

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

PROJECT INFORMATION			
The Trails at Aspen Ridge Filing No. 1	1/6/2020	\$ 389,310.00	PUDSP-191
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		CY	\$ 2.50	=	\$ -		\$ -
greater than 200,000; \$500,000 min		CY	\$ 2.00	=	\$ -		\$ -
* Permanent Seeding (inc. noxious weed mgmnt.)	3	AC	\$ 800.00	=	\$ 2,400.00		\$ 2,400.00
* Mulching		AC	\$ 750.00	=	\$ -		\$ -
* Temporary Erosion Control Blanket	14,000	SY	\$ 3.00	=	\$ 42,000.00		\$ 42,000.00
* Permanent Pond/BMP Construction	2	EA	\$ 25,000.00	=	\$ 50,000.00		\$ 50,000.00
* Permanent Pond/BMP (Spillway)	2	EA	\$ 80,000.00	=	\$ 160,000.00		\$ 160,000.00
* Permanent Pond/BMP (Outlet Structure)	2	EA	\$ 25,000.00	=	\$ 50,000.00		\$ 50,000.00
* Permanent Pond/BMP (Sand Filter & Underdrain)	1	EA	\$ 25,000.00	=	\$ 25,000.00		\$ 25,000.00
* Permanent Pond/BMP (Forebay)	2	EA	\$ 25,000.00	=	\$ 50,000.00		\$ 50,000.00
* Permanent Pond/BMP (Concrete Low Flow Channel)	187	CY	\$ 570.00	=	\$ 106,590.00		\$ 106,590.00
Safety Fence		LF	\$ 3.00	=	\$ -		\$ -
Temp. Erosion Control Blanket	44,225	SY	\$ 3.00	=	\$ 132,675.00		\$ 132,675.00
Vehicle Tracking Control	2	EA	\$ 2,370.00	=	\$ 4,740.00		\$ 4,740.00
Silt Fence	12,129	LF	\$ 2.50	=	\$ 30,322.50		\$ 30,322.50
Temporary Seeding		AC	\$ 628.00	=	\$ -		\$ -
Temporary Mulch		AC	\$ 750.00	=	\$ -		\$ -
Erosion Bales		EA	\$ 25.00	=	\$ -		\$ -
Erosion Logs/Straw Waddle	27,032	LF	\$ 5.00	=	\$ 135,160.00		\$ 135,160.00
Rock Check Dams	31	EA	\$ 500.00	=	\$ 15,500.00		\$ 15,500.00
Inlet Protection	40	EA	\$ 167.00	=	\$ 6,680.00		\$ 6,680.00
Sediment Basin	5	EA	\$ 1,762.00	=	\$ 8,810.00		\$ 8,810.00
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)				=	\$ 117,175.63		\$ 117,175.63
Section 1 Subtotal				=	\$ 937,953.13		\$ 937,953.13
SECTION 2 - PUBLIC IMPROVEMENTS *							
ROADWAY IMPROVEMENTS							
Construction Traffic Control		LS		=	\$ -		\$ -
Aggregate Base Course (135 lbs/cf)		Tons	\$ 28.00	=	\$ -		\$ -
Aggregate Base Course (135 lbs/cf)	13,564	CY	\$ 50.00	=	\$ 678,193.00		\$ 678,193.00
Asphalt Pavement (3" thick)		SY	\$ 14.00	=	\$ -		\$ -
Asphalt Pavement (4" thick)	53,820	SY	\$ 19.00	=	\$ 1,022,584.37		\$ 1,022,584.37
Asphalt Pavement (6" thick)		SY	\$ 29.00	=	\$ -		\$ -
Asphalt Pavement (147 lbs/cf) _" thick		Tons	\$ 88.00	=	\$ -		\$ -
Raised Median, Paved	6,139	SF	\$ 8.00	=	\$ 49,114.26		\$ 49,114.26
Regulatory Sign/Advisory Sign	57	EA	\$ 300.00	=	\$ 17,100.00		\$ 17,100.00
Guide/Street Name Sign	28	EA		=	\$ -		\$ -
Epoxy Pavement Marking	6,773	SF	\$ 13.00	=	\$ 88,047.96		\$ 88,047.96
Thermoplastic Pavement Marking	1,433	SF	\$ 23.00	=	\$ 32,949.62		\$ 32,949.62
Barricade - Type 3	17	EA	\$ 200.00	=	\$ 3,400.00		\$ 3,400.00
Delineator - Type I		EA	\$ 24.00	=	\$ -		\$ -
Curb and Gutter, Type A (6" Vertical)	8,941	LF	\$ 30.00	=	\$ 268,242.60		\$ 268,242.60
Curb and Gutter, Type B (Median)	1,440	LF	\$ 30.00	=	\$ 43,187.73		\$ 43,187.73
Curb and Gutter, Type C (Ramp)	11,721	LF	\$ 30.00	=	\$ 351,634.05		\$ 351,634.05
4" Sidewalk (common areas only)	5,633	SY	\$ 48.00	=	\$ 270,384.00		\$ 270,384.00
5" Sidewalk	4,158	SY	\$ 60.00	=	\$ 249,480.00		\$ 249,480.00
6" Sidewalk		SY	\$ 72.00	=	\$ -		\$ -
8" Sidewalk		SY	\$ 96.00	=	\$ -		\$ -
Pedestrian Ramp	77	EA	\$ 1,150.00	=	\$ 88,550.00		\$ 88,550.00
Cross Pan, local (8" thick, 6' wide to include return)	175	LF	\$ 61.00	=	\$ 10,675.00		\$ 10,675.00
Cross Pan, collector (9" thick, 8' wide to include return)		LF	\$ 92.00	=	\$ -		\$ -
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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The Trails at Aspen Ridge Filing No. 1				1/6/2020		\$	389,310.00		PUDSP-191
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]					=	\$ -		\$ -	
STORM DRAIN IMPROVEMENTS									
Concrete Box Culvert (M Standard), Size (W x H)			LF		=	\$ -		\$ -	
18" Reinforced Concrete Pipe		910	LF	\$ 65.00	=	\$ 59,143.50		\$ 59,143.50	
24" Reinforced Concrete Pipe		2,577	LF	\$ 78.00	=	\$ 201,031.74		\$ 201,031.74	
30" Reinforced Concrete Pipe		2,439	LF	\$ 97.00	=	\$ 236,623.74		\$ 236,623.74	
36" Reinforced Concrete Pipe			LF	\$ 120.00	=	\$ -		\$ -	
42" Reinforced Concrete Pipe		1,104	LF	\$ 160.00	=	\$ 176,643.20		\$ 176,643.20	
48" Reinforced Concrete Pipe		1,817	LF	\$ 195.00	=	\$ 354,318.90		\$ 354,318.90	
54" Reinforced Concrete Pipe			LF	\$ 245.00	=	\$ -		\$ -	
60" Reinforced Concrete Pipe			LF	\$ 288.00	=	\$ -		\$ -	
66" Reinforced Concrete Pipe			LF	\$ 332.00	=	\$ -		\$ -	
72" Reinforced Concrete Pipe			LF	\$ 380.00	=	\$ -		\$ -	
14" x 23" Horizontal Elliptical Reinforced Conc. Pipe		153	LF	\$ 65.00	=	\$ 9,971.00		\$ 9,971.00	
19" x 30" Horizontal Elliptical Reinforced Conc. Pipe		201	LF	\$ 97.00	=	\$ 19,487.30		\$ 19,487.30	
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 = 48" (unit cost = 6x pipe unit cost)		1	EA	\$ 1,170.00	=	\$ 1,170.00		\$ 1,170.00	
Flared End Section (FES) RCP Size = 30" (unit cost = 6x pipe unit cost)		1	EA	\$ 582.00	=	\$ 582.00		\$ 582.00	
Flared End Section (FES) CSP Size = 24" (unit cost = 6x pipe unit cost)		2	EA	\$ 468.00	=	\$ 936.00		\$ 936.00	
Flared End Section (FES) CSP Size = 18" (unit cost = 6x pipe unit cost)		2	EA	\$ 390.00	=	\$ 780.00		\$ 780.00	
Flared End Section (FES) CSP Size = 14" x 23" (unit cost = 6x pipe unit cost)		1	EA	\$ 390.00	=	\$ 390.00		\$ 390.00	
Flared End Section (FES) CSP Size = 19" x 30" (unit cost = 6x pipe unit cost)		1	EA	\$ 582.00	=	\$ 582.00		\$ 582.00	
End Treatment- Headwall			EA		=	\$ -		\$ -	
End Treatment- Wingwall			EA		=	\$ -		\$ -	
End Treatment - Cutoff Wall			EA		=	\$ -		\$ -	
Curb Inlet (Type R) L=5', Depth < 5'		3	EA	\$ 5,542.00	=	\$ 16,626.00		\$ 16,626.00	
Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'		4	EA	\$ 7,188.00	=	\$ 28,752.00		\$ 28,752.00	
Curb Inlet (Type R) L=5', 10' ≤ Depth < 15'			EA	\$ 8,345.00	=	\$ -		\$ -	
Curb Inlet (Type R) L=10', Depth < 5'			EA	\$ 7,627.00	=	\$ -		\$ -	
Curb Inlet (Type R) L=10', 5' ≤ Depth < 10'		20	EA	\$ 7,861.00	=	\$ 157,220.00		\$ 157,220.00	
Curb Inlet (Type R) L=10', 10' ≤ Depth < 15'			EA	\$ 9,841.00	=	\$ -		\$ -	
Curb Inlet (Type R) L=15', Depth < 5'			EA	\$ 9,918.00	=	\$ -		\$ -	
Curb Inlet (Type R) L=15', 5' ≤ Depth < 10'		4	EA	\$ 10,633.00	=	\$ 42,532.00		\$ 42,532.00	
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'		2	EA	\$ 4,640.00	=	\$ 9,280.00		\$ 9,280.00	
Grated Inlet (Type D), Depth < 5'			EA	\$ 5,731.00	=	\$ -		\$ -	
Storm Sewer Manhole, Box Base		2	EA	\$ 11,627.00	=	\$ 23,254.00		\$ 23,254.00	
Storm Sewer Manhole, Slab Base		41	EA	\$ 6,395.00	=	\$ 262,195.00		\$ 262,195.00	
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			CY	\$ 112.00	=	\$ -		\$ -	
Drainage Channel Lining, Grass			AC	\$ 1,469.00	=	\$ -		\$ -	
Drainage Channel Lining, Other Stabilization					=	\$ -		\$ -	
[insert items not listed but part of construction plans]					=	\$ -		\$ -	
Section 2 Subtotal					=	\$ 4,775,060.97		\$ 4,775,060.97	

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

These do not match the quantities that are listed on your drainage report (page 36). Please revise.

Total Inlets
FAE = 33
Drainage Report = 41

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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)							
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
WATER SYSTEM IMPROVEMENTS							
Water Main Pipe (PVC), Size 8"	4,932	LF	\$ 64.00	=	\$ 315,616.00		\$ 315,616.00
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 75.00	=	\$ -		\$ -
Water Main Pipe (PVC), Size 12"	3,927	LF	\$ 78.00	=	\$ 306,337.20		\$ 306,337.20
Gate Valves, 8"	38	EA	\$ 1,858.00	=	\$ 70,604.00		\$ 70,604.00
Gate Valves, 12"	32	EA	\$ 3,731.00	=	\$ 119,392.00		\$ 119,392.00
Fire Hydrant Assembly, w/ all valves	21	EA	\$ 6,597.00	=	\$ 138,537.00		\$ 138,537.00
Water Service Line Installation, inc. tap and valves	181	EA	\$ 1,324.00	=	\$ 239,644.00		\$ 239,644.00
Fire Cistern Installation, complete		EA		=	\$ -		\$ -
				=	\$ -		\$ -
[insert items not listed but part of construction plans]							
				=	\$ -		\$ -
SANITARY SEWER IMPROVEMENTS							
Sewer Main Pipe (PVC), Size 8"	7,235	LF	\$ 64.00	=	\$ 463,068.80		\$ 463,068.80
Sanitary Sewer Manhole, Depth < 15 feet	31	EA	\$ 4,386.00	=	\$ 135,966.00		\$ 135,966.00
Sanitary Service Line Installation, complete	181	EA	\$ 1,402.00	=	\$ 253,762.00		\$ 253,762.00
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		=	\$ -		\$ -
Section 3 Subtotal				=	\$ 2,042,927.00		\$ 2,042,927.00

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

PROJECT INFORMATION				
The Trails at Aspen Ridge Filing No. 1	1/6/2020	\$	389,310.00	PUDSP-191
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	\$ 15,000.00	= \$ 15,000.00		\$ 15,000.00
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS	\$ 7,000.00	= \$ 7,000.00		\$ 7,000.00
Total Construction Financial Assurance						\$ 7,777,941.10
(Sum of all section subtotals plus as-builts and pond/BMP certification)						
Total Remaining Construction Financial Assurance (with Pre-Plat Construction)						\$ 7,777,941.10
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)						
Total Defect Warranty Financial Assurance						\$ 1,015,892.19
(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)

[Handwritten Signature]

Approved by Owner / Applicant

Date

1-7-2020

Approved by El Paso County Engineer / ECM Administrator

Date