

2015 Financial Assurance Estimate Form

(Basic form)

3/17/2015

Project Information

Hannah Ridge at Feathergrass Filing No. 3

9/5/17

Project Name

Date

Section 1 - Grading and Erosion Control BMPs	Quantity	Units		Price		
Earthwork*	43,900.00	CY	@	\$ 5	=	\$ 219,500.00 *
Permanent Seeding*	24.20	AC	@	\$ 582	=	\$ 14,084.40 *
Mulching*	24.20	AC	@	\$ 507	=	\$ 12,269.40 *
Permanent Erosion Control Blanket*		SY	@	\$ 6	=	\$ *
Temporary Erosion Control Blanket	4,294.00	SY	@	\$ 3	=	\$ 12,882.00
Vehicle Tracking Control	2.00	EA	@	\$ 1,626	=	\$ 3,252.00
Safety Fence		LF	@	\$ 3	=	\$
Silt Fence		LF	@	\$ 4	=	\$
Temporary Seeding		AC	@	\$ 485	=	\$
Temporary Mulch		AC	@	\$ 507	=	\$
Erosion Bales	24.00	EA	@	\$ 21	=	\$ 504.00
Erosion Logs		LF	@	\$ 6	=	\$
Rock Ditch Checks		EA	@	\$	=	\$
Inlet Protection	4.00	EA	@	\$ 153	=	\$ 612.00
Sediment Basin		EA	@	\$ 1,625	=	\$
Concrete Washout Basin	1.00	EA	@	\$ 776	=	\$ 776.00
			@	\$	=	\$
Specified items subject to defect warranty financial assurance						
				Section 1 Subtotal	=	\$ 263,879.80

Section 2 - Public Improvements**	Quantity	Units		Price		
- Roadway Improvements						
Construction Traffic Control		LS	@	\$	=	\$
Aggregate Base Course (8" thick)	3,680.00	Tons	@	\$ 18	=	\$ 66,240.00
Asphalt Pavement (3" thick)	1,380.00	Tons	@	\$ 65	=	\$ 89,700.00
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
Advisory Sign		EA	@	\$ 100	=	\$
Guide/Street Name Sign	8.00	EA	@	\$ 75	=	\$ 600.00
Epoxy Pavement Marking		SF	@	\$ 12	=	\$
Thermoplastic Pavement Marking		SF	@	\$ 22	=	\$
Barricade - Type 3	3.00	EA	@	\$ 115	=	\$ 345.00
Delineator (Type I)		EA	@	\$ 21	=	\$
Curb and Gutter, Type C (Ramp)	2,103.00	LF	@	\$ 21	=	\$ 44,163.00
Curb and Gutter, Type A (6" Vertical)	2,314.00	LF	@	\$ 16	=	\$ 37,024.00
Curb and Gutter, Type B (Median)		LF	@	\$ 13	=	\$
Pedestrian Ramp	153.00	SY	@	\$ 108	=	\$ 16,524.00

Cross Pan	116.00	SY	@	\$	\$53	=	\$	6,148.00
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 (10 x 6)	59.00	LF	@	\$	480	=	\$	28,320.00
Reinforced Concrete Pipe (RCP) 90"	1,000.00	LF	@	\$	383	=	\$	383,000.00
18" Reinforced Concrete Pipe	223.00	LF	@	\$	\$69	=	\$	15,387.00
24" Reinforced Concrete Pipe	352.00	LF	@	\$	\$84	=	\$	29,568.00
30" Reinforced Concrete Pipe	90.00	LF	@	\$	\$94	=	\$	8,460.00
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	360.00	LF	@	\$	\$216	=	\$	77,760.00
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	=	\$	
Rock Island Culvert wing wall recondition & subgrade	4.00	EA	@	\$	\$625	=	\$	2,500.00
Rock Island Culvert Resurfacing	1,953.00	SF	@	\$	\$1.10	=	\$	2,148.30
Rock Island Culver Rip Rap Aprons	89.00	LF	@	\$	\$98	=	\$	8,722.00
Flared End Section (FES) RCP +		EA	@	\$		=	\$	
Flared End Section (FES) HDPE +		EA	@	\$		=	\$	
Flared End Section (FES) CSP +		EA	@	\$		=	\$	
End Treatment- Headwall	1.00	EA	@	\$	3,185	=	\$	3,185.00
End Treatment- Wingwall	4.00	EA	@	\$	2,740	=	\$	10,960.00
End Treatment - Cutoff Wall	1.00	EA	@	\$	300	=	\$	300.00
Curb Inlet (Type R) L=5', Depth < 5 feet	1.00	EA	@	\$	\$3,791	=	\$	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		EA	@	\$	\$5,528	=	\$	
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	1.00	EA	@	\$	\$7,923	=	\$	7,923.00
Curb Inlet (Type R) L =15' , 5'-10' Depth	2.00	EA	@	\$	\$8,000	=	\$	16,000.00
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	2.00	EA	@	\$	\$3,270	=	\$ 6,540.00
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
Storm Sewer Manhole, Slab Base, Depth < 15 feet		EA	@	\$	\$4,575	=	\$
Geotextile (Erosion Control)		SY	@	\$	\$5	=	\$
Rip Rap, d50 Size from 6" to 24"		CY	@	\$	\$98	=	\$
Rip Rap, Grouted		CY	@	\$	\$215	=	\$
Drainage Channel Construction, Size (W x H)		LF	@	\$		=	\$
Channel Lining, Concrete		CY	@	\$	\$450	=	\$
Channel Lining, Rip Rap	882.00	CY	@	\$	\$98	=	\$ 86,436.00
Channel Lining, Grass		AC	@	\$	\$1,287	=	\$
Channel Lining, Other Stabilization		SY	@	\$	\$3	=	\$
Detention Outlet Structure		EA	@	\$		=	\$
Detention Emergency Spillway		EA	@	\$		=	\$
Permanent Water Quality Facility (Describe)		EA	@	\$		=	\$
**all items this section subject to defect warranty financial assurance. † For flared end sections, multiply pipe LF cost by 6							
Section 2 Subtotal						=	\$ 977,920.30 **

Section 3 - Common Development Improvements (Private or District)***	Quantity	Units		Price		
- Roadway Improvements						
(Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County)			@	\$	=	\$
			@	\$	=	\$
			@	\$	=	\$
Concrete Sidewalk (5" thick)	2,270.00	SY	@	\$ 58	=	\$ 131,660.00
			@	\$	=	\$
			@	\$	=	\$
- Storm Drain Improvements						
(Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County)			@	\$	=	\$
			@	\$	=	\$
			@	\$	=	\$
Permanent Water Quality Facility (Sand Filter B)	1.00	EA	@	\$ 36,200	=	\$ 36,200.00
Permanent Water Quality Facility (Sand Filter E1)	1.00	EA	@	\$ 7,400	=	\$ 7,400.00
Permanent Water Quality Facility (Sand Filter E2)	1.00	EA	@	\$ 14,300	=	\$ 14,300.00
- Water System Improvements						
Water Main Pipe (PVC), Size 8"	2,480.00	LF	@	\$ 94	=	\$ 233,120.00
Water Main Pipe (Ductile Iron), Size 8"		LF	@	\$ 137	=	\$
Gate Valves, 8"	20.00	EA	@	\$ 1,852	=	\$ 37,040.00
Fire Hydrant Assembly w/ all valves	3.00	EA	@	\$ 6,430	=	\$ 19,290.00
Water Service Line Installation, inc. tap & valves	40.00	EA	@	\$ 1,253	=	\$ 50,120.00
Fire Cistern Installation, complete		EA	@	\$	=	\$
- Sanitary Sewer Improvements						
Sewer Main Pipe (PVC), Size 8"	3,205.00	LF	@	\$ 94	=	\$ 301,270.00
Sanitary Sewer Manhole, Depth < 15 feet	11.00	EA	@	\$ 4,575	=	\$ 50,325.00
Sanitary Service Line Installation, complete	39.00	EA	@	\$ 1,516	=	\$ 59,124.00
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	@	\$	=	\$
Site Wall	381.00	EA	@	\$ 80	=	\$ 30,480.00
Site Trees	17.00	EA	@	\$ 175	=	\$ 2,975.00
		EA	@	\$	=	\$
***items in this section are not subject to defect warranty financial assurance						
Section 3 Subtotal					=	\$ 973,304.00

Financial Assurance Totals

As-built drawings - (FILL IN IF THERE ARE ANY PUBLICLY-MAINTAINED IMPROVEMENTS)		\$	3,500.00
(Inc. survey to verify detention pond volumes.)	Construction Financial Assurance Total	=	<u>\$ 2,218,604.10</u>
	(Sum of all Section Totals)		
	Public Improvements Total* **	\$	1,223,774.10
	Defect Warranty Financial Assurance Total	=	<u>\$ 244,754.82</u>
	(20% of Section 2 Subtotal and 20% of identified Grading and Erosion BMP items)		

Approvals

I hereby certify that this is an accurate and complete estimate of the work as shown on the approved Construction Drawings associated with the Project.

Engineer

Date

9/21/17

Approved by Owner / Applicant

Date

9-22-17

Approved**By: Jennifer Irvine, County Engineer**

Approved by El Paso County Engineer / ECM Administrator

Date: 10/02/2017 Date

El Paso County Department of Public Works