

2016 Financial Assurance
Estimate Form

6/13/2016

Project Information

Meadowbrook Crossing

8/22/2017

Project Name

Date

Section 1 - Grading and Erosion Control BMPs

	Quantity	Units	Price		% Complete	Remaining
Earthwork* - FB	106,300.00	CY	@ \$ 5	= \$ 531,500.00	80%	\$ 106,300.00
Permanent Seeding* (inc. noxious weed mgmt.)	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	@ \$ 8	= \$ -		\$ -
Temporary Erosion Control Blanket		SY	@ \$ 3	= \$ -		\$ -
Vehicle Tracking Control	2.00	EA	@ \$ 1625	= \$ 3,250.00	100%	\$ 0.00
Safety Fence		LF	@ \$ 3	= \$ -		\$ -
SN Fence	5,586.00	LF	@ \$ 4	= \$ 22,344.00	100%	\$ 0.00
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	250.00	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
				Section 1 Subtotal		\$ 579,540.18
						\$ 128,746.18

Section 2 - Public Improvements**

- Roadway Improvements

	Quantity	Units	Price		% Complete	Remaining
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	@ \$ 250,000	= \$ -		\$ -
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	= \$ -		\$ -
Deflector (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 (8" Vertical)	913.00	LF	@ \$ 16	= \$ 14,608.00		\$ 14,608.00
Curb and Gutter, Type B (Median)		LF	@ \$ 13	= \$ -		\$ -
Pedestrian Ramp	148.00	SY	@ \$ 109	= \$ 15,984.00		\$ 15,984.00
Cross Pan	345.00	SY	@ \$ 53	= \$ 18,285.00		\$ 18,285.00
Concrete Sidewalk (6" 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	⊙	\$ 3584	=	\$		\$
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	80.00	LF	⊙	\$ 60	=	\$ 5,520.00	80%	\$ 1,104.00
24" Reinforced Concrete Pipe	256.00	LF	⊙	\$ 84	=	\$ 21,504.00	80%	\$ 4,300.80
30" Reinforced Concrete Pipe	1,038.00	LF	⊙	\$ 94	=	\$ 97,572.00	80%	\$ 19,514.40
36" Reinforced Concrete Pipe	188.00	LF	⊙	\$ 124	=	\$ 23,312.00	80%	\$ 4,662.40
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	⊙	\$ 98	=	\$		\$
30" Corrugated Steel Pipe		LF	⊙	\$ 101	=	\$		\$
36" Corrugated Steel Pipe		LF	⊙	\$ 138	=	\$		\$
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" 1.00	EA	⊙	\$ 1100	=	\$ 1,100.00	80%	\$ 220.00
End Treatment - Headwall		EA	⊙	\$	=	\$		\$
End Treatment - Wingwall		EA	⊙	\$	=	\$		\$
End Treatment - Cutoff Wall	1.00	EA	⊙	\$ 500	=	\$ 500.00	80%	\$ 100.00
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	80%	\$ 2,211.20
Curb Inlet (Type R) L=10', 5'-10' Depth	2.00	EA	⊙	\$ 6894	=	\$ 13,388.00	80%	\$ 2,677.60
Curb Inlet (Type R) L=10', 10'-15' Depth		EA	⊙	\$ 7600	=	\$		\$
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	80%	\$ 3,532.00
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	⊙	\$ 8	=	\$		\$
Rip Rap, #50 Size from 6" to 24"		CY	⊙	\$ 98	=	\$		\$
30" (B30) Grouted Boulders	1,448.00	CY	⊙	\$ 155	=	\$ 224,440.00	80%	\$ 44,888.00
36" (B36) Grouted Boulders	117.00	CY	⊙	\$ 165	=	\$ 19,305.00	80%	\$ 3,861.00
30" to 48" (B30 to B48) Grouted Feature Boulders	128.00	CY	⊙	\$ 190	=	\$ 24,320.00	80%	\$ 4,864.00

MZ

30" to 48" (B30 to B48) Ungrounded Feature Boulders	85.00	CY	⊕	\$ 130	=	\$ 11,050.00	80%	\$ 2,210.00
Rip Rap Grouted		CY	⊕	\$ 215	=	\$		\$
Type L Soil Riprap (d50 = 9")	2,142.00	CY	⊕	\$ 60	=	\$ 128,520.00	80%	\$ 25,704.00
Type M Soil Riprap (d50 = 12")	2,039.00	CY	⊕	\$ 70	=	\$ 142,730.00	80%	\$ 28,546.00
Type H Soil Riprap (d50 = 18")	2,032.00	CY	⊕	\$ 80	=	\$ 162,560.00	80%	\$ 32,512.00
Steel Sheetpile Cutoff (PZ 22)	3,626.00	SF	⊕	\$ 25	=	\$ 90,650.00	80%	\$ 18,130.00
Sheetpile Concrete Cap	515.00	LF	⊕	\$ 20	=	\$ 10,300.00	80%	\$ 2,060.00
Drainage Channel Construction, Size (W x H)		LF	⊕	\$	=	\$		\$
Channel Lining, Concrete		CY	⊕	\$ 450	=	\$		\$
Channel Lining, Rip Rap		CY	⊕	\$ 98	=	\$		\$
Channel Lining, Grass		AC	⊕	\$ 1297	=	\$		\$
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

Section 2 Subtotal \$ 1,609,589.00 \$ 805,199.40

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)

	⊕	\$		\$				
	⊕	\$		\$				
	⊕	\$		\$				
Channel Lining, Concrete (Low Flow Channel)	10.00	CY	⊕	\$ 450	=	\$ 4,500.00	100%	\$ 0.00
Preaerimentation Forebay	1.00	EA	⊕	\$ 5500	=	\$ 5,500.00	100%	\$ 0.00
Water Quality Outlet Structure	1.00	EA	⊕	\$ 8000	=	\$ 8,000.00	100%	\$ 0.00
Emergency Spillway (Cutoff Wall)	3.00	CY	⊕	\$ 450	=	\$ 1,350.00	100%	\$ 0.00
Gravel Maintenance Access Trail	243.00	SY	⊕	\$ 20	=	\$ 4,860.00	100%	\$ 0.00
Type II Bedding (Low Flow Channel)	15.00	CY	⊕	\$ 35	=	\$ 525.00	100%	\$ 0.00
24" Reinforced Concrete Pipe	40.00	LF	⊕	\$ 84	=	\$ 3,360.00	100%	\$ 0.00
24" Flared End Section (FES) RCP	1.00	EA	⊕	\$ 900	=	\$ 900.00	100%	\$ 0.00

- Water System Improvements

Water Main Pipe (PVC), Size 8"
Water Main Pipe (PVC), Size 12"
Water Main Pipe (Ductile Iron), Size 8"
Gate Valves, 8"
Valves, 12"
Fire Hydrant Assembly w/ all valves
Water Service Line Installation, including tap and valves
Fire Cistern Installation, complete

	⊕	\$		\$				
	⊕	\$		\$				
	⊕	\$		\$				
Water Main Pipe (PVC), Size 8"	2,894.00	LF	⊕	\$ 80	=	\$ 231,520.00	100%	\$ 0.00
Water Main Pipe (PVC), Size 12"	1,395.00	LF	⊕	\$ 105	=	\$ 146,475.00	100%	\$ 0.00
Water Main Pipe (Ductile Iron), Size 8"		LF	⊕	\$ 110	=	\$		\$
Gate Valves, 8"	24.00	EA	⊕	\$ 1500	=	\$ 36,000.00	100%	\$ 0.00
Valves, 12"	18.00	EA	⊕	\$ 2400	=	\$ 43,200.00	100%	\$ 0.00
Fire Hydrant Assembly w/ all valves	10.00	EA	⊕	\$ 6430	=	\$ 64,300.00	100%	\$ 0.00
Water Service Line Installation, including tap and valves	115.00	EA	⊕	\$ 1253	=	\$ 144,095.00	100%	\$ 0.00
Fire Cistern Installation, complete		EA	⊕	\$	=	\$		\$

- Sanitary Sewer Improvements

Sewer Main Pipe (PVC), Size 8"
Sewer Main Pipe (PVC), Size 18"
Sanitary Sewer Manhole, Depth < 15 feet
Sanitary Service Line Installation, complete
Sanitary Sewer Lift Station, complete
Gravel Maintenance Access Trail

	⊕	\$		\$				
	⊕	\$		\$				
	⊕	\$		\$				
Sewer Main Pipe (PVC), Size 8"	3,373.00	LF	⊕	\$ 75	=	\$ 252,975.00	100%	\$ 0.00
Sewer Main Pipe (PVC), Size 18"	1,805.00	LF	⊕	\$ 115	=	\$ 207,575.00	100%	\$ 0.00
Sanitary Sewer Manhole, Depth < 15 feet	18.00	EA	⊕	\$ 4575	=	\$ 82,350.00	100%	\$ 0.00
Sanitary Service Line Installation, complete	134.00	EA	⊕	\$ 1516	=	\$ 172,824.00	100%	\$ 0.00
Sanitary Sewer Lift Station, complete		EA	⊕	\$	=	\$		\$
Gravel Maintenance Access Trail	2,125.00	SY	⊕	\$ 20	=	\$ 42,500.00		\$ 42,500.00

MC

- Landscaping (if Applicable)
 (List including the items and cost - usually only in case of subdivision specific condition of approval, or PUD)

EA	0	\$	=	\$	\$
EA	0	\$	=	\$	\$
EA	0	\$	=	\$	\$
EA	0	\$	=	\$	\$
EA	0	\$	=	\$	\$

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

Section 3 Subtotal = \$ 1,456,809.00 \$ 46,500.00

Financial Assurance Totals

As-built drawings - (FILL IN IF THERE ARE ANY PUBLICLY-MAINTAINED IMPROVEMENTS) \$ 55,500

(Inc. survey to verify detention pond volumes) **Total Construction Financial Assurance \$3,651,438.18**
 (Sum of all section subtotals)

Total Remaining Construction Financial Assurance \$ 985,945.58
 (Sum of all section totals less credit for items complete)

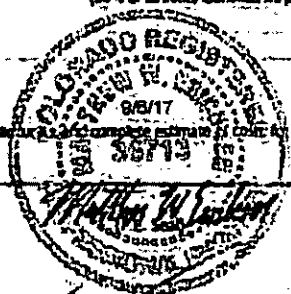
Total Defect Warranty Financial Assurance \$429,639.64

(20% of all items identified as public improvements(*) To be collected 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 Matthew W. Erickson Date 9/6/17 Matthew Erickson 2/8/2018



Approved by Owner / Applicant

Approved by El Paso County Engineer / EOM Administrator

9-6-17

Approved

By: Jennifer Irvine, County Engineer

Date: 09/13/2017 Date

El Paso County Department of Public Works