

Review 2: 6 inlet protection are shown on the GEC plan. Revise.

Review 3: Unresolved

**2015 Financial Assurance
Estimate Form**

(Basic form)

3/17/2015

PPR1846

Project Information	
The Townhomes at Bradley Crossroads	2/14/2019
Project Name	Date

Section 1 - Grading and Erosion Control BMPs	Quantity	Units		Price		
Earthwork*	8,385.00	CY	@	\$ 5	=	\$ 41,925.00 *
Permanent Seeding*	1.50	AC	@	\$ 582	=	\$ 873.00 *
Mulching*	1.50	AC	@	\$ 507	=	\$ 760.50 *
Permanent Erosion Control Blanket*	200.00	SY	@	\$ 6	=	\$ 1,200.00 *
Temporary Erosion Control Blanket		SY	@	\$ 3	=	\$
Vehicle Tracking Control	2.00	EA	@	\$ 1,625	=	\$ 3,250.00
Safety Fence		LF	@	\$ 3	=	\$
Silt Fence	200.00	LF	@	\$ 4	=	\$ 800.00
Temporary Seeding		AC	@	\$ 485	=	\$
Temporary Mulch		AC	@	\$ 507	=	\$
Erosion Bales		EA	@	\$ 21	=	\$
Erosion Logs	794.00	LF	@	\$ 6	=	\$ 4,764.00
Rock Ditch Checks	2.00	EA	@	\$ 300	=	\$ 600.00
Inlet Protection	4.00	EA	@	\$ 153	=	\$ 612.00
Sediment Basin	3.00	EA	@	\$ 1,625	=	\$ 4,875.00
Concrete Washout Basin	1.00	EA	@	\$ 776	=	\$ 776.00
			@	\$	=	\$
Specified items subject to defect warranty financial assurance						
						Section 1 Subtotal
						= \$ 60,435.50

Section 2 - Public Improvements**	Quantity	Units		Price		
- Roadway Improvements						
Construction Traffic Control		LS	@	\$	=	\$
Aggregate Base Course		Tons	@	\$ 18	=	\$
Asphalt Pavement		Tons	@	\$ 65	=	\$
Raised Median, Paved		SF	@	\$ 7	=	\$
Electrical Conduit, Size =		LF	@	\$ 14	=	\$
Traffic Signal, complete intersection		EA	@	\$ 250,000	=	\$
Regulatory Sign		EA	@	\$ 100	=	\$
Advisory Sign		EA	@	\$ 100	=	\$
Guide/Street Name Sign		EA	@	\$	=	\$
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	=	\$
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 (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 (W x H)		LF	@	\$		=	\$	
Channel Lining, Concrete		CY	@	\$	\$450	=	\$	
Channel Lining, Rip Rap (Ditch-Out)		CY	@	\$	\$98	=	\$	
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	=	\$	**

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	380.00	SY	@	\$ 38	=	\$ 14,440.00
			@	\$	=	\$
			@	\$	=	\$
- Storm Drain Improvements						
(Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County)			@	\$	=	\$
			@	\$	=	\$
			@	\$	=	\$
Channel Lining, Rip Rap	264.00	CY	@	\$ 98	=	\$ 25,872.00
Storm Sewer Manhole, Box Base, Depth < 15 feet	1.00	EA	@	\$ 8,592	=	\$ 8,592.00
12" Reinforced Concrete Pipe	156.00	LF	@	\$ 48	=	\$ 7,488.00
36" Reinforced Concrete Pipe	4.00	LF	@	\$ 124	=	\$ 496.00
Channel Lining, Concrete	8.00	CY	@	\$ 425	=	\$ 3,400.00
Flared End Section (FES) RCP - 24"	1.00	EA	@	\$ 325	=	\$ 325.00
Grated Inlet (Type C), < 5' deep	1.00	EA	@	\$ 3,270	=	\$ 3,270.00
- Water System Improvements						
Water Main Pipe (PVC), Size 8"		LF	@	\$ 94	=	\$
Water Main Pipe (Ductile Iron), Size 8"	1,591.00	LF	@	\$ 137	=	\$ 217,967.00
Gate Valves, 8"	22.00	EA	@	\$ 1,852	=	\$ 40,744.00
Fire Hydrant Assembly w/ all valves	3.00	EA	@	\$ 6,430	=	\$ 19,290.00
Water Service Line Installation, inc. tap & valves	78.00	EA	@	\$ 1,253	=	\$ 97,734.00
Fire Cistern Installation, complete		EA	@	\$	=	\$
- Sanitary Sewer Improvements						
Sewer Main Pipe (PVC), Size 8"	1,621.00	LF	@	\$ 94	=	\$ 152,374.00
Sanitary Sewer Manhole, Depth < 15 feet	10.00	EA	@	\$ 4,575	=	\$ 45,750.00
Sanitary Service Line Installation, complete	78.00	EA	@	\$ 1,516	=	\$ 118,248.00
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	@	\$	=	\$
		EA	@	\$	=	\$
		EA	@	\$	=	\$
		EA	@	\$	=	\$
***items in this section are not subject to defect warranty financial assurance						
				Section 3 Subtotal	=	\$ 752,720.00

Financial Assurance Totals

As-built drawings - (FILL IN IF THERE ARE ANY PUBLICLY-MAINTAINED IMPROVEMENTS)		\$
(Inc. survey to verify detention pond volumes.)	Construction Financial Assurance Total	= \$ <u>813,155.50</u>
	(Sum of all Section Totals)	
	Public Improvements Total* **	\$ 44,758.50
	Defect Warranty Financial Assurance Total	= \$ <u>8,951.70</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 shown on the approved Construction Drawings associated with the Project.

Engineer

David Raymond Gorman
 (P.E. Seal) 

Date

Approved by Owner / Applicant

[Signature]

Date

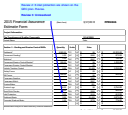
2/15/19

Approved by El Paso County Engineer / ECM Administrator

Date

Markup Summary

Daniel Torres (1)



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Review 2: 6 inlet protection are shown on the GEC plan. Revise.

Review 3: Unresolved