

2023 Financial Assurance Estimate Form (with pre-plat construction)

PROJECT INFORMATION		
Saddlehorn Filing 4	5/9/2023	SF-23-XXX
Project Name	Date	PCD File No.

Description	Quantity	Units	Unit Cost	Total	(with Pre-Plat Construction)	
					% Complete	Remaining
SECTION 1 - GRADING AND EROSION CONTROL (Construction and Permanent BMPs)						
Earthwork						
less than 1,000; \$5,300 min		CY	\$ 8.00	= \$ -		\$ -
1,000-5,000; \$8,000 min		CY	\$ 6.00	= \$ -		\$ -
5,001-20,000; \$30,000 min		CY	\$ 5.00	= \$ -		\$ -
20,001-50,000; \$100,000 min		CY	\$ 3.50	= \$ -		\$ -
50,001-200,000; \$175,000 min	51,880	CY	\$ 2.50	= \$ 175,000.00		\$ 175,000.00
greater than 200,000; \$500,000 min		CY	\$ 2.00	= \$ -		\$ -
Permanent Erosion Control Blanket		SY	\$ 8.00	= \$ -		\$ -
Permanent Seeding (inc. noxious weed mgmnt.) & Mulching	38.04	AC	\$ 1,875.00	= \$ 71,325.00		\$ 71,325.00
Permanent Pond/BMP (provide engineer's estimate)	See Below	EA		= \$ -		\$ -
Concrete Washout Basin	1	EA	\$ 1,089.00	= \$ 1,089.00		\$ 1,089.00
Concrete/Riprap Forebay	2	EA	\$ 3,000.00	= \$ 6,000.00		\$ 6,000.00
Inlet Protection Add rock socks to FAE.	10	EA	\$ 202.00	= \$ 2,020.00		\$ 2,020.00
Outlet Protection	11	EA	\$ 202.00	= \$ 2,222.00		\$ 2,222.00
Rock Check Dam	49	EA	\$ 605.00	= \$ 29,645.00		\$ 29,645.00
Safety Fence (Construction Marker)	14,001	LF	\$ 3.00	= \$ 42,002.90		\$ 42,002.90
Sediment Basin GEC legend shows ECB and RRB - if these BMPs are to be used include in FAE	2	EA	\$ 2,132.00	= \$ 4,264.00		\$ 4,264.00
Sediment Trap		EA	\$ 500.00	= \$ -		\$ -
Silt Fence	9,778	LF	\$ 3.00	= \$ 29,332.77		\$ 29,332.77
Slope Drain	96	LF	\$ 40.00	= \$ 3,834.80		\$ 3,834.80
Straw Bale		EA	\$ 31.00	= \$ -		\$ -
Straw Wattle/Erosion Logs		LF	\$ 7.00	= \$ -		\$ -
Surface Roughening		AC	\$ 250.00	= \$ -		\$ -
Temporary Erosion Control Blanket		SY	\$ 3.00	= \$ -		\$ -
Temporary Seeding and Mulching		AC	\$ 1,666.00	= \$ -		\$ -
Vehicle Tracking Control	3	EA	\$ 2,867.00	= \$ 8,601.00		\$ 8,601.00
[insert items not listed but part of construction plans]				= \$ -		\$ -
MAINTENANCE (35% of Construction BMPs)				= \$ 42,672.87		\$ 42,672.87
Section 1 Subtotal				= \$ 418,009.34		\$ 418,009.34

SECTION 2 - PUBLIC IMPROVEMENTS *

ROADWAY IMPROVEMENTS						
Construction Traffic Control	1	LS	\$ 50,000.00	= \$ 50,000.00		\$ 50,000.00
Aggregate Base Course (135 lbs/cf) 10" Thick	18,027	Tons	\$ 34.00	= \$ 612,918.00		\$ 612,918.00
Aggregate Base Course (135 lbs/cf)		CY	\$ 61.00	= \$ -		\$ -
Asphalt Pavement (3" thick)		SY	\$ 17.00	= \$ -		\$ -
Asphalt Pavement (4" thick)		SY	\$ 23.00	= \$ -		\$ -
Asphalt Pavement (6" thick)		SY	\$ 35.00	= \$ -		\$ -
Asphalt Pavement (147 lbs/cf) 7" thick	12,754	Tons	\$ 106.00	= \$ 1,351,924.00		\$ 1,351,924.00
Raised Median, Paved		SF	\$ 10.00	= \$ -		\$ -
Regulatory Sign/Advisory Sign	22	EA	\$ 364.00	= \$ 8,008.00		\$ 8,008.00
Guide/Street Name Sign	26	EA	\$ 250.00	= \$ 6,500.00		\$ 6,500.00
Epoxy Pavement Marking	2,360	SF	\$ 16.00	= \$ 37,765.28		\$ 37,765.28
Thermoplastic Pavement Marking	116	SF	\$ 28.00	= \$ 3,248.00		\$ 3,248.00
Barricade - Type 3	4	EA	\$ 241.00	= \$ 964.00		\$ 964.00
Delineator - Type I		EA	\$ 29.00	= \$ -		\$ -
Curb and Gutter, Type A (6" Vertical)		LF	\$ 35.00	= \$ -		\$ -
Curb and Gutter, Type B (Median)		LF	\$ 35.00	= \$ -		\$ -
Curb and Gutter, Type C (Ramp)		LF	\$ 35.00	= \$ -		\$ -
4" Sidewalk (common areas only)		SY	\$ 58.00	= \$ -		\$ -
5" Sidewalk		SY	\$ 72.00	= \$ -		\$ -
6" Sidewalk		SY	\$ 87.00	= \$ -		\$ -
8" Sidewalk		SY	\$ 116.00	= \$ -		\$ -
Pedestrian Ramp		EA	\$ 1,390.00	= \$ -		\$ -
Cross Pan, local (8" thick, 6' wide to include return)		LF	\$ 73.00	= \$ -		\$ -
Cross Pan, collector (9" thick, 8' wide to include return)		LF	\$ 111.00	= \$ -		\$ -
Curb Opening with Drainage Chaise		EA	\$ 1,790.00	= \$ -		\$ -
Guardrail Type 3 (W-Beam)		LF	\$ 60.00	= \$ -		\$ -
Guardrail Type 7 (Concrete)		LF	\$ 87.00	= \$ -		\$ -
Guardrail End Anchorage		EA	\$ 2,538.00	= \$ -		\$ -
Guardrail Impact Attenuator		EA	\$ 4,556.00	= \$ -		\$ -
Sound Barrier Fence (CMU block, 6' high)		LF	\$ 95.00	= \$ -		\$ -
Sound Barrier Fence (panels, 6' high)		LF	\$ 97.00	= \$ -		\$ -
Electrical Conduit, Size =		LF	\$ 20.00	= \$ -		\$ -
Traffic Signal, (provide engineer's estimate)		EA		= \$ -		\$ -

Note: a detailed review will be provided with the next submittal.

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						% Complete	Remaining
[insert items not listed but part of construction plans]				=	\$ -		\$ -
[insert items not listed but part of construction plans]				=	\$ -		\$ -
STORM DRAIN IMPROVEMENTS							
Concrete Box Culvert (M Standard), Size (W x H)		LF		=	\$ -		\$ -
18" Reinforced Concrete Pipe	49	LF	\$ 76.00	=	\$ 3,724.00		\$ 3,724.00
24" Reinforced Concrete Pipe	99	LF	\$ 91.00	=	\$ 9,029.02		\$ 9,029.02
30" Reinforced Concrete Pipe	94	LF	\$ 114.00	=	\$ 10,750.20		\$ 10,750.20
36" Reinforced Concrete Pipe		LF	\$ 140.00	=	\$ -		\$ -
42" Reinforced Concrete Pipe		LF	\$ 187.00	=	\$ -		\$ -
48" Reinforced Concrete Pipe		LF	\$ 228.00	=	\$ -		\$ -
54" Reinforced Concrete Pipe		LF	\$ 297.00	=	\$ -		\$ -
60" Reinforced Concrete Pipe		LF	\$ 348.00	=	\$ -		\$ -
66" Reinforced Concrete Pipe		LF	\$ 402.00	=	\$ -		\$ -
72" Reinforced Concrete Pipe		LF	\$ 460.00	=	\$ -		\$ -
18" Corrugated Steel Pipe		LF	\$ 98.00	=	\$ -		\$ -
24" Corrugated Steel Pipe		LF	\$ 112.00	=	\$ -		\$ -
30" Corrugated Steel Pipe		LF	\$ 143.00	=	\$ -		\$ -
36" Corrugated Steel Pipe	32	LF	\$ 171.00	=	\$ 5,494.23		\$ 5,494.23
42" Corrugated Steel Pipe		LF	\$ 197.00	=	\$ -		\$ -
48" Corrugated Steel Pipe		LF	\$ 207.00	=	\$ -		\$ -
54" Corrugated Steel Pipe		LF	\$ 304.00	=	\$ -		\$ -
60" Corrugated Steel Pipe		LF	\$ 328.00	=	\$ -		\$ -
66" Corrugated Steel Pipe	36	LF	\$ 397.00	=	\$ 14,403.16		\$ 14,403.16
72" Corrugated Steel Pipe		LF	\$ 467.00	=	\$ -		\$ -
78" Corrugated Steel Pipe		LF	\$ 537.00	=	\$ -		\$ -
84" Corrugated Steel Pipe		LF	\$ 642.00	=	\$ -		\$ -
Flared End Section (FES) RCP Size = 18" RCP <small>(unit cost = 6x pipe unit cost)</small>	2	EA	\$ 402.00	=	\$ 804.00		\$ 804.00
Flared End Section (FES) CSP Size = 24" RCP <small>(unit cost = 6x pipe unit cost)</small>	4	EA	\$ 486.00	=	\$ 1,944.00		\$ 1,944.00
Flared End Section (FES) CSP Size = 30" RCP <small>(unit cost = 6x pipe unit cost)</small>	4	EA	\$ 600.00	=	\$ 2,400.00		\$ 2,400.00
End Treatment- Headwall & Wingwall		EA	\$ 10,000.00	=	\$ -		\$ -
End Treatment - Cutoff Wall		CY		=	\$ -		\$ -
Curb Inlet (Type R) L=5', Depth < 5'		EA	\$ 6,703.00	=	\$ -		\$ -
Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'		EA	\$ 8,715.00	=	\$ -		\$ -
Curb Inlet (Type R) L=5', 10' ≤ Depth < 15'		EA	\$ 10,092.00	=	\$ -		\$ -
Curb Inlet (Type R) L=10', Depth < 5'		EA	\$ 9,224.00	=	\$ -		\$ -
Curb Inlet (Type R) L=10', 5' ≤ Depth < 10'		EA	\$ 9,507.00	=	\$ -		\$ -
Curb Inlet (Type R) L=10', 10' ≤ Depth < 15'		EA	\$ 11,901.00	=	\$ -		\$ -
Curb Inlet (Type R) L=15', Depth < 5'		EA	\$ 11,995.00	=	\$ -		\$ -
Curb Inlet (Type R) L=15', 5' ≤ Depth < 10'		EA	\$ 12,858.00	=	\$ -		\$ -
Curb Inlet (Type R) L=15', 10' ≤ Depth < 15'		EA	\$ 14,061.00	=	\$ -		\$ -
Curb Inlet (Type R) L=20', Depth < 5'		EA	\$ 12,783.00	=	\$ -		\$ -
Curb Inlet (Type R) L=20', 5' ≤ Depth < 10'		EA	\$ 14,109.00	=	\$ -		\$ -
Grated Inlet (Type C), Depth < 5'		EA	\$ 5,611.00	=	\$ -		\$ -
Grated Inlet (Type D), Depth < 5'		EA	\$ 6,931.00	=	\$ -		\$ -
Storm Sewer Manhole, Box Base		EA	\$ 14,061.00	=	\$ -		\$ -
Storm Sewer Manhole, Slab Base		EA	\$ 7,734.00	=	\$ -		\$ -
Geotextile (Erosion Control)		SY	\$ 8.00	=	\$ -		\$ -
Rip Rap, d50 size from 6" to 24"	156	Tons	\$ 97.00	=	\$ 15,092.23		\$ 15,092.23
Rip Rap, Grouted		Tons	\$ 115.00	=	\$ -		\$ -
Drainage Channel Construction, Size (W x H)		LF	\$ -	=	\$ -		\$ -
Drainage Channel Lining, Concrete		CY	\$ 689.00	=	\$ -		\$ -
Drainage Channel Lining, Rip Rap		CY	\$ 135.00	=	\$ -		\$ -
Drainage Channel Lining, Grass		AC	\$ 1,776.00	=	\$ -		\$ -
Drainage Channel Lining, Other Stabilization				=	\$ -		\$ -
[insert items not listed but part of construction plans]				=	\$ -		\$ -
[insert items not listed but part of construction plans]				=	\$ -		\$ -
Section 2 Subtotal					=	\$ 2,134,968.12	\$ 2,134,968.12

* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)

include

Ensure that this includes the culvert extensions

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Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)		
						% Complete	Remaining	
SECTION 3 - COMMON DEVELOPMENT IMPROVEMENTS (Private or District and NOT Maintained by EPC)**								
ROADWAY IMPROVEMENTS								
				=	\$ -		\$ -	
				=	\$ -		\$ -	
				=	\$ -		\$ -	
				=	\$ -		\$ -	
				=	\$ -		\$ -	
				=	\$ -		\$ -	
STORM DRAIN IMPROVEMENTS (Exception: Permanent Pond/BMP shall be itemized under Section 1)								
				=	\$ -		\$ -	
				=	\$ -		\$ -	
				=	\$ -		\$ -	
				=	\$ -		\$ -	
				=	\$ -		\$ -	
WATER SYSTEM IMPROVEMENTS								
Water Main Pipe (PVC), Size 8"	5,258	LF	\$ 78.00	=	\$ 410,124.00		\$ 410,124.00	
Water Main Pipe (PVC), Size 12"	3,567	LF	\$ 117.00	=	\$ 417,368.25		\$ 417,368.25	
Water Main Pipe (Ductile Iron), Size 8"	181	LF	\$ 91.00	=	\$ 16,425.50		\$ 16,425.50	
Gate Valves, 8"	13	EA	\$ 2,247.00	=	\$ 29,211.00		\$ 29,211.00	
Gate Valves, 12"	16	EA	\$ 4,910.00	=	\$ 78,560.00		\$ 78,560.00	
Fire Hydrant Assembly, w/ all valves	19	EA	\$ 7,978.00	=	\$ 151,582.00		\$ 151,582.00	
Water Service Line Installation, inc. tap and valves	42	EA	\$ 1,601.00	=	\$ 67,242.00		\$ 67,242.00	
Fire Cistern Installation, complete		EA		=	\$ -		\$ -	
				=	\$ -		\$ -	
<i>[insert items not listed but part of construction plans]</i>								
				=	\$ -		\$ -	
SANITARY SEWER IMPROVEMENTS								
Sewer Main Pipe (PVC), Size 8"		LF	\$ 78.00	=	\$ -		\$ -	
Sanitary Sewer Manhole, Depth < 15 feet		EA	\$ 5,305.00	=	\$ -		\$ -	
Sanitary Service Line Installation, complete		EA	\$ 1,696.00	=	\$ -		\$ -	
Sanitary Sewer Lift Station, complete		EA		=	\$ -		\$ -	
				=	\$ -		\$ -	
<i>[insert items not listed but part of construction plans]</i>								
				=	\$ -		\$ -	
LANDSCAPING IMPROVEMENTS (For subdivision specific condition of approval, or PUD)								
		EA		=	\$ -		\$ -	
		EA		=	\$ -		\$ -	
		EA		=	\$ -		\$ -	
		EA		=	\$ -		\$ -	
		EA		=	\$ -		\$ -	
Section 3 Subtotal					=	\$ 1,170,512.75		\$ 1,170,512.75

** - Section 3 is not subject to defect warranty requirements

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Project Name	Date	PCD File No.

Description	Quantity	Units	Unit Cost	Total	(with Pre-Plat Construction)	
					% Complete	Remaining
AS-BUILT PLANS (Public Improvements inc. Permanent WQCV BMPs)		LS	\$ 10,000.00	\$ 10,000.00		\$ 10,000.00
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS	\$ 10,000.00	\$ 10,000.00		\$ 10,000.00
Total Construction Financial Assurance						\$ 3,743,490.21
(Sum of all section subtotals plus as-builts and pond/BMP certification)						
Total Remaining Construction Financial Assurance (with Pre-Plat Construction)						\$ 3,743,490.21
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)						
Total Defect Warranty Financial Assurance						\$ 476,258.62
(20% of all items identified as (*). 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 Grading and Erosion Control Plan and Construction Drawings associated with the Project.

Stamps and signatures
with dates needed

 Engineer (P.E. Seal Required)

 Approved by Owner / Applicant

 Approved by El Paso County Engineer / ECM Administrator

Date

Date