

Note: this FAE reviewed for EGP only.

2015 Financial Assurance

06/22/2018

Estimate Form (with pre-plat construction)

temp seeding should cover all remaining acreage that is not in the permanent seeding for the entire site disturbance area.

Project Information	
Lorson Ranch East Filing No. 2-Grading and Wet Utilities	6/22/2018
Project Name	Date

Section 1 - Grading and Erosion Control BMPs	Quantity	Units	Price	% Complete	Remaining
Earthwork*	20,000.00	CY @	\$ 5		\$ 100,000.00
Permanent Seeding*	10.00	AC @	\$ 582		\$ 5,820.00
Mulching*	10.00	AC @	\$ 507		\$ 5,070.00
Permanent Erosion Control Blanket*		SY @	\$ 6		\$ -
Temporary Erosion Control Blanket		SY @	\$ 3		\$ -
Vehicle Tracking Control	3.00	EA @	\$ 1,625		\$ 4,875.00
Safety Fence		LF @	\$ 3		\$ -
Silt Fence		LF @	\$ 4		\$ -
Temporary Seeding	3.00	AC @	\$ 485		\$ 1,455.00
Temporary Mulch	3.00	AC @	\$ 507		\$ 1,521.00
Erosion Bales		EA @	\$ 21		\$ -
Erosion Logs		LF @	\$ 6		\$ -
Rock Ditch Checks		EA @	\$ -		\$ -
Inlet Protection	13.00	EA @	\$ 153		\$ 1,989.00
Sediment Basin	2.00	EA @	\$ 4,000		\$ 8,000.00
Concrete Washout Basin	1.00	EA @	\$ 776		\$ 776.00
		@	\$ -		\$ -
Section 1 Subtotal					\$ 129,506.00

* specified items subject to defect warranty financial assurance. A minimum of 20% to be retained up to preliminary acceptance process.

Section 2 - Public Improvements**	Quantity	Units	Price	% Complete	Remaining
- Roadway Improvements					
Construction Traffic Control		LS @	\$ 5,000		\$ -
Aggregate Base Course, 6" thick		Tons @	\$ 18		\$ -
Asphalt Pavement, 5" thick		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 @	\$ 200		\$ -
Epoxy Pavement Marking		SF @	\$ 12		\$ -
Thermoplastic Pavement Marking		SF @	\$ 22		\$ -
Barricade - Type F		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		\$ -

Additional TSBs required?

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)		LF	@	\$ 90	=	\$		\$ -	*
18" Reinforced Concrete Pipe	160.00	LF	@	\$ 69	=	\$ 11,040.00		\$ 11,040.00	*
24" Reinforced Concrete Pipe	385.00	LF	@	\$ 84	=	\$ 32,340.00		\$ 32,340.00	*
30" Reinforced Concrete Pipe	400.00	LF	@	\$ 94	=	\$ 37,600.00		\$ 37,600.00	*
36" Reinforced Concrete Pipe	42.00	LF	@	\$ 124	=	\$ 5,208.00		\$ 5,208.00	*
42" Reinforced Concrete Pipe		LF	@	\$ 134	=	\$		\$ -	*
48" Reinforced Concrete Pipe	175.00	LF	@	\$ 178	=	\$ 31,150.00		\$ 31,150.00	*
54" Reinforced Concrete Pipe	460.00	LF	@	\$ 182	=	\$ 83,720.00		\$ 83,720.00	*
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	150.00	LF	@	\$ 101	=	\$ 15,150.00		\$ 15,150.00	*
36" Corrugated Steel Pipe	83.00	LF	@	\$ 136	=	\$ 11,288.00		\$ 11,288.00	*
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	@	\$ 800	=	\$		\$ -	*
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	2.00	EA	@	\$ 5,044	=	\$ 10,088.00		\$ 10,088.00	*
Curb Inlet (Type R) L =5' , 10'-15' Depth		EA	@	\$ 6,027	=	\$		\$ -	*
Curb Inlet (Type R) L =10', Depth < 5 feet	6.00	EA	@	\$ 5,528	=	\$ 33,168.00		\$ 33,168.00	*
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	1.00	EA	@	\$ 7,923	=	\$ 7,923.00		\$ 7,923.00	*
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 = 30' , 5' - 10' Depth	2.00	EA	@	\$ 10,000	=	\$ 20,000.00		\$ 20,000.00	*
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	9.00	EA	@	\$ 4,575	=	\$ 41,175.00		\$ 41,175.00	*
Geotextile (Erosion Control)		SY	@	\$ 5	=	\$		\$ -	*
Rip Rap, d50 Size from 6" to 24"	100.00	CY	@	\$ 98	=	\$ 9,800.00		\$ 9,800.00	*
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 Lining, Other Stabilization		SY	@	\$ 3	=	\$		\$ - *	
Detention Outlet Structure		EA	@	\$ 30,000	=	\$		\$ - *	
Detention Emergency Spillway		EA	@	\$ 15,000	=	\$		\$ - *	
Permanent Water Quality Facility (Describe)		EA	@	\$ 25,000	=	\$		\$ - *	
* specified items subject to defect warranty financial assurance. A minimum of 20% to be retained up to preliminary acceptance process. † For flared end sections, multiply pipe LF cost by 6								349,650.00	
Section 2 Subtotal								\$ 349,650.00	349,650.00 **

Add
standpipes
w/trash racks

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 - 5" THICK		SY	@	\$ 58	=	\$	\$ -
			@	\$	=	\$	\$ -
			@	\$	=	\$	\$ -
- Storm Drain Improvements							
(Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County)			@	\$	=	\$	\$ -
			@	\$	=	\$	\$ -
			@	\$	=	\$	\$ -
			@	\$	=	\$	\$ -
			@	\$	=	\$	\$ -
			@	\$	=	\$	\$ -
- Water System Improvements							
Water Main Pipe (PVC), Size 8"	7,100.00	LF	@	\$ 94	=	\$ 667,400.00	\$ -
Water Main Pipe (Ductile Iron), Size 8"		LF	@	\$ 137	=	\$	\$ -
Gate Valves, 8"	56.00	EA	@	\$ 1,852	=	\$ 103,712.00	\$ -
Fire Hydrant Assembly w/ all valves	16.00	EA	@	\$ 6,430	=	\$ 102,880.00	\$ -
Water Service Line Installation, including tap and valves	196.00	EA	@	\$ 1,253	=	\$ 245,588.00	\$ -
Watermain crossing Marksheffel Road		EA	@	\$ 120,000	=	\$	\$ -
- Sanitary Sewer Improvements							
Sewer Main Pipe (PVC), Size 8"	7,000.00	LF	@	\$ 94	=	\$ 658,000.00	\$ -
Sanitary Sewer Manhole, Depth < 15 feet	27.00	EA	@	\$ 4,575	=	\$ 123,525.00	\$ -
Sanitary Service Line Installation, complete	196.00	EA	@	\$ 1,516	=	\$ 297,136.00	\$ -
Underdrain	7,000.00	LF	@	\$ 10	=	\$ 70,000.00	\$ -
- 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		=	\$ 2,268,241.00

Financial Assurance Totals

As-built drawings - (FILL IN IF THERE ARE ANY PUBLICLY-MAINTAINED IMPROVEMENTS)	\$	<u>\$6,000</u>
(Inc. survey to verify detention pond volumes.)	Total Construction Financial Assurance	\$2,753,397.00
	(Sum of all section subtotals)	
	Total Remaining Construction Financial Assurance	485,156.00
	(Sum of all section totals less credit for items complete)	
	Total Defect Warranty Financial Assurance	\$92,108.00
	(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 County Engineer / ECM Administrator _____ Date _____