

2019 Financial Assurance Estimate Form
(with pre-plat construction)

SF1844
Unresolved.

Updated: 6/7/2019

PROJECT INFORMATION		
Riverbend Development - Filing 1	9/12/2019	SP187
Project Name	Date	PCD File No.

Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction) % Complete	Remaining
SECTION 1 - GRADING AND EROSION CONTROL (Construction and Permanent BMPs)							
* Earthwork							
less than 1,000; \$5,300 min		CY	\$ 8.00	=	\$ -		\$ -
1,000-5,000; \$8,000 min		CY	\$ 6.00	=	\$ -		\$ -
5,001-20,000; \$30,000 min		CY	\$ 5.00	=	\$ -		\$ -
20,001-50,000; \$100,000 min		CY	\$ 3.50	=	\$ -		\$ -
50,001-200,000; \$175,000 min	129,461	CY	\$ 2.50	=	\$ 323,652.50		\$ 323,652.50
greater than 200,000; \$500,000 min		CY	\$ 2.00	=	\$ -		\$ -
* Permanent Seeding (inc. noxious weed mgmnt.)	32	AC	\$ 800.00	=	\$ 25,600.00		\$ 25,600.00
* Mulching	32	AC	\$ 750.00	=	\$ 24,000.00		\$ 24,000.00
* Permanent Erosion Control Blanket	12,261	SY	\$ 6.00	=	\$ 73,566.00		\$ 73,566.00
* Permanent Pond/BMP Construction	9,264	CY	\$ 20.00	=	\$ 185,280.00		\$ 185,280.00
* Permanent Pond/BMP (Spillway)	1	EA	\$ 51,343.00	=	\$ 51,343.00		\$ 51,343.00
* Permanent Pond/BMP (Outlet Structure)	1	EA	\$ 15,000.00	=	\$ 15,000.00		\$ 15,000.00
Safety Fence		LF	\$ 3.00	=	\$ -		\$ -
Temporary Erosion Control Blanket		SY	\$ 3.00	=	\$ -		\$ -
Vehicle Tracking Control	1	EA	\$ 2,370.00	=	\$ 2,370.00		\$ 2,370.00
Silt Fence	2,284	LF	\$ 2.50	=	\$ 5,710.00		\$ 5,710.00
Temporary Seeding		AC	\$ 628.00	=	\$ -		\$ -
Temporary Mulch		AC	\$ 750.00	=	\$ -		\$ -
Erosion Bales		EA	\$ 25.00	=	\$ -		\$ -
Erosion Logs/Straw Waddle	245	LF	\$ 5.00	=	\$ 1,225.00		\$ 1,225.00
Rock Check Dams		EA	\$ 500.00	=	\$ -		\$ -
Inlet Protection	12	EA	\$ 167.00	=	\$ 2,004.00		\$ 2,004.00
Sediment Basin	1	EA	\$ 1,762.00	=	\$ 1,762.00		\$ 1,762.00
Concrete Washout Basin	1	EA	\$ 900.00	=	\$ 900.00		\$ 900.00
[insert items not listed but part of construction plans]				=	\$ -		\$ -
MAINTENANCE (35% of Construction BMPs)				=	\$ 4,889.85		\$ 4,889.85
Section 1 Subtotal				=	\$ 717,302.35		\$ 717,302.35
SECTION 2 - PUBLIC IMPROVEMENTS *							
ROADWAY IMPROVEMENTS							
Construction Traffic Control		LS		=	\$ -		\$ -
Aggregate Base Course (135 lbs/cf)	667	Tons	\$ 28.00	=	\$ 18,676.00		\$ 18,676.00
Aggregate Base Course (135 lbs/cf)		CY	\$ 50.00	=	\$ -		\$ -
Asphalt Pavement (3" thick)		SY	\$ 14.00	=	\$ -		\$ -
Asphalt Pavement (4" thick)		SY	\$ 19.00	=	\$ -		\$ -
Asphalt Pavement (6" thick)	8,416	SY	\$ 29.00	=	\$ 244,064.00		\$ 244,064.00
Asphalt Pavement (147 lbs/cf) _" thick		Tons	\$ 88.00	=	\$ -		\$ -
Raised Median, Paved		SF	\$ 8.00	=	\$ -		\$ -
Regulatory Sign/Advisory Sign	10	EA	\$ 300.00	=	\$ 3,000.00		\$ 3,000.00
Guide/Street Name Sign	16	EA		=	\$ -		\$ -
Epoxy Pavement Marking	189	SF	\$ 13.00	=	\$ 2,457.00		\$ 2,457.00
Thermoplastic Pavement Marking		SF	\$ 23.00	=	\$ -		\$ -
Barricade - Type 3	3	EA	\$ 200.00	=	\$ 600.00		\$ 600.00
Delineator - Type I		EA	\$ 24.00	=	\$ -		\$ -
Curb and Gutter, Type A (6" Vertical)	2,967	LF	\$ 30.00	=	\$ 89,010.00		\$ 89,010.00
Curb and Gutter, Type B (Median)		LF	\$ 30.00	=	\$ -		\$ -
Curb and Gutter, Type C (Ramp)	6,600	LF	\$ 30.00	=	\$ 198,000.00		\$ 198,000.00
4" Sidewalk (common areas only)	33,920	SY	\$ 48.00	=	\$ 1,628,160.00		\$ 1,628,160.00
5" Sidewalk		SY	\$ 60.00	=	\$ -		\$ -
6" Sidewalk		SY	\$ 72.00	=	\$ -		\$ -
8" Sidewalk		SY	\$ 96.00	=	\$ -		\$ -
Pedestrian Ramp	33	EA	\$ 1,150.00	=	\$ 37,950.00		\$ 37,950.00
Cross Pan, local (8" thick, 6' wide to include return)	505	LF	\$ 61.00	=	\$ 30,805.00		\$ 30,805.00
Cross Pan, collector (9" thick, 8' wide to include return)		LF	\$ 92.00	=	\$ -		\$ -
Curb Chase		EA	\$ 1,480.00	=	\$ -		\$ -
Guardrail Type 3 (W-Beam)		LF	\$ 48.00	=	\$ -		\$ -
Guardrail Type 7 (Concrete)		EA	\$ 2,098.00	=	\$ -		\$ -
Guardrail End Anchorage		EA	\$ 3,700.00	=	\$ -		\$ -
Guardrail Impact Attenuator		EA	\$ 3,700.00	=	\$ -		\$ -
Sound Barrier Fence (CMU block, 6' high)		LF	\$ -	=	\$ -		\$ -
Sound Barrier Fence (panels, 6' high)		LF	\$ 80.00	=	\$ -		\$ -
Electrical Conduit, Size =		LF	\$ 16.00	=	\$ -		\$ -
Traffic Signal, complete intersection		EA	\$ 425,000	=	\$ -		\$ -

update pavement
marking quantities
based on comments
in the CDs

Revise to 5" thick

Update ramp quantity
based on comments
in the CDs

Provide quantity for
cross pan along
Southmoor

PROJECT INFORMATION							
Riverbend Development - Filing 1		9/12/2019		SP187			
Project Name		Date		PCD File No.			
Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction) % Complete	Remaining
[insert items not listed but part of construction plans]				=	\$ -		\$ -
[insert items not listed but part of construction plans]				=	\$ -		\$ -
STORM DRAIN IMPROVEMENTS							
Concrete Box Culvert (M Standard), Size (W x H)		LF		=	\$ -		\$ -
15" Reinforced Concrete Pipe	61	LF	\$ 52.00	=	\$ 3,172.00		\$ 3,172.00
18" Reinforced Concrete Pipe	175	LF	\$ 65.00	=	\$ 11,375.00		\$ 11,375.00
24" Reinforced Concrete Pipe	2,455	LF	\$ 78.00	=	\$ 191,490.00		\$ 191,490.00
30" Reinforced Concrete Pipe	479	LF	\$ 97.00	=	\$ 46,463.00		\$ 46,463.00
36" Reinforced Concrete Pipe		LF	\$ 120.00	=	\$ -		\$ -
42" Reinforced Concrete Pipe	492	LF	\$ 160.00	=	\$ 78,720.00		\$ 78,720.00
48" Reinforced Concrete Pipe		LF	\$ 195.00				
54" Reinforced Concrete Pipe		LF	\$ 245.00				
60" Reinforced Concrete Pipe		LF	\$ 288.00				
66" Reinforced Concrete Pipe		LF	\$ 332.00				
72" Reinforced Concrete Pipe		LF	\$ 380.00				
18" Corrugated Steel Pipe		LF	\$ 84.00				
24" Corrugated Steel Pipe		LF	\$ 96.00				
30" Corrugated Steel Pipe		LF	\$ 122.00	=	\$ -		\$ -
36" Corrugated Steel Pipe		LF	\$ 147.00	=	\$ -		\$ -
42" Corrugated Steel Pipe		LF	\$ 168.00	=	\$ -		\$ -
48" Corrugated Steel Pipe		LF	\$ 178.00	=	\$ -		\$ -
54" Corrugated Steel Pipe		LF	\$ 260.00	=	\$ -		\$ -
60" Corrugated Steel Pipe		LF	\$ 280.00	=	\$ -		\$ -
66" Corrugated Steel Pipe		LF	\$ 340.00	=	\$ -		\$ -
72" Corrugated Steel Pipe		LF	\$ 400.00	=	\$ -		\$ -
78" Corrugated Steel Pipe		LF	\$ 460.00	=	\$ -		\$ -
84" Corrugated Steel Pipe		LF	\$ 550.00	=	\$ -		\$ -
Flared End Section (FES) RCP Size = 15" (unit cost = 6x pipe unit cost)	1	EA	\$ 312.00	=	\$ 312.00		\$ 312.00
Flared End Section (FES) RCP Size = 42" (unit cost = 6x pipe unit cost)	1	EA	\$ 390.00	=	\$ 390.00		\$ 390.00
Flared End Section (FES) CSP Size = (unit cost = 6x pipe unit cost)		EA		=	\$ -		\$ -
End Treatment- Headwall		EA		=	\$ -		\$ -
End Treatment- Wingwall		EA		=	\$ -		\$ -
End Treatment - Cutoff Wall		EA		=	\$ -		\$ -
Curb Inlet (Type R) L=5', Depth < 5'	4	EA	\$ 5,542.00	=	\$ 22,168.00		\$ 22,168.00
Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'		EA	\$ 7,188.00	=	\$ -		\$ -
Curb Inlet (Type R) L=5', 10' ≤ Depth < 15'		EA	\$ 8,345.00	=	\$ -		\$ -
Curb Inlet (Type R) L=10', Depth < 5'	7	EA	\$ 7,627.00	=	\$ 53,389.00		\$ 53,389.00
Curb Inlet (Type R) L=10', 5' ≤ Depth < 10'		EA	\$ 7,861.00	=	\$ -		\$ -
Curb Inlet (Type R) L=10', 10' ≤ Depth < 15'		EA	\$ 9,841.00	=	\$ -		\$ -
Curb Inlet (Type R) L=15', Depth < 5'	1	EA	\$ 9,918.00	=	\$ 9,918.00		\$ 9,918.00
Curb Inlet (Type R) L=15', 5' ≤ Depth < 10'		EA	\$ 10,633.00	=	\$ -		\$ -
Curb Inlet (Type R) L=15', 10' ≤ Depth < 15'		EA	\$ 11,627.00	=	\$ -		\$ -
Curb Inlet (Type R) L=20', Depth < 5'		EA	\$ 10,570.00	=	\$ -		\$ -
Curb Inlet (Type R) L=20', 5' ≤ Depth < 10'		EA	\$ 11,667.00	=	\$ -		\$ -
Grated Inlet (Type C), Depth < 5'		EA	\$ 4,640.00	=	\$ -		\$ -
Grated Inlet (Type D), Depth < 5'		EA	\$ 5,731.00	=	\$ -		\$ -
Storm Sewer Manhole, Box Base		EA	\$ 11,627.00	=	\$ -		\$ -
Storm Sewer Manhole, Slab Base	13	EA	\$ 6,395.00	=	\$ 83,135.00		\$ 83,135.00
Geotextile (Erosion Control)		SY	\$ 6.00	=	\$ -		\$ -
Rip Rap, d50 size from 6" to 24"	3,345	Tons	\$ 80.00	=	\$ 267,600.00		\$ 267,600.00
Rip Rap, Grouted		Tons	\$ 95.00	=	\$ -		\$ -
Drainage Channel Construction, Size (W x H)		LF		=	\$ -		\$ -
Drainage Channel Lining, Concrete		CY	\$ 570.00	=	\$ -		\$ -
Drainage Channel Lining, Rip Rap		CY	\$ 112.00	=	\$ -		\$ -
Drainage Channel Lining, Grass		AC	\$ 1,469.00	=	\$ -		\$ -
Drainage Channel Lining, Other Stabilization				=	\$ -		\$ -
[insert items not listed but part of construction plans]				=	\$ -		\$ -
Section 2 Subtotal				=	\$ 3,020,854.00		\$ 3,020,854.00

Update. Plans show 36", 48" and 60" pipe. Verify other quantities. Move the 15" to section III.
Will be reviewed on resubmittal.

Is this quantity for the bank stabilization? If so, move to Section 1, label as "Bank Stabilization (riprap)", add (*)

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Project Name		Date		PCD File No.			
Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)	
						% Complete	Remaining
SECTION 3 - COMMON DEVELOPMENT IMPROVEMENTS (Private or District and NOT Maintained by EPC) **							
ROADWAY IMPROVEMENTS							
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
STORM DRAIN IMPROVEMENTS (Exception: Permanent Pond/BMP shall be itemized under Section 1)							
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
WATER SYSTEM IMPROVEMENTS							
Water Main Pipe (PVC), Size 8"	5,605	LF	\$ 64.00	=	\$ 358,720.00		\$ 358,720.00
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 75.00	=	\$ -		\$ -
Gate Valves, 8"	44	EA	\$ 1,858.00	=	\$ 81,752.00		\$ 81,752.00
Fire Hydrant Assembly, w/ all valves	10	EA	\$ 6,597.00	=	\$ 65,970.00		\$ 65,970.00
Water Service Line Installation, inc. tap and valves	140	EA	\$ 1,324.00	=	\$ 185,360.00		\$ 185,360.00
Fire Cistern Installation, complete		EA		=	\$ -		\$ -
				=	\$ -		\$ -
[insert items not listed but part of construction plans]				=	\$ -		\$ -
SANITARY SEWER IMPROVEMENTS							
Sewer Main Pipe (PVC), Size 8"	6,744	LF	\$ 64.00	=	\$ 431,616.00		\$ 431,616.00
Sewer Main Pipe (PVC), Size 4" [Force Main]	1,104	LF	\$ 45.00	=	\$ 49,680.00		\$ 49,680.00
Sanitary Sewer Manhole, Depth < 15 feet	31	EA	\$ 4,386.00	=	\$ 135,966.00		\$ 135,966.00
Sanitary Service Line Installation, complete	140	EA	\$ 1,402.00	=	\$ 196,280.00		\$ 196,280.00
Sanitary Sewer Lift Station, complete		EA		=	\$ -		\$ -
				=	\$ -		\$ -
[insert items not listed but part of construction plans]				=	\$ -		\$ -
LANDSCAPING IMPROVEMENTS (For subdivision specific condition of approval, or PUD)							
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
Section 3 Subtotal				=	\$ 1,505,344.00		\$ 1,505,344.00

** - Section 3 is not subject to defect warranty requirements

PROJECT INFORMATION		
Riverbend Development - Filing 1	9/12/2019	SP187
Project Name	Date	PCD File No.

Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)	
						% Complete	Remaining
AS-BUILT PLANS (Public Improvements inc. Permanent WQCV BMPs)		LS		=	\$ -		\$ -
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS		=	\$ -		\$ -
						Total Construction Financial Assurance	
						\$ 5,243,500.35	
						(Sum of all section subtotals plus as-builts and pond/BMP certification)	
						Total Remaining Construction Financial Assurance (with Pre-Plat Construction)	
						\$ 5,243,500.35	
						(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)	
						Total Defect Warranty Financial Assurance	
						\$ 743,859.10	
						(20% of all items identified as (*). 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 Grading and Erosion Control Plan and Construction Drawings associated with the Project.

Engineer (P.E. Seal Required)

Approved by Owner / Applicant

Date

Approved by El Paso County Engineer / ECM Administrator

Date