2015 Financial Assurance

Estimate Form (with pre-plat construction)

Project Information	
Grazing Yak 19145002	4/16/2019
Project Name	Date

Section 1 - Grading and Erosion Control BMPs	Quantity	Units		Price			% Complete	Remaining	
Earthwork*	39,000.00	CY	@	$ $5	=	$ 195,000.00		$ 195,000.00	*
Permanent Seeding* (inc. noxious weed mgmnt.)	43.00	AC	@	$ $582	=	$ 25,026.00		$ 25,026.00	*
Mulching*		AC	@	$ $507	=	$		$ -	*
Permanent Erosion Control Blanket*	2,700.00	SY	@	$ $6	=	$ 16,200.00		$ 16,200.00	*
Temporary Erosion Control Blanket		SY	@	$ $3		$		$ -	
Vehicle Tracking Control	2.00	EA	@	$ $1,625	=	$ 3,250.00		$ 3,250.00	
Safety Fence		LF	@	$ $3	=	$		$ -	
Silt Fence	4,000.00	LF	@	$ $4	=	$ 16,000.00		$ 16,000.00	
Temporary Seeding	20.00	AC	@	$ $485	=	$ 9,700.00		$ 9,700.00	
Temporary Mulch		AC	@	$ $507	=	$		$ -	
Erosion Bales		EA	@	$ $21	=	$		$ -	
Erosion Logs		LF	@	$ $6	=	$		$ -	
Rock Ditch Checks		EA	@	$	=	$		$ -	
Inlet Protection		EA	@	$ $153	=	$		$ -	
Sediment Basin	5.00	EA	@	$ $1,625	=	$ 8,125.00		$ 8,125.00	
Concrete Washout Basin		EA	@	$ $776	=	$		$ -	
			@	$	=	$		$ -	
* Subject to defect warranty financial assurance. DO NOT ENTER MORE THAN 80% COMPLETE. A minimum of 20% to be retained up to final acceptance process.									
				Section 1 Subtotal	=	$ 273,301.00		$ 273,301.00	

Section 2 - Public Improvements**	Quantity	Units		Price			% Complete	Remaining	
- Roadway Improvements									
Construction Traffic Control		LS	@	$	=	$		$ -	*
Aggregate Base Course		Tons	@	$ $18	=	$		$ -	*
Asphalt Pavement		Tons	@	$ $65	=	$		$ -	*
Raised Median, Paved		SF	@	$ $7	=	$		$ -	*
Electrical Conduit, Size =		LF	@	$ $14	=	$		$ -	*
Traffic Signal, complete intersection		EA	@	$ $250,000	=	$		$ -	*
Regulatory Sign		EA	@	$ $100	=	$		$ -	*
Advisory Sign		EA	@	$ $100	=	$		$ -	*
Guide/Street Name Sign		EA	@	$		$		$ -	*
Epoxy Pavement Marking		SF	@	$ $12	=	$		$ -	*
Thermoplastic Pavement Marking		SF	@	$ $22	=	$		$ -	*
Barricade - Type 3		EA	@	$ $115	=	$		$ -	*
Delineator (Type I)		EA	@	$ $21	=	$		$ -	*
Curb and Gutter, Type C (Ramp)		LF	@	$ $21	=	$		$ -	*
Curb and Gutter, Type A (6" Vertical)		LF	@	$ $16	=	$		$ -	*
Curb and Gutter, Type B (Median)		LF	@	$ $13	=	$		$ -	*
Concrete Sidewalk, 4"		SY	@	$38		$		$ -	*
Concrete Sidewalk, 5"		SY	@	$48		$		$ -	*
Concrete Sidewalk, 6"		SY	@	$57		$		$ -	*
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	=	$		$ - *
Guardrail End Anchorage			EA	@	$	$1,978	=	$		$ - *
Guardrail Impact Attenuator			EA	@	$	$3,564	=	$		$ - *
Sound Barrier Fence			LF	@	$	$100	=	$		$ - *
- Storm Drain Improvements										
Concrete Box Culvert (M Standard), Size (W x H)			LF	@	$		=	$		$ - *
Reinforced Concrete Pipe (RCP)	Size		LF	@	$		=	$		$ - *
18" Reinforced Concrete Pipe			LF	@	$	$69	=	$		$ - *
24" Reinforced Concrete Pipe			LF	@	$	$84	=	$		$ - *
30" Reinforced Concrete Pipe			LF	@	$	$94	=	$		$ - *
36" Reinforced Concrete Pipe			LF	@	$	$124	=	$		$ - *
42" Reinforced Concrete Pipe			LF	@	$	$134	=	$		$ - *
48" Reinforced Concrete Pipe			LF	@	$	$178	=	$		$ - *
54" Reinforced Concrete Pipe			LF	@	$	$182	=	$		$ - *
60" Reinforced Concrete Pipe			LF	@	$	$216	=	$		$ - *
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) RCP	┼		EA	@	$		=	$		$ - *
Flared End Section (FES) CSP	┼		EA	@	$		=	$		$ - *
End Treatment- Headwall			EA	@	$		=	$		$ - *
End Treatment- Wingwall			EA	@	$		=	$		$ - *
End Treatment - Cutoff Wall			EA	@	$		=	$		$ - *
Curb Inlet (Type R) L=5', Depth < 5 feet			EA	@	$	$3,791	=	$		$ - *
Curb Inlet (Type R) L=5', 5'-10' Depth			EA	@	$	$5,044		$		$ - *
Curb Inlet (Type R) L =5' , 10'-15' Depth			EA	@	$	$6,027	=	$		$ - *
Curb Inlet (Type R) L =10', Depth < 5 feet			EA	@	$	$5,528	=	$		$ - *
Curb Inlet (Type R) L =10' , 5'-10' Depth			EA	@	$	$6,694	=	$		$ - *
Curb Inlet (Type R) L =10' , 10'-15' Depth			EA	@	$	$7,500	=	$		$ - *
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			EA	@	$	$4,575	=	$		$ - *
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	=	$		$ -	*
Channel Lining, Grass		AC	@	$ $1,287	=	$		$ -	*
Channel Lining, Other Stabilization		SY	@	$ $3	=	$		$ -	*
Detention Outlet Structure		EA	@	$	=	$		$ -	*
Detention Emergency Spillway		EA	@	$	=	$		$ -	*
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 final acceptance process. ┼ For flared end sections, multiply pipe LF cost by 6				**Section 2 Subtotal**	=	$			**

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)			@	$	=	$		$ -
			@	$	=	$		$ -
			@	$	=	$		$ -
Concrete Sidewalk, 4" thick		SY	@	$ $38	=	$		$ -
			@	$	=	$		$ -
			@	$	=	$		$ -
- Storm Drain Improvements								
Permanent Detention Structure	1.00		@	$ 30,000	=	$ 30,000.00		$ 30,000.00
			@	$	=	$		$ -
			@	$	=	$		$ -
			@	$	=	$		$ -
			@	$	=	$		$ -
			@	$	=	$		$ -
- 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)								
(List landscaping line items and cost - usually only in case of subdivision specific condition of approval, or PUD)		EA	@	$	=	$		$ -
		EA	@	$	=	$		
		EA	@	$	=	$		$ -
		EA	@	$	=	$		$ -
		EA	@	$	=	$		$ -
***items in this section are not subject to defect warranty financial assurance				**Section 3 Subtotal**	=	$ 30,000.00		30,000.00

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**	$308,301.00
	(Sum of all section subtotals)	
	Total Remaining Construction Financial Assurance	308,301.00
	(Sum of all section totals less credit for items complete)	
	Total Defect Warranty Financial Assurance	$47,245.20
	(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.

Brendan D. Miller, P.E. 4/16/2019

Engineer Date

(P.E. Seal)

Approved by Owner / Applicant Date

Approved by El Paso Couny Engineer / ECM Administrator Date