VR 18-013

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

1-3-19

Project Information	
Appaloosa Hwy 24 Subdivision Filing 1A Lots 1, 2 & 3	1/3/2019
Project Name	Date

Section 1 - Grading and Erosion Control BMPs	Quantity	Units		Price			% Complete	Remaining	
Earthwork*	1,000.00	CY	@	$ $5	=	$ 5,000.00		$ 5,000.00	*
Permanent Seeding* (inc. noxious weed mgmnt.)	0.60	AC	@	$ $582	=	$ 349.20		$ 349.20	*
Mulching*	0.60	AC	@	$ $507	=	$ 304.20		$ 304.20	*
Permanent Erosion Control Blanket*		SY	@	$ $6	=	$		$ -	*
Temporary Erosion Control Blanket		SY	@	$ $3		$		$ -	
Vehicle Tracking Control	1.00	EA	@	$ $1,625	=	$ 1,625.00		$ 1,625.00	
Safety Fence		LF	@	$ $3	=	$		$ -	
Silt Fence	540.00	LF	@	$ $4	=	$ 2,160.00		$ 2,160.00	
Temporary Seeding	0.60	AC	@	$ $485	=	$ 291.00		$ 291.00	
Temporary Mulch	0.60	AC	@	$ $507	=	$ 304.20		$ 304.20	
Erosion Bales	6.00	EA	@	$ $21	=	$ 126.00		$ 126.00	
Erosion Logs		LF	@	$ $6	=	$		$ -	
Rock Ditch Checks		EA	@	$	=	$		$ -	
Inlet Protection	2.00	EA	@	$ $153	=	$ 306.00		$ 306.00	
Sediment Basin	1.00	EA	@	$ $1,625	=	$ 1,625.00		$ 1,625.00	
Concrete Washout Basin	1.00	EA	@	$ $776	=	$ 776.00		$ 776.00	
			@	$	=	$		$ -	
* 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	=	$ 12,866.60		$ 12,866.60	

Section 2 - Public Improvements**	Quantity	Units		Price			% Complete	Remaining	
- Roadway Improvements									
Construction Traffic Control		LS	@	$ 1,000	=	$		$ -	*
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	=	$		$ -	*
Pedestrian Ramp		SY	@	$ $108	=	$		$ -	*

Cross Pan		SY	@	$	$53	=	$		$	-	*
Curb Chase		EA	@	$	$1,300	=	$		$	-	*
Concrete Sidewalk		SF	@	$	$3	=	$		$	-	*
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 24"		EA	@	$	700	=	$		$	-	*
Flared End Section (FES) RCP 30"		EA	@	$	800	=	$		$	-	*
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	69.00	CY	@	$	$450	=	$	31,050.00		$ 31,050.00 *
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 preliminary acceptance process. ┼ For flared end sections, multiply pipe LF cost by 6				Section 2 Subtotal		=	S	31,050.00		31,050.00 **

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)			@	$	=	$		$ -	
			@	$	=	$		$ -	
			@	$	=	$		$ -	
Concrete Sidewalk		SY	@	$ $38	=	$		$ -	
			@	$	=	$		$ -	
			@	$	=	$		$ -	
- Storm Drain Improvements									
(Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County)			@	$	=	$		$ -	
			@	$	=	$		$ -	
			@	$	=	$		$ -	
				5,000	=	$		$ -	=
18" HDPE Pipe	346.00	LF		$69	=	$ 23,874.00		$ 23,874.00	=
24" RCP Pipe	50.00	LF		$75	=	$ 3,750.00		$ 3,750.00	=
Flared End Section (FES) HDPE 18"	1.00	EA		450	=	$ 450.00		$ 450.00	=
Flared End Section (FES) RCP 24"	1.00	EA		500	=	$ 500.00		$ 500.00	=
Type C Inlet	3.00	EA		3,270	=	$ 9,810.00		$ 9,810.00	=
Detention Outlet Structure	1.00	EA		5,000	=	$ 5,000.00		$ 5,000.00	=
Detention Emergency Spillway	1.00	EA	@	$ 1,500	=	$ 1,500.00		$ 1,500.00	=
Rip Rap, d50 Size from 6" to 24"		CY	@	$ $98	=	$		$ -	=
			@	$	=	$			=
									=
- 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	3.00	EA	@	$ 1,253	=	$ 3,759.00		$ 3,759.00	
Fire Cistern Installation, complete		EA	@	$	=	$		$ -	
- Sanitary Sewer Improvements									
Sewer Main Pipe (PVC), Size 8"	340.00	LF	@	$ $94	=	$ 31,960.00		$ 31,960.00	
Sanitary Sewer Manhole, Depth < 15 feet	1.00	EA	@	$ $4,575	=	$ 4,575.00		$ 4,575.00	
Sanitary Service Line Installation, complete	3.00	EA	@	$ 1,516	=	$ 4,548.00		$ 4,548.00	
Sanitary Sewer Lift Station, complete		EA	@	$ 1,516	=	$		$ -	
- 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	=	$ 89,726.00		89,726.00	

Financial Assurance Totals		
As-built drawings - **(FILL IN IF THERE ARE ANY PUBLICLY-MAINTAINED IMPROVEMENTS)**	$	$1,500
(Inc. survey to verify detention pond volumes.)	**Total Construction Financial Assurance**	**$135,142.60**
	(Sum of all section subtotals)	
	Total Remaining Construction Financial Assurance	**135,142.60**
	(Sum of all section totals less credit for items complete)	
	Total Defect Warranty Financial Assurance	**$7,340.68**
	(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 2/4/19

(P.E. Seal)

Approved by Owner / Applicant — Date 2/4/19

Approved
by Elizabeth Nijkamp
El Paso County Planning and Community Development
on behalf of Jennifer Irvine, County Engineer, ECM Administrator
03/11/2019 6:14:55 PM

Approved by El Paso Couny Engineer / ECM Administrator — Date