

# 2015 Financial Assurance Estimate Form (with pre-plat construction)

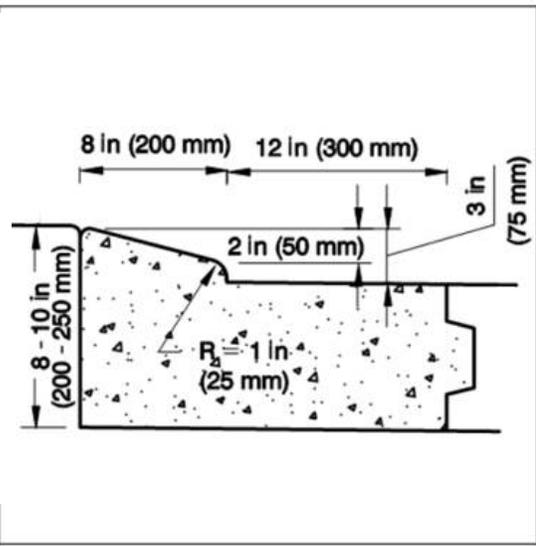
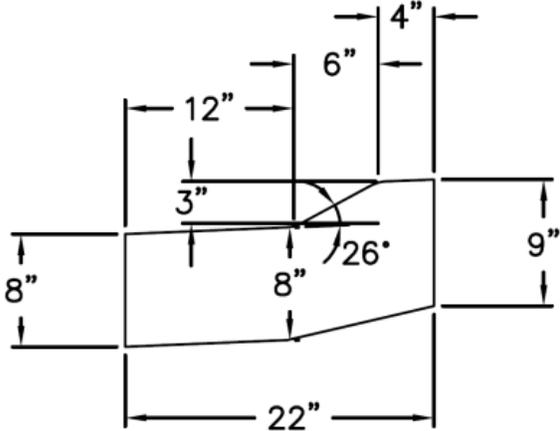
<b>Project Information</b>		
<b>FLYING HORSE NORTH FILING NO. 1</b>	<b>6/13/2018</b>	<b>PCD File No. SF-18-001</b>
Project Name	Date	

Section 1 - Grading and Erosion Control BMPs	Quantity	Units	Price	% Complete	Remaining
<b>SEE FLYING HORSE NORTH GOLF COURSE EARLY GRADING AND E.C. PLAN APPROVED OCTOBER 2016</b>					
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 Erosion Control Blanket	3.00	AC @	\$ 507		\$ -
Erosion Control Blanket	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		\$ -
		@	\$		\$ -

Update. The GEC shows more than 3 Temporary Sedimentation Basins.

\* 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
- Construc
- Aggregal
- Asphalt F
- Aggregal
- Asphalt F
- Raised I
- Electrical
- Traffic Si
- Regulato
- Advisory
- Guide/St



Epoxy Pavement Marking (Stage 1/2/3)	44,100.00	SF @	\$		
Thermoplastic Pavement Marking (Round-about markings)	450.00	SF @	\$		
Barricade - Type 3	5.00	EA @	\$ 115	\$ 575.00	\$ 575.00 *
Delineator (Type I)		EA @	\$ 21		\$ - *
Curb and Gutter, Type C (Ramp)		LF @	\$ 21		\$ - *
Curb and Gutter, Type E Modified (4" mountable island)	1,300.00	LF @	\$ 13	\$ 16,900.00	\$ 16,900.00 *
Curb and Gutter, Type B (Round-about entry medians)	2,560.00	LF @	\$ 13	\$ 33,280.00	\$ 33,280.00 *
Pedestrian Ramp		SY @	\$ 108		\$ - *
Cross Pan		SY @	\$ 53		\$ - *
Curb Chase		EA @	\$ 1,300		\$ - *
Guardrail Type 3 (W-Beam)		LF @	\$ 18		\$ - *
Guardrail Type 7 (Concrete)		LF @	\$ 67		\$ - *

Staff has been given new guidance regarding the center island design which is to use a 3" mountable C&G. Attached are two typical details that can be used. Unresolved. Update the name.

Guardrail End Anchorage		EA	@	\$ 1,978	=	\$		\$ -	*
Guardrail Impact Attenuator		EA	@	\$ 3,564	=	\$		\$ -	*
Sound Barrier Fence		LF	@	\$ 100	=	\$		\$ -	*
Concrete Sidewalk (5" thickness)		SY	@	\$ 58	=	\$		\$ -	*
<b>- Storm Drain Improvements</b>									
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		LF	@	\$ 136	=	\$		\$ -	*
42" Corrugated Steel Pipe		LF	@	\$ 147	=	\$		\$ -	*
48" Corrugated Steel Pipe		LF	@	\$ 169	=	\$		\$ -	*
54" Corrugated Steel Pipe		LF	@	\$ 193	=	\$		\$ -	*
60" Corrugated Steel Pipe		LF	@	\$ 227	=	\$		\$ -	*
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) 18" †	4.00	EA	@	\$ 414	=	\$ 1,656.00		\$ 1,656.00	*
Flared End Section (FES) 24"	14.00	EA	@	\$ 504	=	\$ 7,056.00		\$ 7,056.00	*
Flared End Section (FES) 30"	8.00	EA	@	\$ 564	=	\$ 4,512.00		\$ 4,512.00	*
Flared End Section (FES) 36"	5.00	EA	@	\$ 744	=	\$ 3,720.00		\$ 3,720.00	*
Flared End Section (FES) 48"	2.00	EA	@	\$ 1,068	=	\$ 2,136.00		\$ 2,136.00	*
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) Roadside ditches	26,000.00	SY	@	\$ 5	=	\$ 130,000.00		\$ 130,000.00	*
Rip Rap, d50 Size from 6" to 24"	545.00	CY	@	\$ 98	=	\$ 53,410.00		\$ 53,410.00	*
Rip Rap, Grouted		CY	@	\$ 215	=	\$		\$ -	*
Drainage Channel Construction, Size ( W x H )		LF	@	\$	=	\$		\$ -	*
Channel Lining, Concrete		CY	@	\$ 450	=	\$		\$ -	*
Channel Lining, Rip Rap		CY	@	\$ 98	=	\$		\$ -	*

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								
<b>Section 2 Subtotal</b>						=	\$ 3,809,325.00	3,809,325.00 **

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

Type II Storm Manhole	2.00	EA	@	\$ 4,575		9,150.00	\$ 9,150.00
<b>- Water System Improvements</b>							
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	@	\$	=	\$	\$ -
<b>- Sanitary Sewer Improvements</b>							
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	@	\$	=	\$	\$ -
<b>- Landscaping (if Applicable)</b>							
		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							
<b>Section 3 Subtotal</b>					=	\$ 629,918.00	629,918.00

**Financial Assurance Totals**

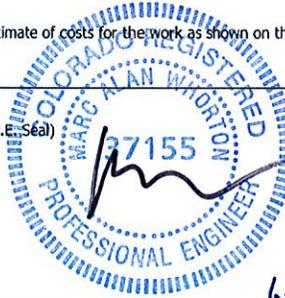
As-built drawings - (FILL IN IF THERE ARE ANY PUBLICLY-MAINTAINED IMPROVEMENTS)	\$	<u>\$5,000</u>
( Inc. survey to verify detention pond volumes.)	<b>Total Construction Financial Assurance</b>	<b><u>\$4,444,243.00</u></b>
	(Sum of all section subtotals)	
	<b>Total Remaining Construction Financial Assurance</b>	<b><u>4,444,243.00</u></b>
	(Sum of all section totals less credit for items complete)	
	<b>Total Defect Warranty Financial Assurance</b>	<b><u>\$761,865.00</u></b>
	(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

(P.E. Seal)



Date

6/14/18

A handwritten signature in blue ink, appearing to read "Daniel Babito".

Approved by Owner / Applicant

Date

6-14-18

Approved by El Paso County Engineer / ECM Administrator

Date

# Markup Summary

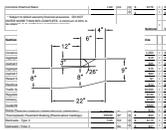
dsdlaforce (5)



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Staff has been given new guidance regarding the center island design which is to use a 3" mountable C&G. Attached are two typical details that can be used. Unresolved. Update the name.



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Update. The GEC shows more than 3 Temporary Sedimentation Basins.