

Remove and replace with the correct version of the FAE (attached). FAE will be reviewed in detail on the resubmittal.



CDR-18-
XXX

2020 Financial Assurance Estimate Form

(Basic form)

SP2011

Project Information	
Crossroads Mixed Use	11/23/2020
Project Name	Date

Section 1 - Grading and Erosion Control BMPs	Quantity	Units		Price		
Earthwork*	20,000.00	CY	@	\$ 5	=	\$ 100,000.00 *
Permanent Seeding*		AC	@	\$ 582	=	\$ *
Mulching*		AC	@	\$ 507	=	\$ *
Permanent Erosion Control Blanket *		SY	@	\$ 6	=	\$ *
Temporary Erosion Control Blanket		SY	@	\$ 3	=	\$
Vehicle Tracking Control	2.00	EA	@	\$ 1,325	=	\$ 2,650.00
Safety Fence		LF	@	\$ 3	=	\$
Silt Fence	1,400.00	LF	@	\$ 3	=	\$ 4,200.00
Temporary Seeding	30.00	AC	@	\$ 525	=	\$ 15,750.00
Temporary Mulch	30.00	AC	@	\$ 525	=	\$ 15,750.00
Erosion Bales	6.00	EA	@	\$ 30	=	\$ 180.00
Erosion Logs		LF	@	\$ 6	=	\$
Rock Ditch Checks		EA	@	\$ 98	=	\$
Inlet Protection		EA	@	\$ 153	=	\$
Sediment Basin	1.00	EA	@	\$ 1,625	=	\$ 1,625.00
Concrete Washout Basin		EA	@	\$ 776	=	\$
			@	\$	=	\$
Specified items subject to defect warranty financial assurance						
Section 1 Subtotal						\$ 140,155.00

Section 2 - Public Improvements**	Quantity	Units		Price		
- Roadway Improvements						
Construction Traffic Control		LS	@	\$ 25,000	=	\$
Aggregate Base Course - 6"	9,712.00	SY	@	\$ 5	=	\$ 48,560.00
Asphalt Pavement - 4"	9,712.00	SY	@	\$ 19	=	\$ 184,528.00
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	@	\$ 200	=	\$
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)	8,456.00	LF	@	\$ 15	=	\$ 126,840.00
Curb and Gutter, Type B (Median)		LF	@	\$ 13	=	\$
Pedestrian Ramp	34.00	EA	@	\$ 750	=	\$ 25,500.00

Remove quantities in section 2 for the pre-development grading.

Cross Pan	5.00	EA	@	\$	\$2,500	=	\$	12,500.00
Sidewalks (5' Wide)	28,650.00	SF	@	\$	\$5	=	\$	143,250.00
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	91.00	LF	@	\$	\$118	=	\$	10,738.00
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) RCP	1.00	EA	@	\$	\$1,800	=	\$	1,800.00
Flared End Section (FES) CSP †		EA	@	\$		=	\$	
End Treatment- Headwall		EA	@	\$	5,000	=	\$	
End Treatment- Wingwall		EA	@	\$	9,000	=	\$	
End Treatment - Cutoff Wall		EA	@	\$	500	=	\$	
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) Modified L =15', W =5'		EA		\$	\$9,000		\$	
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"	14.00	CY	@	\$ 98	=	\$ 1,372.00
Rip Rap, Grouted		CY	@	\$ 215	=	\$
Drainage Channel Construction, Size (W x H)		LF	@	\$ 1,984,422	=	\$
Channel Lining, Concrete		CY	@	\$ 450	=	\$
Channel Lining, Rip Rap		CY	@	\$ 98	=	\$
Channel Lining, Grass		AC	@	\$ 1,287	=	\$
Channel Lining, Other Stabilization		SY	@	\$ 3	=	\$

Permanent Water Quality Facility (Describe)	1.00	EA	@	\$ 50,000	=	\$ 50,000.00
**all items this section subject to defect warranty financial assurance. † For flared end sections, multiply pipe LF cost by 6						
Section 2 Subtotal					=	\$ 605,088.00 **

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)			@	\$	=	\$
			@	\$	=	\$
			@	\$	=	\$
			@	\$	=	\$
			@	\$	=	\$
			@	\$	=	\$
- Storm Drain Improvements						
(Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County)			@	\$	=	\$
			@	\$	=	\$
			@	\$	=	\$
Sediment(s) Basin Rip Rap	27.00	CY	@	\$ 998	=	\$ 2,646.00
		EA	@	\$	=	\$
		EA	@	\$	=	\$
		EA	@	\$	=	\$
- Water System Improvements						
Water Main Pipe (PVC), Size 8"	3,224.00	LF	@	\$ 35	=	\$ 112,840.00
Water Main Pipe (PVC), Size 12"		LF	@	\$ 120	=	\$
Water Main Pipe (PVC), Size 16"		LF	@	\$ 135	=	\$
Water Main Pipe (Ductile Iron), Size 8"		LF	@	\$ 137	=	\$
Gate Valves, 8"		EA	@	\$ 1,852	=	\$
Gate Valves, 12"		EA	@	\$ 4,951	=	\$
Butterfly Valves, 16"		EA	@	\$ 6,448	=	\$
Fire Hydrant Assembly w/ all valves		EA	@	\$ 6,430	=	\$
Water Service Line Installation, inc. tap & valves		EA	@	\$ 1,253	=	\$
Fire Cistern Installation, complete		EA	@	\$	=	\$
- Sanitary Sewer Improvements						
Sewer Main Pipe (PVC), Size 8"	2,238.00	LF	@	\$ 30	=	\$ 67,140.00
Sewer Main Pipe (PVC), Size 12"		LF	@	\$ 120	=	\$
Sewer Main Pipe (PVC), Size 15"		LF	@	\$ 135	=	\$
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	@	\$	=	\$
		SF	@	\$	=	\$
		SY	@	\$	=	\$
		EA	@	\$	=	\$
***items in this section are not subject to defect warranty financial assurance						
Section 3 Subtotal					=	\$ 182,626.00

move to section 1 in the new form

submit plans for review or remove if not a part of the pre-development grading request

Note: Provide Buffer Landscape here; fencing is mentioned in LOI

noise mitigation may need to be included pending study.

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>927,869.00</u>
	(Sum of all Section Totals)	
	Public Improvements Total* **	\$ 705,088.00
	Defect Warranty Financial Assurance Total	= \$ <u>141,017.60</u>
	(20%of Section 2 Subtotal and 20% of identified Grading and Erosion BMP items)	846,105.60

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

(P.E. Seal)

Date



Approved by Owner / Applicant

Date

Approved by El Paso County Engineer / ECM Administrator

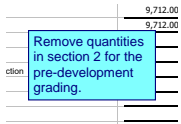
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FAE V_1 engr comments.pdf Markup Summary

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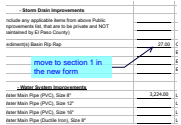


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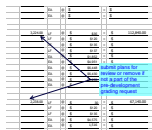
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Remove quantities in section 2 for the pre-development grading.



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move to section 1 in the new form



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submit plans for review or remove if not a part of the pre-development grading request



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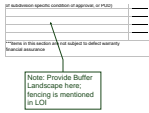
Remove and replace with the correct version of the FAE (attached). FAE will be reviewed in detail on the resubmittal.



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Note: Provide Buffer Landscape here; fencing is mentioned in LOI



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noise mitigation may need to be included pending study.