

2019 Financial Assurance Estimate Form

(Basic form)

Project Information	
Saddlehorn Ranch - Filing 1	3/5/2019
Project Name	Date

Section 1 - Grading and Erosion Control BMPs	Quantity	Units		Price		
Earthwork* (CIP)	61,992.00	CY	@	\$5	=	\$ 309,960.00 *
Permanent Seeding* (inc. noxious weed management)	4.60	AC	@	\$582	=	\$ 2,677.20 *
Mulching*	4.60	AC	@	\$507	=	\$ 2,332.20 *
Permanent Erosion Control Blanket*	10,120.00	SY	@	\$6	=	\$ 60,720.00 *
Temporary Erosion Control Blanket		SY	@	\$3	=	\$
Vehicle Tracking Control	1.00	EA	@	\$1,625	=	\$ 1,625.00
Safety Fence		LF	@	\$3	=	\$
Silt Fence	11,840.00	LF	@	\$4	=	\$ 47,360.00
Construction Markers	11,050.00	LF	@	\$4	=	\$ 44,200.00
Temporary Seeding		AC	@	\$485	=	\$
Temporary Mulch		AC	@	\$507	=	\$
Erosion Bales		EA	@	\$21	=	\$
Erosion Logs		LF	@	\$6	=	\$
Rock Ditch Checks		EA	@	\$98	=	\$
Inlet Protection	13.00	EA	@	\$153	=	\$ 1,989.00
Outlet Protection	15.00	EA	@	\$153	=	\$ 2,295.00
Sediment Basin	5.00	EA	@	\$1,625	=	\$ 8,125.00
Concrete Washout Basin	1.00	EA	@	\$776	=	\$ 776.00
			@	\$	=	\$
Specified items subject to defect warranty financial assurance						
				Section 1 Subtotal	=	\$ 482,059.40

Section 2 - Public Improvements**	Quantity	Units		Price		
- Roadway Improvements						
Construction Traffic Control	1.00	LS	@	\$ 25,000	=	\$ 25,000.00
Aggregate Base Course	15,559.00	Tons	@	\$ \$18	=	\$ 280,062.00
Asphalt Pavement	16,315.00	Tons	@	\$ \$65	=	\$ 1,060,475.00
Raised Median, Paved		SF	@	\$ \$7	=	\$
Electrical Conduit, Size =		LF	@	\$ \$14	=	\$
Traffic Signal, complete intersection		EA	@	\$ \$250,000	=	\$
Regulatory Sign	6.00	EA	@	\$ \$100	=	\$ 600.00
Advisory Sign		EA	@	\$ \$100	=	\$
Guide/Street Name Sign	6.00	EA	@	\$ \$200	=	\$ 1,200.00
Epoxy Pavement Marking	668.00	SF	@	\$ \$12	=	\$ 8,016.00
Thermoplastic Pavement Marking		SF	@	\$ \$22	=	\$
Barricade - Type 3	2.00	EA	@	\$ \$115	=	\$ 230.00
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	=	\$
Sidewalk		LF	@	\$ \$23	=	\$
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		LF	@	\$ \$178	=	\$
54" Reinforced Concrete Pipe		LF	@	\$ \$182	=	\$
60" Reinforced Concrete Pipe	34.00	LF	@	\$ \$216	=	\$ 7,344.00
66" Reinforced Concrete Pipe		LF	@	\$ \$263	=	\$
72" Reinforced Concrete Pipe		LF	@	\$ \$283	=	\$
Corrugated Steel Pipe (CSP) Size		LF	@	\$	=	\$
18" Corrugated Steel Pipe	247.00	LF	@	\$ \$66	=	\$ 16,302.00
24" Corrugated Steel Pipe	102.00	LF	@	\$ \$96	=	\$ 9,792.00
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	109.00	LF	@	\$ \$432	=	\$ 47,088.00
Flared End Section (FES) RCP †		EA	@	\$ 1,800	=	\$
18" Flared End Section (FES) CSP †	15.00	EA	@	\$ 1,200	=	\$ 18,000.00
24" Flared End Section (FES) CSP †	4.00	EA	@	\$ 1,500	=	\$ 6,000.00
End Treatment- Headwall		EA	@	\$ 5,000	=	\$
End Treatment- Wingwall		EA	@	\$ 9,000	=	\$
End Treatment - Cutoff Wall		EA	@	\$ 500	=	\$
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)		SY	@	\$ \$5	=	\$
Rip Rap, d50 Size from 6" to 24"		CY	@	\$ \$98	=	\$

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	@	\$ 5,000	=	\$
Detention Emergency Spillway		EA	@	\$ 4,000	=	\$
Permanent Water Quality Facility (Describe)		EA	@	\$ 5,000	=	\$
~150 SY footprint, ~ 4' depth						
**all items this section subject to defect warranty financial assurance. † For flared end sections, multiply pipe LF cost by 6						
		Section 2 Subtotal			=	\$ 1,480,109.00 **

Section 3 - Common Development Improvements (Private or District) ***	Quantity	Units		Price		
- Roadway Improvements						
(Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County)			@	\$	=	\$
			@	\$	=	\$
			@	\$	=	\$
Epoxy Pavement Marking		SF	@	\$ 12	=	\$
Curb and Gutter, Type C (Ramp)		LF	@	\$ 21	=	\$
Curb and Gutter, Type A (6" Vertical)		LF	@	\$ 16	=	\$
Pedestrian Ramp		SY	@	\$ 108	=	\$
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)			@	\$	=	\$
			@	\$	=	\$
			@	\$	=	\$
Corrugated Metal Pipe (CMP) Size - 18"	137.00	LF	@	\$ 66	=	\$ 9,042.00
Detention Outlet Structure	2.00	EA	@	\$ 5,000	=	\$ 10,000.00
Detention Emergency Spillway	3.00	EA	@	\$ 4,000	=	\$ 12,000.00
Flared End Section (FES) RCP †	3.00	EA	@	\$ 390	=	\$ 1,170.00
Permanent Water Quality Facility (Describe)	3.00	EA	@	\$ 5,000	=	\$ 15,000.00
~150 SY footprint, ~ 4' depth						
Gravel Pond Maintenance Access Road	1,500.00	SY	@	\$ 45	=	\$ 67,500.00
Channel Lining, Rip Rap	445.00	CY	@	\$ 98	=	\$ 43,610.00
Channel Lining, Grass	5.00	AC	@	\$ 1,287	=	\$ 6,435.00
- Water System Improvements						
Water Main Pipe (PVC), Size 8"	7,000.00	LF	@	\$ 94	=	\$ 658,000.00
Water Main Pipe (Ductile Iron), Size 8"		LF	@	\$ 137	=	\$
Gate Valves, 8"	63.00	EA	@	\$ 1,852	=	\$ 116,676.00
Water Main Pipe (PVC), Size 16"	3,200.00	LF	@	\$ 130	=	\$ 416,000.00
Gate Valves, 16"	11.00	EA	@	\$ 4,200	=	\$ 46,200.00
Fire Hydrant Assembly w/ all valves	13.00	EA	@	\$ 6,430	=	\$ 83,590.00
Water Service Line Installation, inc. tap & valves	55.00	EA	@	\$ 1,253	=	\$ 68,915.00
Water Treatment Plant	1.00	LS	@	\$ 3,800,000	=	\$ 3,800,000.00

- 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					=	\$ 5,354,138.00

Financial Assurance Totals						
As-built drawings - (FILL IN IF THERE ARE ANY PUBLICLY-MAINTAINED IMPROVEMENTS)						\$ 10,000.00
(Inc. survey to verify detention pond volumes.)						
Construction Financial Assurance Total					=	\$ 7,326,306.40
(Sum of all Section Totals)						
Public Improvements Total* **						\$ 1,855,798.40
Defect Warranty Financial Assurance Total					=	\$ 371,159.68
(20%of Section 2 Subtotal and 20% of identified Grading and Erosion BMP items)						

<p>Approvals</p> <p>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.</p>	
<p>Engineer</p> <p style="text-align: center;">(P.E. Seal)</p>	<p>Date</p>
<p>Approved by Owner / Applicant</p>	<p>Date</p>
<p>Approved by El Paso County Engineer / ECM Administrator</p>	<p>Date</p>