

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

06/22/2018

Project Information	
Lorson Ranch East Filing No. 2-Grading and Wet Utilities	9/15/2018
Project Name	Date

Section 1 - Grading and Erosion Control BMPs	Quantity	Units	Price		% Complete	Remaining
Earthwork*	50,000.00	CY	@ \$ 5	= \$ 250,000.00		\$ 250,000.00 *
Permanent Seeding*	21.00	AC	@ \$ 582	= \$ 12,222.00		\$ 12,222.00 *
Mulching*	21.00	AC	@ \$ 507	= \$ 10,647.00		\$ 10,647.00 *
Permanent Erosion Control Blanket*		SY	@ \$ 6	= \$		\$ - *
Temporary Erosion Control Blanket		SY	@ \$ 3	= \$		\$ -
Vehicle Tracking Control	3.00	EA	@ \$ 1,625	= \$ 4,875.00		\$ 4,875.00
Safety Fence		LF	@ \$ 3	= \$		\$ -
Silt Fence		LF	@ \$ 4	= \$		\$ -
Temporary Seeding	30.00	AC	@ \$ 485	= \$ 14,550.00		\$ 14,550.00
Temporary Mulch	30.00	AC	@ \$ 507	= \$ 15,210.00		\$ 15,210.00
Erosion Bales	200.00	EA	@ \$ 21	= \$ 4,200.00		\$ 4,200.00
Erosion Logs		LF	@ \$ 6	= \$		\$ -
Rock Ditch Checks		EA	@ \$	= \$		\$ -
Inlet Protection	13.00	EA	@ \$ 153	= \$ 1,989.00		\$ 1,989.00
Sediment Basin	2.00	EA	@ \$ 4,000	= \$ 8,000.00		\$ 8,000.00
Concrete Washout Basin	1.00	EA	@ \$ 776	= \$ 776.00		\$ 776.00
		@ \$		= \$		\$ -
* specified items subject to defect warranty financial assurance. A minimum of 20% to be retained up to preliminary acceptance process.						
Section 1 Subtotal				= \$ 322,469.00		\$ 322,469.00

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	= \$		\$ - *

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	660.00	LF	@	\$	\$84	=	\$	55,440.00	\$	55,440.00	*
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	90.00	LF	@	\$	\$66	=	\$	5,940.00	\$	5,940.00	*
24" Corrugated Steel Pipe		LF	@	\$	\$96	=	\$		\$	-	*
30" Corrugated Steel Pipe		LF	@	\$	\$101	=	\$		\$	-	*
36" Corrugated Steel Pipe	48.00	LF	@	\$	\$136	=	\$	6,528.00	\$	6,528.00	*
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)	250.00	SY	@	\$	\$20	=	\$	5,000.00	\$	5,000.00	*
Rip Rap, d50 Size from 6" to 24"	150.00	CY	@	\$	\$98	=	\$	14,700.00	\$	14,700.00	*
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 (standpipes/trash racks)	2.00	EA	@	\$	4,000	=	\$	8,000.00	\$	8,000.00	*	
Detention Emergency Spillway (Pond C3)	1.00	EA	@	\$	15,000	=	\$	15,000.00	\$	15,000.00	*	
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										391,680.00		
Section 2 Subtotal							=	\$	391,680.00		391,680.00	**

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		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

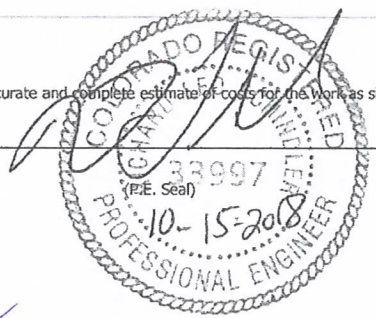
As-built drawings - (FILL IN IF THERE ARE ANY PUBLICLY-MAINTAINED IMPROVEMENTS) (Inc. survey to verify detention pond volumes.)	\$ 6,000
Total Construction Financial Assurance	\$2,988,390.00
(Sum of all section subtotals)	
Total Remaining Construction Financial Assurance	720,149.00
(Sum of all section totals less credit for items complete)	
Total Defect Warranty Financial Assurance	\$132,909.80
(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



[Handwritten Signature]

10/15/18

Approved by Owner / Applicant

Date

Approved
by Elizabeth Nijkamp
El Paso County Planning and Community Development
on behalf of Jennifer Irvine, County Engineer, ECM Administrator



10/31/2018 6:11:19 PM

Approved by El Paso County Engineer / ECM Administrator

Date

EGP-18-002 /
SF-18-019