

use the higher value of cut and fill volumes, not net volume.
129,229CY noted on SWMP

EPC STORMWATER REVIEW COMMENTS
IN ORANGE BOXES WITH BLACK TEXT

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

Updated: 12/8/2022

PROJECT INFORMATION			
The Rock Commerce Center Subdivision Filing No. 1	8/10/2023		PCD File No. "PPR2329"
Project Name	Date		

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	14,000	CY	\$ 5.00	= \$ 70,000.00		\$ 70,000.00
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		CY	\$ 2.00	= \$ -		\$ -
Permanent Erosion Control Blanket		SY	\$ 8.00	= \$ -		\$ -
Permanent Seeding (inc. noxious weed mgmnt.) & Mulching		AC	\$ 1,875.00	= \$ -		\$ -
Permanent Pond/BMP (provide engineer's estimate)		EA		= \$ -		\$ -
Concrete Washout Basin		EA	\$ 1,089.00	= \$ -		\$ -
Inlet Protection	2	EA	\$ 202.00	= \$ 404.00		\$ 404.00
Rock Check Dam		EA	\$ 605.00	= \$ -		\$ -
Safety Fence		LF	\$ 3.00	= \$ -		\$ -
Sediment Basin		EA	\$ 2,132.00	= \$ -		\$ -
Sediment Trap		EA	\$ 500.00	= \$ -		\$ -
Silt Fence		LF	\$ 3.00	= \$ -		\$ -
Slope Drain		LF	\$ 40.00	= \$ -		\$ -
Straw Bale		EA	\$ 31.00	= \$ -		\$ -
Straw Wattle/Rock Sock	5	LF	\$ 7.00	= \$ 35.00		\$ 35.00
Surface Roughening		AC	\$ 250.00	= \$ -		\$ -
Temporary Erosion Control Blanket		SY	\$ 3.00	= \$ -		\$ -
Temporary Seeding and Mulching		AC	\$ 1,666.00	= \$ -		\$ -
Vehicle Tracking Control		EA	\$ 2,867.00	= \$ -		\$ -
Saw Cut	525	LF	\$ 5.00	= \$ 2,625.00		\$ 2,625.00
[insert items not listed but part of construction plans]				= \$ -		\$ -
MAINTENANCE (35% of Construction BMPs)				= \$ 1,072.40		\$ 1,072.40
Section 1 Subtotal				= \$ 74,136.40		\$ 74,136.40

add/update quantities for highlighted items

Provide values for traffic control

SECTION 2 - PUBLIC IMPROVEMENTS *						
ROADWAY IMPROVEMENTS						
Construction Traffic Control		LS		= \$ -		\$ -
Aggregate Base Course (135 lbs/cf)		Tons	\$ 34.00	= \$ -		\$ -
Aggregate Base Course (135 lbs/cf)	5,400.0	CY	\$ 61.00	= \$ 329,400.00		\$ 329,400.00
Asphalt Pavement (3" thick)		SY	\$ 17.00	= \$ -		\$ -
Asphalt Pavement (4" thick)		SY	\$ 23.00	= \$ -		\$ -
Asphalt Pavement (6" thick)	5,400.0	SY	\$ 35.00	= \$ 189,000.00		\$ 189,000.00
Asphalt Pavement (147 lbs/cf) ___" thick		Tons	\$ 106.00	= \$ -		\$ -
Raised Median, Paved		SF	\$ 10.00	= \$ -		\$ -
Regulatory Sign/Advisory Sign	3.0	EA	\$ 364.00	= \$ 1,092.00		\$ 1,092.00
Guide/Street Name Sign		EA		= \$ -		\$ -
Epoxy Pavement Marking	55.0	SF	\$ 16.00	= \$ 880.00		\$ 880.00
Thermoplastic Pavement Marking		SF	\$ 28.00	= \$ -		\$ -
Barricade - Type 3		EA	\$ 241.00	= \$ -		\$ -
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 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

The Rock Commerce Center Subdivision Filing No. 1

8/10/2023

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	65	LF	\$ 76.00	=	\$ 4,940.00		\$ 4,940.00	
24" Reinforced Concrete Pipe		LF	\$ 91.00	=	\$ -		\$ -	
30" Reinforced Concrete Pipe		LF	\$ 114.00	=	\$ -		\$ -	
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		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" <i>(unit cost = 6x pipe unit cost)</i>	2	EA	\$ 1,350.00	=	\$ 2,700.00		\$ 2,700.00	
Flared End Section (FES) CSP Size = <i>(unit cost = 6x pipe unit cost)</i>		EA		=	\$ -		\$ -	
End Treatment- Headwall		EA		=	\$ -		\$ -	
End Treatment- Wingwall		EA		=	\$ -		\$ -	
End Treatment - Cutoff Wall		EA		=	\$ -		\$ -	
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"		Tons	\$ 97.00	=	\$ -		\$ -	
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				=	\$ -		\$ -	
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -	
Section 2 Subtotal					=	\$ 528,012.00		\$ 528,012.00

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

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8/10/2023

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"		LF	\$ 78.00	= \$	-	\$ -
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 91.00	= \$	-	\$ -
Gate Valves, 8"		EA	\$ 2,247.00	= \$	-	\$ -
Fire Hydrant Assembly, w/ all valves		EA	\$ 7,978.00	= \$	-	\$ -
Water Service Line Installation, inc. tap and valves		EA	\$ 1,601.00	= \$	-	\$ -
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				= \$	-	\$ -

Fill in section with all private stormwater and water system improvements shown on the GEC plan.

Fill in section for landscaping improvements.

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

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Project Name

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Description	Quantity	Units	Unit Cost	Total	(with Pre-Plat Construction)	
					% Complete	Remaining
AS-BUILT PLANS (Public Improvements inc. Permanent WQCV BMPs)		LS		= \$ -		\$ -
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS		= \$ -		\$ -
<div style="border: 1px solid black; padding: 2px; display: inline-block;">Add cost for As-Built Plans & Pond Certification Letter</div>					Total Construction Financial Assurance \$ 602,148.40 (Sum of all section subtotals plus as-builts and pond/BMP certification)	
					Total Remaining Construction Financial Assurance (with Pre-Plat Construction) \$ 602,148.40 (Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)	
					Total Defect Warranty Financial Assurance \$ 119,602.40 (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