

2015 Financial Assurance

Estimate Form (with pre-plat construction)

06/22/2018

SF 19-00x SF-19-008

Project Information	
Lorson Ranch East Filing No. 4	3/6/2019
Project Name	Date

Section 1 - Grading and Erosion Control BMPs	Quantity	Units		Price		% Complete	Remaining
Earthwork*	100,000.00	CY	@	\$ 5	= \$ 500,000.00		\$ 500,000.00 *
Permanent Seeding*	71.00	AC	@	\$ 582	= \$ 41,322.00		\$ 41,322.00 *
Mulching*	71.00	AC	@	\$ 507	= \$ 35,997.00		\$ 35,997.00 *
Permanent Erosion Control Blanket*	24,800.00	SY	@	\$ 6	= \$ 148,800.00		\$ 148,800.00 *
Temporary Erosion Control Blanket		SY	@	\$ 3	= \$		\$ -
Vehicle Tracking Control	4.00	EA	@	\$ 1,625	= \$ 6,500.00		\$ 6,500.00
Safety Fence		LF	@	\$ 3	= \$		\$ -
Silt Fence	3,500.00	LF	@	\$ 4	= \$ 14,000.00		\$ 14,000.00
Temporary Seeding	20.00	AC	@	\$ 485	= \$ 9,700.00		\$ 9,700.00
Temporary Mulch	20.00	AC	@	\$ 507	= \$ 10,140.00		\$ 10,140.00
Erosion Bales	200.00	EA	@	\$ 21	= \$ 4,200.00		\$ 4,200.00
Erosion Logs		LF	@	\$ 6	= \$		\$ -
Rock Ditch Checks	4.00	EA	@	\$	= \$		\$ -
Inlet Protection	18.00	EA	@	\$ 153	= \$ 2,754.00		\$ 2,754.00
Sediment Basin	3.00	EA	@	\$ 4,000	= \$ 12,000.00		\$ 12,000.00
Concrete Washout Basin	2.00	EA	@	\$ 776	= \$ 1,552.00		\$ 1,552.00
		@	\$	= \$			\$ -
* specified items subject to defect warranty financial assurance. A minimum of 20% to be retained up to final acceptance process.							
Section 1 Subtotal					= \$ 786,965.00		\$ 786,965.00

Section 2 - Public Improvements**	Quantity	Units		Price		% Complete	Remaining
- Roadway Improvements							
Construction Traffic Control	1.00	LS	@	\$ 5,000	= \$ 5,000.00		\$ 5,000.00 *
Aggregate Base Course, 6" thick	12,330.00	Tons	@	\$ 18	= \$ 221,940.00		\$ 221,940.00 *
Asphalt Pavement, 5" thick	10,670.00	Tons	@	\$ 65	= \$ 693,550.00		\$ 693,550.00 *
Raised Median, Paved		SF	@	\$ 7	= \$		\$ - *
Electrical Conduit, Size =		LF	@	\$ 14	= \$		\$ - *
Traffic Signal, complete intersection		EA	@	\$ 250,000	= \$		\$ - *
Regulatory Sign	23.00	EA	@	\$ 100	= \$ 2,300.00		\$ 2,300.00 *
Advisory Sign		EA	@	\$ 100	= \$		\$ - *
Guide/Street Name Sign	34.00	EA	@	\$ 200	= \$ 6,800.00		\$ 6,800.00 *
Epoxy Pavement Marking	1,200.00	SF	@	\$ 12	= \$ 14,400.00		\$ 14,400.00 *
Thermoplastic Pavement Marking	220.00	SF	@	\$ 22	= \$ 4,840.00		\$ 4,840.00 *
Barricade - Type F	6.00	EA	@	\$ 115	= \$ 690.00		\$ 690.00 *
Delineator (Type I)		EA	@	\$ 21	= \$		\$ - *
Curb and Gutter, Type C (Ramp)	17,300.00	LF	@	\$ 21	= \$ 363,300.00		\$ 363,300.00 *
Curb and Gutter, Type A (6" Vertical)	3,880.00	LF	@	\$ 16	= \$ 62,080.00		\$ 62,080.00 *
Curb and Gutter, Type B (Median)		LF	@	\$ 13	= \$		\$ - *
Pedestrian Ramp	290.00	SY	@	\$ 108	= \$ 31,320.00		\$ 31,320.00 *

Cross Pan	300.00	SY	@	\$ 53	=	\$ 15,900.00	\$ 15,900.00	*
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	1,180.00	LF	@	\$ 69	=	\$ 81,420.00	\$ 81,420.00	*
24" Reinforced Concrete Pipe	580.00	LF	@	\$ 84	=	\$ 48,720.00	\$ 48,720.00	*
30" Reinforced Concrete Pipe	625.00	LF	@	\$ 94	=	\$ 58,750.00	\$ 58,750.00	*
36" Reinforced Concrete Pipe	400.00	LF	@	\$ 124	=	\$ 49,600.00	\$ 49,600.00	*
42" Reinforced Concrete Pipe	200.00	LF	@	\$ 134	=	\$ 26,800.00	\$ 26,800.00	*
48" Reinforced Concrete Pipe	820.00	LF	@	\$ 178	=	\$ 145,960.00	\$ 145,960.00	*
54" Reinforced Concrete Pipe	100.00	LF	@	\$ 182	=	\$ 18,200.00	\$ 18,200.00	*
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		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 +	4.00	EA	@	\$ 800	=	\$ 3,200.00	\$ 3,200.00	*
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		EA	@	\$ 5,528	=	\$	\$ -	*
Curb Inlet (Type R) L =10' , 5'-10' Depth	4.00	EA	@	\$ 6,694	=	\$ 26,776.00	\$ 26,776.00	*
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	1.00	EA	@	\$ 8,000	=	\$ 8,000.00	\$ 8,000.00	*
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	1.00	EA	@	\$ 8,830	=	\$ 8,830.00	\$ 8,830.00	*
Curb Inlet (Type R) L = 30' , 5' - 10' Depth	3.00	EA	@	\$ 10,000	=	\$ 30,000.00	\$ 30,000.00	*
Curb Inlet (Type R) L = ____' , ____' - ____' Depth		EA	@	\$	=	\$	\$ -	*
Grated Inlet (Type C), < 5' deep		EA	@	\$ 3,270	=	\$	\$ -	*
Grated Inlet (Type D), < 5' deep	2.00	EA	@	\$ 3,908	=	\$ 7,816.00	\$ 7,816.00	*
Storm Sewer Manhole, Box Base, Depth < 15 feet	6.00	EA	@	\$ 8,592	=	\$ 51,552.00	\$ 51,552.00	*
Storm Sewer Manhole, Slab Base, Depth < 15 feet	8.00	EA	@	\$ 4,575	=	\$ 36,600.00	\$ 36,600.00	*
Geotextile (Erosion Control)	3,400.00	SY	@	\$ 20	=	\$ 68,000.00	\$ 68,000.00	*
Rip Rap, d50 Size from 6" to 24"	250.00	CY	@	\$ 98	=	\$ 24,500.00	\$ 24,500.00	*
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	1.00	EA	@	\$ 15,000	=	\$ 15,000.00		\$ 15,000.00 *
Detention Emergency Spillway	1.00	EA	@	\$ 10,000	=	\$ 10,000.00		\$ 10,000.00 *
Permanent Water Quality Facility (Describe)	1.00	EA	@	\$ 20,000	=	\$ 20,000.00		\$ 20,000.00 *
* specified items subject to defect warranty financial assurance. 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		=	2,171,932.00	
						\$		2,171,932.00 **

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 - 5" THICK	10,100.00	SY	@ \$ \$58	=	\$ 585,800.00	\$ 585,800.00
Concrete Sidewalk - 4" THICK	3,280.00	SY	@ \$ \$58	=	\$ 190,240.00	\$ 190,240.00
		@	\$	=	\$	\$ -
- 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"	9,200.00	LF	@ \$ \$94	=	\$ 864,800.00	\$ 864,800.00
Water Main Pipe (Ductile Iron), Size 8"		LF	@ \$ \$137	=	\$	\$ -
Gate Valves, 8"	29.00	EA	@ \$ \$1,852	=	\$ 53,708.00	\$ 53,708.00
Fire Hydrant Assembly w/ all valves	29.00	EA	@ \$ \$6,430	=	\$ 186,470.00	\$ 186,470.00
Water Service Line Installation, including tap and valves	246.00	EA	@ \$ \$1,253	=	\$ 308,238.00	\$ 308,238.00
Watermain crossing Marksheffel Road		EA	@ \$ \$120,000	=	\$	\$ -
- Sanitary Sewer Improvements						
Sewer Main Pipe (PVC), Size 8"	10,800.00	LF	@ \$ \$94	=	\$ 1,015,200.00	\$ 1,015,200.00
Sanitary Sewer Manhole, Depth < 15 feet	47.00	EA	@ \$ \$4,575	=	\$ 215,025.00	\$ 215,025.00
Sanitary Service Line Installation, complete	246.00	EA	@ \$ \$1,516	=	\$ 372,936.00	\$ 372,936.00
Underdrain	10,800.00	LF	@ \$ \$10	=	\$ 108,000.00	\$ 108,000.00
- Landscaping (If Applicable)						
(List landscaping line items and cost - usually only in case of subdivision specific condition of approval, or PUD)		EA	@ \$	=	\$	\$ -
		EA	@ \$	=	\$	\$ -
Landscape S. side of Iorson blvd from trappe to lamprey	1.00	EA	@ \$ \$12,000	=	\$ 12,000.00	\$ 12,000.00
Add S. side of Fontaine		EA	@ \$	=	\$	\$ -
		EA	@ \$	=	\$	\$ -
***items in this section are not subject to defect warranty financial assurance						
Section 3 Subtotal				=	\$ 3,912,417.00	3,912,417.00

Financial Assurance Totals		
As-built drawings - (FILL IN IF THERE ARE ANY PUBLICLY-MAINTAINED IMPROVEMENTS)	\$	\$6,000
(Inc. survey to verify detention pond volumes.)	Total Construction Financial Assurance	\$6,877,314.00
(Sum of all section subtotals)		
	Total Remaining Construction Financial Assurance	6,877,314.00
(Sum of all section totals less credit for items complete)		
	Total Defect Warranty Financial Assurance	\$579,610.20
(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

(P.E. Seal)

Date

Approved by Owner / Applicant

Date

Approved by El Paso Couny Engineer / ECM Administrator

Date

Steve Kuehster (2)

Subject: text box 65 10 000

SF-19-008

Add S. side of Fontaine