

2019 Financial Assurance Estimate Form
(with pre-plat construction)

Updated: 6/7/2019

PROJECT INFORMATION		
Riverbend - Filing 1/PREDEVELOPMENT GRADING	12/30/2020	SP187 & SF1844
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		CY	\$ 5.00	=	\$ -		\$ -	
20,001-50,000; \$100,000 min		CY	\$ 3.50	=	\$ -		\$ -	
50,001-200,000; \$175,000 min	194,066	CY	\$ 2.50	=	\$ 485,165.00		\$ 485,165.00	
greater than 200,000; \$500,000 min		CY	\$ 2.00	=	\$ -		\$ -	
* Permanent Seeding (inc. noxious weed mgmnt.)	4	AC	\$ 800.00	=	\$ 3,480.00		\$ 3,480.00	
* Mulching	4	AC	\$ 750.00	=	\$ 3,262.50		\$ 3,262.50	
* Permanent Erosion Control Blanket	3,372	SY	\$ 6.00	=	\$ 20,232.00		\$ 20,232.00	
* Permanent Pond/BMP Construction	9,954	CY	\$ 20.00	=	\$ 199,080.00		\$ 199,080.00	
* Permanent Pond/BMP (Spillway)	1	EA	\$ 51,343.00	=	\$ 51,343.00		\$ 51,343.00	
* Permanent Pond/BMP (Outlet Structure)	1	EA	\$ 30,000.00	=	\$ 30,000.00		\$ 30,000.00	
Safety Fence		LF	\$ 3.00	=	\$ -		\$ -	
Temporary Erosion Control Blanket	19,532	SY	\$ 3.00	=	\$ 58,596.00		\$ 58,596.00	
Vehicle Tracking Control	1	EA	\$ 2,370.00	=	\$ 2,370.00		\$ 2,370.00	
Silt Fence	4,333	LF	\$ 2.50	=	\$ 10,832.50		\$ 10,832.50	
Temporary Seeding	45	AC	\$ 628.00	=	\$ 28,260.00		\$ 28,260.00	
Temporary Mulch	45	AC	\$ 750.00	=	\$ 33,750.00		\$ 33,750.00	
Erosion Bales		EA	\$ 25.00	=	\$ -		\$ -	
Erosion Logs/Straw Waddle		LF	\$ 5.00	=	\$ -		\$ -	
Rock Check Dams		EA	\$ 500.00	=	\$ -		\$ -	
Inlet Protection	11	EA	\$ 167.00	=	\$ 1,837.00		\$ 1,837.00	
Sediment Basin	3	EA	\$ 1,762.00	=	\$ 5,286.00		\$ 5,286.00	
Concrete Washout Basin	1	EA	\$ 900.00	=	\$ 900.00		\$ 900.00	
[insert items not listed but part of construction plans]				=	\$ -		\$ -	
				=	\$ -		\$ -	
MAINTENANCE (35% of Construction BMPs)					=	\$ 49,641.03		\$ 49,641.03
* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)								
Section 1 Subtotal					=	\$ 984,035.03		\$ 984,035.03
SECTION 2 - PUBLIC IMPROVEMENTS *								
ROADWAY IMPROVEMENTS								
Construction Traffic Control		LS		=	\$ -		\$ -	
Aggregate Base Course (135 lbs/cf)	6,715	Tons	\$ 28.00	=	\$ 188,020.00		\$ 188,020.00	
Aggregate Base Course (135 lbs/cf)		CY	\$ 50.00	=	\$ -		\$ -	
Asphalt Pavement (3" thick)		SY	\$ 14.00	=	\$ -		\$ -	
Asphalt Pavement (4" thick)	16,500	SY	\$ 19.00	=	\$ 313,500.00		\$ 313,500.00	
Asphalt Pavement (6" thick)		SY	\$ 29.00	=	\$ -		\$ -	
Asphalt Pavement (147 lbs/cf) _" thick		Tons	\$ 88.00	=	\$ -		\$ -	
Raised Median, Paved		SF	\$ 8.00	=	\$ -		\$ -	
Regulatory Sign/Advisory Sign	10	EA	\$ 300.00	=	\$ 3,000.00		\$ 3,000.00	
Guide/Street Name Sign	16	EA		=	\$ -		\$ -	
Epoxy Pavement Marking	472	SF	\$ 13.00	=	\$ 6,136.00		\$ 6,136.00	
Thermoplastic Pavement Marking	120	SF	\$ 23.00	=	\$ 2,760.00		\$ 2,760.00	
Barricade - Type 3		EA	\$ 200.00	=	\$ -		\$ -	
Delineator - Type I		EA	\$ 24.00	=	\$ -		\$ -	
Curb and Gutter, Type A (6" Vertical)	2,967	LF	\$ 30.00	=	\$ 89,010.00		\$ 89,010.00	
Curb and Gutter, Type B (Median)		LF	\$ 30.00	=	\$ -		\$ -	
Curb and Gutter, Type C (Ramp)	6,600	LF	\$ 30.00	=	\$ 198,000.00		\$ 198,000.00	
4" Sidewalk (common areas only)		SY	\$ 48.00	=	\$ -		\$ -	
5" Sidewalk	6,263	SY	\$ 60.00	=	\$ 375,780.00		\$ 375,780.00	
6" Sidewalk		SY	\$ 72.00	=	\$ -		\$ -	
8" Sidewalk		SY	\$ 96.00	=	\$ -		\$ -	
Pedestrian Ramp	38	EA	\$ 1,150.00	=	\$ 43,700.00		\$ 43,700.00	
Cross Pan, local (8" thick, 6' wide to include return)	170	LF	\$ 61.00	=	\$ 10,370.00		\$ 10,370.00	
Cross Pan, collector (9" thick, 8' wide to include return)	38	LF	\$ 92.00	=	\$ 3,496.00		\$ 3,496.00	
Curb Chase		EA	\$ 1,480.00	=	\$ -		\$ -	
Guardrail Type 3 (W-Beam)		LF	\$ 49.00	=	\$ -		\$ -	
Guardrail Type 7 (Concrete)		LF	\$ 72.00	=	\$ -		\$ -	
Guardrail End Anchorage		EA	\$ 2,098.00	=	\$ -		\$ -	
Guardrail Impact Attenuator		EA	\$ 3,767.00	=	\$ -		\$ -	
Sound Barrier Fence (CMU block, 6' high)		LF	\$ 78.00	=	\$ -		\$ -	
Sound Barrier Fence (panels, 6' high)		LF	\$ 80.00	=	\$ -		\$ -	
Electrical Conduit, Size =		LF	\$ 16.00	=	\$ -		\$ -	
Traffic Signal, complete intersection		EA	\$ 425,000	=	\$ -		\$ -	

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Project Name	Date	PCD File No.	

Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)	
						% Complete	Remaining
[insert items not listed but part of construction plans]				=	\$ -		\$ -
[insert items not listed but part of construction plans]				=	\$ -		\$ -
STORM DRAIN IMPROVEMENTS							
Concrete Box Culvert (M Standard), Size (W x H)		LF		=	\$ -		\$ -
15" Reinforced Concrete Pipe		LF	\$ 52.00	=	\$ -		\$ -
18" Reinforced Concrete Pipe	165	LF	\$ 65.00	=	\$ 10,725.00		\$ 10,725.00
24" Reinforced Concrete Pipe	1,595	LF	\$ 78.00	=	\$ 124,410.00		\$ 124,410.00
30" Reinforced Concrete Pipe	196	LF	\$ 97.00	=	\$ 19,012.00		\$ 19,012.00
36" Reinforced Concrete Pipe	89	LF	\$ 120.00	=	\$ 10,680.00		\$ 10,680.00
42" Reinforced Concrete Pipe	733	LF	\$ 160.00	=	\$ 117,280.00		\$ 117,280.00
48" Reinforced Concrete Pipe	243	LF	\$ 195.00	=	\$ 47,385.00		\$ 47,385.00
54" Reinforced Concrete Pipe		LF	\$ 245.00	=	\$ -		\$ -
60" Reinforced Concrete Pipe	118	LF	\$ 288.00	=	\$ 33,984.00		\$ 33,984.00
66" Reinforced Concrete Pipe		LF	\$ 332.00	=	\$ -		\$ -
72" Reinforced Concrete Pipe		LF	\$ 380.00	=	\$ -		\$ -
18" Corrugated Steel Pipe		LF	\$ 84.00	=	\$ -		\$ -
24" Corrugated Steel Pipe		LF	\$ 96.00	=	\$ -		\$ -
30" Corrugated Steel Pipe		LF	\$ 122.00	=	\$ -		\$ -
36" Corrugated Steel Pipe		LF	\$ 147.00	=	\$ -		\$ -
42" Corrugated Steel Pipe		LF	\$ 168.00	=	\$ -		\$ -
48" Corrugated Steel Pipe		LF	\$ 178.00	=	\$ -		\$ -
54" Corrugated Steel Pipe		LF	\$ 260.00	=	\$ -		\$ -
60" Corrugated Steel Pipe		LF	\$ 280.00	=	\$ -		\$ -
66" Corrugated Steel Pipe		LF	\$ 340.00	=	\$ -		\$ -
72" Corrugated Steel Pipe		LF	\$ 400.00	=	\$ -		\$ -
78" Corrugated Steel Pipe		LF	\$ 460.00	=	\$ -		\$ -
84" Corrugated Steel Pipe		LF	\$ 550.00	=	\$ -		\$ -
Flared End Section (FES) RCP Size = 36 (unit cost = 6x pipe unit cost)	1	EA	\$ 1,079.00	=	\$ 1,079.00		\$ 1,079.00
Flared End Section (FES) RCP Size = (unit cost = 6x pipe unit cost)		EA		=	\$ -		\$ -
Flared End Section (FES) CSP Size = (unit cost = 6x pipe unit cost)		EA		=	\$ -		\$ -
End Treatment- Headwall		EA		=	\$ -		\$ -
End Treatment- Wingwall		EA		=	\$ -		\$ -
End Treatment - Cutoff Wall	2	EA	\$ 12,000.00	=	\$ 24,000.00		\$ 24,000.00
Curb Inlet (Type R) L=5', Depth < 5'	4	EA	\$ 5,542.00	=	\$ 22,168.00		\$ 22,168.00
Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'		EA	\$ 7,188.00	=	\$ -		\$ -
Curb Inlet (Type R) L =5', 10' ≤ Depth < 15'		EA	\$ 8,345.00	=	\$ -		\$ -
Curb Inlet (Type R) L =10', Depth < 5'	8	EA	\$ 7,627.00	=	\$ 61,016.00		\$ 61,016.00
Curb Inlet (Type R) L =10', 5' ≤ Depth < 10'		EA	\$ 7,861.00	=	\$ -		\$ -
Curb Inlet (Type R) L =10', 10' ≤ Depth < 15'		EA	\$ 9,841.00	=	\$ -		\$ -
Curb Inlet (Type R) L =15', Depth < 5'	1	EA	\$ 9,918.00	=	\$ 9,918.00		\$ 9,918.00
Curb Inlet (Type R) L =15', 5' ≤ Depth < 10'		EA	\$ 10,633.00	=	\$ -		\$ -
Curb Inlet (Type R) L =15', 10' ≤ Depth < 15'		EA	\$ 11,627.00	=	\$ -		\$ -
Curb Inlet (Type R) L =20', Depth < 5'		EA	\$ 10,570.00	=	\$ -		\$ -
Curb Inlet (Type R) L =20', 5' ≤ Depth < 10'		EA	\$ 11,667.00	=	\$ -		\$ -
Grated Inlet (Type C), Depth < 5'		EA	\$ 4,640.00	=	\$ -		\$ -
Grated Inlet (Type D), Depth < 5'		EA	\$ 5,731.00	=	\$ -		\$ -
Storm Sewer Manhole, Box Base	14	EA	\$ 11,627.00	=	\$ 162,778.00		\$ 162,778.00
Storm Sewer Manhole, Slab Base		EA	\$ 6,395.00	=	\$ -		\$ -
Geotextile (Erosion Control)		SY	\$ 6.00	=	\$ -		\$ -
Rip Rap, d50 size from 6" to 24"		Tons	\$ 80.00	=	\$ -		\$ -
Rip Rap, Grouted		Tons	\$ 95.00	=	\$ -		\$ -
Drainage Channel Construction, Size (W x H)		LF		=	\$ -		\$ -
Drainage Channel Lining, Concrete		CY	\$ 570.00	=	\$ -		\$ -
Drainage Channel Lining, Rip Rap	4,334	CY	\$ 112.00	=	\$ 485,408.00		\$ 485,408.00
Drainage Channel Lining, Grass		AC	\$ 1,469.00	=	\$ -		\$ -
Drainage Channel Lining, Other Stabilization				=	\$ -		\$ -
Type IV Impact Basin/Forebay A	1	EA	\$ 45,000.00	=	\$ 45,000.00		\$ 45,000.00
42" Impact Basin/Forebay B	1	EA	\$ 22,000.00	=	\$ 22,000.00		\$ 22,000.00
[insert items not listed but part of construction plans]				=	\$ -		\$ -
Section 2 Subtotal					=	\$ 2,430,615.00	\$ 2,430,615.00

* - 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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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)								
42" Reinforced Concrete Pipe	318	LF	\$ 160.00	=	\$ 50,880.00		\$ 50,880.00	
Storm Sewer Manhole, Box Base	3	EA	\$ 11,627.00	=	\$ 34,881.00		\$ 34,881.00	
60" Reinforced Concrete Pipe	228	LF	\$ 288.00	=	\$ 65,664.00		\$ 65,664.00	
				=	\$ -		\$ -	
				=	\$ -		\$ -	
				=	\$ -		\$ -	
WATER SYSTEM IMPROVEMENTS								
Water Main Pipe (PVC), Size 8"	8,227	LF	\$ 64.00	=	\$ 526,528.00		\$ 526,528.00	
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 75.00	=	\$ -		\$ -	
Gate Valves, 8"	86	EA	\$ 1,858.00	=	\$ 159,788.00		\$ 159,788.00	
Fire Hydrant Assembly, w/ all valves	15	EA	\$ 6,597.00	=	\$ 98,955.00		\$ 98,955.00	
Water Service Line Installation, inc. tap and valves	209	EA	\$ 1,324.00	=	\$ 276,716.00		\$ 276,716.00	
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"	6,735	LF	\$ 64.00	=	\$ 431,040.00		\$ 431,040.00	
Sewer Main Pipe (PVC), Size 4" [Force Main]	1,104	LF	\$ 45.00	=	\$ 49,680.00		\$ 49,680.00	
Sanitary Sewer Manhole, Depth < 15 feet	33	EA	\$ 4,386.00	=	\$ 144,738.00		\$ 144,738.00	
Sanitary Service Line Installation, complete	209	EA	\$ 1,402.00	=	\$ 293,018.00		\$ 293,018.00	
Sanitary Sewer Lift Station, complete	1	EA	\$796,514.00	=	\$ 796,514.00		\$ 796,514.00	
				=	\$ -		\$ -	
<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	\$ 2,928,402.00		\$ 2,928,402.00

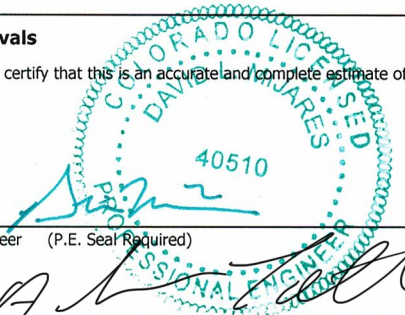
** - Section 3 is not subject to defect warranty requirements

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Project Name	Date	PCD File No.

Description	Quantity	Units	Unit Cost	Total	(with Pre-Plat Construction)	
					% Complete	Remaining
AS-BUILT PLANS (Public Improvements inc. Permanent WQCV BMPs)		LS	\$ 2,500.00	= \$ 2,500.00		\$ 2,500.00
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS	\$ 3,000.00	= \$ 3,000.00		\$ 3,000.00
Total Construction Financial Assurance						\$ 6,348,552.03
(Sum of all section subtotals plus as-builts and pond/BMP certification)						
Total Remaining Construction Financial Assurance (with Pre-Plat Construction)						\$ 6,348,552.03
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)						
Total Defect Warranty Financial Assurance						\$ 644,635.50
(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

12/30/2020

APPROVED
Engineering Department

Approved by El Paso County Engineer / ECM Administrator

01/14/2021 7:36:37 AM
dsdnijkamp
EPC Planning & Community
Development Department