

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

Updated: 02/28/2020

PROJECT INFORMATION			
The Trails at Aspen Ridge Filing No. 2	2/26/2021	\$ 389,310.00	SF1927
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	178,000	CY	\$ 2.50	=	\$ 445,000.00		\$ 445,000.00
greater than 200,000; \$500,000 min		CY	\$ 2.00	=	\$ -		\$ -
* Permanent Seeding (inc. noxious weed mgmnt.)		AC	\$ 800.00	=	\$ -		\$ -
* Mulching		AC	\$ 750.00	=	\$ -		\$ -
* Permanent Erosion Control Blanket		SY	\$ 6.00	=	\$ -		\$ -
* Permanent Pond/BMP Construction		CY	\$ 20.00	=	\$ -		\$ -
* Permanent Pond/BMP (Spillway)		EA		=	\$ -		\$ -
* Permanent Pond/BMP (Outlet Structure)		EA		=	\$ -		\$ -
Safety Fence		LF	\$ 3.00	=	\$ -		\$ -
Temporary Erosion Control Blanket	16,431	SY	\$ 3.00	=	\$ 49,292.06		\$ 49,292.06
Vehicle Tracking Control	4	EA	\$ 2,370.00	=	\$ 9,480.00		\$ 9,480.00
Silt Fence	1,252	LF	\$ 2.50	=	\$ 3,130.00		\$ 3,130.00
Temporary Seeding	0	AC	\$ 628.00	=	\$ -		\$ -
Temporary Mulch	0	AC	\$ 750.00	=	\$ -		\$ -
Erosion Bales	6	EA	\$ 25.00	=	\$ 150.00		\$ 150.00
Erosion Logs/Straw Waddle	10,103	LF	\$ 5.00	=	\$ 50,512.50		\$ 50,512.50
Rock Check Dams	0	EA	\$ 500.00	=	\$ -		\$ -
Inlet Protection	17	EA	\$ 167.00	=	\$ 2,839.00		\$ 2,839.00
Sediment Basin	1	EA	\$ 1,762.00	=	\$ 1,762.00		\$ 1,762.00
Concrete Washout Basin	2	EA	\$ 900.00	=	\$ 1,800.00		\$ 1,800.00
[insert items not listed but part of construction plans]				=	\$ -		\$ -
				=	\$ -		\$ -
MAINTENANCE (35% of Construction BMPs)						\$ 41,637.95	\$ 41,637.95
* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)							
Section 1 Subtotal					=	\$ 605,603.51	\$ 605,603.51
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)	2,728	CY	\$ 50.00	=	\$ 136,416.00		\$ 136,416.00
Asphalt Pavement (3" thick)		SY	\$ 14.00	=	\$ -		\$ -
Asphalt Pavement (4" thick)	12,081	SY	\$ 19.00	=	\$ 229,547.17		\$ 229,547.17
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	20	EA	\$ 200.00	=	\$ 4,000.00		\$ 4,000.00
Epoxy Pavement Marking	96	SF	\$ 13.00	=	\$ 1,248.00		\$ 1,248.00
Thermoplastic Pavement Marking		SF	\$ 23.00	=	\$ -		\$ -
Barricade - Type 3	12	EA	\$ 200.00	=	\$ 2,400.00		\$ 2,400.00
Delineator - Type I		EA	\$ 24.00	=	\$ -		\$ -
Curb and Gutter, Type A (6" Vertical)	2,057	LF	\$ 30.00	=	\$ 61,705.50		\$ 61,705.50
Curb and Gutter, Type B (Median)		LF	\$ 30.00	=	\$ -		\$ -
Curb and Gutter, Type C (Ramp)	4,715	LF	\$ 30.00	=	\$ 141,452.40		\$ 141,452.40
4" Sidewalk (common areas only)	853	SY	\$ 48.00	=	\$ 40,944.00		\$ 40,944.00
5" Sidewalk	3,062	SY	\$ 60.00	=	\$ 183,720.00		\$ 183,720.00
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)	292	LF	\$ 61.00	=	\$ 17,781.50		\$ 17,781.50
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	=	\$ -		\$ -

PROJECT INFORMATION

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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)	0	LF		=	\$ -		\$ -
18" Reinforced Concrete Pipe	761	LF	\$ 65.00	=	\$ 49,465.00		\$ 49,465.00
24" Reinforced Concrete Pipe	271	LF	\$ 78.00	=	\$ 21,138.00		\$ 21,138.00
30" Reinforced Concrete Pipe	0	LF	\$ 97.00	=	\$ -		\$ -
36" Reinforced Concrete Pipe	496	LF	\$ 120.00	=	\$ 59,487.60		\$ 59,487.60
42" Reinforced Concrete Pipe	240	LF	\$ 160.00	=	\$ 38,366.40		\$ 38,366.40
48" Reinforced Concrete Pipe	142	LF	\$ 195.00	=	\$ 27,621.75		\$ 27,621.75
54" Reinforced Concrete Pipe	0	LF	\$ 245.00	=	\$ -		\$ -
60" Reinforced Concrete Pipe	0	LF	\$ 288.00	=	\$ -		\$ -
66" Reinforced Concrete Pipe	0	LF	\$ 332.00	=	\$ -		\$ -
72" Reinforced Concrete Pipe	0	LF	\$ 380.00	=	\$ -		\$ -
18" Corrugated Steel Pipe	0	LF	\$ 84.00	=	\$ -		\$ -
24" Corrugated Steel Pipe	0	LF	\$ 96.00	=	\$ -		\$ -
30" Corrugated Steel Pipe	0	LF	\$ 122.00	=	\$ -		\$ -
36" Corrugated Steel Pipe	0	LF	\$ 147.00	=	\$ -		\$ -
42" Corrugated Steel Pipe	0	LF	\$ 168.00	=	\$ -		\$ -
48" Corrugated Steel Pipe	0	LF	\$ 178.00	=	\$ -		\$ -
54" Corrugated Steel Pipe	0	LF	\$ 260.00	=	\$ -		\$ -
60" Corrugated Steel Pipe	0	LF	\$ 280.00	=	\$ -		\$ -
66" Corrugated Steel Pipe	0	LF	\$ 340.00	=	\$ -		\$ -
72" Corrugated Steel Pipe	0	LF	\$ 400.00	=	\$ -		\$ -
78" Corrugated Steel Pipe	0	LF	\$ 460.00	=	\$ -		\$ -
84" Corrugated Steel Pipe	0	LF	\$ 550.00	=	\$ -		\$ -
Flared End Section (FES) RCP Size = 36" <i>(unit cost = 6x pipe unit cost)</i>	1	EA	\$ 720.00	=	\$ 720.00		\$ 720.00
Flared End Section (FES) CSP Size = 48" <i>(unit cost = 6x pipe unit cost)</i>	1	EA	\$ 1,170.00	=	\$ 1,170.00		\$ 1,170.00
End Treatment- Headwall	0	EA		=	\$ -		\$ -
End Treatment- Wingwall	0	EA		=	\$ -		\$ -
End Treatment - Cutoff Wall	0	EA		=	\$ -		\$ -
Curb Inlet (Type R) L=5', Depth < 5'	2	EA	\$ 5,542.00	=	\$ 11,084.00		\$ 11,084.00
Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'	0	EA	\$ 7,188.00	=	\$ -		\$ -
Curb Inlet (Type R) L=5', 10' ≤ Depth < 15'	0	EA	\$ 8,345.00	=	\$ -		\$ -
Curb Inlet (Type R) L=10', Depth < 5'	5	EA	\$ 7,627.00	=	\$ 38,135.00		\$ 38,135.00
Curb Inlet (Type R) L=10', 5' ≤ Depth < 10'	2	EA	\$ 7,861.00	=	\$ 15,722.00		\$ 15,722.00
Curb Inlet (Type R) L=10', 10' ≤ Depth < 15'	0	EA	\$ 9,841.00	=	\$ -		\$ -
Curb Inlet (Type R) L=15', Depth < 5'	0	EA	\$ 9,918.00	=	\$ -		\$ -
Curb Inlet (Type R) L=15', 5' ≤ Depth < 10'	0	EA	\$ 10,633.00	=	\$ -		\$ -
Curb Inlet (Type R) L=15', 10' ≤ Depth < 15'	0	EA	\$ 11,627.00	=	\$ -		\$ -
Curb Inlet (Type R) L=20', Depth < 5'	0	EA	\$ 10,570.00	=	\$ -		\$ -
Curb Inlet (Type R) L=20', 5' ≤ Depth < 10'	0	EA	\$ 11,667.00	=	\$ -		\$ -
Grated Inlet (Type C), 5' ≤ Depth < 10'	2	EA	\$ 4,640.00	=	\$ 9,280.00		\$ 9,280.00
Grated Inlet (Type D), Depth < 5'	0	EA	\$ 5,731.00	=	\$ -		\$ -
Storm Sewer Manhole, Box Base	6	EA	\$ 11,627.00	=	\$ 69,762.00		\$ 69,762.00
Storm Sewer Manhole, Slab Base	8	EA	\$ 6,395.00	=	\$ 51,160.00		\$ 51,160.00
Geotextile (Erosion Control)	0	SY	\$ 6.00	=	\$ -		\$ -
Rip Rap, d50 size from 6" to 24"	0	Tons	\$ 80.00	=	\$ -		\$ -
Rip Rap, Grouted	0	Tons	\$ 95.00	=	\$ -		\$ -
Drainage Channel Construction, Size (W x H)	0	LF		=	\$ -		\$ -
Drainage Channel Lining, Concrete	0	CY	\$ 570.00	=	\$ -		\$ -
Drainage Channel Lining, Rip Rap	0	CY	\$ 112.00	=	\$ -		\$ -
Drainage Channel Lining, Grass	0	AC	\$ 1,469.00	=	\$ -		\$ -
Drainage Channel Lining, Other Stabilization	0			=	\$ -		\$ -
				=	\$ -		\$ -
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -
Section 2 Subtotal					=	\$ 1,259,026.32	\$ 1,259,026.32

* - 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.

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						% Complete	Remaining
SECTION 3 - COMMON DEVELOPMENT IMPROVEMENTS (Private or District and NOT Maintained by EPC)**							
ROADWAY IMPROVEMENTS							
4" Sidewalk (common areas only)	1619	SY	\$ 48.00	=	\$ 77,704.80		\$ 77,704.80
Aggregate Base Course (135 lbs/cf)	360	CY	\$ 50.00	=	\$ 18,000.00		\$ 18,000.00
Asphalt Pavement (4" thick)	1816	SY	\$ 19.00	=	\$ 34,504.00		\$ 34,504.00
Regulatory Sign/Advisory Sign (No Parking)	5	EA	\$ 300.00	=	\$ 1,500.00		\$ 1,500.00
Curb and Gutter, Type C (Ramp)	1469	LF	\$ 30.00	=	\$ 44,070.00		\$ 44,070.00
STORM DRAIN IMPROVEMENTS (Exception: Permanent Pond/BMP shall be itemized under Section 1)							
18" Reinforced Concrete Pipe	287	LF	\$ 65.00	=	\$ 18,676.45		\$ 18,676.45
Curb Inlet (Type R) L=10', Depth < 5'	3	EA	\$ 7,627.00	=	\$ 22,881.00		\$ 22,881.00
Grated Inlet (Type C), 5' ≤ Depth < 10'	1	EA	\$ 4,640.00	=	\$ 4,640.00		\$ 4,640.00
WATER SYSTEM IMPROVEMENTS							
Water Main Pipe (PVC), Size 8"	4,213	LF	\$ 64.00	=	\$ 269,632.00		\$ 269,632.00
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 75.00	=	\$ -		\$ -
Gate Valves, 8"	23	EA	\$ 1,858.00	=	\$ 42,734.00		\$ 42,734.00
Fire Hydrant Assembly, w/ all valves	9	EA	\$ 6,597.00	=	\$ 59,373.00		\$ 59,373.00
Water Service Line Installation, inc. tap and valves	98	EA	\$ 1,324.00	=	\$ 129,752.00		\$ 129,752.00
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"	3,280	LF	\$ 64.00	=	\$ 209,920.00		\$ 209,920.00
Sanitary Sewer Manhole, Depth < 15 feet	11	EA	\$ 4,386.00	=	\$ 48,246.00		\$ 48,246.00
Sanitary Service Line Installation, complete	98	EA	\$ 1,402.00	=	\$ 137,396.00		\$ 137,396.00
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)							
Trees (Deciduous/ Evergreen)	76	EA	\$ 375.00	=	\$ 28,500.00		\$ 28,500.00
Shrubs/ Ornamental Grasses	396	EA	\$ 40.00	=	\$ 15,840.00		\$ 15,840.00
Sod/ Native Turf	59,000	SF	\$ 0.55	=	\$ 32,450.00		\$ 32,450.00
Cobble	219	TON	\$ 55.00	=	\$ 12,045.00		\$ 12,045.00
Irrigation	59,000	SF	\$ 1.60	=	\$ 94,400.00		\$ 94,400.00
Section 3 Subtotal				=	\$ 1,302,264.25		\$ 1,302,264.25

** - 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	\$ 7,000.00	= \$ 7,000.00	\$	7,000.00
POND/BMP CERTIFICATION (Inc. elevations and volume calculations)		LS		= \$ -	\$	-
Total Construction Financial Assurance					\$	3,173,894.08
(Sum of all section subtotals plus as-builts and pond/BMP certification)						
Total Remaining Construction Financial Assurance (with Pre-Plat Construction)					\$	3,173,894.08
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)						
Total Defect Warranty Financial Assurance					\$	340,805.26
(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)

[Signature]
Approved by Owner / Applicant

7/13/21
Date

Approved by El Paso County Engineer / ECM Administrator

APPROVED
Engineering Department
07/22/2021 11:56:46 AM
dsdnijkamp
**EPC Planning & Community
Development Department**