

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

Updated: 6/7/2019

PROJECT INFORMATION		
FOREST LAKES FILING NO. 4 (42 LOTS)	9/29/2020	
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	50,500	CY	\$ 2.50	=	\$ 175,000.00		\$ 175,000.00	
greater than 200,000; \$500,000 min		CY	\$ 2.00	=	\$ -		\$ -	
* Permanent Seeding (inc. noxious weed mgmnt.)	24.56	AC	\$ 800.00	=	\$ 19,648.00		\$ 19,648.00	
* Mulching	24.56	AC	\$ 750.00	=	\$ 18,420.00		\$ 18,420.00	
* Permanent Erosion Control Blanket		SY	\$ 6.00	=	\$ -		\$ -	
* Permanent Pond/BMP Construction		CY	\$ 20.00	=	\$ -		\$ -	
* Permanent Pond/BMP (Spillway)		EA	\$ 12,500.00	=	\$ -		\$ -	
* Permanent Pond/BMP (Outlet Structure)		EA	\$ 20,000.00	=	\$ -		\$ -	
Safety Fence		LF	\$ 3.00	=	\$ -		\$ -	
Temporary Erosion Control Blanket		SY	\$ 3.00	=	\$ -		\$ -	
Vehicle Tracking Control	1	EA	\$ 2,370.00	=	\$ 2,370.00		\$ 2,370.00	
Silt Fence	1,990	LF	\$ 2.50	=	\$ 4,975.00		\$ 4,975.00	
Temporary Seeding		AC	\$ 628.00	=	\$ -		\$ -	
Temporary Mulch		AC	\$ 750.00	=	\$ -		\$ -	
Erosion Bales	9	EA	\$ 25.00	=	\$ 225.00		\$ 225.00	
Erosion Logs/Straw Waddle		LF	\$ 5.00	=	\$ -		\$ -	
Rock Check Dams		EA	\$ 500.00	=	\$ -		\$ -	
Inlet Protection	9	EA	\$ 167.00	=	\$ 1,503.00		\$ 1,503.00	
Sediment Basin		EA	\$ 1,762.00	=	\$ -		\$ -	
Concrete Washout Basin	1	EA	\$ 900.00	=	\$ 900.00		\$ 900.00	
Grading Differential	1	LS	\$ 16,921.93	=	\$ 16,921.93		\$ 16,921.93	
<i>[insert items not listed but part of construction plans]</i>								
MAINTENANCE (35% of Construction BMPs)					=	\$ 3,490.55		\$ 3,490.55
* - 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>\$ 243,453.48</b>		<b>\$ 243,453.48</b>

**SECTION 2 - PUBLIC IMPROVEMENTS \***

ROADWAY IMPROVEMENTS							
Construction Traffic Control		LS		=	\$ -		\$ -
Aggregate Base Course (135 lbs/cf)	4,226	Tons	\$ 28.00	=	\$ 118,328.00		\$ 118,328.00
Aggregate Base Course (135 lbs/cf)		CY	\$ 50.00	=	\$ -		\$ -
Asphalt Pavement (3" thick)		SY	\$ 14.00	=	\$ -		\$ -
Asphalt Pavement (4" thick)		SY	\$ 19.00	=	\$ -		\$ -
Asphalt Pavement (6" thick)		SY	\$ 29.00	=	\$ -		\$ -
Asphalt Pavement (147 lbs/cf) ___" thick	1,501	Tons	\$ 88.00	=	\$ 132,088.00		\$ 132,088.00
Raised Median, Paved		SF	\$ 8.00	=	\$ -		\$ -
Regulatory Sign/Advisory Sign	3	EA	\$ 300.00	=	\$ 900.00		\$ 900.00
Guide/Street Name Sign	4	EA	\$ 300.00	=	\$ 1,200.00		\$ 1,200.00
Epoxy Pavement Marking		SF	\$ 13.00	=	\$ -		\$ -
Thermoplastic Pavement Marking		SF	\$ 23.00	=	\$ -		\$ -
Barricade - Type 3		EA	\$ 200.00	=	\$ -		\$ -
Delineator - Type I		EA	\$ 24.00	=	\$ -		\$ -
Curb and Gutter, Type A (6" Vertical)	625	LF	\$ 30.00	=	\$ 18,750.00		\$ 18,750.00
Curb and Gutter, Type B (Median)	230	LF	\$ 30.00	=	\$ 6,900.00		\$ 6,900.00
Curb and Gutter, Type C (Ramp)	815	LF	\$ 30.00	=	\$ 24,450.00		\$ 24,450.00
4" Sidewalk (common areas only)		SY	\$ 48.00	=	\$ -		\$ -
5" Sidewalk	1,424	SY	\$ 60.00	=	\$ 85,440.00		\$ 85,440.00
6" Sidewalk		SY	\$ 72.00	=	\$ -		\$ -
8" Sidewalk		SY	\$ 96.00	=	\$ -		\$ -
Pedestrian Ramp	6	EA	\$ 1,150.00	=	\$ 6,900.00		\$ 6,900.00
Cross Pan, local (8" thick, 6' wide to include return)	74	LF	\$ 61.00	=	\$ 4,514.00		\$ 4,514.00
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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						% Complete	Remaining
[insert items not listed but part of construction plans]							
<b>STORM DRAIN IMPROVEMENTS</b>							
Concrete Box Culvert (M Standard), Size ( W x H )		LF		=	\$ -		\$ -
18" Reinforced Concrete Pipe		LF	\$ 65.00	=	\$ -		\$ -
24" Reinforced Concrete Pipe	90	LF	\$ 78.00	=	\$ 7,020.00		\$ 7,020.00
30" Reinforced Concrete Pipe	410	LF	\$ 97.00	=	\$ 39,770.00		\$ 39,770.00
36" Reinforced Concrete Pipe		LF	\$ 120.00	=	\$ -		\$ -
42" Reinforced Concrete Pipe		LF	\$ 160.00	=	\$ -		\$ -
48" Reinforced Concrete Pipe	840	LF	\$ 195.00	=	\$ 163,800.00		\$ 163,800.00
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	=	\$ -		\$ -
Flared End Section (FES) RCP Size = 18 <small>(unit cost = 6x pipe unit cost)</small>		EA	\$ 390.00	=	\$ -		\$ -
Flared End Section (FES) RCP Size = 30 <small>(unit cost = 6x pipe unit cost)</small>		EA	\$ 582.00	=	\$ -		\$ -
Flared End Section (FES) CSP Size = 48 <small>(unit cost = 6x pipe unit cost)</small>	1	EA	\$ 1,068.00	=	\$ 1,068.00		\$ 1,068.00
End Treatment- Headwall		EA	\$ 50,000.00	=	\$ -		\$ -
End Treatment- Wingwall		EA	\$ 30,000.00	=	\$ -		\$ -
End Treatment - Cutoff Wall		EA		=	\$ -		\$ -
Curb Inlet (Type R) L=5', Depth < 5'		EA	\$ 5,542.00	=	\$ -		\$ -
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'	2	EA	\$ 7,627.00	=	\$ 15,254.00		\$ 15,254.00
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'		EA	\$ 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	2	EA	\$ 11,627.00	=	\$ 23,254.00		\$ 23,254.00
Storm Sewer Manhole, Slab Base		EA	\$ 6,395.00	=	\$ -		\$ -
Geotextile (Erosion Control)		SY	\$ 6.00	=	\$ -		\$ -
Rip Rap, d50 size from 6" to 24"	40.5	Tons	\$ 80.00	=	\$ 3,240.00		\$ 3,240.00
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]							
				=	\$ -		\$ -
				=	\$ -		\$ -
<b>Section 2 Subtotal</b>				=	<b>\$ 652,876.00</b>		<b>\$ 652,876.00</b>

\* - 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	
AS-BUILT PLANS (Public Improvements inc. Permanent WQCV BMPs)		LS	= \$	-	\$	-	
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS	= \$	-	\$	-	
<b>Total Construction Financial Assurance</b>					<b>\$</b>	<b>1,320,087.48</b>	
<small>(Sum of all section subtotals plus as-builts and pond/BMP certification)</small>							
<b>Total Remaining Construction Financial Assurance (with Pre-Plat Construction)</b>					<b>\$</b>	<b>1,320,087.48</b>	
<small>(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)</small>							
<b>Total Defect Warranty Financial Assurance</b>					<b>\$</b>	<b>173,188.80</b>	
<small>(20% of all items identified as (*). To be collateralized at time of preliminary acceptance)</small>							

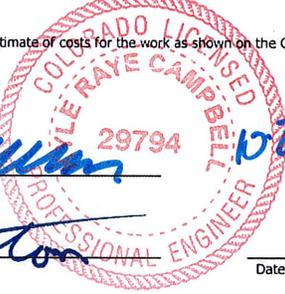
**Approvals**

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 Engineer / ECM Administrator



10/20

\_\_\_\_\_ 10-1-2020

Date

**APPROVED**

**Engineering Department**

10/05/2020 11:27:52 AM

dsdnijkamp

**EPC Planning & Community Development Department**