

# 2016 Financial Assurance Estimate Form

6/13/2016

## Project Information

**Meadowbrook Crossing - Overlot Grading and EC and Channel Improvements**

7/25/2017

Project Name

Date

Section 1 - Grading and Erosion Control BMPs	Quantity	Units	Price	% Complete	Remaining
Earthwork* - Fill	106,300.00	CY	@ \$ 5 = \$ 531,500.00		\$ 531,500.00 *
Permanent Seeding* (inc. noxious weed mgmnt.)	6.62	AC	@ \$ 582 = \$ 3,852.84		\$ 3,852.84 *
Mulching*	6.62	AC	@ \$ 507 = \$ 3,356.34		\$ 3,356.34 *
Permanent Erosion Control Blanket*		SY	@ \$ 6 = \$		\$ - *
Temporary Erosion Control Blanket		SY	@ \$ 3 = \$		\$ - *
Vehicle Tracking Control	2.00	EA	@ \$ 1625 = \$ 3,250.00		\$ 3,250.00
Safety Fence		LF	@ \$ 3 = \$		\$ -
Silt Fence	5,586.00	LF	@ \$ 4 = \$ 22,344.00		\$ 22,344.00
Temporary Seeding		AC	@ \$ 485 = \$		\$ -
Temporary Mulch		AC	@ \$ 507 = \$		\$ -
Erosion Bales		EA	@ \$ 21 = \$		\$ -
Erosion Logs		LF	@ \$ 6 = \$		\$ -
Rock Ditch Checks		EA	@ \$ = \$		\$ -
Inlet Protection	7.00	EA	@ \$ 153 = \$ 1,071.00		\$ 1,071.00
Sediment Basin	1.00	EA	@ \$ 1625 = \$ 1,625.00		\$ 1,625.00
Concrete Washout Basin	1.00	EA	@ \$ 776 = \$ 776.00		\$ 776.00
Rock Sock	2.00	EA	@ \$ 110 = \$ 220.00		\$ 220.00
Sediment Control Logs	260.00	LF	@ \$ 3 = \$ 715.00		\$ 715.00
Temporary Slope Drain	1.00	EA	@ \$ 750 = \$ 750.00		\$ 750.00
Stabilized Staging Area	1,110.00	SY	@ \$ 2 = \$ 2,220.00		\$ 2,220.00
Rough Cut Street Control	3,930.00	LF	@ \$ 2 = \$ 7,860.00		\$ 7,860.00
* Subject to defect warranty financial assurance. DO NOT ENTER MORE THAN 80% COMPLETE. A minimum of 20% to be retained up to preliminary acceptance process.					
<b>Section 1 Subtotal</b>				\$ 579,540.18	\$ 579,540.18

Section 2 - Public Improvements**	Quantity	Units	Price	% Complete	Remaining
<b>- Roadway Improvements</b>					
Construction Traffic Control		LS	@ \$ 500 = \$		\$ - *
Aggregate Base Course		Tons	@ \$ 18 = \$		\$ - *
Asphalt Pavement		Tons	@ \$ 65 = \$		\$ - *
Raised Median, Paved		SF	@ \$ 7 = \$		\$ - *
Electrical Conduit, Size =		LF	@ \$ 14 = \$		\$ - *
Traffic Signal, complete intersection		EA	@ \$ 250000 = \$		\$ - *
Regulatory Sign		EA	@ \$ 100 = \$		\$ - *
Advisory Sign		EA	@ \$ 100 = \$		\$ - *
Guide/Street Name Sign		EA	@ \$ 75 = \$		\$ - *
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)		LF	@ \$ 21 = \$		\$ - *
Curb and Gutter, Type A (6" Vertical)		LF	@ \$ 16 = \$		\$ - *
Curb and Gutter, Type B (Median)		LF	@ \$ 13 = \$		\$ - *
Pedestrian Ramp		SY	@ \$ 108 = \$		\$ - *
Cross Pan		SY	@ \$ 53 = \$		\$ - *
Concrete Sidewalk (5" Thick, Within Subdivision)		SY	@ \$ 30 = \$		\$ - *
Concrete Sidewalk (4" Thick, Along Meadowbrook Pkwy)		SY	@ \$ 24 = \$		\$ - *

Curb Chase		EA	@	\$ 1300	=	\$	\$ -	*
Guardrail Type 3 (W-Beam)		LF	@	\$ 18	=	\$	\$ -	*
Guardrail Type 7 (Concrete)		LF	@	\$ 67	=	\$	\$ -	*
Guardrail End Anchorage		EA	@	\$ 1978	=	\$	\$ -	*
Guardrail Impact Attenuator		EA	@	\$ 3564	=	\$	\$ -	*
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		LF	@	\$ 69	=	\$	\$ -	*
24" Reinforced Concrete Pipe		LF	@	\$ 84	=	\$	\$ -	*
30" Reinforced Concrete Pipe		LF	@	\$ 94	=	\$	\$ -	*
36" Reinforced Concrete Pipe		LF	@	\$ 124	=	\$	\$ -	*
42" Reinforced Concrete Pipe		LF	@	\$ 134	=	\$	\$ -	*
48" Reinforced Concrete Pipe		LF	@	\$ 178	=	\$	\$ -	*
54" Reinforced Concrete Pipe		LF	@	\$ 182	=	\$	\$ -	*
60" Reinforced Concrete Pipe		LF	@	\$ 216	=	\$	\$ -	*
66" Reinforced Concrete Pipe		LF	@	\$ 263	=	\$	\$ -	*
72" Reinforced Concrete Pipe		LF	@	\$ 283	=	\$	\$ -	*
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	†18"	EA	@	\$ 400	=	\$	\$ -	*
24" Flared End Section (FES) RCP	†24"	EA	@	\$ 900	=	\$	\$ -	*
36" Flared End Section (FES) CSP	†36"	EA	@	\$ 1100	=	\$	\$ -	*
End Treatment- Headwall		EA	@	\$	=	\$	\$ -	*
End Treatment- Wingwall		EA	@	\$	=	\$	\$ -	*
End Treatment - Cutoff Wall		EA	@	\$ 500	=	\$	\$ -	*
Curb Inlet (Type R) L=5', Depth < 5 feet		EA	@	\$ 3791	=	\$	\$ -	*
Curb Inlet (Type R) L=5', 5'-10' Depth		EA	@	\$ 5044	=	\$	\$ -	*
Curb Inlet (Type R) L =5' , 10'-15' Depth		EA	@	\$ 6027	=	\$	\$ -	*
Curb Inlet (Type R) L =10' , Depth < 5 feet		EA	@	\$ 5528	=	\$	\$ -	*
Curb Inlet (Type R) L =10' , 5'-10' Depth		EA	@	\$ 6694	=	\$	\$ -	*
Curb Inlet (Type R) L =10' , 10'-15' Depth		EA	@	\$ 7500	=	\$	\$ -	*
Curb Inlet (Type R) L =15' , Depth < 5 feet		EA	@	\$ 7923	=	\$	\$ -	*
Curb Inlet (Type R) L =15' , 5'-10' Depth		EA	@	\$ 8000	=	\$	\$ -	*
Curb Inlet (Type R) L =15' , 10'-15' Depth		EA	@	\$ 8800	=	\$	\$ -	*
Curb Inlet (Type R) L =20' , Depth < 5 feet		EA	@	\$ 8000	=	\$	\$ -	*
Curb Inlet (Type R) L =20' , 5'-10' Depth		EA	@	\$ 8830	=	\$	\$ -	*
Curb Inlet (Type R) L = 6' , Depth < 5'		EA	@	\$ 4500	=	\$	\$ -	*

Curb Inlet (Type R) L = _____' - _____' Depth		EA	@	\$	=	\$	\$	-
Grated Inlet (Type C), < 5' deep		EA	@	\$ 3270	=	\$	\$	-
Grated Inlet (Type D), < 5' deep		EA	@	\$ 3908	=	\$	\$	-
Storm Sewer Manhole, Box Base, Depth < 15 feet		EA	@	\$ 8592	=	\$	\$	-
Storm Sewer Manhole, Slab Base, Depth < 15 feet		EA	@	\$ 4575	=	\$	\$	-
Geotextile (Erosion Control)		SY	@	\$ 5	=	\$	\$	-
Rip Rap, d50 Size from 6" to 24"		CY	@	\$ 98	=	\$	\$	-
30" (B30) Grouted Boulders	1,448.00	CY	@	\$ 155	=	\$ 224,440.00	\$	224,440.00
36" (B36) Grouted Boulders	117.00	CY	@	\$ 165	=	\$ 19,305.00	\$	19,305.00
30" to 48" (B30 to B48) Grouted Feature Boulders	128.00	CY	@	\$ 190	=	\$ 24,320.00	\$	24,320.00
30" to 48" (B30 to B48) UngROUTed Feature Boulders	85.00	CY	@	\$ 130	=	\$ 11,050.00	\$	11,050.00
Rip Rap, Grouted		CY	@	\$ 215	=	\$	\$	-
Type L Soil Riprap (d50 = 9")	2,142.00	CY	@	\$ 60	=	\$ 128,520.00	\$	128,520.00
Type M Soil Riprap (d50 = 12")	2,039.00	CY	@	\$ 70	=	\$ 142,730.00	\$	142,730.00
Type H Soil Riprap (d50 = 18")	2,032.00	CY	@	\$ 80	=	\$ 162,560.00	\$	162,560.00
Steel Sheetpile Cutoff (PZ 22)	3,626.00	SF	@	\$ 25	=	\$ 90,650.00	\$	90,650.00
Sheetpile Concrete Cap	515.00	LF	@	\$ 20	=	\$ 10,300.00	\$	10,300.00
Drainage Channel Construction, Size ( W x H )		LF	@	\$	=	\$	\$	-
Channel Lining, Concrete		CY	@	\$ 450	=	\$	\$	-
Channel Lining, Rip Rap		CY	@	\$ 98	=	\$	\$	-
Channel Lining, Grass		AC	@	\$ 1287	=	\$	\$	-
Channel Lining, Other Stabilization		SY	@	\$ 3	=	\$	\$	-
			@	\$	=	\$	\$	-

\* Subject to defect warranty financial assurance. DO NOT ENTER MORE THAN 80% COMPLETE. A minimum of 20% to be retained up to preliminary acceptance process. † For flared end sections, multiply pipe LF cost by 6

= \$ 813,875.00      813,875.00 \*\*  
Section 2 Subtotal      \$

Section 3 - Common Development Improvements (Private or District)***	Quantity	Units	Price	% Complete	Remaining
<b>- Roadway Improvements</b>					
(Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County)		@	\$		\$ -
		@	\$		\$ -
		@	\$		\$ -
		@	\$		\$ -
		@	\$		\$ -
		@	\$		\$ -
<b>- Storm Drain Improvements</b>					
(Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County)		@	\$		\$ -
		@	\$		\$ -
		@	\$		\$ -
Channel Lining, Concrete (Low Flow Channel)		CY	\$ 450		\$ -
Presedimentation Forebay		EA	\$ 5500		\$ -
Water Quality Outlet Structure		EA	\$ 8000		\$ -
Emergency Spillway (Cutoff Wall)		CY	\$ 450		\$ -
Gravel Maintenance Access Trail		SY	\$ 20		\$ -
Type II Bedding (Low Flow Channel)		CY	\$ 35		\$ -
24" Reinforced Concrete Pipe		LF	\$ 84		\$ -
24" Flared End Section (FES) RCP      †24"		EA	\$ 900		\$ -
<b>- Water System Improvements</b>					
Water Main Pipe (PVC), Size 8"		LF	\$ 80		\$ -
Water Main Pipe (PVC), Size 12"		LF	\$ 105		\$ -
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 110		\$ -
Gate Valves, 8"		EA	\$ 1500		\$ -
Valves, 12"		EA	\$ 2400		\$ -
Fire Hydrant Assembly w/ all valves		EA	\$ 6430		\$ -
Water Service Line Installation, including lap and valves		EA	\$ 1253		\$ -
Fire Cistern Installation, complete		EA	\$		\$ -

**- Sanitary Sewer Improvements**

Sewer Main Pipe (PVC), Size 8"	LF	@	\$ 75	=	\$	\$ -
Sewer Main Pipe (PVC), Size 18"	LF	@	\$ 115	=	\$	\$ -
Sanitary Sewer Manhole, Depth < 15 feet	EA	@	\$ 4575	=	\$	\$ -
Sanitary Service Line Installation, complete	EA	@	\$ 1516	=	\$	\$ -
Sanitary Sewer Lift Station, complete	EA	@	\$	=	\$	\$ -
Gravel Maintenance Access Trail	SY	@	\$ 20	=	\$	\$ -

**- 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 = \$ \_\_\_\_\_

**Financial Assurance Totals**

As-built drawings - (FILL IN IF THERE ARE ANY PUBLICLY-MAINTAINED IMPROVEMENTS) \$ \$5,500

( Inc. survey to verify detention pond volumes.) **Total Construction Financial Assurance** \$1,398,915.18

(Sum of all section subtotals)

**Total Remaining Construction Financial Assurance** 1,398,915.18

(Sum of all section totals less credit for items complete)

**Total Defect Warranty Financial Assurance** \$270,516.84

(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 cost for the work as shown on the approved Construction Drawings associated with the Project.

Engineer

Date



Approved by Owner / Applicant

Date

8-2-17

Approved by El Paso County Engineer / ECM Administrator

Date