

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

Updated: 12/8/2022

PROJECT INFORMATION			
CROSSROADS MIXED USE FILING NO. 2	7/31/2023	SF2238	
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	9,761	CY	\$ 5.00	=	\$ 48,805.00		\$ 48,805.00
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	1	EA	\$ 1,089.00	=	\$ 1,089.00		\$ 1,089.00
Inlet Protection	8	EA	\$ 202.00	=	\$ 1,616.00		\$ 1,616.00
Rock Check Dam		EA	\$ 605.00	=	\$ -		\$ -
Safety Fence		LF	\$ 3.00	=	\$ -		\$ -
Temporary Sediment Basin	3	EA	\$ 2,132.00	=	\$ 6,396.00		\$ 6,396.00
Sediment Trap		EA	\$ 500.00	=	\$ -		\$ -
Silt Fence	1,684	LF	\$ 3.00	=	\$ 5,052.00		\$ 5,052.00
Slope Drain		LF	\$ 40.00	=	\$ -		\$ -
Straw Bale		EA	\$ 31.00	=	\$ -		\$ -
Straw Wattle/Rock Sock		LF	\$ 7.00	=	\$ -		\$ -
Surface Roughening		AC	\$ 250.00	=	\$ -		\$ -
Temporary Erosion Control Blanket		SY	\$ 3.00	=	\$ -		\$ -
Temporary Seeding and Mulching	11.0	AC	\$ 1,666.00	=	\$ 18,326.00		\$ 18,326.00
Vehicle Tracking Control	1	EA	\$ 2,867.00	=	\$ 2,867.00		\$ 2,867.00
[insert items not listed but part of construction plans]				=	\$ -		\$ -
MAINTENANCE (35% of Construction BMPs)				=	\$ 11,989.95		\$ 11,989.95
Section 1 Subtotal				=	\$ 96,140.95		\$ 96,140.95
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)		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) _" thick		Tons	\$ 106.00	=	\$ -		\$ -
Raised Median, Paved		SF	\$ 10.00	=	\$ -		\$ -
Regulatory Sign/Advisory Sign		EA	\$ 364.00	=	\$ -		\$ -
Guide/Street Name Sign		EA		=	\$ -		\$ -
Epoxy Pavement Marking		SF	\$ 16.00	=	\$ -		\$ -
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		=	\$ -		\$ -

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				=	\$ -		\$ -
<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		LF	\$ 76.00	=	\$ -		\$ -
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 = <i>(unit cost = 6x pipe unit cost)</i>		EA		=	\$ -		\$ -
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				=	\$ -		\$ -

* - 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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						% Complete	Remaining
SECTION 3 - COMMON DEVELOPMENT IMPROVEMENTS (Private or District and NOT Maintained by EPC)**							
ROADWAY IMPROVEMENTS							
Aggregate Base Course (135 lbs/cf)	3,575	CY	\$ 56.00	=	\$ 200,200.00		\$ 200,200.00
Asphalt Pavement (4" thick)	3,575	SY	\$ 21.00	=	\$ 75,075.00		\$ 75,075.00
Guide/Street Name Sign	14	EA	\$ -	=	\$ -		\$ -
Barricade - Type 3	1	EA	\$ 221.00	=	\$ 221.00		\$ 221.00
Curb and Gutter, Type A (6" vertical)	1,559	LF	\$ 32.00	=	\$ 49,888.00		\$ 49,888.00
Cross Pan, collector (9" thick, 8" wide to inclde return)	170	LF	\$ 102.00	=	\$ 17,340.00		\$ 17,340.00
5" Sidewalk	1,142	SY	\$ 72.00	=	\$ 82,231.20		\$ 82,231.20
6" Sidewalk	76	SY	\$ 87.00	=	\$ 6,614.61		\$ 6,614.61
Pedestrian Ramp	11	EA	\$ 1,273.00	=	\$ 14,003.00		\$ 14,003.00
STORM DRAIN IMPROVEMENTS (Exception: Permanent Pond/BMP shall be itemized under Section 1)							
24" Reinforced Concrete Pipe	23	LF	\$ 83.00	=	\$ 1,909.00		\$ 1,909.00
30" Reinforced Conctete Pipe	546	LF	\$ 104.00	=	\$ 56,784.00		\$ 56,784.00
36" Reinforced Concrete Pipe	12	LF	\$ 128.00	=	\$ 1,536.00		\$ 1,536.00
Curb Inlet (Type R) L=10', 5'≤ Depth < 10'	2	EA	\$ 8,706.00	=	\$ 17,412.00		\$ 17,412.00
Storm Sewer Manhole, Box Base	4	EA	\$ 12,876.00	=	\$ 51,504.00		\$ 51,504.00
Storm Sewer Manhole, Slab Base	1	EA	\$ 7,082.00	=	\$ 7,082.00		\$ 7,082.00
WATER SYSTEM IMPROVEMENTS							
Water Main Pipe (PVC), Size 8"	795	LF	\$ 78.00	=	\$ 62,010.00		\$ 62,010.00
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 91.00	=	\$ -		\$ -
Gate Valves, 8"	2	EA	\$ 2,247.00	=	\$ 4,494.00		\$ 4,494.00
Fire Hydrant Assembly, w/ all valves	2	EA	\$ 7,978.00	=	\$ 15,956.00		\$ 15,956.00
Water Service Line Installation, inc. tap and valves	1	EA	\$ 1,601.00	=	\$ 1,601.00		\$ 1,601.00
Fire Cistern Installation, complete	1	EA		=	\$ -		\$ -
				=	\$ -		\$ -
[insert items not listed but part of construction plans]							
				=	\$ -		\$ -
SANITARY SEWER IMPROVEMENTS							
Sewer Main Pipe (PVC), Size 8"	712	LF	\$ 78.00	=	\$ 55,536.00		\$ 55,536.00
Sanitary Sewer Manhole, Depth < 15 feet	4	EA	\$ 5,305.00	=	\$ 21,220.00		\$ 21,220.00
Sanitary Service Line Installation, complete	1	EA	\$ 1,696.00	=	\$ 1,696.00		\$ 1,696.00
Sanitary Sewer Lift Station, complete		EA		=	\$ -		\$ -
				=	\$ -		\$ -
[insert items not listed but part of construction plans]							
				=	\$ -		\$ -
LANDSCAPING IMPROVEMENTS (For subdivision specific condition of approval, or PUD)							
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -

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Project Name	Date	PCD File No.

Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction) % Complete	Remaining
** - Section 3 is not subject to defect warranty requirements		Section 3 Subtotal		=	\$ 744,312.81		\$ 744,312.81
AS-BUILT PLANS (Public Improvements inc. Permanent WQCV BMPs)		LS		=	\$ -		\$ -
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS		=	\$ -		\$ -
Total Construction Financial Assurance						\$	840,453.76
(Sum of all section subtotals plus as-builts and pond/BMP certification)							
Total Remaining Construction Financial Assurance (with Pre-Plat Construction)						\$	840,453.76
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)							
Total Defect Warranty Financial Assurance						\$	9,761.00
(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

Approved by El Paso County

07/31/2023

Date

Date

COLORADO REGISTERED
 GILBERT A. SANCHO
 37160
 07/31/2023
 PROFESSIONAL ENGINEER

Approved

By: Gilbert LaForce, P.E.
 Engineering Manager
 Date: 11/29/2023 9:48:59 AM
 El Paso County Department of Public Works

