

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

Updated: 7/16/2019

PROJECT INFORMATION		
FOREST LAKES FILING 6	10/25/2020	XX-XX-XXX
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	3,850	CY	\$ 6.00	=	\$ 23,100.00		\$ 23,100.00
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.)	1	AC	\$ 800.00	=	\$ 824.00		\$ 824.00
* Mulching		AC	\$ 750.00	=	\$ -		\$ -
* Permanent Erosion Control Blanket		SY	\$ 6.00	=	\$ -		\$ -
* Permanent Pond/BMP Construction	6,180	CY	\$ 20.00	=	\$ 123,600.00		\$ 123,600.00
* Permanent Pond/BMP (Spillway)	1	EA	\$ 12,500.00	=	\$ 12,500.00		\$ 12,500.00
* Permanent Pond/BMP (Outlet Structure)	1	EA	\$ 20,000.00	=	\$ 20,000.00		\$ 20,000.00
Safety Fence		LF	\$ 3.00	=	\$ -		\$ -
Temporary Erosion Control Blanket		SY	\$ 3.00	=	\$ -		\$ -
Vehicle Tracking Control		EA	\$ 2,370.00	=	\$ -		\$ -
Silt Fence	707	LF	\$ 2.50	=	\$ 1,767.50		\$ 1,767.50
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	15	EA	\$ 167.00	=	\$ 2,505.00		\$ 2,505.00
Sediment Basin		EA	\$ 1,762.00	=	\$ -		\$ -
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)					\$ 1,810.38		\$ 1,810.38
Section 1 Subtotal					\$ 187,006.88		\$ 187,006.88

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

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) 8" thick	4,718	CY	\$ 50.00	=	\$ 235,900.00		\$ 235,900.00
Asphalt Pavement (3" thick)		SY	\$ 14.00	=	\$ -		\$ -
Asphalt Pavement (4" thick)	17,803	SY	\$ 19.00	=	\$ 338,257.00		\$ 338,257.00
Asphalt Pavement (6" thick)		SY	\$ 29.00	=	\$ -		\$ -
Asphalt Pavement (147 lbs/cf) ___" thick		Tons	\$ 88.00	=	\$ -		\$ -
Raised Median, Paved	4,658	SF	\$ 8.00	=	\$ 37,264.00		\$ 37,264.00
Regulatory Sign/Advisory Sign	18	EA	\$ 300.00	=	\$ 5,400.00		\$ 5,400.00
Guide/Street Name Sign	2	EA	\$ 300.00	=	\$ 600.00		\$ 600.00
Epoxy Pavement Marking		SF	\$ 13.00	=	\$ -		\$ -
Thermoplastic Pavement Marking	70	SF	\$ 23.00	=	\$ 1,610.00		\$ 1,610.00
Barricade - Type 3	2	EA	\$ 200.00	=	\$ 400.00		\$ 400.00
Delineator - Type I		EA	\$ 24.00	=	\$ -		\$ -
Curb and Gutter, Type A (6" Vertical)	4,335	LF	\$ 30.00	=	\$ 130,050.00		\$ 130,050.00
Curb and Gutter, Type B (Median)	1,389	LF	\$ 30.00	=	\$ 41,670.00		\$ 41,670.00
Curb and Gutter, Type C (Ramp)	5,177	LF	\$ 30.00	=	\$ 155,310.00		\$ 155,310.00
4" Sidewalk (common areas only)	1,895	SY	\$ 48.00	=	\$ 90,960.00		\$ 90,960.00
5" Sidewalk	3,389	SY	\$ 60.00	=	\$ 203,340.00		\$ 203,340.00
6" Sidewalk		SY	\$ 72.00	=	\$ -		\$ -
8" Sidewalk		SY	\$ 96.00	=	\$ -		\$ -
Pedestrian Ramp	11	EA	\$ 1,150.00	=	\$ 12,650.00		\$ 12,650.00
Cross Pan, local (8" thick, 6' wide to include return)	72	LF	\$ 61.00	=	\$ 4,392.00		\$ 4,392.00
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
				=	\$ -		\$ -
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -
STORM DRAIN IMPROVEMENTS							
Concrete Box Culvert (M Standard), Size (W x H)		LF		=	\$ -		\$ -
18" Reinforced Concrete Pipe	175	LF	\$ 65.00	=	\$ 11,375.00		\$ 11,375.00
24" Reinforced Concrete Pipe	502	LF	\$ 78.00	=	\$ 39,156.00		\$ 39,156.00
30" Reinforced Concrete Pipe	618	LF	\$ 97.00	=	\$ 59,946.00		\$ 59,946.00
36" Reinforced Concrete Pipe	620	LF	\$ 120.00	=	\$ 74,400.00		\$ 74,400.00
42" Reinforced Concrete Pipe	455	LF	\$ 160.00	=	\$ 72,800.00		\$ 72,800.00
48" Reinforced Concrete Pipe	559	LF	\$ 195.00	=	\$ 109,005.00		\$ 109,005.00
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 = <i>(unit cost = 6x pipe unit cost)</i>		EA		=	\$ -		\$ -
Flared End Section (FES) CSP Size = <i>(unit cost = 6x pipe unit cost)</i>		EA		=	\$ -		\$ -
End Treatment- Headwall		EA		=	\$ -		\$ -
End Treatment- Wingwall		EA		=	\$ -		\$ -
End Treatment - Cutoff Wall		EA		=	\$ -		\$ -
Curb Inlet (Type R) L=5', Depth < 5'	1	EA	\$ 5,542.00	=	\$ 5,542.00		\$ 5,542.00
Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'	1	EA	\$ 7,188.00	=	\$ 7,188.00		\$ 7,188.00
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'	3	EA	\$ 7,861.00	=	\$ 23,583.00		\$ 23,583.00
Curb Inlet (Type R) L =10', 10' ≤ Depth < 15'		EA	\$ 9,841.00	=	\$ -		\$ -
Curb Inlet (Type R) L =15', Depth < 5'	4	EA	\$ 9,918.00	=	\$ 39,672.00		\$ 39,672.00
Curb Inlet (Type R) L =15', 5' ≤ Depth < 10'	6	EA	\$ 10,633.00	=	\$ 63,798.00		\$ 63,798.00
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	10	EA	\$ 11,627.00	=	\$ 116,270.00		\$ 116,270.00
Storm Sewer Manhole, Slab Base	3	EA	\$ 6,395.00	=	\$ 19,185.00		\$ 19,185.00
Geotextile (Erosion Control)	471	SY	\$ 6.00	=	\$ 2,826.00		\$ 2,826.00
Rip Rap, d50 size from 6" to 24"	1,139	Tons	\$ 80.00	=	\$ 91,120.00		\$ 91,120.00
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				=	\$ -		\$ -
Storm Sewer Manhole, Type III	1	EA	\$ 4,500.00	=	\$ 4,500.00		\$ 4,500.00
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -
Section 2 Subtotal					=	\$ 1,998,169.00	\$ 1,998,169.00

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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						
ER ACCESS Road			=	\$ -		\$ -
			=	\$ -		\$ -
			=	\$ -		\$ -
			=	\$ -		\$ -
			=	\$ -		\$ -
			=	\$ -		\$ -
STORM DRAIN IMPROVEMENTS (Exception: Permanent Pond/BMP shall be itemized under Section 1)						
30" Reinforced Concrete Pipe	73	LF	\$ 97.00	=	\$ 7,081.00	\$ 7,081.00
			=	\$ -		\$ -
			=	\$ -		\$ -
			=	\$ -		\$ -
			=	\$ -		\$ -
			=	\$ -		\$ -
WATER SYSTEM IMPROVEMENTS						
Water Main Pipe (PVC), Size 8"	4,804	LF	\$ 64.00	=	\$ 307,456.00	\$ 307,456.00
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 75.00	=	\$ -	\$ -
Gate Valves, 8"	21	EA	\$ 1,858.00	=	\$ 39,018.00	\$ 39,018.00
Fire Hydrant Assembly, w/ all valves	12	EA	\$ 6,597.00	=	\$ 79,164.00	\$ 79,164.00
Water Service Line Installation, inc. tap and valves	68	EA	\$ 1,324.00	=	\$ 90,032.00	\$ 90,032.00
Fire Cistern Installation, complete		EA		=	\$ -	\$ -
Water Main Pipe (PVC), Size 12"	592	LF	\$ 84.00	=	\$ 49,728.00	\$ 49,728.00
Water Main Valves, 12"	1	EA	\$ 2,200.00	=	\$ 2,200.00	\$ 2,200.00
SANITARY SEWER IMPROVEMENTS						
Sewer Main Pipe (PVC), Size 8"	5,418	LF	\$ 64.00	=	\$ 346,752.00	\$ 346,752.00
Sanitary Sewer Manhole, Depth < 15 feet	16	EA	\$ 4,386.00	=	\$ 70,176.00	\$ 70,176.00
Sanitary Service Line Installation, complete	68	EA	\$ 1,402.00	=	\$ 95,336.00	\$ 95,336.00
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		=	\$ -	\$ -
		EA		=	\$ -	\$ -
Section 3 Subtotal				=	\$ 1,086,943.00	\$ 1,086,943.00

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

landscape should be included here; trail w/ fencing & signage located elsewhere? IF not please place here.

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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		= \$ -		\$ -
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS		= \$ -		\$ -
Total Construction Financial Assurance						\$ 3,272,118.88
(Sum of all section subtotals plus as-builts and pond/BMP certification)						
Total Remaining Construction Financial Assurance (with Pre-Plat Construction)						\$ 3,272,118.88
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)						
Total Defect Warranty Financial Assurance						\$ 435,638.60
(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

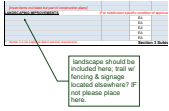
 Date

 Approved by El Paso County Engineer / ECM Administrator

 Date

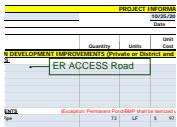
F AE V_1 planning only redlines.pdf Markup Summary 11-25-2020

dsdparsons (2)



Subject: Callout
Page Label: 3
Author: dsdparsons
Date: 11/24/2020 1:00:13 PM
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landscape should be included here; trail w/
fencing & signage located elsewhere? IF not
please place here.



Subject: Callout
Page Label: 3
Author: dsdparsons
Date: 11/24/2020 12:59:43 PM
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ER ACCESS Road