

# 2022 Financial Assurance Estimate Form (with pre-plat construction)

Updated: 12/22/2020

PROJECT INFORMATION			
Project Name <b>FOREST LAKES FILING 7</b>	Date <b>11/22/21</b>	PCD File No. <b>SF-21-049</b>	

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	14,800	CY	\$ 5.00	= \$ 74,000.00		\$ 74,000.00
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.)	2,145	AC	\$ 828.00	= \$ 1,776.06		\$ 1,776.06
* Mulching	2,145	AC	\$ 777.00	= \$ 1,666.67		\$ 1,666.67
* Permanent Erosion Control Blanket	2,680	SY	\$ 6.00	= \$ 16,080.00		\$ 16,080.00
* Permanent Pond/BMP Construction		CY	\$ 21.00	= \$ -		\$ -
* Permanent Pond/BMP (Impact/Outlet structures = \$105k, spillway = \$35k)	1	EA	\$140,000.00	= \$ 140,000.00		\$ 140,000.00
Concrete Trickle Channel	165	LF	\$ 80.00	= \$ 13,200.00		\$ 13,200.00
Safety Fence		LF	\$ 3.00	= \$ -		\$ -
Temporary Erosion Control Blanket	9,615	SY	\$ 3.00	= \$ 28,845.00		\$ 28,845.00
Vehicle Tracking Control	1	EA	\$ 2,453.00	= \$ 2,453.00		\$ 2,453.00
Silt Fence	410	LF	\$ 2.60	= \$ 1,066.00		\$ 1,066.00
Temporary Seeding		AC	\$ 650.00	= \$ -		\$ -
Temporary Mulch		AC	\$ 777.00	= \$ -		\$ -
Erosion Bales		EA	\$ 26.00	= \$ -		\$ -
Erosion Logs/Straw Waddle		LF	\$ 5.00	= \$ -		\$ -
Rock Check Dams		EA	\$ 518.00	= \$ -		\$ -
Inlet Protection	21	EA	\$ 173.00	= \$ 3,633.00		\$ 3,633.00
Sediment Basin		EA	\$ 1,824.00	= \$ -		\$ -
Concrete Washout Basin	1	EA	\$ 932.00	= \$ 932.00		\$ 932.00
[insert items not listed but part of construction plans]				= \$ -		\$ -
<b>MAINTENANCE (35% of Construction BMPs)</b>				= \$	12,925.15	\$ 12,925.15
<b>Section 1 Subtotal</b>				= \$	<b>296,576.88</b>	\$ <b>296,576.88</b>

\* - 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	\$ 29.00	= \$ -		\$ -
Aggregate Base Course (135 lbs/cf) 8" thick	3,825	CY	\$ 52.00	= \$ 198,900.00		\$ 198,900.00
Asphalt Pavement (3" thick)		SY	\$ 14.50	= \$ -		\$ -
Asphalt Pavement (4" thick)	17,040	SY	\$ 20.00	= \$ 340,800.00		\$ 340,800.00
Asphalt Pavement (6" thick)		SY	\$ 30.00	= \$ -		\$ -
Asphalt Pavement (147 lbs/cf) _" thick		Tons	\$ 91.00	= \$ -		\$ -
Raised Median, Paved		SF	\$ 8.30	= \$ -		\$ -
Regulatory Sign/Advisory Sign	15	EA	\$ 311.00	= \$ 4,665.00		\$ 4,665.00
Guide/Street Name Sign	7	EA	\$ 300.00	= \$ 2,100.00		\$ 2,100.00
Epoxy Pavement Marking		SF	\$ 14.00	= \$ -		\$ -
Thermoplastic Pavement Marking		SF	\$ 24.00	= \$ -		\$ -
Barricade - Type 3		EA	\$ 207.00	= \$ -		\$ -
Delineator - Type I		EA	\$ 25.00	= \$ -		\$ -
Curb and Gutter, Type A (6" Vertical)	2,550	LF	\$ 31.00	= \$ 79,050.00		\$ 79,050.00
Curb and Gutter, Type B (Median)		LF	\$ 31.00	= \$ -		\$ -
Curb and Gutter, Type C (Ramp)	6,650	LF	\$ 31.00	= \$ 206,150.00		\$ 206,150.00
4" Sidewalk (common areas only)	1,417	SY	\$ 50.00	= \$ 70,850.00		\$ 70,850.00
5" Sidewalk	3,695	SY	\$ 62.00	= \$ 229,090.00		\$ 229,090.00
6" Sidewalk		SY	\$ 75.00	= \$ -		\$ -
8" Sidewalk		SY	\$ 99.00	= \$ -		\$ -
Pedestrian Ramp	14	EA	\$ 1,190.00	= \$ 16,660.00		\$ 16,660.00
Cross Pan, local (8" thick, 6' wide to include return)	148	LF	\$ 63.00	= \$ 9,324.00		\$ 9,324.00
Cross Pan, collector (9" thick, 8' wide to include return)		LF	\$ 95.00	= \$ -		\$ -
Curb Chase		EA	\$ 1,532.00	= \$ -		\$ -
Guardrail Type 3 (W-Beam)		LF	\$ 51.00	= \$ -		\$ -
Guardrail Type 7 (Concrete)		LF	\$ 75.00	= \$ -		\$ -
Guardrail End Anchorage		EA	\$ 2,172.00	= \$ -		\$ -
Guardrail Impact Attenuator		EA	\$ 3,899.00	= \$ -		\$ -
Sound Barrier Fence (CMU block, 6' high)		LF	\$ 81.00	= \$ -		\$ -
Sound Barrier Fence (panels, 6' high)		LF	\$ 83.00	= \$ -		\$ -

**PROJECT INFORMATION**

**Project Name** FOREST LAKES FILING 7

**Date** 11/22/21

**PCD File No.** SF-21-049

Description	Quantity	Units	Unit Cost	=	Total	(with Pre-Plat Construction)	
						% Complete	Remaining
Electrical Conduit, Size =		LF	\$ 17.00	=	\$ -		\$ -
Traffic Signal, complete intersection		EA	\$ 439,875	=	\$ -		\$ -

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Description	Quantity	Units	Unit Cost	=	\$	Total	(with Pre-Plat Construction)	
							% Complete	Remaining
<i>[insert items not listed but part of construction plans]</i>				=	\$	-		\$ -
<i>[insert items not listed but part of construction plans]</i>				=	\$	-		\$ -
<b>STORM DRAIN IMPROVEMENTS</b>								
Concrete Box Culvert (M Standard), Size ( W x H )		LF		=	\$	-		\$ -
18" Reinforced Concrete Pipe	318	LF	\$ 67.00	=	\$	21,306.00		\$ 21,306.00
24" Reinforced Concrete Pipe	838	LF	\$ 81.00	=	\$	67,878.00		\$ 67,878.00
30" Reinforced Concrete Pipe	413	LF	\$ 100.00	=	\$	41,300.00		\$ 41,300.00
36" Reinforced Concrete Pipe	280	LF	\$ 124.00	=	\$	34,720.00		\$ 34,720.00
42" Reinforced Concrete Pipe	122	LF	\$ 166.00	=	\$	20,252.00		\$ 20,252.00
48" Reinforced Concrete Pipe	637	LF	\$ 202.00	=	\$	128,674.00		\$ 128,674.00
54" Reinforced Concrete Pipe		LF	\$ 254.00	=	\$	-		\$ -
60" Reinforced Concrete Pipe		LF	\$ 298.00	=	\$	-		\$ -
66" Reinforced Concrete Pipe		LF	\$ 344.00	=	\$	-		\$ -
72" Reinforced Concrete Pipe		LF	\$ 393.00	=	\$	-		\$ -
18" Corrugated Steel Pipe		LF	\$ 87.00	=	\$	-		\$ -
24" Corrugated Steel Pipe		LF	\$ 99.00	=	\$	-		\$ -
30" Corrugated Steel Pipe		LF	\$ 126.00	=	\$	-		\$ -
36" Corrugated Steel Pipe		LF	\$ 152.00	=	\$	-		\$ -
42" Corrugated Steel Pipe		LF	\$ 174.00	=	\$	-		\$ -
48" Corrugated Steel Pipe		LF	\$ 184.00	=	\$	-		\$ -
54" Corrugated Steel Pipe		LF	\$ 269.00	=	\$	-		\$ -
60" Corrugated Steel Pipe		LF	\$ 290.00	=	\$	-		\$ -
66" Corrugated Steel Pipe		LF	\$ 352.00	=	\$	-		\$ -
72" Corrugated Steel Pipe		LF	\$ 414.00	=	\$	-		\$ -
78" Corrugated Steel Pipe		LF	\$ 476.00	=	\$	-		\$ -
84" Corrugated Steel Pipe		LF	\$ 569.00	=	\$	-		\$ -
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'		EA	\$ 5,736.00	=	\$	-		\$ -
Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'	3	EA	\$ 7,440.00	=	\$	22,320.00		\$ 22,320.00
Curb Inlet (Type R) L =5', 10' ≤ Depth < 15'		EA	\$ 8,637.00	=	\$	-		\$ -
Curb Inlet (Type R) L =10', Depth < 5'		EA	\$ 7,894.00	=	\$	-		\$ -
Curb Inlet (Type R) L =10', 5' ≤ Depth < 10'	5	EA	\$ 8,136.00	=	\$	40,680.00		\$ 40,680.00
Curb Inlet (Type R) L =10', 10' ≤ Depth < 15'		EA	\$ 10,185.00	=	\$	-		\$ -
Curb Inlet (Type R) L =15', Depth < 5'		EA	\$ 10,265.00	=	\$	-		\$ -
Curb Inlet (Type R) L =15', 5' ≤ Depth < 10'	10	EA	\$ 11,005.00	=	\$	110,050.00		\$ 110,050.00
Curb Inlet (Type R) L =15', 10' ≤ Depth < 15'		EA	\$ 12,034.00	=	\$	-		\$ -
Curb Inlet (Type R) L =20', Depth < 5'		EA	\$ 10,940.00	=	\$	-		\$ -
Curb Inlet (Type R) L =20', 5' ≤ Depth < 10'		EA	\$ 12,075.00	=	\$	-		\$ -
Grated Inlet (Type C), Depth < 5'		EA	\$ 4,802.00	=	\$	-		\$ -
Grated Inlet (Type D), Depth < 5'		EA	\$ 5,932.00	=	\$	-		\$ -
Storm Sewer Manhole, Box Base	10	EA	\$ 12,034.00	=	\$	120,340.00		\$ 120,340.00
Storm Sewer Manhole, Slab Base	6	EA	\$ 6,619.00	=	\$	39,714.00		\$ 39,714.00
Geotextile (Erosion Control)		SY	\$ 6.20	=	\$	-		\$ -
Rip Rap, d50 size from 6" to 24"		Tons	\$ 83.00	=	\$	-		\$ -
Rip Rap, Grouted		Tons	\$ 98.00	=	\$	-		\$ -
Drainage Channel Construction, Size ( W x H )		LF		=	\$	-		\$ -
Drainage Channel Lining, Concrete		CY	\$ 590.00	=	\$	-		\$ -
Drainage Channel Lining, Rip Rap		CY	\$ 116.00	=	\$	-		\$ -
Drainage Channel Lining, Grass		AC	\$ 1,520.00	=	\$	-		\$ -
Drainage Channel Lining, Other Stabilization				=	\$	-		\$ -
<i>[insert items not listed but part of construction plans]</i>				=	\$	-		\$ -
<i>[insert items not listed but part of construction plans]</i>				=	\$	-		\$ -
<b>Section 2 Subtotal</b>						<b>\$ 1,804,823.00</b>		<b>\$ 1,804,823.00</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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PCD File No. **SF-21-049**

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						% Complete	Remaining
<b>SECTION 3 - COMMON DEVELOPMENT IMPROVEMENTS (Private or District and NOT Maintained by EPC)**</b>							
<b>ROADWAY IMPROVEMENTS</b>							
Geotextile (Erosion Control under rip rap)	2,683	SY	\$ 6.20	=	\$ 16,634.60		\$ 16,634.60
Rip Rap, d50 size from 6" to 24"	2,684	Tons	\$ 83.00	=	\$ 222,772.00		\$ 222,772.00
Storm Sewer Manhole, Box Base	11	EA	\$ 12,034.00	=	\$ 132,374.00		\$ 132,374.00
Storm Sewer Manhole, Slab Base	1	EA	\$ 6,619.00	=	\$ 6,619.00		\$ 6,619.00
CDOT Type C Inlets	2	EA	\$ 4,802.00	=	\$ 9,604.00		\$ 9,604.00
CDOT Type D Inlets	3	EA	\$ 5,932.00	=	\$ 17,796.00		\$ 17,796.00
<b>STORM DRAIN IMPROVEMENTS</b> (Exception: Permanent Pond/BMP shall be itemized under Section 1)							
24" Reinforced Concrete Pipe	45	LF	\$ 81.00	=	\$ 3,645.00		\$ 3,645.00
30" Reinforced Concrete Pipe	510	LF	\$ 100.00	=	\$ 51,000.00		\$ 51,000.00
36" Reinforced Concrete Pipe	311	LF	\$ 124.00	=	\$ 38,564.00		\$ 38,564.00
42" Reinforced Concrete Pipe	742	LF	\$ 166.00	=	\$ 123,172.00		\$ 123,172.00
48" Reinforced Concrete Pipe	766	LF	\$ 202.00	=	\$ 154,732.00		\$ 154,732.00
				=	\$ -		\$ -
<b>WATER SYSTEM IMPROVEMENTS</b>							
Water Main Pipe (PVC), Size 8"	4,575	LF	\$ 66.00	=	\$ 301,950.00		\$ 301,950.00
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 78.00	=	\$ -		\$ -
Gate Valves, 8"	24	EA	\$ 1,923.00	=	\$ 46,152.00		\$ 46,152.00
Fire Hydrant Assembly, w/ all valves	11	EA	\$ 6,828.00	=	\$ 75,108.00		\$ 75,108.00
Water Service Line Installation, inc. tap and valves	79	EA	\$ 1,370.00	=	\$ 108,230.00		\$ 108,230.00
Fire Cistern Installation, complete		EA		=	\$ -		\$ -
				=	\$ -		\$ -
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -
<b>SANITARY SEWER IMPROVEMENTS</b>							
Sewer Main Pipe (PVC), Size 8"	4,289	LF	\$ 66.00	=	\$ 283,074.00		\$ 283,074.00
Sanitary Sewer Manhole, Depth < 15 feet	15	EA	\$ 4,540.00	=	\$ 68,100.00		\$ 68,100.00
Sanitary Service Line Installation, complete	79	EA	\$ 1,451.00	=	\$ 114,629.00		\$ 114,629.00
Sanitary Sewer Lift Station, complete		EA		=	\$ -		\$ -
				=	\$ -		\$ -
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -
<b>LANDSCAPING IMPROVEMENTS</b> (For subdivision specific condition of approval, or PUD)							
Split Rail Fencing	25	LF	\$ 500.00	=	\$ 12,500.00		\$ 12,500.00
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
				<b>Section 3 Subtotal</b>	<b>= \$ 1,786,655.60</b>		<b>\$ 1,786,655.60</b>

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

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					% Complete	Remaining
AS-BUILT PLANS (Public Improvements inc. Permanent WQCV BMPs)		LS	\$ 2,500.00	= \$ 2,500.00		\$ 2,500.00
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS	\$ 1,800.00	= \$ 1,800.00		\$ 1,800.00
<b>Total Construction Financial Assurance</b>						<b>\$ 3,892,355.48</b>
(Sum of all section subtotals plus as-builts and pond/BMP certification)						
<b>Total Remaining Construction Financial Assurance (with Pre-Plat Construction)</b>						<b>\$ 3,892,355.48</b>
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)						
<b>Total Defect Warranty Financial Assurance</b>						<b>\$ 410,309.15</b>
(20% of all items identified as (*). To be collateralized at time of preliminary acceptance)						

**Approvals**

I hereby certify that this is an accurate and reasonable estimate of costs for the work as shown on the Grading and Erosion Control Plan and Construction Drawings associated with the Project.



*Kyle M. Cameron*

Engineer (P.E. Seal Required)

*John Boulton*

Approved by Owner / Applicant

*3.31.22*

Date

Approved by El Paso County Engineer / ECM Administrator

Date