

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

04/06/2016

Project Information	
Lorson Ranch East - Early Grading Phase 1	11/10/2017
Project Name	Date

Section 1 - Grading and Erosion Control BMPs	Quantity	Units	Price		% Complete	Remaining
Earthwork*	260,000.00	CY	@ \$ \$2	= \$	520,000.00	\$ 520,000.00 *
Permanent Seeding*	80.00	AC	@ \$ \$582	= \$	46,560.00	\$ 46,560.00 *
Mulching*	80.00	AC	@ \$ \$507	= \$	40,560.00	\$ 40,560.00 *
Permanent Erosion Control Blanket*	12,600.00	SY	@ \$ \$6	= \$	75,600.00	\$ 75,600.00 *
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	5,000.00	LF	@ \$ \$4	= \$	20,000.00	\$ 20,000.00
Temporary Seeding	40.00	AC	@ \$ \$485	= \$	19,400.00	\$ 19,400.00
Temporary Mulch	40.00	AC	@ \$ \$507	= \$	20,280.00	\$ 20,280.00
Erosion Bales	500.00	EA	@ \$ \$21	= \$	10,500.00	\$ 10,500.00
Erosion Logs		LF	@ \$ \$6	= \$		\$ -
Rock Ditch Checks	2.00	EA	@ \$ \$100	= \$	200.00	\$ 200.00
Inlet Protection	2.00	EA	@ \$ \$153	= \$	306.00	\$ 306.00
Sediment Basin	5.00	EA	@ \$ \$4,000	= \$	20,000.00	\$ 20,000.00
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 preliminary acceptance process.						
Section 1 Subtotal				= \$	778,208.00	\$ 778,208.00

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	@ \$ \$200	= \$		\$ - *
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	= \$		\$ - *

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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	82.00	LF	@	\$ 178	=	\$ 14,596.00	\$ 14,596.00	*
54" Reinforced Concrete Pipe	102.00	LF	@	\$ 182	=	\$ 18,564.00	\$ 18,564.00	*
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 †	2.00	EA	@	\$ 1,500	=	\$ 3,000.00	\$ 3,000.00	*
Flared End Section (FES) CSP †		EA	@	\$	=	\$	\$ -	*
End Treatment- Headwall		EA	@	\$	=	\$	\$ -	*
End Treatment- Wingwall		EA	@	\$	=	\$	\$ -	*
End Treatment - Cutoff Wall		EA	@	\$ 5,000	=	\$	\$ -	*
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)	400.00	SY	@	\$ 15	=	\$ 6,000.00	\$ 6,000.00	*
Rip Rap, d50 Size from 6" to 24"	330.00	CY	@	\$ 98	=	\$ 32,340.00	\$ 32,340.00	*
Rip Rap, Grouted	336.00	CY	@	\$ 215	=	\$ 72,240.00	\$ 72,240.00	*
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	@	\$ 5,000	=	\$		\$ - *
Detention Emergency Spillway	2.00	EA	@	\$ 6,000	=	\$ 12,000.00		\$ 12,000.00 *
Permanent Water Quality Facility (Describe)		EA	@	\$ 18,000	=	\$		\$ - *
* 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								
				Section 2 Subtotal		\$	158,740.00	158,740.00 **

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)		@	\$	=	\$	\$ -
		@	\$	=	\$	\$ -
		@	\$	=	\$	\$ -
		@	\$	=	\$	\$ -
		@	\$	=	\$	\$ -
		@	\$	=	\$	\$ -
- 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	=	\$

Financial Assurance Totals

As-built drawings - (FILL IN IF THERE ARE ANY PUBLICLY-MAINTAINED IMPROVEMENTS)

\$

(Inc. survey to verify detention pond volumes.)

Total Construction Financial Assurance \$936,948.00

(Sum of all section subtotals)

Total Remaining Construction Financial Assurance 936,948.00

(Sum of all section totals less credit for items complete)

Total Defect Warranty Financial Assurance \$168,292.00

(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

Approved by Owner / Applicant

Date

12/19/17

Approved by El Paso County Engineer / ECM Administrator

Approved 

By: Jennifer Irvine, County Engineer
Date: 02/05/2018
El Paso County Department of Public Works