

# 2016 Financial Assurance Estimate Form

6/13/2016

<b>Project Information</b>	
<b>Meadowbrook Crossing</b>	<b>8/22/2017</b>
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	1.00	LS @	\$ 500	= \$ 500.00	\$ 500.00 *
Aggregate Base Course	4,718.00	Tons @	\$ 18	= \$ 84,924.00	\$ 84,924.00 *
Asphalt Pavement	2,875.00	Tons @	\$ 65	= \$ 186,875.00	\$ 186,875.00 *
Raised Median, Paved		SF @	\$ 7	= \$	\$ - *
Electrical Conduit, Size =		LF @	\$ 14	= \$	\$ - *
Traffic Signal, complete Intersection		EA @	\$ 250000	= \$	\$ - *
Regulatory Sign	7.00	EA @	\$ 100	= \$ 700.00	\$ 700.00 *
Advisory Sign		EA @	\$ 100	= \$	\$ - *
Guide/Street Name Sign	6.00	EA @	\$ 75	= \$ 450.00	\$ 450.00 *
Epoxy Pavement Marking	1,286.00	SF @	\$ 12	= \$ 15,432.00	\$ 15,432.00 *
Thermoplastic Pavement Marking	16.00	SF @	\$ 22	= \$ 352.00	\$ 352.00 *
Barricade - Type 3		EA @	\$ 115	= \$	\$ - *
Delineator (Type I)		EA @	\$ 21	= \$	\$ - *
Curb and Gutter, Type C (Ramp)	6,272.00	LF @	\$ 21	= \$ 131,712.00	\$ 131,712.00 *
Curb and Gutter, Type A (6" Vertical)	913.00	LF @	\$ 16	= \$ 14,608.00	\$ 14,608.00 *
Curb and Gutter, Type B (Median)		LF @	\$ 13	= \$	\$ - *
Pedestrian Ramp	148.00	SY @	\$ 108	= \$ 15,984.00	\$ 15,984.00 *
Cross Pan	345.00	SY @	\$ 53	= \$ 18,285.00	\$ 18,285.00 *
Concrete Sidewalk (5" Thick, Within Subdivision)	4,076.00	SY @	\$ 30	= \$ 122,280.00	\$ 122,280.00 *
Concrete Sidewalk (4" Thick, Along Meadowbrook Pkwy)	500.00	SY @	\$ 24	= \$ 12,000.00	\$ 12,000.00 *
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	=	\$		\$	-	*
<b>- Storm Drain Improvements</b>											
Concrete Box Culvert (M Standard), Size ( W x H )		LF	@	\$		=	\$		\$	-	*
Reinforced Concrete Pipe (RCP)	Size	LF	@	\$		=	\$		\$	-	*
18" Reinforced Concrete Pipe	80.00	LF	@	\$	69	=	\$	5,520.00	\$	5,520.00	*
24" Reinforced Concrete Pipe	256.00	LF	@	\$	84	=	\$	21,504.00	\$	21,504.00	*
30" Reinforced Concrete Pipe	1,038.00	LF	@	\$	94	=	\$	97,572.00	\$	97,572.00	*
36" Reinforced Concrete Pipe	188.00	LF	@	\$	124	=	\$	23,312.00	\$	23,312.00	*
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	=	\$	1,100.00	\$	1,100.00	*
End Treatment- Headwall		EA	@	\$		=	\$		\$	-	*
End Treatment- Wingwall		EA	@	\$		=	\$		\$	-	*
End Treatment - Cutoff Wall	1.00	EA	@	\$	500	=	\$	500.00	\$	500.00	*
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	2.00	EA	@	\$	5528	=	\$	11,056.00	\$	11,056.00	*
Curb Inlet (Type R) L = 10' , 5'-10' Depth	2.00	EA	@	\$	6694	=	\$	13,388.00	\$	13,388.00	*
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	2.00	EA	@	\$	8830	=	\$	17,660.00	\$	17,660.00	*
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							
						1,609,589.00	1,609,589.00 **
<b>Section 2 Subtotal</b>					\$		

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)	10.00	CY	@ \$ 450	=	\$ 4,500.00	\$ 4,500.00
Presedimentation Forebay	1.00	EA	@ \$ 5500	=	\$ 5,500.00	\$ 5,500.00
Water Quality Outlet Structure	1.00	EA	@ \$ 8000	=	\$ 8,000.00	\$ 8,000.00
Emergency Spillway (Cutoff Wall)	3.00	CY	@ \$ 450	=	\$ 1,350.00	\$ 1,350.00
Gravel Maintenance Access Trail	243.00	SY	@ \$ 20	=	\$ 4,860.00	\$ 4,860.00
Type II Bedding (Low Flow Channel)	15.00	CY	@ \$ 35	=	\$ 525.00	\$ 525.00
24" Reinforced Concrete Pipe	40.00	LF	@ \$ 84	=	\$ 3,360.00	\$ 3,360.00
24" Flared End Section (FES) RCP †24"	1.00	EA	@ \$ 900	=	\$ 900.00	\$ 900.00
<b>- Water System Improvements</b>						
Water Main Pipe (PVC), Size 8"	2,894.00	LF	@ \$ 80	=	\$ 231,520.00	\$ 231,520.00
Water Main Pipe (PVC), Size 12"	1,395.00	LF	@ \$ 105	=	\$ 146,475.00	\$ 146,475.00
Water Main Pipe (Ductile Iron), Size 8"		LF	@ \$ 110	=	\$	\$ -
Gate Valves, 8"	24.00	EA	@ \$ 1500	=	\$ 36,000.00	\$ 36,000.00
Valves, 12"	18.00	EA	@ \$ 2400	=	\$ 43,200.00	\$ 43,200.00
Fire Hydrant Assembly w/ all valves	10.00	EA	@ \$ 6430	=	\$ 64,300.00	\$ 64,300.00
Water Service Line Installation, including tap and valves	115.00	EA	@ \$ 1253	=	\$ 144,095.00	\$ 144,095.00
Fire Cistem Installation, complete		EA	@ \$	=	\$	\$ -
<b>- Sanitary Sewer Improvements</b>						
Sewer Main Pipe (PVC), Size 8"	3,373.00	LF	@ \$ 75	=	\$ 252,975.00	\$ 252,975.00
Sewer Main Pipe (PVC), Size 18"	1,805.00	LF	@ \$ 115	=	\$ 207,575.00	\$ 207,575.00
Sanitary Sewer Manhole, Depth < 15 feet	18.00	EA	@ \$ 4575	=	\$ 82,350.00	\$ 82,350.00
Sanitary Service Line Installation, complete	114.00	EA	@ \$ 1516	=	\$ 172,824.00	\$ 172,824.00
Sanitary Sewer Lift Station, complete		EA	@ \$	=	\$	\$ -
Gravel Maintenance Access Trail	2,325.00	SY	@ \$ 20	=	\$ 46,500.00	\$ 46,500.00

<b>- Landscaping (If Applicable)</b> (List landscaping line items and cost - usually only in case of subdivision specific condition of approval, or PUD)		EA	@	\$	=	\$	=	\$
_____		EA	@	\$	=	\$	=	\$ -
_____		EA	@	\$	=	\$	=	\$ -
_____		EA	@	\$	=	\$	=	\$ -
_____		EA	@	\$	=	\$	=	\$ -
_____		EA	@	\$	=	\$	=	\$ -
***items in this section are not subject to defect warranty financial assurance								
<b>Section 3 Subtotal</b>					=	\$	1,456,809.00	1,456,809.00

<b>Financial Assurance Totals</b>			
As-built drawings - (FILL IN IF THERE ARE ANY PUBLICLY-MAINTAINED IMPROVEMENTS)		\$	<u>\$5,500</u>
( Inc. survey to verify detention pond volumes.)	<b>Total Construction Financial Assurance</b>		<b><u>\$3,651,438.18</u></b>
	(Sum of all section subtotals)		
	<b>Total Remaining Construction Financial Assurance</b>		<b><u>3,651,438.18</u></b>
	(Sum of all section totals less credit for items complete)		
	<b>Total Defect Warranty Financial Assurance</b>		<b><u>\$429,659.64</u></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 cost for the work as shown on the approved Construction Drawings associated with the Project.



9/6/17  
 \_\_\_\_\_  
 Engineer Date

Approved by Owner / Applicant  
 \_\_\_\_\_  
 Approved by El Paso County Engineer / ECM Administrator

9-6-17

Approved

By: Jennifer Irvine, County Engineer

Date: 09/13/2017 Date

El Paso County Department of Public Works