

# 2015 Financial Assurance Estimate Form

(Basic form)

3/27/18

<b>Project Information</b>	
Jackson Office Warehouse & Storage Buildings	3/27/2018
Project Name	Date

Section 1 - Grading and Erosion Control BMPs	Quantity	Units	Price		
Earthwork*	1,200.00	CY	@ \$ 5	=	\$ 6,000.00 *
Permanent Seeding*	0.30	AC	@ \$ 582	=	\$ 174.60 *
Mulching*	0.30	AC	@ \$ 507	=	\$ 152.10 *
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		LF	@ \$ 4	=	\$
Temporary Seeding		AC	@ \$ 485	=	\$
Temporary Mulch		AC	@ \$ 507	=	\$
Erosion Bales	1.00	EA	@ \$ 21	=	\$ 21.00
Erosion Logs	644.00	LF	@ \$ 6	=	\$ 3,864.00
Rock Ditch Checks		EA	@ \$	=	\$
Inlet Protection	2.00	EA	@ \$ 153	=	\$ 306.00
Sediment Basin	1.00	EA	@ \$ 1,625	=	\$ 1,625.00
Concrete Washout Basin	1.00	EA	@ \$ 776	=	\$ 776.00
		@ \$		=	\$
Specified items subject to defect warranty financial assurance					
				Section 1 Subtotal	= \$ 14,543.70

Section 2 - Public Improvements**	Quantity	Units	Price		
<b>- Roadway Improvements</b>					
Construction Traffic Control		LS	@ \$ 1,000	=	\$
Aggregate Base Course		Tons	@ \$ 18	=	\$
Asphalt Pavement		Tons	@ \$ 65	=	\$
Gravel		Tons	@ \$ 18	=	\$
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	@ \$ 177	=	\$
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	=	\$
Concrete Sidewalk		SF	@	\$	\$3	=	\$
Guardrail Type 7 (Concrete)		LF	@	\$	\$67	=	\$
Guardrail End Anchorage		EA	@	\$	\$1,978	=	\$
Guardrail Impact Attenuator		EA	@	\$	\$3,564	=	\$
Sound Barrier Fence		LF	@	\$	\$100	=	\$
<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              18"		LF	@	\$	\$45	=	\$
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) HDPE                      18"		EA	@	\$	\$450	=	\$
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	CY	@	\$	\$98	=	\$
Channel Lining, Grass	AC	@	\$	\$1,287	=	\$
Impact Stilling Basin	SY	@	\$	\$5,000	=	\$
Detention Outlet Structure	EA	@	\$	5,000	=	\$
Detention Emergency Spillway	EA	@	\$	1,500	=	\$
Permanent Water Quality Facility (Describe) SFB	EA	@	\$	3,000	=	\$
**all items this section subject to defect warranty financial assurance. † For flared end sections, multiply pipe LF cost by 6						
<b>Section 2 Subtotal</b>					=	<b>\$</b>

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Section 3 - Common Development Improvements (Private or District)***	Quantity	Units		Price			
<b>- Roadway Improvements</b>							
(Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County)			@	\$	=	\$	
			@	\$	=	\$	
			@	\$	=	\$	
			@	\$	=	\$	
			@	\$	=	\$	
			@	\$	=	\$	
<b>- Storm Drain Improvements</b>							
(Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County)			@	\$	=	\$	
			@	\$	=	\$	
			@	\$	=	\$	
	18" HDPE	15.00		\$ 45	=	\$ 675.00	
Rip Rap, d50 Size from 6" to 24"	10.00	CY	\$ 98	=	\$ 980.00		
Permanent Water Quality Facility (Describe) SFB	1.00		\$ 3,000	=	\$ 3,000.00		
<b>- Water System Improvements</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		EA	@	\$ 1,253	=	\$	
Fire Cistern Installation, complete		EA	@	\$	=	\$	
<b>- Sanitary Sewer Improvements</b>							
Sewer Main Pipe (PVC), Size 8"		LF	@	\$ 94	=	\$	
Sewer Main Pipe (PVC), Size 10"				\$ 100	=	\$	
Sanitary Sewer Manhole, Depth < 15 feet		EA	@	\$ 4,575	=	\$	
Sanitary Service Line Installation, complete		EA	@	\$ 1,516	=	\$	
Sanitary Sewer Lift Station, complete		EA	@	\$	=	\$	
<b>- Landscaping (If Applicable)</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				Section 3 Subtotal		= \$ 4,655.00	

**Financial Assurance Totals**

As-built drawings - (FILL IN IF THERE ARE ANY PUBLICLY-MAINTAINED IMPROVEMENTS)		\$	1,500.00
( Inc. survey to verify detention pond volumes.)	<b>Construction Financial Assurance Total</b>	=	<b>\$ 20,698.70</b>
	(Sum of all Section Totals)		
	<b>Public Improvements Total**</b>	\$	6,326.70
	<b>Defect Warranty Financial Assurance Total</b>	=	<b>\$ 1,265.34</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.

		8/27/18
Engineer		Date
		6/1/2018
Approved by Owner / Applicant		Date
Approved by El Paso County Engineer / ECM Administrator		Date

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



**06/26/2018 4:41:29 PM**