Engineer define & show BMPs Page Index: 5 Date: 3/12/2020 11:00:56 AM Author: dsdnijkamp Color: 🔳 Layer: Space: Page Label: [5] 5 INTERIM OVERALL GRADING & **EROSION CONTROL PLAN** _____ -Subject: Engineer Show rock sock locations at curb cuts (as Page Index: 5 discussed in the SWMP) Date: 3/12/2020 8:27:18 AM Author: dsdnijkamp Color: Layer: Space: Page Label: [5] 5 INTERIM OVERALL GRADING & **EROSION CONTROL PLAN** Subject: Callout Check dam or other sediment control BMP? Page Index: 5 Date: 3/13/2020 1:08:05 PM Author: dsdrice Color: Layer:

Space: Page Label: [5] 5 INTERIM OVERALL GRADING & EROSION CONTROL PLAN

Check dam SCL, or other sediment control BMP?



Subject: Callout Page Index: 5 Date: 3/13/2020 1:08:51 PM Author: dsdrice Color: Layer: Space: Page Label: [5] 5 INTERIM OVERALL GRADING & EROSION CONTROL PLAN

6 (1)



Subject: Engineer Page Index: 6 Date: 3/11/2020 3:41:30 PM Author: dsdnijkamp Color: Layer: Space: Page Label: [6] 6 INTERIM GRADING & EROSION CONTROL PLAN

provide details for all riprap dissipater proposed (size, dimension, etc.)

7 (1)



Subject: Engineer Page Index: 7 Date: 3/11/2020 2:49:51 PM Author: dsdnijkamp Color: Layer: Space: Page Label: [7] 7 INTERIM GRADING & EROSION CONTROL PLAN

Maintenance access roads must be a minimum of 15 ft wide

8 (1)



Subject: Engineer Page Index: 8 Date: 3/12/2020 10:44:49 AM Author: dsdnijkamp Color: ■ Layer: Space: Page Label: [8] 8 INTERIM GRADING & EROSION CONTROL PLAN

extend SF out to offsite grading

14 (1)



Subject: Engineer Page Index: 14 Date: 3/12/2020 10:25:40 AM Author: dsdnijkamp Color: ■ Layer: Space: Page Label: [14] 14 GRADING & EROSION CONTROL DETAILS

Please limit to 3 details per sheet



Subject: Engineer Page Index: 16 Date: 3/12/2020 9:59:10 AM Author: dsdnijkamp Color: Layer: Space: Page Label: [16] 16 GRADING & EROSION CONTROL DETAILS

provide WQ Pond details, including forebay, trickle channel, outlet structure, spillway, etc.

II. PHASING AND PROPOSE CONSTRUCTION SEQUENCE

PHASING

Construction actives will be completed in three phases including Initial, interim and final. Initial phase includes the installation of silt fence around the entire project Limit of Disturbance. Interim phase includes the installation of temporary erosion and sediment controls as construction progresses. Final phase will be completed once the site is stabilized and all temporary measures are removed.

CONSTRUCTION DOCUMENTATION

Construction drawings are provided with this document showing each of these phases and are intended to be a "living" document used by the SWMP Manager to document construction activities. See section IX "Inspection and Record Keeping" for additional information.

PROPOSED SEQUENCE FOR MAJOR CONSTRUCTION ACTIVITIES

Construction for the development of this project is currently projected to begin in December of 2019. It is estimated that construction activities will be completed by December 2020. Final stabilization is expected in the spring of 2021. The anticipated sequence of construction is as follows:

Bent Grass Residential F2:

- 1. Installation of perimeter erosion control measures as shown on the construction drawings.
- 2. Site Clearing/Grubbing and topsoil stockpiling.
- 3. Construct temporary sediment basins as necessary.
- 4. Rough grading of the site.
- 5. Construct underground water/sewer/storm.
- 6. Construct curb/gutter and pavement.
- 7. Final stabilize areas outside of ROW.
- 8. Construct gas/electric/cable/phone in the ROW areas.
- 9. Final stabilize ROW.
- 10. Final erosion control measures as areas are completed
- 11. Remove construction BMP's

See Section VI "Areas and Volumes" for information on anticipated disturbed area and grading volumes.

Add Pond WU activities

III. FINAL STABILIZATION

Final site stabilization will be achieved when all final landscaping and paving is complete and when vegetation density is greater than 70 percent of pre-disturbance density over its entire area. The remainder of the site will consist of hardscape (drives and walks) or be a part of the building footprint. All final stabilization on the site will be of a permanent nature. All temporary BMPs will be removed upon completion of construction. It is the responsibility of the contractor to remove all dirt and garbage from the site.

Permanent BMP's such as water quality ponds will be owned and maintained by Bent Grass Metropolitan District.

IV. PRE-DEVELOPMENT CONDITIONS & SOILS

FLOODWAY

According to the current FEMA Flood Insurance Rate Map (FIRM) Panel No. 08041C0553 G, dated December 7, 2018 (See Appendix for the FEMA FIRM Exhibit) this site is designated as Zone X (outside 0.2% chance of flood) and potions of the property are designated as Zone AE (regulatory floodway). The proposed residential lots are completely outside of the "regulatory floodway". Bent Grass Meadows Drive will cross the "regulatory floodway". A permit is required and will be obtained from the El Paso County Floodplain Administrator prior to commencing work inside the "regulatory floodway". Per the El Paso County Floodplain Administrator, the floodway is classified as follows:

Riverine floodplain with base flood elevations, but no floodway: When the flood hazard map designates base flood elevations (100-year flood heights) but no floodway is delineated, the applicant must demonstrate that the cumulative effect of the proposed development, when combined with all other existing and anticipated floodplain development, would not increase the water surface elevation of the 100-year flood more than one foot at any location.

EXISTING VEGETATION

The site is currently undeveloped and has been used as a pasture for many years. Vegetation consists of native grasses/weeds that have been heavily grazed for years. There is no brush or trees within the area to be graded. Ground cover is estimated at 70% density. EXISTING DRAINAGE PATTERNS
Item 9. Add method used to determine ground

The site is fully contained within the West Falcon Tributary drainage basin. Drainage through the

site is generally north to south. Drainage is collected in a wet weather conveyance know as

- 2. Disturbed portions of the site where construction activity temporarily ceases for at least 14 days will be stabilized with temporary seed and mulch no later than 14 days from the last construction activity in the area.
- 3. Seed bed preparation is not required if soil is in loose condition.
- 4. Prior to seeding, fertilizer shall be applied to each acre to be stabilized in accordance with the manufacturer's specifications.
- 5. If required seeding areas shall be mulched with straw to a uniformed cover. The straw mulch is to be tacked into place by a disk with blades set nearly straight.
- 6. A site-specific erosion control drawing has been developed showing the location of Best Management practices to be used during site construction.
- 7. Where indicated on the erosion control plan, Best Management Practices will be installed.
- 8. Material shall be in accordance with the plans and specifications and all construction shall be provided in accordance with the manufacturer's specifications.
- 9. All BMP's will be inspected bi-weekly and cleaned/maintained as required.

VI AREAS AND VOLUMES

The site consists of 50.8 acres. 19.8 acres are expected to be disturbed. The unadjusted cut and fill quantities as of the writing of this report are listed below: Cut Volume = 83,838 Cubic Yards Fill Volume = 87,889 Cubic Yards Total Volume = 4,051 Cubic Yards (Fill) Note: The Total disturbed area shall be updated on the SWMP as changes occur.

VII. APPROPRIATE CONTROLS AND MEASURES

Also refer to attached Erosion and Sediment Control notes and plans included in the site plans

MINIMIZE DISTURBED AREA AND PROTECT NATURAL FEATURES AND SOIL

All work will occur inside the limits of construction per the erosion Control Site Plan.

PHASE CONSTRUCTION ACTIVITY The sequence for the installation and removal of erosion and sediment control measures is as follows: Perimeter control measures (silt barriers and fencing) installed at designated areas as noted on the site plans (Exhibit 1), cleaning of street surfaces during construction if applicable, site grading, installation of utilities, paving final and grading,

