

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	=	Total
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) (Inc. survey to verify detention pond volumes.)	\$ 10,000.00
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)	

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