Keep the original title (2015 Financial Assurance Estimate Form). The 2015 FAE is still the latest FAE Form used by the County.

DRAFT

2017 Financial Assurance Estimate Form (with pre-plat construction)

Project Information	
FLYING HORSE NORTH FILING NO. 1	**12/14/2017**
Project Name	Date

Section 1 - Grading and Erosion Control BMPs	**Quantity**	**Units**		**Price**			**% Complete**	**Remaining**	
SEE FLYING HORSE NORTH GOLF COURSE EARLY GRADING AND E.C. PLAN APPROVED OCTOBER 2016									
Earthwork*	20,000.00	CY	@	$ $5	=	$		$ -	*
Permanent Seeding* (inc. noxious weed mgmnt.)	17.00	AC	@	$ $582	=	$		$ -	*
Mulching*	17.00	AC	@	$ $507	=	$		$ -	*
Permanent Erosion Control Blanket*		SY	@	$ $6	=	$		$ -	*
Temporary Erosion Control Blanket		SY	@	$ $3		$		$ -	
Vehicle Tracking Control	1.00	EA	@	$ $1,625	=	$		$ -	
Safety Fence		LF	@	$ $3	=	$		$ -	
Silt Fence	3,400.00	LF	@	$ $4	=	$		$ -	
Temporary Seeding	3.00	AC	@	$ $485	=	$		$ -	
Temporary Mulch	3.00	AC	@	$ $507	=	$		$ -	
Erosion Bales	18.00	EA	@	$ $21	=	$		$ -	
Erosion Logs		LF	@	$ $6	=	$		$ -	
Rock Ditch Checks		EA	@	$	=	$		$ -	
Inlet Protection	7.00	EA	@	$ $153	=	$		$ -	
Sediment Basin	3.00	EA	@	$ $1,625	=	$		$ -	
Concrete Washout Basin	1.00	EA	@	$ $776	=	$		$ -	
			@	$	=	$		$ -	
* Subject to defect warranty financial assurance. DO NOT ENTER MORE THAN 80% COMPLETE. A minimum of 20% to be retained up to preliminary acceptance process.									
				Section 1 Subtotal	=	$		$ -	

Section 2 - Public Improvements**	**Quantity**	**Units**		**Price**			**%**	**Remaining**	
- Roadway Improvements									
Construction Traffic Control	1.00	LS	@	$ 2,000	=	$		2,000.00	*
Aggregate Base Course (Stagecoach)	26,000.00	Tons	@	$ $18	=	$		68,000.00	*
Asphalt Pavement (Stagecoach)	23,400.00	Tons	@	$ $65	=	$		21,000.00	*
Aggregate Base Course (Locals roads)	12,100.00	Tons	@	$ $18	=	$		17,800.00	*
Asphalt Pavement (Local roads)	10,680.00	Tons	@	$ $65	=	$		94,200.00	*
Raised Median, Paved		SF	@	$ $7	=	$		$ -	*
Electrical Conduit, Size =		LF	@	$ $14	=				
Traffic Signal, complete intersection		EA	@	$ $250,000	=				
Regulatory Sign	20.00	EA	@	$ $100	=				
Advisory Sign	24.00	EA	@	$ $100	=				
Guide/Street Name Sign	13.00	EA	@	$ $300					
Epoxy Pavement Marking (Round-abouts / Stagecoach)	14,350.00	SF	@	$ $12	=				
Thermoplastic Pavement Marking		SF	@	$ $22	=				
Barricade - Type 3	5.00	EA	@	$ $115	=				
Delineator (Type I)		EA	@	$				$ -	*
Curb and Gutter, Type C (Ramp)		LF	@	$				$ -	*
Curb and Gutter, Type A (6" Vertical)		LF	@	$				$ -	*
Curb and Gutter, Type B (Median) (4 Round-abouts)	4,700.00	LF	@	$				$ 61,100.00	*
Pedestrian Ramp		SY	@	$ $				$ -	*
Cross Pan		SY	@	$ $55	=	$		$ -	*
Curb Chase		EA	@	$ $1,300	=	$		$ -	*
Guardrail Type 3 (W-Beam)		LF	@	$ $18	=	$		$ -	*
Guardrail Type 7 (Concrete)		LF	@	$ $67	=	$		$ -	*

Signage/Striping was not included in the 1st submittal. Quantities will be reviewed once the signage and striping plans are submitted.

Verify the striping plan for quantities under Thermoplastic Pavement Marking. Yield markings, limit/stop lines, crosswalk lines, arrow, pavement legends are thermoplastic pavement markings.

Where are these located? Staff did not see this called out on the construction plans.

quantities once information is available in
n plans regarding the type of C&G to be
roundabout and autoturn submitted.
ner the center island has a mountable or
curb.

Add PCD File No. SF-18-001

Guardrail End Anchorage			EA	@	$	$1,978	=	$		$	-	*
Guardrail Impact Attenuator			EA	@	$	$3,564	=	$		$	-	*
Sound Barrier Fence			LF	@	$	$100	=	$		$	-	*
Concrete Sidewalk (5" thickness)			SY	@	$	$58	=	$		$	-	
- Storm Drain Improvements												
Concrete Box Culvert (M Standard), Size Dual (10 x 4)			LF	@	$		=	$		$	-	*
Reinforced Concrete Pipe (RCP)	Size		LF	@	$		=	$		$	-	*
18" Reinforced Concrete Pipe		215.00	LF	@	$	$69	=	$	14,835.00	$	14,835.00	*
24" Reinforced Concrete Pipe		1,070.00	LF	@	$	$84	=	$	89,880.00	$	89,880.00	*
30" Reinforced Concrete Pipe		415.00	LF	@	$	$94	=	$	39,010.00	$	39,010.00	*
36" Reinforced Concrete Pipe		460.00	LF	@	$	$124	=	$	57,040.00	$	57,040.00	*
42" Reinforced Concrete Pipe		610.00	LF	@	$	$134	=	$	81,740.00	$	81,740.00	*
48" Reinforced Concrete Pipe			LF	@	$	$178	=	$		$	-	*
54" Reinforced Concrete Pipe			LF	@	$	$182	=	$		$	-	*
60" Reinforced Concrete Pipe		500.00	LF	@	$	$216	=	$	108,000.00	$	108,000.00	*
66" Reinforced Concrete Pipe			LF	@	$	$263	=	$		$	-	*
72" Reinforced Concrete Pipe			LF	@	$	$283	=	$		$	-	*
Corrugated Steel Pipe (CSP)	Size		LF	@	$		=	$		$	-	*
18" Corrugated Steel Pipe			LF	@	$	$66	=	$		$	-	*
24" Corrugated Steel Pipe			LF	@	$	$96	=	$		$	-	*
30" Corrugated Steel Pipe			LF	@	$	$101	=	$		$	-	*
36" Corrugated Steel Pipe			L								-	*
42" Corrugated Steel Pipe			L								-	*
48" Corrugated Steel Pipe			L								-	*
54" Corrugated Steel Pipe			L								-	*
60" Corrugated Steel Pipe			L								-	*
66" Corrugated Steel Pipe			LF	@	$	$278	=	$		$	-	*
72" Corrugated Steel Pipe			LF	@	$	$330	=	$		$	-	*
78" Corrugated Steel Pipe			LF	@	$	$381	=	$		$	-	*
84" Corrugated Steel Pipe			LF	@	$	$432	=	$		$	-	*
Flared End Section (FES)	┼	54.00	EA	@	$	744	=	$	40,176.00	$	40,176.00	*
Flared End Section (FES) CSP	┼		EA	@	$		=	$		$	-	*
End Treatment- Headwall (Stagecoach Rd.)		7.00	EA	@	$	4,000	=	$	28,000.00	$	28,000.00	*
End Treatment- Wingwall (Stagecoach Rd.)		6.00	EA	@	$	10,000	=	$	60,000.00	$	60,000.00	*
End Treatment - Cutoff Wall		5.00	EA	@	$	3,000	=	$	15,000.00	$	15,000.00	*
Curb Inlet (Type R) L=5', Depth < 5 feet			EA	@	$	$3,791	=	$		$	-	*
Curb Inlet (Type R) L=4', 5'-10' Depth			EA	@	$	$5,300		$		$	-	*
Curb Inlet (Type R) L =6' , 5'-10' Depth			EA	@	$	$6,000	=	$		$	-	*
Curb Inlet (Type R) L =8', 5'-10' Depth			EA	@	$	$7,000	=	$		$	-	*
Curb Inlet (Type R) L =10' , 5'-10' Depth			EA	@	$	$7,500	=	$		$	-	*
Curb Inlet (Type R) L =12' , 5'-10' Depth			EA	@	$	$8,300	=	$		$	-	*
Curb Inlet (Type R) L =15' , Depth < 5 feet			EA	@	$	$7,923	=	$		$	-	*
Curb Inlet (Type R) L =15' , 5'-10' Depth			EA	@	$	$8,000	=	$		$	-	*
Curb Inlet (Type R) L =15' , 10'-15' Depth			EA	@	$	$8,800	=	$		$	-	*
Curb Inlet (Type R) L =20' , Depth < 5 feet			EA	@	$	$8,000	=	$		$	-	*
Curb Inlet (Type R) L =20' , 5'-10' Depth			EA	@	$	$8,830	=	$		$	-	*
Curb Inlet (Type R) L =_____', __' - __' Depth			EA	@	$		=	$		$	-	*
Curb Inlet (Type R) L =_____', __' - __' Depth			EA	@	$		=	$		$	-	*
Grated Inlet (Type C), < 5' deep			EA	@	$	$3,270	=	$		$	-	*
Grated Inlet (Type D), < 5' deep			EA	@	$	$3,908	=	$		$	-	*
Storm Sewer Manhole, Box Base, Depth < 15 feet			EA	@	$	$8,592	=	$		$	-	*
Storm Sewer Manhole, Slab Base, Depth < 15 feet		1.00	EA	@	$	$4,575	=	$	4,575.00	$	4,575.00	*
Geotextile (Erosion Control)			SY	@	$	$5	=	$		$	-	*
Rip Rap, d50 Size from 6" to 24"			CY	@	$	$98	=	$		$	-	*
Rip Rap, Grouted			CY	@	$	$215	=	$		$	-	*
Drainage Channel Construction, Size (W x H)			LF	@	$		=	$		$	-	*
Channel Lining, Concrete			CY	@	$	$450	=	$		$	-	*
Channel Lining, Rip Rap			CY	@	$	$98	=	$		$	-	*

Break down based on the different pipe sizes. The unit cost is equal to the associated pipe size unit cost times 6. Ex: 30" FES Unit Cost is $564 ($94 x 6 = $564)

Channel Lining, Grass		AC	@	$ $1,287	=	$		$ -	*
Channel Stabilization (40' wide utility crossing)		SY	@	$ $3	=	$		$ -	*
Detention Outlet Structure		EA	@	$ 8,000	=	$		$ -	*
Detention Emergency Spillway		EA	@	$ 1,000	=	$		$ -	*
Permanent Water Quality Facility (Describe)		EA	@	$	=	$		$ -	*
* Subject to defect warranty financial assurance. DO NOT ENTER MORE THAN 80% COMPLETE. A minimum of 20% to be retained up to preliminary acceptance process. ┼ For flared end sections, multiply pipe LF cost by 6				**Section 2 Subtotal**	=	3,683,431.00 $		3,683,431.00	**

Section 3 - Common Development Improvements (Private or District)***	**Quantity**	**Units**		**Price**			**% Complete**	**Remaining**
- Roadway Improvements								
(Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County)			@	$	=	$		$ -
			@	$	=	$		$ -
			@	$	=	$		$ -
- Storm Drain Improvements								
(Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County)			@	$	=	$		$ -
			@	$	=	$		$ -
			@	$	=	$		$ -
Detention Facility Construction (Pond 1)	8,000.00	CY	@	$ $4	=	$ 32,000.00		$ 32,000.00
Detention Outlet Structure w/ Micropool	1.00	EA	@	$ 8,000	=	$ 8,000.00		$ 8,000.00
Detention Emergency Spillway	1.00	EA	@	$ 2,000	=	$ 2,000.00		$ 2,000.00
24" RCP Storm Outfall	60.00	LF	@	$ 84		5,040.00		$ 5,040.00
Rip Rap, d50 Size from 6" to 24"	96.00	CY	@	$ $98	=	$ 9,408.00		$ 9,408.00
Detention Facility Construction (Pond 4)	18,000.00	CY	@	$ $4	=	$ 72,000.00		$ 72,000.00
Detention Outlet Structure w/ Micropool	1.00	EA	@	$ 12,000	=	$ 12,000.00		$ 12,000.00
Detention Emergency Spillway	1.00	EA	@	$ 4,000	=	$ 4,000.00		$ 4,000.00
Concrete Forebays w/ Headwall	1.00	EA	@	$ 15,000		15,000.00		$ 15,000.00
Concrete trickle channel	325.00	LF	@	$ 40		13,000.00		$ 13,000.00
Rip-Rap Chute	260.00	CY	@	$ 98		25,480.00		$ 25,480.00
Grouted Rip-Rap	40.00	CY	@	$ 215		8,600.00		$ 8,600.00
48" RCP Storm Outfall	95.00	LF	@	$ 178		16,910.00		$ 16,910.00
Rip Rap, d50 Size from 6" to 24"	360.00	CY	@	$ $98	=	$ 35,280.00		$ 35,280.00
Detention Facility Construction (Pond 8)	22,000.00	CY	@	$ $4	=	$ 88,000.00		$ 88,000.00
Detention Outlet Structure w/ Micropool	1.00	EA	@	$ 18,000	=	$ 18,000.00		$ 18,000.00
Detention Emergency Spillway	1.00	EA	@	$ 5,000	=	$ 5,000.00		$ 5,000.00
Concrete Forebay w/ Headwall	1.00	EA	@	$ 20,000		20,000.00		$ 20,000.00
Concrete trickle channel	100.00	LF	@	$ 40		4,000.00		$ 4,000.00
60" RCP Storm Outfall	80.00	LF	@	$ 216		17,280.00		$ 17,280.00
Rip Rap, d50 Size from 6" to 24"	480.00	CY	@	$ $98	=	$ 47,040.00		$ 47,040.00
Detention Facility Construction (Pond 12)	10,000.00	CY	@	$ $4	=	$ 40,000.00		$ 40,000.00
Detention Outlet Structure w/ Micropool	1.00	EA	@	$ 8,000	=	$ 8,000.00		$ 8,000.00
Detention Emergency Spillway	1.00	EA	@	$ 2,000	=	$ 2,000.00		$ 2,000.00
30" RCP Storm Outfall	65.00	LF	@	$ 94		6,110.00		$ 6,110.00
Rip Rap, d50 Size from 6" to 24"	130.00	CY	@	$ $98	=	$ 12,740.00		$ 12,740.00
Detention Facility Construction (JD Pond 13)	15,000.00	CY	@	$ $4	=	$ 60,000.00		$ 60,000.00
SWQ Outlet Structure	1.00	EA	@	$ 1,000	=	$ 1,000.00		$ 1,000.00
Detention Emergency Spillway (Rip-Rap Chute)	1,000.00	CY	@	$ 98	=	$ 98,000.00		$ 98,000.00
Dual box culverts (4'x10') incl. in public storm above	2.00	EA	@	$ 90,000		180,000.00		$ 180,000.00
(2) 6" toe drains	440.00	LF	@	$ 4		1,760.00		$ 1,760.00
30" RCP Storm Outfall	480.00	LF	@	$ 94		45,120.00		$ 45,120.00

Type II Storm Manhole	2.00	EA	@	$ 4,575		9,150.00		$ 9,150.00
- Water System Improvements								
Water Main Pipe (PVC), Size 8"		LF	@	$ $94	=	$		$ -
Water Main Pipe (Ductile Iron), Size 8"		LF	@	$ $137	=	$		$ -
Gate Valves, 8"		EA	@	$ $1,852	=	$		$ -
Fire Hydrant Assembly w/ all valves		EA	@	$ $6,430	=	$		$ -
Water Service Line Installation, including tap and valves		EA	@	$ 1,253	=	$		$ -
Fire Cistern Installation, complete		EA	@	$	=	$		$ -
- Sanitary Sewer Improvements								
Sewer Main Pipe (PVC), Size 8"		LF	@	$ $94	=	$		$ -
Sanitary Sewer Manhole, Depth < 15 feet		EA	@	$ $4,575	=	$		$ -
Sanitary Service Line Installation, complete		EA	@	$ 1,516	=	$		$ -
Sanitary Sewer Lift Station, complete		EA	@	$	=	$		$ -
- Landscaping (If Applicable)								
		EA	@	$	=	$		$ -
(List landscaping line items and cost - usually only in case of subdivision specific condition of approval, or PUD)		EA	@	$	=	$		
		EA	@	$	=	$		$ -
		EA	@	$	=	$		$ -
		EA	@	$	=	$		$ -
***items in this section are not subject to defect warranty financial assurance				**Section 3 Subtotal**	=	$ 921,918.00		921,918.00

Financial Assurance Totals		
As-built drawings - **(FILL IN IF THERE ARE ANY PUBLICLY-MAINTAINED IMPROVEMENTS)**	$	$5,000
(Inc. survey to verify detention pond volumes.)	**Total Construction Financial Assurance**	**$4,610,349.00**
	(Sum of all section subtotals)	
	Total Remaining Construction Financial Assurance	**4,610,349.00**
	(Sum of all section totals less credit for items complete)	
	Total Defect Warranty Financial Assurance	**$736,686.20**
	(20% of all items identified as public improvements(*). To be collateralized at time of preliminary acceptance)	

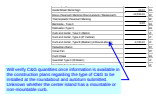
Approvals

I hereby certify that this is an accurate and complete estimate of costs for the work as shown on the approved Construction Drawings associated with the Project.

Engineer	Date
(P.E. Seal)	
Approved by Owner / Applicant	Date
Approved by El Paso Couny Engineer / ECM Administrator	Date

Markup Summary

dsdlaforce (7)

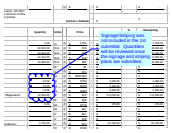


Subject: Callout
Page Label: 1
Lock: Unlocked
Author: dsdlaforce

Will verify C&G quantities once information is available in the construction plans regarding the type of C&G to be installed at the roundabout and autoturn submitted.
Unknown whether the center island has a mountable or non-mountable curb.

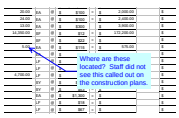
Subject: Text Box
Page Label: 1
Lock: Unlocked
Author: dsdlaforce

Add PCD File No. SF-18-001



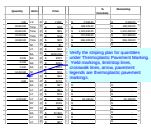
Subject: Cloud+
Page Label: 1
Lock: Unlocked
Author: dsdlaforce

Signage/Striping was not included in the 1st submittal. Quantities will be reviewed once the signage and striping plans are submitted.



Subject: Callout
Page Label: 1
Lock: Unlocked
Author: dsdlaforce

Where are these located? Staff did not see this called out on the construction plans.



Subject: Callout
Page Label: 1
Lock: Unlocked
Author: dsdlaforce

Verify the striping plan for quantities under Thermoplastic Pavement Marking. Yield markings, limit/stop lines, crosswalk lines, arrow, pavement legends are thermoplastic pavement markings.

Subject: Callout
Page Label: 1
Lock: Unlocked
Author: dsdlaforce

Keep the original title (2015 Financial Assurance Estimate Form). The 2015 FAE is still the latest FAE Form used by the County.

Subject: Callout
Page Label: 2
Lock: Unlocked
Author: dsdlaforce

Break down based on the different pipe sizes.
The unit cost is equal to the associated pipe size unit cost times 6. Ex: 30" FES Unit Cost is $564 ($94 x 6 = $564)

MWhorton (1)

Subject: Draft
Page Label: 1
Lock: Unlocked
Author: MWhorton