

Unresolved from Submittal 1: Update and show cost - I don't see a cost for the permanent pond below.

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

Updated: 12/8/2022

PROJECT INFORMATION		
Saddlehorn Filing 3	5/9/2023	SF-23-004
Project Name	Date	PCD File No.

Description	Quantity	Units	Unit Cost	Total	(with Pre-Plat Construction) % Complete	Remaining
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SECTION 1 - GRADING AND EROSION CONTROL (Construction and Permanent BMPs)

outlet structures are significantly more than \$5k each. Please provide a detailed engineering cost estimate for each pond in drainage report and update costs on FAE

1,000; \$5,300 min		CY	\$ 8.00	=	\$ -	\$ -
000; \$8,000 min		CY	\$ 6.00	=	\$ -	\$ -
0,000; \$30,000 min		CY	\$ 5.00	=	\$ -	\$ -
0,000; \$100,000 min		CY	\$ 3.50	=	\$ -	\$ -
000,000; \$175,000 min	139,190	CY	\$ 2.50	=	\$ 347,975.00	\$ 347,975.00
han 200,000; \$500,000 min		CY	\$ 2.00	=	\$ -	\$ -
on Control Blanket	11,656	SY	\$ 8.00	=	\$ 93,248.00	\$ 93,248.00
ing (inc. noxious weed mgmnt.) & Mulching	25.59	AC	\$ 1,875.00	=	\$ 47,981.25	\$ 47,981.25
/BMP (provide engineer's estimate)	See Below	EA		=	\$ -	\$ -
Structure	3	EA	\$ 5,000.00	=	\$ 15,000.00	\$ 15,000.00
ency Spillway	3	EA	\$ 4,000.00	=	\$ 12,000.00	\$ 12,000.00
Concrete/Kiraprap Forebay	3	EA	\$ 3,000.00	=	\$ 9,000.00	\$ 9,000.00
Concrete Trickle Channel	155	CY	\$ 95.00	=	\$ 14,717.40	\$ 14,717.40
Drianageway riprap, d50 size from 6" to 24"	3,000	Tons	\$ 83.00	=	\$ 249,000.00	\$ 249,000.00
Concrete Washout Basin	1	EA	\$ 1,089.00	=	\$ 1,089.00	\$ 1,089.00
Inlet Protection	19	EA	\$ 202.00	=	\$ 3,838.00	\$ 3,838.00
Outlet Protection	19	EA	\$ 202.00	=	\$ 3,838.00	\$ 3,838.00
Rock Check Dam	107	EA	\$ 605.00	=	\$ 64,735.00	\$ 64,735.00
Safety Fence (Construction Marker)	11,061	LF	\$ 3.00	=	\$ 33,182.34	\$ 33,182.34
Sediment Basin	3	EA	\$ 2,132.00	=	\$ 6,396.00	\$ 6,396.00
Sediment Trap		EA	\$ 500.00	=	\$ -	\$ -
Silt Fence	22,874	LF	\$ 3.00	=	\$ 68,622.00	\$ 68,622.00
Slope Drain	157	LF	\$ 40.00	=	\$ 6,282.24	\$ 6,282.24
Straw Bale		EA	\$ 31.00	=	\$ -	\$ -
Straw Wattle/Rock Sock	112	LF	\$ 7.00	=	\$ 784.00	\$ 784.00
Surface Roughening		AC	\$ 250.00	=	\$ -	\$ -
Temporary Erosion Control Blanket		SY	\$ 3.00	=	\$ -	\$ -
Temporary Seeding and Mulching		AC	\$ 1,666.00	=	\$ -	\$ -
Vehicle Tracking Control	4	EA	\$ 2,867.00	=	\$ 11,468.00	\$ 11,468.00
*Gravel Maintenance Access Road	3,486	SY	\$ 50.00	=	\$ 174,300.00	\$ 174,300.00
<i>[insert items not listed but part of construction plans]</i>				=	\$ -	\$ -
MAINTENANCE (35% of Construction BMPs)				=	\$ 130,705.95	\$ 130,705.95
Section 1 Subtotal				=	\$ 1,294,162.18	\$ 1,294,162.18

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

SECTION 2 - PUBLIC IMPROVEMENTS *

ROADWAY IMPROVEMENTS						
Construction Traffic Control	1	LS	\$ 50,000.00	=	\$ 50,000.00	\$ 50,000.00
Removal of Asphalt (Full Depth)	515	SY	\$ 10.00	=	\$ 5,150.00	\$ 5,150.00
Removal of Asphalt (Planing-2")	2,524	SY	\$ 5.00	=	\$ 12,620.00	\$ 12,620.00
Removal of Striping	7,097	LF	\$ 1.00	=	\$ 7,096.74	\$ 7,096.74
Removal of Fencing	3,020	LF	\$ 5.00	=	\$ 15,100.00	\$ 15,100.00
Aggregate Base Course (133 lbs/cf) 10" Thick	27,738	Tons	\$ 34.00	=	\$ 943,078.40	\$ 943,078.40
Aggregate Base Course (135 lbs/cf)		CY	\$ 61.00	=	\$ -	\$ -
Asphalt Pavement (115 lb/cy-in) 7" thick	16,557	Tons	\$ 106.00	=	\$ 1,755,022.92	\$ 1,755,022.92
Raised Median, Paved		SF	\$ 10.00	=	\$ -	\$ -
Regulatory Sign/Advisory Sign	32	EA	\$ 364.00	=	\$ 11,648.00	\$ 11,648.00
Guide/Street Name Sign	26	EA	\$ 250.00	=	\$ 6,500.00	\$ 6,500.00
Epoxy Pavement Marking	8,228	SF	\$ 16.00	=	\$ 131,650.91	\$ 131,650.91
Thermoplastic Pavement Marking	209	SF	\$ 28.00	=	\$ 5,852.00	\$ 5,852.00
Barricade - Type 3	6	EA	\$ 241.00	=	\$ 1,446.00	\$ 1,446.00
Delineator - Type I		EA	\$ 29.00	=	\$ -	\$ -
Curb and Gutter, Type A (6" Vertical)		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 Chase		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		=	\$ -	\$ -

PROJECT INFORMATION

Saddlehorn Filing 3	5/9/2023	SF-23-004
Project Name	Date	PCD File No.

Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)		
						% Complete	Remaining	
				=	\$ -		\$ -	
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -	
STORM DRAIN IMPROVEMENTS								
Concrete Box Culvert (M Standard), Size (W x H)		LF		=	\$ -		\$ -	
18" Reinforced Concrete Pipe	328	LF	\$ 76.00	=	\$ 24,899.42		\$ 24,899.42	
24" Reinforced Concrete Pipe	127	LF	\$ 91.00	=	\$ 11,536.25		\$ 11,536.25	
30" Reinforced Concrete Pipe	81	LF	\$ 114.00	=	\$ 9,234.00		\$ 9,234.00	
36" Reinforced Concrete Pipe	30	LF	\$ 140.00	=	\$ 4,191.60		\$ 4,191.60	
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	=	\$ -		\$ -	
14" x 23" HERCP	24	LF	\$ 155.16	=	\$ 3,655.57		\$ 3,655.57	
19" x 30" HERCP	186	LF	\$ 185.60	=	\$ 34,532.74		\$ 34,532.74	
24" x 38" HERCP	44	LF	\$ 222.02	=	\$ 9,726.70		\$ 9,726.70	
12' x 4' RCBC	156	LF	\$ 1,100.00	=	\$ 171,600.00		\$ 171,600.00	
18" Corrugated Steel Pipe		LF	\$ 98.00	=	\$ -		\$ -	
24" Corrugated Steel Pipe	7	LF	\$ 112.00	=	\$ 784.00		\$ 784.00	
30" Corrugated Steel Pipe		LF	\$ 143.00	=	\$ -		\$ -	
36" Corrugated Steel Pipe		LF	\$ 171.00	=	\$ -		\$ -	
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		LF	\$ 397.00	=	\$ -		\$ -	
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 <i>(unit cost = 6x pipe unit cost)</i>	13	EA	\$ 402.00	=	\$ 5,226.00		\$ 5,226.00	
Flared End Section (FES) CSP Size = 24" RCP <i>(unit cost = 6x pipe unit cost)</i>	6	EA	\$ 486.00	=	\$ 2,916.00		\$ 2,916.00	
Flared End Section (FES) CSP Size = 30" RCP <i>(unit cost = 6x pipe unit cost)</i>	3	EA	\$ 600.00	=	\$ 1,800.00		\$ 1,800.00	
Flared End Section (FES) CSP Size = 36" RCP <i>(unit cost = 6x pipe unit cost)</i>	1	EA	\$ 840.00	=	\$ 840.00		\$ 840.00	
Flared End Section (FES) CSP Size = 14" X 23" HERCP <i>(unit cost = 6x pipe unit cost)</i>	2	EA	\$ 930.96	=	\$ 1,861.92		\$ 1,861.92	
Flared End Section (FES) CSP Size = 19" X 30" HERCP <i>(unit cost = 6x pipe unit cost)</i>	4	EA	\$ 1,113.60	=	\$ 4,454.40		\$ 4,454.40	
Flared End Section (FES) CSP Size = 24" X 38" HERCP <i>(unit cost = 6x pipe unit cost)</i>	2	EA	\$ 1,332.12	=	\$ 2,664.24		\$ 2,664.24	
End Treatment- Headwall & Wingwall	2	EA	\$ 10,000.00	=	\$ 20,000.00		\$ 20,000.00	
End Treatment - Cutoff Wall	12	CY	\$ 560.00	=	\$ 6,535.20		\$ 6,535.20	
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"	558	Tons	\$ 97.00	=	\$ 54,087.20		\$ 54,087.20	
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 Stat				=	\$ -		\$ -	
				=	\$ -		\$ -	
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -	
Section 2 Subtotal					=	\$ 3,315,710.21		\$ 3,315,710.21

How did riprap quantity drop by half from first submittal?

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

PROJECT INFORMATION

Saddlehorn Filing 3	5/9/2023	SF-23-004
Project Name	Date	PCD File No.

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"	10,232	LF	\$ 78.00	=	\$ 798,087.42		\$ 798,087.42	
Water Main Pipe (Ductile Iron), Size 6"	350	LF	\$ 94.59	=	\$ 33,068.66		\$ 33,068.66	
Gate Valves, 8"	35	EA	\$ 2,247.00	=	\$ 78,645.00		\$ 78,645.00	
Fire Hydrant Assembly, w/ all valves	24	EA	\$ 7,978.00	=	\$ 191,472.00		\$ 191,472.00	
Water Service Line Installation, inc. tap and valves	40	EA	\$ 1,601.00	=	\$ 64,040.00		\$ 64,040.00	
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		=	\$ -		\$ -	
		EA		=	\$ -		\$ -	
Section 3 Subtotal					=	\$ 1,165,313.08		\$ 1,165,313.08

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

PROJECT INFORMATION

Saddlehorn Filing 3	5/9/2023	SF-23-004
Project Name	Date	PCD File No.

Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)	
						% Complete	Remaining
LETTERS OF MAP REVISION		LS	\$ 8,000.00	=	\$ 8,000.00	\$	8,000.00
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						\$	5,803,185.47
(Sum of all section subtotals plus as-builts and pond/BMP certification)							
Total Remaining Construction Financial Assurance (with Pre-Plat Construction)						\$	5,795,185.47
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)							
Total Defect Warranty Financial Assurance						\$	760,982.89
(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.

 Engineer (P.E. Seal Required)

 Approved by Owner / Applicant

 Date

 Approved by El Paso County Engineer / ECM Administrator

 Date