

include costs for  
construction fence

2022 Financial Assurance Estimate Form  
(with pre-plat construction)

Updated: 11/4/2021

PROJECT INFORMATION		
Sand Creek Channel Improvements	7/4/2022	CDR 264
Project Name	Date	PCD File No.

Description	Quantity	Units	Unit Cost	Total	(with Pre-Plat Construction)	
					% Complete	Remaining
<b>SECTION 1 - GRADING AND EROSION CONTROL (Construction and Permanent BMPs)</b>						
<b>* Earthwork</b>						
less than 1,000; \$5,300 min		CY	\$ 8.00			
1,000-5,000; \$8,000 min		CY	\$ 8.00			
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		CY	\$ 2.50			
greater than 200,000; \$500,000 min	856,428	CY	\$ 2.00	1,712,856.00		1,712,856.00
* Permanent Seeding (inc. noxious weed mgmnt.)	15	AC	\$ 886.00	13,290.00		13,290.00
* Mulching	15	AC	\$ 831.00	12,465.00		12,465.00
* Permanent Erosion Control Blanket		SY	\$ 7.00			
* Permanent Pond/BMP Construction		CY	\$ 22.00			
* Permanent Pond/BMP (provide engineer's estimate)		EA				
Safety Fence		LF	\$ 3.00			
Temporary Erosion Control Blanket		SY	\$ 3.00			
Vehicle Tracking Control		EA	\$ 2,625.00	10,500.00		10,500.00
Silt Fence	10,500	LF	\$ 3.00	31,500.00		31,500.00
Temporary Seeding		AC	\$ 895.00			
Temporary Mulch		AC	\$ 831.00			
Erosion Bales		EA	\$ 28.00			
Erosion Logs/Straw Wattles	2,000	LF	\$ 6.00	12,000.00		12,000.00
Rock Check Dams	20	EA	\$ 1,000.00	20,000.00		20,000.00
Inlet Protection		EA	\$ 185.00			
Sediment Basin		EA	\$ 1,952.00			
Concrete Washout Basin	3	EA	\$ 997.00	1,994.00		1,994.00
<i>[insert items not listed but part of construction plans]</i>						
<b>MAINTENANCE (35% of Construction BMPs)</b>				\$ 26,597.90		\$ 26,597.90
<b>Section 1 Subtotal</b>				<b>\$ 1,841,202.90</b>		<b>\$ 1,841,202.90</b>

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

<b>SECTION 2 - PUBLIC IMPROVEMENTS *</b>						
<b>ROADWAY IMPROVEMENTS</b>						
Construction Traffic Control		LS	\$ 5,000.00			
Aggregate Base Course (135 lbs/cf)		Tons	\$ 31.00			
Aggregate Base Course (135 lbs/cf)		CY	\$ 58.00			
Raised Median, Paved		SF	\$ 9.00			
Barricade - Type 3		EA	\$ 221.00			
delineator - Type 1		EA	\$ 27.00			
Curb and Gutter, Type A (6" Vertical)		LF	\$ 32.00			
Curb and Gutter, Type B (Median)		LF	\$ 32.00			
Curb and Gutter, Type C (Ramp)		LF	\$ 32.00			
4" Sidewalk (common areas only)		SY	\$ 53.00			
5" Sidewalk		SY	\$ 66.00			
6" Sidewalk		SY	\$ 80.00			
8" Sidewalk		SY	\$ 106.00			
<i>[insert items not listed but part of construction plans]</i>						
<b>STORM DRAIN IMPROVEMENTS</b>						
36" Reinforced Concrete Pipe		LF	\$ 128.00			
42" Reinforced Concrete Pipe		LF	\$ 171.00			
Flared End Section (FES) RCP Size =		EA				
<i>(unit cost = 65 pipe unit cost)</i>						
Flared End Section (FES) CSP Size =		EA				
<i>(unit cost = 65 pipe unit cost)</i>						
Grated Inlet (Type C), Depth < 5'		EA	\$ 5,138.00			
Grated Inlet (Type D), Depth < 5'		EA	\$ 6,347.00			
Storm Sewer Manhole, Box Base		EA	\$ 12,876.00			
Geotextile (Erosion Control)		SY	\$ 7.00			
Rip Rap, #50 size from 6" to 24"		Tons	\$ 89.00			
Rip Rap, Grouted		Tons	\$ 105.00			
Drainage Channel Construction, Size ( W x H )		LF				
Drainage Channel Lining, Concrete		CY	\$ 631.00			
Drainage Channel Lining, Rip Rap		CY	\$ 124.00			
Drainage Channel Lining, Grass		AC	\$ 1,826.00			
Drainage Channel Lining, Other Stabilization						
<i>[insert items not listed but part of construction plans]</i>						
<b>Section 2 Subtotal</b>				<b>\$ -</b>		<b>\$ -</b>

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**SECTION 3 - COMMON DEVELOPMENT IMPROVEMENTS (Private or District and NOT Maintained by EPC)\*\***

ROADWAY IMPROVEMENTS							
<b>STORM DRAIN IMPROVEMENTS</b> (Exception: Permanent Pond/BMP shall be itemized under Section 1)							
Low Flow Channel Pool Section	3,800	LF	\$ 105	=	\$	399,000.00	\$ 399,000.00
Low Flow Channel Riffle Section	4,800	LF	\$ 85	=	\$	408,000.00	\$ 408,000.00
GSB Drop Structures	5	EA	\$ 450,000	=	\$	2,250,000.00	\$ 2,250,000.00
Existing Pond 2 Rip Rap Rundown	1	EA	\$ 200,000	=	\$	200,000.00	\$ 200,000.00
Concrete Box Culvert (M Standard), Size ( 12W x 10' H )	135	LF	\$ 2,000	=	\$	270,000.00	\$ 270,000.00
Concrete Box Culvert (M Standard), Size ( 10W x 10' H )	87	LF	\$ 1,800	=	\$	156,600.00	\$ 156,600.00
Concrete Box Culvert (M Standard), Size ( 13W x 4' H )	186	LF	\$ 1,300	=	\$	241,800.00	\$ 241,800.00
Concrete Box Culvert (M Standard), Size ( 13W x 2' H )	93	LF	\$ 900	=	\$	83,700.00	\$ 83,700.00
End Treatment- Headwall W-3, Pond 1 & 2	25	CY	\$ 850	=	\$	21,250.00	\$ 21,250.00
End Treatment- Wingwall W-3, Pond 1 & 2	40	CY	\$ 850	=	\$	34,000.00	\$ 34,000.00
End Treatment - Cutoff Wall/W-3, Pond 1 & 2	35	CY	\$ 850	=	\$	29,750.00	\$ 29,750.00
Storm Sewer Manhole, Slab Base, 25x25'	2	EA	\$ 50,000	=	\$	100,000.00	\$ 100,000.00
Geotextile (Erosion Control)	35,000	SY	\$ 7.00	=	\$	245,000.00	\$ 245,000.00
Overflow spillway structure, W-3, Pond 1 & 2	3	EA	\$ 150,000.00	=	\$	450,000.00	\$ 450,000.00
Maint. Access Rds/Trails and Turnarounds, 6" Class 2	270,000	SF	\$ 2.00	=	\$	540,000.00	\$ 540,000.00
<b>WATER SYSTEM IMPROVEMENTS</b>							
Water Main Pipe (PVC), Size 8"		LF	\$ 71	=	\$	-	\$ -
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 83	=	\$	-	\$ -
Gate Valves, 8"		EA	\$ 2,058	=	\$	-	\$ -
Fire Hydrant Assembly, w/ all valves		EA	\$ 7,306	=	\$	-	\$ -
Water Service Line Installation, inc. tap and valves		EA	\$ 1,466	=	\$	-	\$ -
Fire Cistem Installation, complete		EA		=	\$	-	\$ -
<i>[insert items not listed but part of construction plans]</i>							
<b>SANITARY SEWER IMPROVEMENTS</b>							
Sewer Main Pipe (PVC), Size 8"		LF	\$ 71	=	\$	-	\$ -
Sanitary Sewer Manhole, Depth < 15 feet		EA	\$ 4,858	=	\$	-	\$ -
Sanitary Service Line Installation, complete		EA	\$ 1,553	=	\$	-	\$ -
Sanitary Sewer Lift Station, complete		EA		=	\$	-	\$ -
<i>[insert items not listed but part of construction plans]</i>							
<b>LANDSCAPING IMPROVEMENTS</b> (For subdivision specific condition of approval, or PUD)							
Wetland Mitigation Plantings / Stabilization	6	EA	\$ 75,000.00	=	\$	447,000.00	\$ 447,000.00
		EA		=	\$	-	\$ -
		EA		=	\$	-	\$ -
		EA		=	\$	-	\$ -
<b>Section 3 Subtotal</b>				=	\$	<b>5,876,100.00</b>	\$ <b>5,876,100.00</b>

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

AS-BUILT PLANS (Public Improvements inc. Permanent WQCV BMPs)	LS	\$ 20,000.00	=	\$	20,000.00	\$ 20,000.00
POND/BMP CERTIFICATION (inc. elevations and volume calculations)	LS	\$ 10,000.00	=	\$	10,000.00	\$ 10,000.00
<b>Total Construction Financial Assurance</b>						<b>\$ 7,747,302.90</b>
(Sum of all section subtotals plus as-builts and pond/BMP certification)						
<b>Contingency (3%)</b>						<b>\$ 162,873.00</b>
(Accounting for current status of plans, only applied to Section 3 Storm Drain Improvements)						
<b>Total Construction Financial Assurance</b>						<b>\$ 7,910,175.90</b>
(Sum of all section subtotals plus as-builts and pond/BMP certification)						
<b>Professional Liability Insurance</b>						<b>\$ 347,722.20</b>
(20% of all items identified as "To be certified" type of temporary 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.

*Michael Bergloff*  
 Engineer (P.E. Seal Required)

*[Signature]*  
 Approved by Owner / Applicant

*7/6/2022*  
 Date

*[Signature]*  
 Approved by El Paso County Engineer / ECM Administrator

Date