

# 2015 Financial Assurance Estimate Form

(Basic form)

3/17/2015

## Project Information

Bradley Storage (PPR-17-011)

5/12/17

Project Name

Date

Section 1 - Grading and Erosion Control BMPs	Quantity	Units		Price		
Earthwork*	2,610.00	CY	@	\$ 5	=	\$ 13,050.00 *
Permanent Seeding*	2.00	AC	@	\$ 582	=	\$ 1,164.00 *
Mulching*	2.00	AC	@	\$ 507	=	\$ 1,014.00 *
Permanent Erosion Control Blanket*		SY	@	\$ 6	=	\$ *
Temporary Erosion Control Blanket		SY	@	\$ 3	=	\$
Vehicle Tracking Control	1.00	EA	@	\$ 1,625	=	\$ 1,625.00
Safety Fence		LF	@	\$ 3	=	\$
Silt Fence	1,230.00	LF	@	\$ 4	=	\$ 4,920.00
Temporary Seeding		AC	@	\$ 485	=	\$
Temporary Mulch		AC	@	\$ 507	=	\$
Erosion Bales		EA	@	\$ 21	=	\$
Erosion Logs		LF	@	\$ 6	=	\$
Rock Ditch Checks		EA	@	\$	=	\$
Inlet Protection	3.00	EA	@	\$ 153	=	\$ 459.00
Sediment Basin	1.00	EA	@	\$ 1,625	=	\$ 1,625.00
Concrete Washout Basin	1.00	EA	@	\$ 776	=	\$ 776.00
Rock Sock Curb Protectuion	3.00		@	\$ 25	=	\$ 75.00
pecified items subject to defect warranty financial assurance						
Section 1 Subtotal					=	\$ 24,708.00

Section 2 - Public Improvements**	Quantity	Units		Price		
<b>- Roadway Improvements</b>						
Construction Traffic Control	1.00	LS	@	\$ 10,000	=	\$ 10,000.00
Aggregate Base Course	596.00	Tons	@	\$ 18	=	\$ 10,728.00
Asphalt Pavement	227.00	Tons	@	\$ 65	=	\$ 14,755.00
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	1.00	EA	@	\$ 100	=	\$ 100.00
Epoxy Pavement Marking	297.00	SF	@	\$ 12	=	\$ 3,564.00
Thermoplastic Pavement Marking	212.00	SF	@	\$ 22	=	\$ 4,664.00
Barricade - Type 3	1.00	EA	@	\$ 115	=	\$ 115.00
Delineator (Type I)		EA	@	\$ 21	=	\$
Curb and Gutter, Type C (Ramp)		LF	@	\$ 21	=	\$
Curb and Gutter, Type A (6" Vertical)	640.00	LF	@	\$ 16	=	\$ 10,240.00
Curb and Gutter, Type B (Median)		LF	@	\$ 13	=	\$
Pedestrian Ramp	22.00	SY	@	\$ 108	=	\$ 2,376.00

Cross Pan	163.00	SY	@	\$	\$53	=	\$	8,639.00
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	=	\$	
Concrete Sidewalk	56.00	SY	@	\$	\$38	=	\$	2,128.00
<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		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	=	\$	
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	=	\$	
72" Corrugated Steel Pipe		LF	@	\$	\$330	=	\$	
78" Corrugated Steel Pipe		LF	@	\$	\$381	=	\$	
84" Corrugated Steel Pipe		LF	@	\$	\$432	=	\$	
Flared End Section (FES) RCP †		EA	@	\$		=	\$	
Flared End Section (FES) HDPE †		EA	@	\$		=	\$	
Flared End Section (FES) CSP †		EA	@	\$		=	\$	
End Treatment- Headwall		EA	@	\$		=	\$	
End Treatment- Wingwall		EA	@	\$		=	\$	
End Treatment - Cutoff Wall		EA	@	\$		=	\$	
Curb Inlet (Type R) L=5', Depth < 5 feet		EA	@	\$	\$3,791	=	\$	
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		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)		SY	@	\$	\$5	=	\$
Rip Rap, d50 Size from 6" to 24"		CY	@	\$	\$98	=	\$
Rip Rap, Grouted		CY	@	\$	\$215	=	\$
Drainage Channel Construction, Size ( 3 x 0.5 )	520.00	LF	@	\$	\$15	=	\$ 7,800.00
Channel Lining, Concrete		CY	@	\$	\$450	=	\$
Channel Lining, Rip Rap		CY	@	\$	\$98	=	\$
Channel Lining, Grass		AC	@	\$	\$1,287	=	\$
Channel Lining, Other Stabilization		SY	@	\$	\$3	=	\$
		EA	@	\$		=	\$
		EA	@	\$		=	\$
		CY	@	\$		=	\$
**all items this section subject to defect warranty financial assurance.    + For flared end sections, multiply pipe LF cost by 6		Section 2 Subtotal			=	\$	75,509.00 **



<b>Section 3 - Common Development Improvements (Private or District)***</b>	<b>Quantity</b>	<b>Units</b>		<b>Price</b>		
<b><u>- Roadway Improvements</u></b>						
(Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County)			@	\$	=	\$
			@	\$	=	\$
			@	\$	=	\$
			@	\$	=	\$
			@	\$	=	\$
			@	\$	=	\$
			@	\$	=	\$
<b><u>- Storm Drain Improvements</u></b>						
(Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County)			@	\$	=	\$
			@	\$	=	\$
			@	\$	=	\$
Detention Outlet Structure	1.00	EA	@	\$ 3,200	=	\$ 3,200.00
Detention Emergency Spillway	17.00	CY	@	\$ 98	=	\$ 1,666.00
Perm Water Quaility Facility - Forebay & Trickle Chnl	38.00	CY	@	\$ 250	=	\$ 9,500.00
<b><u>- Water System Improvements</u></b>						
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, inc. tap & valves	1.00	EA	@	\$ 1,253	=	\$ 1,253.00
Fire Cistern Installation, complete		EA	@	\$	=	\$
<b><u>- Sanitary Sewer Improvements</u></b>						
Sewer Main Pipe (PVC), Size 8"		LF	@	\$ 94	=	\$
Sanitary Sewer Manhole, Depth < 15 feet		EA	@	\$ 4,575	=	\$
Sanitary Service Line Installation, complete	1.00	EA	@	\$ 1,516	=	\$ 1,516.00
Sanitary Sewer Lift Station, complete		EA	@	\$	=	\$
<b><u>- Landscaping (If Applicable)</u></b>						
(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						
				<b>Section 3 Subtotal</b>	=	<b>\$ 17,135.00</b>

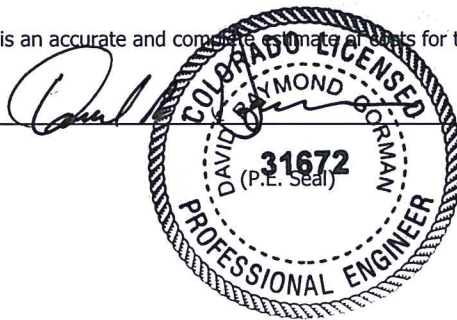
**Financial Assurance Totals**

As-built drawings - (FILL IN IF THERE ARE ANY PUBLICLY-MAINTAINED IMPROVEMENTS)		\$	3,000.00
( Inc. survey to verify detention pond volumes.)	<b>Construction Financial Assurance Total</b>	=	<b>\$ 120,352.00</b>
	(Sum of all Section Totals)		
	<b>Public Improvements Total* **</b>	\$	90,737.00
	<b>Defect Warranty Financial Assurance Total</b>	=	<b>\$ 18,147.40</b>
	(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 costs for the work as shown on the approved Construction Drawings associated with the Project.

Engineer



Date

8/25/17

Approved by Owner / Applicant

Date

8-25-17

Approved by El Paso County Engineer / ECM Administrator

**Approved**

by Jeff Rice  
El Paso County Planning and Community Development  
on behalf of Elizabeth Nijkamp, Engineering Review Manager



Date  
07/01/2019 10:18:44 AM