

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

Updated: 9/27/2019

PROJECT INFORMATION				
The Trails at Aspen Ridge	9/27/2019	\$	389,310.00	PUDSP-191
Project Name	Date			PCD File No.

Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction) % Complete	Remaining
<b>SECTION 1 - GRADING AND EROSION CONTROL (Construction and Permanent BMPs)</b>							
* 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.)		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		SY	\$ 3.00	=	\$ -		\$ -
Vehicle Tracking Control		EA	\$ 2,370.00	=	\$ -		\$ -
Silt Fence		LF	\$ 2.50	=	\$ -		\$ -
Temporary Seeding		AC	\$ 628.00	=	\$ -		\$ -
Temporary Mulch		AC	\$ 750.00	=	\$ -		\$ -
Erosion Bales		EA	\$ 25.00	=	\$ -		\$ -
Erosion Logs/Straw Waddle		LF	\$ 5.00	=	\$ -		\$ -
Rock Check Dams		EA	\$ 500.00	=	\$ -		\$ -
Inlet Protection		EA	\$ 167.00	=	\$ -		\$ -
Sediment Basin		EA	\$ 1,762.00	=	\$ -		\$ -
Concrete Washout Basin		EA	\$ 900.00	=	\$ -		\$ -
[insert items not listed but part of construction plans]				=	\$ -		\$ -
<b>MAINTENANCE (35% of Construction BMPs)</b>				=	\$ -		\$ -
* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)							
<b>Section 1 Subtotal</b>				=	\$ -		\$ -
<b>SECTION 2 - PUBLIC IMPROVEMENTS *</b>							
<b>ROADWAY IMPROVEMENTS</b>							
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)	10,462	SY	\$ 48.00	=	\$ 502,177.20		\$ 502,177.20
5" Sidewalk		SY	\$ 60.00	=	\$ -		\$ -
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	=	\$ -		\$ -

PROJECT INFORMATION									
The Trails at Aspen Ridge			9/27/2019		\$	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]				=	\$	-		\$	-
[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	1,535	LF	\$ 65.00	=	\$	99,775.00		\$	99,775.00
24" Reinforced Concrete Pipe	2,183	LF	\$ 78.00	=	\$	170,265.42		\$	170,265.42
30" Reinforced Concrete Pipe	2,518	LF	\$ 97.00	=	\$	244,236.30		\$	244,236.30
36" Reinforced Concrete Pipe	57	LF	\$ 120.00	=	\$	6,864.00		\$	6,864.00
42" Reinforced Concrete Pipe	1,063	LF	\$ 160.00	=	\$	170,064.00		\$	170,064.00
48" Reinforced Concrete Pipe	1,865	LF	\$ 195.00	=	\$	363,753.00		\$	363,753.00
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	=	\$	-		\$	-
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"	1	EA	\$ 1,170.00	=	\$	1,170.00		\$	1,170.00
(unit cost = 6x pipe unit cost)									
Flared End Section (FES) RCP Size = 30"	1	EA	\$ 582.00	=	\$	582.00		\$	582.00
(unit cost = 6x pipe unit cost)									
Flared End Section (FES) CSP Size = 24"	3	EA	\$ 468.00	=	\$	1,404.00		\$	1,404.00
(unit cost = 6x pipe unit cost)									
Flared End Section (FES) CSP Size = 18"	3	EA	\$ 390.00	=	\$	1,170.00		\$	1,170.00
(unit cost = 6x pipe unit cost)									
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"	5,552	Tons	\$ 80.00	=	\$	444,198.40		\$	444,198.40
Rip Rap, Grouted		Tons	\$ 95.00	=	\$	-		\$	-
Drainage Channel Construction, Size ( W x H )		LF		=	\$	-		\$	-
Drainage Channel Lining, Concrete	187	CY	\$ 570.00	=	\$	106,458.90		\$	106,458.90
Drainage Channel Lining, Rip Rap		CY	\$ 112.00	=	\$	-		\$	-
Drainage Channel Lining, Grass		AC	\$ 1,469.00	=	\$	-		\$	-
Drainage Channel Lining, Other Stabilization				=	\$	-		\$	-
Drainage Micropool	1	EA	\$ 25,000.00	=	\$	25,000.00		\$	25,000.00
Drainage Forebay	2	EA	\$ 25,000.00	=	\$	50,000.00		\$	50,000.00
Drainage Sand Filter Basin	1	EA	\$ 25,000.00	=	\$	25,000.00		\$	25,000.00
[insert items not listed but part of construction plans]				=	\$	-		\$	-
Section 2 Subtotal				=	\$	5,405,655.81		\$	5,405,655.81

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

PROJECT INFORMATION							
The Trails at Aspen Ridge		9/27/2019		\$ 389,310.00		PUDSP-191	
Project Name		Date				PCD File No.	
Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)	
						% Complete	Remaining
<b>SECTION 3 - COMMON DEVELOPMENT IMPROVEMENTS (Private or District and NOT Maintained by EPC)**</b>							
<b>ROADWAY IMPROVEMENTS</b>							
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
<b>STORM DRAIN IMPROVEMENTS</b> (Exception: Permanent Pond/BMP shall be itemized under Section 1)							
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
<b>WATER SYSTEM IMPROVEMENTS</b>							
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]				=	\$ -		\$ -
<b>SANITARY SEWER IMPROVEMENTS</b>							
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]				=	\$ -		\$ -
<b>LANDSCAPING IMPROVEMENTS</b> (For subdivision specific condition of approval, or PUD)							
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
<b>Section 3 Subtotal</b>				=	<b>\$ 2,042,927.00</b>		<b>\$ 2,042,927.00</b>

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

PROJECT INFORMATION				
The Trails at Aspen Ridge	9/27/2019	\$	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		=	\$ -		\$ -
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS		=	\$ -		\$ -
						<b>Total Construction Financial Assurance \$ 7,448,582.81</b>	
						(Sum of all section subtotals plus as-builts and pond/BMP certification)	
						<b>Total Remaining Construction Financial Assurance (with Pre-Plat Construction) \$ 7,448,582.81</b>	
						(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)	
						<b>Total Defect Warranty Financial Assurance \$ 1,081,131.16</b>	
						(20% of all items identified as (*). To be collateralized at time of preliminary acceptance)	

<b>Approvals</b>	
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.	
<div style="border-bottom: 1px solid black; height: 40px; margin-bottom: 10px;"></div>	
Engineer (P.E. Seal Required)	
Approved by Owner / Applicant	Date
Approved by El Paso County Engineer / ECM Administrator	Date