

# 2015 Financial Assurance Estimate Form

3/17/2015

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**Project Information**

Forest Lakes Filling No. 2B

8/10/2016

Project Name

Date

**Section 1 - Grading and Erosion Control BMPs**

	Quantity	Units	Price	% Complete	Remaining
Earthwork*	50,500.00	CY @	\$ 5 = \$ 252,500.00		\$ 252,500.00 *
Permanent Seeding*	24.56	AC @	\$ 582 = \$ 14,293.92		\$ 14,293.92 *
Mulching*	24.56	AC @	\$ 507 = \$ 12,451.92		\$ 12,451.92 *
Permanent Erosion Control Blanket*		SY @	\$ 6 = \$		\$ - *
Temporary Erosion Control Blanket		SY @	\$ 3 = \$		\$ -
Vehicle Tracking Control	1.00	EA @	\$ 1,625 = \$ 1,625.00		\$ 1,625.00
Safety Fence		LF @	\$ 3 = \$		\$ -
Silt Fence	1,990.00	LF @	\$ 4 = \$ 7,960.00		\$ 7,960.00
Temporary Seeding		AC @	\$ 485 = \$		\$ -
Temporary Mulch		AC @	\$ 507 = \$		\$ -
Erosion Bales	9.00	EA @	\$ 21 = \$ 189.00		\$ 189.00
Erosion Logs		LF @	\$ 6 = \$		\$ -
Rock Ditch Checks		EA @	\$ = \$		\$ -
Inlet Protection	9.00	EA @	\$ 153 = \$ 1,377.00		\$ 1,377.00
Temporary Sediment Basin		EA @	\$ 1,625 = \$		\$ -
Concrete Washout Basin	1.00	EA @	\$ 776 = \$ 776.00		\$ 776.00
		@	\$ = \$		\$ -

\* specified items subject to defect warranty financial assurance. A minimum of 20% to be retained up to preliminary acceptance process.

Section 1 Subtotal = \$ 291,172.84 \$ 291,172.84

72-80K

**Section 2 - Public Improvements\*\***

**- Roadway Improvements**

	Quantity	Units	Price	% Complete	Remaining
Construction Traffic Control		LS @	\$ = \$		\$ - *
Aggregate Base Course	7,935.00	Tons @	\$ 18 = \$ 142,830.00		\$ 142,830.00 *
Asphalt Pavement	3,212.00	Tons @	\$ 65 = \$ 208,780.00		\$ 208,780.00 *
Raised Median, Paved		SF @	\$ 7 = \$		\$ - *
Electrical Conduit, Size =		LF @	\$ 14 = \$		\$ - *
Traffic Signal, complete intersection		EA @	\$ 250,000 = \$		\$ - *
Regulatory Sign	4.00	EA @	\$ 100 = \$ 400.00		\$ 400.00 *
Advisory Sign		EA @	\$ 100 = \$		\$ - *
Guide/Street Name Sign	3.00	EA @	\$ 300 = \$ 900.00		\$ 900.00 *
Epoxy Pavement Marking		SF @	\$ 12 = \$		\$ - *
Thermoplastic Pavement Marking		SF @	\$ 22 = \$		\$ - *
Barricade - Type 3		EA @	\$ 115 = \$		\$ - *
Delineator (Type I)		EA @	\$ 21 = \$		\$ - *
Curb and Gutter, Type C (Ramp)	3,195.00	LF @	\$ 21 = \$ 67,095.00		\$ 67,095.00 *
Curb and Gutter, Type A (6" Vertical)	1,620.00	LF @	\$ 16 = \$ 25,920.00		\$ 25,920.00 *
Curb and Gutter, Type B (Median)	230.00	LF @	\$ 13 = \$ 2,990.00		\$ 2,990.00 *
Pedestrian Ramp	87.75	SY @	\$ 108 = \$ 9,477.00		\$ 9,477.00 *

ORIGINAL

Cross Pan	25.00	SY	@	\$ 53	=	\$ 1,325.00	\$ 1,325.00 *
Concrete Sidewalk	3,239.00	SY	@	\$ 38	=	\$ 123,082.00	\$ 123,082.00
Curb Chase		EA	@	\$ 1,300	=	\$	\$ - *
Guardrail Type 3 (W-Beam)		LF	@	\$ 18	=	\$	\$ - *
Guardrail Type 7 (Concrete)		LF	@	\$ 67	=	\$	\$ - *
Guardrail End Anchorage		EA	@	\$ 1,978	=	\$	\$ - *
Guardrail Impact Attenuator		EA	@	\$ 3,564	=	\$	\$ - *
Sound Barrier Fence		LF	@	\$ 100	=	\$	\$ - *

**- Storm Drain Improvements**

Concrete Box Culvert (M Standard), Size ( W x H )		LF	@	\$	=	\$	\$ - *
Reinforced Concrete Pipe (RCP)	Size	LF	@	\$	=	\$	\$ - *
18" Reinforced Concrete Pipe	74.00	LF	@	\$ 69	=	\$ 5,106.00	\$ 5,106.00 *
24" Reinforced Concrete Pipe	127.00	LF	@	\$ 84	=	\$ 10,668.00	\$ 10,668.00 *
30" Reinforced Concrete Pipe	498.00	LF	@	\$ 94	=	\$ 46,812.00	\$ 46,812.00 *
36" Reinforced Concrete Pipe	57.00	LF	@	\$ 124	=	\$ 7,068.00	\$ 7,068.00 *
42" Reinforced Concrete Pipe		LF	@	\$ 134	=	\$	\$ - *
48" Reinforced Concrete Pipe	840.00	LF	@	\$ 178	=	\$ 149,520.00	\$ 149,520.00 *
54" Reinforced Concrete Pipe		LF	@	\$ 182	=	\$	\$ - *
60" Reinforced Concrete Pipe		LF	@	\$ 216	=	\$	\$ - *
66" Reinforced Concrete Pipe		LF	@	\$ 263	=	\$	\$ - *
72" Reinforced Concrete Pipe		LF	@	\$ 283	=	\$	\$ - *
High Density Polyethylene (HDPE) Pipe	Size	LF	@	\$	=	\$	\$ - *
Corrugated Steel Pipe (CSP)	Size	LF	@	\$	=	\$	\$ - *
18" Corrugated Steel Pipe		LF	@	\$ 66	=	\$	\$ - *
24" Corrugated Steel Pipe		LF	@	\$ 96	=	\$	\$ - *
30" Corrugated Steel Pipe		LF	@	\$ 101	=	\$	\$ - *
36" Corrugated Steel Pipe		LF	@	\$ 136	=	\$	\$ - *
42" Corrugated Steel Pipe		LF	@	\$ 147	=	\$	\$ - *
48" Corrugated Steel Pipe		LF	@	\$ 169	=	\$	\$ - *
54" Corrugated Steel Pipe		LF	@	\$ 193	=	\$	\$ - *
60" Corrugated Steel Pipe		LF	@	\$ 227	=	\$	\$ - *
66" Corrugated Steel Pipe		LF	@	\$ 278	=	\$	\$ - *
72" Corrugated Steel Pipe		LF	@	\$ 330	=	\$	\$ - *
78" Corrugated Steel Pipe		LF	@	\$ 381	=	\$	\$ - *
84" Corrugated Steel Pipe		LF	@	\$ 432	=	\$	\$ - *
Flared End Section (FES) RCP	1.00	EA	@	\$ 2,200	=	\$ 2,200.00	\$ 2,200.00 *
Flared End Section (FES) HDPE		EA	@	\$	=	\$	\$ - *
Flared End Section (FES) CSP		EA	@	\$	=	\$	\$ - *
End Treatment- Headwall		EA	@	\$	=	\$	\$ - *
End Treatment- Wingwall		EA	@	\$	=	\$	\$ - *
End Treatment - Cutoff Wall		EA	@	\$	=	\$	\$ - *
Curb Inlet (Type R) L=5', Depth < 5 feet	1.00	EA	@	\$ 3,791	=	\$ 3,791.00	\$ 3,791.00 *
Curb Inlet (Type R) L=5', 5'-10' Depth		EA	@	\$ 5,044	=	\$	\$ - *
Curb Inlet (Type R) L =5' , 10'-15' Depth		EA	@	\$ 6,027	=	\$	\$ - *
Curb Inlet (Type R) L =10' , Depth < 5 feet	3.00	EA	@	\$ 5,528	=	\$ 16,584.00	\$ 16,584.00 *
Curb Inlet (Type R) L =10' , 5'-10' Depth		EA	@	\$ 6,694	=	\$	\$ - *
Curb Inlet (Type R) L =10' , 10'-15' Depth		EA	@	\$ 7,500	=	\$	\$ - *
Curb Inlet (Type R) L =15' , Depth < 5 feet		EA	@	\$ 7,923	=	\$	\$ - *
Curb Inlet (Type R) L =15' , 5'-10' Depth		EA	@	\$ 8,000	=	\$	\$ - *
Curb Inlet (Type R) L =15' , 10'-15' Depth		EA	@	\$ 8,800	=	\$	\$ - *
Curb Inlet (Type R) L =20' , Depth < 5 feet		EA	@	\$ 8,000	=	\$	\$ - *
Curb Inlet (Type R) L =20' , 5'-10' Depth		EA	@	\$ 8,830	=	\$	\$ - *
Curb Inlet (Type R) L = , ' - ' Depth		EA	@	\$	=	\$	\$ - *
Curb Inlet (Type R) L = , ' - ' Depth		EA	@	\$	=	\$	\$ - *
Grated Inlet (Type C), < 5' deep	1.00	EA	@	\$ 3,270	=	\$ 3,270.00	\$ 3,270.00 *
Grated Inlet (Type D), < 5' deep		EA	@	\$ 3,908	=	\$	\$ - *
Storm Sewer Manhole, Box Base, Depth < 15 feet	3.00	EA	@	\$ 8,592	=	\$ 25,776.00	\$ 25,776.00 *
Storm Sewer Manhole, Slab Base, Depth < 15 feet		EA	@	\$ 4,575	=	\$	\$ - *
Geotextile (Erosion Control)		SY	@	\$ 5	=	\$	\$ - *

Rip Rap, d50 Size from 6" to 24"	20.00	CY	@	\$ 98	=	\$ 1,960.00	\$ 1,960.00 *
Rip Rap, Grouted		CY	@	\$ 215	=	\$	\$ - *
Drainage Channel Construction, Size ( W x H )		LF	@	\$	=	\$	\$ - *
Channel Lining, Concrete		CY	@	\$ 450	=	\$	\$ - *
Channel Lining, Rip Rap		CY	@	\$ 98	=	\$	\$ - *
Channel Lining, Grass		AC	@	\$ 1,287	=	\$	\$ - *
Channel Lining, Other Stabilization		SY	@	\$ 3	=	\$	\$ - *
Detention Outlet Structure		EA	@	\$ 17,500	=	\$	\$ - *
Detention Emergency Spillway		EA	@	\$ 4,000	=	\$	\$ - *
Permanent Water Quality Facility (Describe)		EA	@	\$	=	\$	\$ - *

\* specified items subject to defect warranty financial assurance. A minimum of 20% to be retained up to preliminary acceptance process. † For flared end sections, multiply pipe LF cost by 6

Section 2 Subtotal = \$ 855,554.00

855,554.00 \*\*

1.7  
+ 900K

**Section 3 - Common Development Improvements (Private or District)\*\*\***

**- Roadway Improvements**

(Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County)

Quantity	Units	Price	% Complete	Remaining
_____	@	\$ _____ = \$ _____		\$ _____
_____	@	\$ _____ = \$ _____		\$ _____
_____	@	\$ _____ = \$ _____		\$ _____
_____	@	\$ _____ = \$ _____		\$ _____
_____	@	\$ _____ = \$ _____		\$ _____

**- Storm Drain Improvements**

(Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County)

_____	@	\$ _____ = \$ _____		\$ _____
_____	@	\$ _____ = \$ _____		\$ _____
_____	@	\$ _____ = \$ _____		\$ _____
_____	@	\$ _____ = \$ _____		\$ _____
_____	@	\$ _____ = \$ _____		\$ _____
_____	@	\$ _____ = \$ _____		\$ _____

**- Water System Improvements**

Water Main Pipe (PVC), Size 8"	2,291.00	LF	@ \$ 94	= \$ 215,354.00	\$ 215,354.00
Water Main Pipe (Ductile Iron), Size 8"		LF	@ \$ 137	= \$ _____	\$ _____
Gate Valves, 8"	8.00	EA	@ \$ 1,852	= \$ 14,816.00	\$ 14,816.00
Fire Hydrant Assembly w/ all valves	5.00	EA	@ \$ 6,430	= \$ 32,150.00	\$ 32,150.00
Water Service Line Installation, including tap and valves	87.00	EA	@ \$ 1,253	= \$ 109,011.00	\$ 109,011.00
Fire Cistern Installation, complete		EA	@ \$ _____	= \$ _____	\$ _____

**- Sanitary Sewer Improvements**

Sewer Main Pipe (PVC), Size 8"	1,860.00	LF	@ \$ 94	= \$ 174,840.00	\$ 174,840.00
Sanitary Sewer Manhole, Depth < 15 feet	7.00	EA	@ \$ 4,575	= \$ 32,025.00	\$ 32,025.00
Sanitary Service Line Installation, complete	87.00	EA	@ \$ 1,516	= \$ 131,892.00	\$ 131,892.00
Sanitary Sewer Lift Station, complete		EA	@ \$ _____	= \$ _____	\$ _____

**- Landscaping (If Applicable)**

(List landscaping line items and cost - usually only in case of subdivision specific condition of approval, or PUD)

_____	EA	@ \$ _____ = \$ _____		\$ _____
_____	EA	@ \$ _____ = \$ _____		\$ _____
_____	EA	@ \$ _____ = \$ _____		\$ _____
_____	EA	@ \$ _____ = \$ _____		\$ _____
_____	EA	@ \$ _____ = \$ _____		\$ _____

\*\*\*items in this section are not subject to defect warranty financial assurance


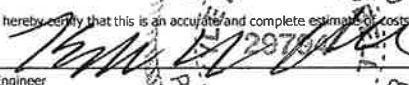

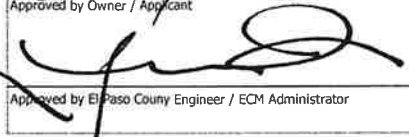
**Section 3 Subtotal = \$ 710,088.00 710,088.00**

-500

Financial Assurance Totals	
As-built drawings - (FILL IN IF THERE ARE ANY PUBLICLY-MAINTAINED IMPROVEMENTS)	\$ 4,800
( Inc. survey to verify detention pond volumes.)	<b>Total Construction Financial Assurance \$1,861,614.84</b>
	(Sum of all section subtotals)
	<b>Total Remaining Construction Financial Assurance 1,861,614.84</b>
	(Sum of all section totals less credit for items complete)
	<b>Total Defect Warranty Financial Assurance \$226,959.97</b>
	(20% of all items identified as public improvements(*). 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 approved Construction Drawings associated with the Project.

  Engineer	8-31-17 Date
 Approved by Owner / Applicant	8-31-17 Date
 Approved by El Paso County Engineer / ECM Administrator	6 SEPT 2017 Date