

2015 Financial Assurance Estimate Form (with pre-plat construction)

Project Information	
REDTAIL RANCH FILING NO. 1	4/10/2019
Project Name	Date

Section 1 - Grading and Erosion Control BMPs	Quantity	Units		Price			% Complete	Remaining
Earthwork*	10,000.00	CY	@	\$ 5	=	\$ 50,000.00		\$ 50,000.00 *
Permanent Seeding* (inc. noxious weed mgmnt.)	4.50	AC	@	\$ \$582	=	\$ 2,619.00		\$ 2,619.00 *
Mulching*	4.50	AC	@	\$ \$507	=	\$ 2,281.50		\$ 2,281.50 *
Permanent Erosion Control Blanket*	9,200.00	SY	@	\$ 6	=	\$ 55,200.00		\$ 55,200.00 *
Permanent Turf Reinforcement Matting (TRM)	450.00	SY	@	\$ 12	=	\$ 5,400.00		\$ 5,400.00
Vehicle Tracking Control	2.00	EA	@	\$ \$1,625	=	\$ 3,250.00		\$ 3,250.00
Safety Fence		LF	@	\$ 3	=	\$		\$ -
Silt Fence	2,060.00	LF	@	\$ 4	=	\$ 8,240.00		\$ 8,240.00
Temporary Seeding	3.30	AC	@	\$ \$485	=	\$ 1,600.50		\$ 1,600.50
Temporary Mulch	3.30	AC	@	\$ \$507	=	\$ 1,673.10		\$ 1,673.10
Erosion Bales	32.00	EA	@	\$ \$21	=	\$ 672.00		\$ 672.00
Erosion Logs		LF	@	\$ 6	=	\$		\$ -
Rock Ditch Checks	18.00	EA	@	\$ \$98	=	\$ 1,764.00		\$ 1,764.00
Inlet Protection	4.00	EA	@	\$ \$153	=	\$ 612.00		\$ 612.00
Sediment Basin	2.00	EA	@	\$ \$1,625	=	\$ 3,250.00		\$ 3,250.00
Concrete Washout Basin	1.00	EA	@	\$ \$776	=	\$ 776.00		\$ 776.00
			@	\$	=	\$		\$ -
* 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					=	\$ 137,338.10		\$ 137,338.10

Section 2 - Public Improvements**	Quantity	Units		Price			% Complete	Remaining
- Roadway Improvements								
Construction Traffic Control	1.00	LS	@	\$ 2,000	=	\$ 2,000.00		\$ 2,000.00 *
Aggregate Base Course (Locals roads)	2,550.00	Tons	@	\$ 18	=	\$ 45,900.00		\$ 45,900.00 *
Asphalt Pavement (Local roads)	2,270.00	Tons	@	\$ 65	=	\$ 147,550.00		\$ 147,550.00 *
Raised Median, Paved		SF	@	\$ 7	=	\$		\$ - *
Electrical Conduit, Size =		LF	@	\$ \$14	=	\$		\$ - *
Traffic Signal, complete intersection		EA	@	\$ \$250,000	=	\$		\$ - *
Regulatory Sign	2.00	EA	@	\$ 100	=	\$ 200.00		\$ 200.00 *
Advisory Sign	3.00	EA	@	\$ 100	=	\$ 300.00		\$ 300.00 *
Guide/Street Name Sign	4.00	EA	@	\$ 300	=	\$ 1,200.00		\$ 1,200.00 *
Epoxy Pavement Marking		SF	@	\$ 12	=	\$		\$ - *
Thermoplastic Pavement Marking (Round-about markings)		SF	@	\$ 22	=	\$		\$ - *
Barricade - Type 3		EA	@	\$ 115	=	\$		\$ - *
Delineator (Type I)		EA	@	\$ 21	=	\$		\$ - *
Curb and Gutter, Type C (Ramp)		LF	@	\$ 21	=	\$		\$ - *
Curb and Gutter, Type E Modified (4" mountable island)		LF	@	\$ 13	=	\$		\$ - *
Curb and Gutter, Type B (Round-about entry medians)		LF	@	\$ 13	=	\$		\$ - *
Pedestrian Ramp		SY	@	\$ 108	=	\$		\$ - *
Cross Pan		SY	@	\$ 53	=	\$		\$ - *
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	=	\$	\$ -	*
Concrete Sidewalk (5" thickness)		SY	@	\$ 58	=	\$	\$ -	
- Storm Drain Improvements								
Concrete Box Culvert (M Standard), Size Dual (10 x 4)		LF	@	\$	=	\$	\$ -	*
Reinforced Concrete Pipe (RCP) Size		LF	@	\$	=	\$	\$ -	*
18" Reinforced Concrete Pipe	50.00	LF	@	\$ 69	=	\$ 3,450.00	\$ 3,450.00	*
24" Reinforced Concrete Pipe	45.00	LF	@	\$ 84	=	\$ 3,780.00	\$ 3,780.00	*
30" Reinforced Concrete Pipe	72.00	LF	@	\$ 94	=	\$ 6,768.00	\$ 6,768.00	*
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		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) 18" †	2.00	EA	@	\$ 414	=	\$ 828.00	\$ 828.00	*
Flared End Section (FES) 24"	2.00	EA	@	\$ 504	=	\$ 1,008.00	\$ 1,008.00	*
Flared End Section (FES) 30"	2.00	EA	@	\$ 564	=	\$ 1,128.00	\$ 1,128.00	*
Flared End Section (FES) 36"		EA	@	\$ 744	=	\$	\$ -	*
Flared End Section (FES) 48"		EA	@	\$ 1,068	=	\$	\$ -	*
Flared End Section (FES) CSP †		EA	@	\$	=	\$	\$ -	*
End Treatment- Headwall		EA	@	\$ 4,000	=	\$	\$ -	*
End Treatment- Wingwall		EA	@	\$ 10,000	=	\$	\$ -	*
End Treatment - Cutoff Wall		EA	@	\$ 3,000	=	\$	\$ -	*
Curb Inlet (Type R) L=5', Depth < 5 feet		EA	@	\$ 3,791	=	\$	\$ -	*
Curb Inlet (Type R) L=4', 5'-10' Depth		EA	@	\$ 5,300	=	\$	\$ -	*
Curb Inlet (Type R) L =6' , 5'-10' Depth		EA	@	\$ 6,000	=	\$	\$ -	*
Curb Inlet (Type R) L =8' , 5'-10' Depth		EA	@	\$ 7,000	=	\$	\$ -	*
Curb Inlet (Type R) L =10' , 5'-10' Depth		EA	@	\$ 7,500	=	\$	\$ -	*
Curb Inlet (Type R) L =12' , 5'-10' Depth		EA	@	\$ 8,300	=	\$	\$ -	*
Curb Inlet (Type R) L =15' , Depth < 5 feet		EA	@	\$ 7,923	=	\$	\$ -	*
Curb Inlet (Type R) L =15' , 5'-10' Depth		EA	@	\$ 8,000	=	\$	\$ -	*
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		EA	@	\$ 3,270	=	\$	\$ -	*
Grated Inlet (Type D), < 5' deep		EA	@	\$ 3,908	=	\$	\$ -	*
Storm Sewer Manhole, Box Base, Depth < 15 feet		EA	@	\$ 8,592	=	\$	\$ -	*
Storm Sewer Manhole, Slab Base, Depth < 15 feet		EA	@	\$ 4,575	=	\$	\$ -	*
Geotextile (Erosion Control) Roadside ditches		SY	@	\$ 5	=	\$	\$ -	*
Rip Rap, d50 Size from 6" to 24"	20.00	CY	@	\$ 98	=	\$ 1,960.00	\$ 1,960.00	*
Rip Rap, Grouted		CY	@	\$ 215	=	\$	\$ -	*
Drainage Channel Construction, Size (W x H)		LF	@	\$	=	\$	\$ -	*
Channel Lining, Concrete		CY	@	\$ 450	=	\$	\$ -	*
Channel Lining, Rip Rap		CY	@	\$ 98	=	\$	\$ -	*

Channel Lining, Grass		AC	@	\$ 1,287	=	\$	\$ - *
Channel Stabilization (40' wide utility crossing)		SY	@	\$ 3	=	\$	\$ - *
Detention Outlet Structure		EA	@	\$ 8,000	=	\$	\$ - *
Detention Emergency Spillway		EA	@	\$ 1,000	=	\$	\$ - *
Permanent Water Quality Facility (SAND FILTER BASIN)	2.00	EA	@	\$ 18,000	=	\$ 36,000.00	\$ 36,000.00 *
Overhead Powerpole relocation for MVEA	2.00	EA	@	\$ 15,000	=	\$ 30,000.00	\$ 30,000.00
* 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. † For flared end sections, multiply pipe LF cost by 6							
		Section 2 Subtotal			=	282,072.00	282,072.00 **
					=	\$	

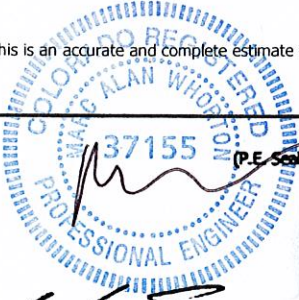
Section 3 - Common Development Improvements (Private or District)***	Quantity	Units		Price		% Complete	Remaining
- Roadway Improvements							
(Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County)		@		\$	=	\$	\$ -
		@		\$	=	\$	\$ -
		@		\$	=	\$	\$ -
- Storm Drain Improvements							
(Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County)		@		\$	=	\$	\$ -
		@		\$	=	\$	\$ -
		@		\$	=	\$	\$ -
- Water System Improvements							
Water Main Pipe (PVC), Size 8"		LF	@	\$ 94	=	\$	\$ -
Water Main Pipe (Ductile Iron), Size 8"		LF	@	\$ 137	=	\$	\$ -
Gate Valves, 8"		EA	@	\$ 1,852	=	\$	\$ -
Fire Hydrant Assembly w/ all valves		EA	@	\$ 6,430	=	\$	\$ -
Water Service Line Installation, including tap and valves		EA	@	\$ 1,253	=	\$	\$ -
Fire Cistern Installation, complete		EA	@	\$	=	\$	\$ -
- Sanitary Sewer Improvements							
Sewer Main Pipe (PVC), Size 8"		LF	@	\$ 94	=	\$	\$ -
Sanitary Sewer Manhole, Depth < 15 feet		EA	@	\$ 4,575	=	\$	\$ -
Sanitary Service Line Installation, complete		EA	@	\$ 1,516	=	\$	\$ -
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	@	\$	=	\$	\$ -
		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)	\$	\$2,000
(Inc. survey to verify detention pond volumes.)	Total Construction Financial Assurance	\$421,410.10
	(Sum of all section subtotals)	
	Total Remaining Construction Financial Assurance	421,410.10
	(Sum of all section totals less credit for items complete)	
	Total Defect Warranty Financial Assurance	\$78,434.50
(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

4/11/19

Approved by Owner / Applicant

Date

4/11/2019

Approved by El Paso County Engineer / ECM Administrator

Approved
by Elizabeth Nijamp
El Paso County Planning and Community Development
on behalf of Jennifer Irvine, County Engineer, ECM Administrator



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