2016 Financial Assurance Estimate Form

6/13/2016

Project Information

Meadowbrook Crossing - Overlot Grading and EC and Channel Improvements
Project Name

7/25/2017
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.				**Section 1 Subtotal**	=	$ 579,540.18		$ 579,540.18	

Section 2 - Public Improvements**	Quantity	Units		Price			% Complete	Remaining	
- Roadway Improvements									
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	@	$	6800	=	$	$ -	*
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**	
- Roadway Improvements									
(Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County)			@	$	=	$		$ -	
			@	$	=	$		$ -	
			@	$	=	$		$ -	
			@	$	=	$		$ -	
			@	$	=	$		$ -	
			@	$	=	$		$ -	
- Storm Drain Improvements									
(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	=	$		$ -	
- Water System Improvements									
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 tap 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 costs for the work as shown on the approved Construction Drawings associated with the Project.

Engineer — Date

8-2-17

Approved by Owner / Applicant — Date

Approved by El Paso County Engineer / ECM Administrator — Date

Approved

By:Jennifer Irvine, County Engineer
Date:08/22/2017

El Paso County Department of Public Works