

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

10/15/2015

Engineering has no
comments, EN
8/22/17

Project Information	
Carriage Meadows South at Lorson Ranch Filing No. 1	<u>6/20/2017</u>
Project Name	Date

Section 1 - Grading and Erosion Control BMPs	Quantity	Units	Price		% Complete	Remaining
Earthwork*		CY @	\$ 5	= \$		\$ - *
Permanent Seeding*		AC @	\$ 582	= \$		\$ - *
Mulching*		AC @	\$ 507	= \$		\$ - *
Permanent Erosion Control Blanket*		SY @	\$ 6	= \$		\$ - *
Temporary Erosion Control Blanket		SY @	\$ 3	= \$		\$ -
Vehicle Tracking Control		EA @	\$ 1,625	= \$		\$ -
Safety Fence		LF @	\$ 3	= \$		\$ -
Silt Fence		LF @	\$ 4	= \$		\$ -
Temporary Seeding		AC @	\$ 485	= \$		\$ -
Temporary Mulch		AC @	\$ 507	= \$		\$ -
Erosion Bales		EA @	\$ 21	= \$		\$ -
Erosion Logs		LF @	\$ 6	= \$		\$ -
Rock Ditch Checks		EA @	\$	= \$		\$ -
Inlet Protection	20.00	EA @	\$ 153	= \$	3,060.00	\$ 3,060.00
Sediment Basin		EA @	\$ 1,625	= \$		\$ -
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				= \$	3,836.00	\$ 3,836.00

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	14,600.00	Tons @	\$ 18	= \$	262,800.00	\$ 262,800.00 *
Asphalt Pavement	9,200.00	Tons @	\$ 65	= \$	598,000.00	\$ 598,000.00 *
Raised Median, Paved		SF @	\$ 7	= \$		\$ - *
Electrical Conduit, Size =		LF @	\$ 14	= \$		\$ - *
Traffic Signal, complete intersection		EA @	\$ 250,000	= \$		\$ - *
Regulatory Sign	20.00	EA @	\$ 100	= \$	2,000.00	\$ 2,000.00 *
Advisory Sign		EA @	\$ 100	= \$		\$ - *
Guide/Street Name Sign	28.00	EA @	\$ 200	= \$	5,600.00	\$ 5,600.00 *
Epoxy Pavement Marking	450.00	SF @	\$ 12	= \$	5,400.00	\$ 5,400.00 *
Thermoplastic Pavement Marking	1,000.00	SF @	\$ 22	= \$	22,000.00	\$ 22,000.00 *
Barricade - Type F	8.00	EA @	\$ 115	= \$	920.00	\$ 920.00 *
Delineator (Type I)		EA @	\$ 21	= \$		\$ - *
Curb and Gutter, Type C (Ramp)	18,600.00	LF @	\$ 21	= \$	390,600.00	\$ 390,600.00 *
Curb and Gutter, Type A (6" Vertical)	4,300.00	LF @	\$ 16	= \$	68,800.00	\$ 68,800.00 *
Curb and Gutter, Type B (Median)		LF @	\$ 13	= \$		\$ - *
Pedestrian Ramp	340.00	SY @	\$ 108	= \$	36,720.00	\$ 36,720.00 *

Cross Pan	310.00	SY	@	\$ 53	=	\$ 16,430.00	\$ 16,430.00	*
Curb Chase	2.00	EA	@	\$ 1,300	=	\$ 2,600.00	\$ 2,600.00	*
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) 24" HERC	224.00	LF	@	\$ 90	=	\$ 20,160.00	\$ 20,160.00	*
18" Reinforced Concrete Pipe	486.00	LF	@	\$ 69	=	\$ 33,534.00	\$ 33,534.00	*
24" Reinforced Concrete Pipe	1,281.00	LF	@	\$ 84	=	\$ 107,604.00	\$ 107,604.00	*
30" Reinforced Concrete Pipe	80.00	LF	@	\$ 94	=	\$ 7,520.00	\$ 7,520.00	*
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 †	7.00	EA	@	\$ 800	=	\$ 5,600.00	\$ 5,600.00	*
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	8.00	EA	@	\$ 5,044	=	\$ 40,352.00	\$ 40,352.00	*
Curb Inlet (Type R) L =5' , 10'-15' Depth		EA	@	\$ 6,027	=	\$	\$ -	*
Curb Inlet (Type R) L =10', Depth < 5 feet	9.00	EA	@	\$ 5,528	=	\$ 49,752.00	\$ 49,752.00	*
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	2.00	EA	@	\$ 7,923	=	\$ 15,846.00	\$ 15,846.00	*
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 = ___', ___' - ___' Depth		EA	@	\$	=	\$	\$ -	*
Curb Inlet (Type R) L = ___', ___' - ___' Depth		EA	@	\$	=	\$	\$ -	*
Grated Inlet (Type C), < 5' deep		EA	@	\$ 3,270	=	\$	\$ -	*
Grated Inlet (Type D), < 5' deep	1.00	EA	@	\$ 3,908	=	\$ 3,908.00	\$ 3,908.00	*
Storm Sewer Manhole, Box Base, Depth < 15 feet		EA	@	\$ 8,592	=	\$	\$ -	*
Storm Sewer Manhole, Slab Base, Depth < 15 feet	6.00	EA	@	\$ 4,575	=	\$ 27,450.00	\$ 27,450.00	*
Geotextile (Erosion Control)		SY	@	\$ 5	=	\$	\$ -	*
Rip Rap, d50 Size from 6" to 24"	10.00	CY	@	\$ 98	=	\$ 980.00	\$ 980.00	*
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	2.00	EA	@	\$ 20,000	=	\$ 40,000.00		\$ 40,000.00	*
Detention Emergency Spillway	2.00	EA	@	\$ 15,000	=	\$ 30,000.00		\$ 30,000.00	*
Permanent Water Quality Facility (Describe)	3.00	EA	@	\$ 25,000	=	\$ 75,000.00		\$ 75,000.00	*
* 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								437,546.00	
Section 2 Subtotal								\$ 1,874,576.00	\$ 1,874,576.00 **

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	11,200.00	SY	@ \$ \$38	= \$ 425,600.00		\$ 425,600.00
			@ \$	= \$		\$ -
			@ \$	= \$		\$ -
- 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"	11,450.00	LF	@ \$ \$94	= \$ 1,076,300.00		\$ 1,076,300.00
Water Main Pipe (Ductile Iron), Size 8"		LF	@ \$ \$137	= \$		\$ -
Gate Valves, 8"	87.00	EA	@ \$ \$1,852	= \$ 161,124.00		\$ 161,124.00
Fire Hydrant Assembly w/ all valves	25.00	EA	@ \$ \$6,430	= \$ 160,750.00		\$ 160,750.00
Water Service Line Installation, including tap and valves	234.00	EA	@ \$ 1,253	= \$ 293,202.00		\$ 293,202.00
Watermain crossing Marksheffel Road	1.00	EA	@ \$ \$120,000	= \$ 120,000.00		\$ 120,000.00
- Sanitary Sewer Improvements						
Sewer Main Pipe (PVC), Size 8"	9,550.00	LF	@ \$ \$94	= \$ 897,700.00		\$ 897,700.00
Sanitary Sewer Manhole, Depth < 15 feet	35.00	EA	@ \$ \$4,575	= \$ 160,125.00		\$ 160,125.00
Sanitary Service Line Installation, complete	234.00	EA	@ \$ 1,516	= \$ 354,744.00		\$ 354,744.00
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				= \$	3,649,545.00	3,649,545.00

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 <u>\$5,533,957.00</u>
	(Sum of all section subtotals)
	Total Remaining Construction Financial Assurance <u>5,533,957.00</u>
	(Sum of all section totals less credit for items complete)
	Total Defect Warranty Financial Assurance <u>\$374,915.20</u>
	(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 _____