EPC STORMWATER REVIEW COMMENTS IN ORANGE BOXES WITH BLACK TEXT

Please revert back to the 2022 FAE Form

## 2021 Financial Assurance Estimate Form

(with pre-plat construction)

Updated: 9/28/2022

PROJECT INFORMATION										
Saddlehorn Ranch Filing 2 Improvements	10/14/2022	SF-21-033								
Project Name	Date	PCD File No.								
	Unit	(with Pre-Plat Construction)								

				Unit				(with Pre-	Plat	Construction)
Description	Quantity	Units		Cost			Total	% Complete		Remaining
SECTION 1 - GRADING AND EROSION CONT	ROL (Construction	n and Pern	naner	nt 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	50,633	CY	\$	2.50	=	\$	175,000.00		\$	175,000.00
greater than 200,000; \$500,000 min		CY	\$	2.00	=	\$	-		\$	-
* Permanent Seeding (inc. noxious weed mgmnt.)	6.36	AC	\$	828.00	=	\$	5,266.08		\$	5,266.08
* Mulching	6.36	AC	\$	777.00	=	\$	4,941.72		\$	4,941.72
* Permanent Erosion Control Blanket	0	SY	\$	6.00	=	\$	-		\$	-
* Permanent Pond/BMP Construction	See Below	CY	\$	-	=				\$	-
* Permanent Pond/BMP (provide engineer's estimate)		EA			=	\$	-		\$	-
*30" RCP	44	LF	\$	100.00	=	\$	4,400.00		\$	4,400.00
*Detention Outlet Structure	1	EA	_	5,000.00	=	\$	5,000.00		\$	5,000.00
*Concrete/Riprap Forebay	1	EA	_	3,000.00	=	\$	3,000.00		\$	3,000.00
*Concrete Trickle Channel	330	CY	\$	95.00	=	\$	31,350.00		\$	31,350.00
*Detention Emergency Spillway	1	EA	_	4,000.00		\$	4,000.00		\$	4,000.00
*Drainageway riprap, d50 size from 6" to 24"	694	Tons	\$	83.00		\$	57,602.00		\$	57,602.00
*30" - Flared End Section (FES)	1	EA	\$	600.00	=	\$	600.00		\$	600.00
*Permanent WQ Feature (EDB)	1	EA	_	5,000.00		\$	5,000.00		\$	5,000.00
*Gravel Maintenance Access Road	6,701	SY	\$	45.00		\$	301,545.00		\$	301,545.00
Construction Markers	8,102	LF	\$	3.00		\$	24.306.00		\$	24.306.00
Temporary Erosion Control Blanket	3,642	SY	\$	3.00	=	\$	10.926.00		\$	10,926.00
Vehicle Tracking Control	3,642	EA	\$	2,453.00	=	\$	4,906.00		\$	4,906.00
Silt Fence	11,010	LF	\$	2.60	=	\$	28,626.00		\$	28,626.00
Temporary Seeding	13	AC	\$	650.00		\$	8,450.00		\$	8,450.00
Temporary Mulch	13	AC	\$	777.00		\$	10.101.00		\$	10,101.00
Erosion Bales	0	EA	\$	26.00		\$	10,101.00		\$	10,101.00
Erosion Logs/Straw Waddle	0	LF	\$	5.00		\$			\$	
Rock Check Dams	36	EA	\$	518.00		\$	18.648.00		\$	18,648.00
Inlet Protection	18	EA	\$	173.00		\$	3.114.00		\$	3,114.00
Sediment Basin	1	EA	\$	1,824.00	=	\$	1,824.00		\$	1,824.00
Concrete Washout Basin	1	EA	\$	932.00	=	\$	932.00		\$	932.00
Safety Fence	50	LF	\$	5.00	=	\$	250.00		\$	250.00
[insert items not listed but part of construction plans]	30		+			\$	-		\$	-
· · · · · · · · · · · · · · · · · · ·						<u> </u>				
	AINTENANCE (35%	of Constr	ructio	n BMPs)	=	\$	30,721.95		\$	30,721.95
<ul> <li>Subject to defect warranty financial assurance. A minimum of 20% shallowershale on the subject to defect warranty financial assurance.</li> <li>ALLOWED</li> </ul>		Section	on 1 :	Subtotal	=	\$	740,509.75		\$	740,509.75
SECTION 2 - PUBLIC IMPROVEMENTS *										
ROADWAY IMPROVEMENTS										

Mobilization/Construction Traffic Control	1	LS	\$ 50,000.00	=	\$ 50,000.00	\$	50,000.00
Removal of Asphalt (Full Depth)	210	SY	\$ 10.00		\$ 2,100.00	\$	2,100.00
Removal of Asphalt (Planing-4")	837	SY	\$ 5.00		\$ 4,185.00	\$	4,185.00
Removal of Striping	7,534	LF	\$ 1.00		\$ 7,534.00	\$	7,534.00
Removal of Fencing	1,096	LF	\$ 5.00		\$ 5,480.00	\$	5,480.00
Aggregate Base Course (135 lbs/cf)	5,080	Tons	\$ 29.00	=	\$ 147,320.00	\$	147,320.00
Aggregate Base Course (135 lbs/cf)		CY	\$ 52.00		\$ -	\$	-
Asphalt Pavement (3" thick)		SY	\$ 14.50		\$ -	\$	-
Asphalt Pavement (4" thick)		SY	\$ 20.00		\$ -	\$	-
Asphalt Pavement (6" thick)		SY	\$ 30.00		\$ -	\$	-
Asphalt Pavement (147 lbs/cf)" thick	20,805	Tons	\$ 91.00	=	\$ 1,893,255.00	\$	1,893,255.00
Raised Median, Paved		SF	\$ 8.30	=	\$ -	\$	-
Regulatory Sign/Advisory Sign	7	EA	\$ 311.00	=	\$ 2,177.00	\$	2,177.00
Guide/Street Name Sign	13	EA	\$ 250.00	=	\$ 3,250.00	\$	3,250.00
Epoxy Pavement Marking	4,122	SF	\$ 14.00	=	\$ 57,708.00	\$	57,708.00
Thermoplastic Pavement Marking	87	SF	\$ 24.00	=	\$ 2,097.60	\$	2,097.60
Barricade - Type 3	8	EA	\$ 207.00	=	\$ 1,656.00	\$	1,656.00
Delineator - Type I		EA	\$ 25.00	=	\$ -	\$	-

PROJECT INFORMATION									
Saddlehorn Ranch Filing 2 Improvements	10/14/2022	SF-21-033							
Project Name	Date	PCD File No.							

			Unit				(with Pre	-Plat	Construction)
Description	Quantity	Units	Cost			Total	% Complete		Remaining
Curb and Gutter, Type A (6" Vertical)		LF	\$ 31.00	=	\$	-		\$	-
Curb and Gutter, Type B (Median)		LF	\$ 31.00	=	\$	-		\$	-
Curb and Gutter, Type C (Ramp)		LF	\$ 31.00	=	\$	-		\$	-
4" Sidewalk (common areas only)		SY	\$ 50.00	=	\$	-		\$	-
5" Sidewalk		SY	\$ 62.00	=	\$	-		\$	-
6" Sidewalk		SY	\$ 75.00	=	\$	-		\$	-
8" Sidewalk		SY	\$ 99.00		\$	-		\$	-
Pedestrian Ramp		EA	\$ 1,190.00	=	\$	-		\$	-
Cross Pan, local (8" thick, 6' wide to include return)		LF	\$ 63.00	=	\$	-		\$	-
Cross Pan, collector (9" thick, 8' wide to include return)		LF	\$ 95.00		\$	-		\$	-
Curb Chase		EA	\$ 1,532.00	=	\$	-		\$	-
Guardrail Type 3 (W-Beam)		LF	\$ 51.00	=	\$	-		\$	-
Guardrail Type 7 (Concrete)		LF	\$ 75.00	=	\$	-		\$	-
Guardrail Impact Attenuator		EA	\$ 3,899.00	=	\$	-		\$	-
Sound Barrier Fence (CMU block, 6' high)		LF 	\$ 81.00		\$	-		\$	-
Sound Barrier Fence (panels, 6' high)		LF	\$ 83.00	=	\$	-		\$	-
Electrical Conduit, Size =		LF	\$ 17.00	=	\$	-		\$	-
Traffic Signal, complete intersection		EA	\$ 439,875	=	\$	-		\$	-
Traffic Signal, complete intersection		EA	\$ 439,875	=	\$	-		\$	-
[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	223	LF	\$ 67.00	=	\$			\$	14 041 00
24" Reinforced Concrete Pipe	123	LF	\$ 67.00 \$ 81.00	=	\$	14,941.00		\$	14,941.00
19" x 30" Horizontal Elliptical Reinforced Concrete Pipe	68	LF	\$ 100.00	=	\$	9,963.00		\$	9,963.00
54" Corrugated Steel Pipe	80	LF	\$ 269.00	=	\$	6,800.00		\$	6,800.00
30" Corrugated Steel Pipe	16	LF	\$ 209.00	=	\$	1 400 00		\$	1 400 00
60" Corrugated Steel Pipe	10	LF	\$ 290.00	=	\$	1,600.00		\$	1,600.00
66" Corrugated Steel Pipe		LF	\$ 250.00	=	\$			\$	<u> </u>
72" Corrugated Steel Pipe		LF	\$ 414.00	=	\$			\$	
18" - Flared End Section (FES)	6	EA	\$ 402.00	_	\$	2,412.00		\$	2,412.00
18" - Flared End Section (FES)	8	EA	\$ 402.00		\$	3,216.00		\$	3,216.00
24" - Flared End Section (FES)	4	EA	\$ 486.00		\$	1,944.00		\$	1,944.00
19" x 30" - Flared End Section (FES)	2	EA	\$ 600.00		\$	1,200.00		\$	1,200.00
30" - Flared End Section (FES)	2	EA	\$ 600.00		\$	1,200.00		\$	1,200.00
Flared End Section (FES) CSP Size = 30"		-/-	1						
(unit cost = 6x pipe unit cost)	1	EA	\$ 600.00	=	\$	600.00		\$	600.00
End Treatment- Headwall		EA		=	\$	-		\$	-
End Treatment- Wingwall		EA		=	\$	-		\$	-
End Treatment - Cutoff Wall		EA		=	\$	-		\$	-
Curb Inlet (Type R) L=5', Depth < 5'		EA	\$ 5,736.00	=	\$	-		\$	-
Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'		EA	\$ 7,440.00	=	\$	-		\$	-
Curb Inlet (Type R) L =5', 10' ≤ Depth < 15'		EA	\$ 8,637.00	=	\$	-		\$	-
Curb Inlet (Type R) L =10', Depth < 5'		EA	\$ 7,894.00	=	\$	-		\$	-
Curb Inlet (Type R) L =10', 5' ≤ Depth < 10'		EA	\$ 8,136.00	=	\$	-		\$	-
Curb Inlet (Type R) L =10', 10' ≤ Depth < 15'		EA	\$ 10,185.00	=	\$	-		\$	-
Curb Inlet (Type R) L =15', Depth < 5'		EA	\$ 10,265.00	=	\$	-		\$	-
Curb Inlet (Type R) L =15', 5' ≤ Depth < 10'		EA	\$ 11,005.00	=	\$	-		\$	-
Curb Inlet (Type R) L =15', 10' ≤ Depth < 15'		EA	\$ 12,034.00	=	\$	-		\$	-
Curb Inlet (Type R) L =20', Depth < 5'		EA	\$ 10,940.00	=	\$	-		\$	-
Curb Inlet (Type R) L =20', 5' ≤ Depth < 10'		EA	\$ 12,075.00	=	\$	-		\$	-
Grated Inlet (Type C), Depth < 5'		EA	\$ 4,802.00	=	\$	-		\$	-
Grated Inlet (Type D), Depth < 5'		EA	\$ 5,932.00	=	\$	-		\$	-
Storm Sewer Manhole, Box Base		EA	\$ 12,034.00	=	\$	-		\$	-
Storm Sewer Manhole, Slab Base		EA	\$ 6,619.00	=	\$	-		\$	-
				=	\$	_		\$	-
Geotextile (Erosion Control)		SY	\$ 6.20		ļ.				
Rip Rap, d50 size from 6" to 24"	476	Tons	\$ 83.00	=	\$	39,508.00		\$	39,508.00
Rip Rap, Grouted		Tons	\$ 98.00	=	\$	-		\$	-
Drainage Channel Lining, Concrete		CY	\$ 590.00	=	\$	-		\$	-
Drainage Channel Lining, Rip Rap		CY	\$ 116.00	=	\$	-		\$	-
Drainage Channel Lining, Grass		AC		=	\$	-		\$	-
Drainage Channel Lining, Other Stabilization				=	\$	-		\$	-
				=	\$	-		\$	-
								φ.	
[insert items not listed but part of construction plans]				=	\$	-		\$	-
[insert items not listed but part of construction plans] *- Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE		Cantle	on 2 Subtotal		\$	2,266,446.60		\$	2,266,446.60

Coddleberr Develop Filing Olymprovenses	P	ROJECT	_	ORMATIC	N_			CF	21 022
Saddlehorn Ranch Filing 2 Improvements Project Name	_		_	/14/2022 ate				PCD File No.	21-033
Froject Name			D	116				FCD THE NO.	
				Unit				(with Pre-PI	at Construction)
Description	Quantity	Units		Cost			Total	% Complete	Remaining
SECTION 3 - COMMON DEVELOPMENT IMPR	OVEMENTS (Pri	vate or [	Distr	ict and No	<mark>OT Main</mark>	tained	by EPC)**		
ROADWAY IMPROVEMENTS									
					=	\$		\$	
						\$		\$	
STORM DRAIN IMPROVEMENTS (Excep	tion: Permanent Pon	d/BMP shal	l be ite	emized unde				Ψ	
					=	\$	-	\$	-
					=	\$	-	\$	-
					=	\$	-	\$	-
WATER SYSTEM IMPROVEMENTS	/ 000	LF	•	66.00			440,000,00	<b>.</b>	440,000,00
Water Main Pipe (PVC), Size 8" Water Main Pipe (PVC), Size 12"	6,800 1,696	LF	\$	100.00	=	\$	448,800.00 169,600.00	\$ \$	448,800.00 169,600.00
Water Main Pipe (PVC), Size 6"	243	LF	\$	66.00		\$	16,038.00	\$	16,038.00
Water Main Pipe (Ductile Iron), Size 8"		LF	\$	78.00	=	\$	-	\$	-
						\$	-	\$	-
Gate Valves, 8"	22	EA	_	1,923.00	=	\$	42,306.00	\$	42,306.00
Gate Valves, 12"	6	EA	\$	2,900.00		\$	17,400.00	\$	17,400.00
Fire Hydrant Assembly, w/ all valves  Water Service Line Installation, inc. tap and valves	18 42	EA EA	\$ \$	6,828.00 1,370.00	=	\$	122,904.00 57,540.00	\$	122,904.00 57,540.00
Fire Cistern Installation, complete	42	EA	Ф	1,570.00	=	\$	57,540.00	\$	57,540.00
		_, \			=	\$	-	\$	-
[insert items not listed but part of construction plans]					=	\$	-	\$	-
SANITARY SEWER IMPROVEMENTS									
Sewer Main Pipe (PVC), Size 8"		LF	\$	66.00	=	\$	-	\$	-
Sanitary Sewer Manhole, Depth < 15 feet Sanitary Service Line Installation, complete		EA EA	\$	4,540.00 1,451.00	=	\$	-	\$	-
Sanitary Service Life Installation, complete  Sanitary Sewer Lift Station, complete		EA	Ф	1,451.00	=	\$		\$	
Carnary Cowor Ent Claudi, Complete						\$		\$	
[insert items not listed but part of construction plans]					=	\$	-	\$	-
LANDSCAPING IMPROVEMENTS	(For subdivision spe		on of a	approval, or I	PUD)				
		EA			=	\$	-	\$	-
		EA			=	\$	-	\$	-
		EA EA			=	\$	-	\$	-
		EA				\$		\$	-
** - Section 3 is not subject to defect warranty requirements		Secti	on 3	Subtotal	=	\$	874,588.00	\$	874,588.00
							,		
AS-BUILT PLANS (Public Improvements inc. Permanent		LS		10,000.00	=	\$	10,000.00	\$	10,000.00
POND/BMP CERTIFICATION (inc. elevations and volume	e calculations)	LS	\$	10,000.00	=	\$	10,000.00	\$	10,000.00
					Total	Const	ruction Financia	I Δeeurance Φ	2 001 544 25
			(9)	um of all sec			as-builts and pond/Bl		3,901,544.35
			(0)	uni oi an scc	lion subtot	ais pius i	as builts and pond/bi	vii certification)	
	Total Remaini	ng Cons	truct	ion Financ	cial Assu	ırance	(with Pre-Plat C	onstruction)	3,901,544.35
		_					as-builts and pond/BI		
							arranty Financia		490,330.88
	(20	% of all iter	ns ide	ntified as (*)	. To be col	lateralize	ed at time of prelimina	ary acceptance)	
Approvals									
I hereby certify that this is an accurate and complete estimate	ate of costs for the w	vork as sho	wn on	the Grading	and Erosi	on Contr	ol Plan and Construc	tion Drawings asso	ciated with the
Project.								Ü	
Engineer (P.E. Seal Required)									
3									
Approved by Owner / Applicant			Da	ite					
Approved by El Paso County Engineer / ECM Administrator	r		Da	ite					

If any channel improvements are needed they will need to be added.