

2021 Financial Assurance Estimate Form
(with pre-plat construction)

Updated: 12/22/2020

PROJECT INFORMATION		
Cloverleaf Filing No. 2	8/20/2021	SF-21-023
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	172,715	CY	\$ 2.50	=	\$ 431,787.50		\$ 431,787.50	
greater than 200,000; \$500,000 min		CY	\$ 2.00	=	\$ -		\$ -	
* Permanent Seeding (inc. noxious weed mgmnt.)	36	AC	\$ 828.00	=	\$ 29,808.00		\$ 29,808.00	
* Mulching	36	AC	\$ 777.00	=	\$ 27,972.00		\$ 27,972.00	
* Permanent Erosion Control Blanket	3,603	SY	\$ 6.00	=	\$ 21,618.00		\$ 21,618.00	
* Permanent Pond/BMP Construction	1,530	CY	\$ 21.00	=	\$ 32,121.68		\$ 32,121.68	
* Permanent Pond/BMP (Spillway)	4	EA	\$ 10,000.00	=	\$ 40,000.00		\$ 40,000.00	
* Permanent Pond/BMP (Outlet Structure)	4	EA	\$ 15,000.00	=	\$ 60,000.00		\$ 60,000.00	
Constuction Fence	1,959	LF	\$ 3.00	=	\$ 5,877.00		\$ 5,877.00	
Temporary Erosion Control Blanket		SY	\$ 3.00	=	\$ -		\$ -	
Vehicle Tracking Control	4	EA	\$ 2,453.00	=	\$ 9,812.00		\$ 9,812.00	
Silt Fence	6,173	LF	\$ 2.60	=	\$ 16,049.80		\$ 16,049.80	
Stabilized Staging Area	2,000	SY	\$ 3.00	=	\$ 6,000.00		\$ 6,000.00	
Temporary Seeding		AC	\$ 650.00	=	\$ -		\$ -	
Temporary Mulch		AC	\$ 777.00	=	\$ -		\$ -	
Erosion Bales	6	EA	\$ 26.00	=	\$ 156.00		\$ 156.00	
Erosion Logs/Straw Waddle	9,041	LF	\$ 5.00	=	\$ 45,205.00		\$ 45,205.00	
Rock Check Dams	6	EA	\$ 518.00	=	\$ 3,108.00		\$ 3,108.00	
Inlet Protection	22	EA	\$ 173.00	=	\$ 3,806.00		\$ 3,806.00	
Outlet Protection	6	EA	\$ 173.00	=	\$ 1,038.00		\$ 1,038.00	
Sediment Basin	5	EA	\$ 1,824.00	=	\$ 9,120.00		\$ 9,120.00	
Concrete Washout Basin	1	EA	\$ 932.00	=	\$ 932.00		\$ 932.00	
Rough Street Cut Control	81	EA	\$ 100.00	=	\$ 8,100.00		\$ 8,100.00	
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -	
MAINTENANCE (35% of Construction BMPs)					=	\$ 36,164.38		\$ 36,164.38
Section 1 Subtotal					=	\$ 788,675.36		\$ 788,675.36
SECTION 2 - PUBLIC IMPROVEMENTS *								
ROADWAY IMPROVEMENTS								
Construction Traffic Control	1	LS	\$ 5,000.00	=	\$ 5,000.00		\$ 5,000.00	
Aggregate Base Course (135 lbs/cf)		Tons	\$ 29.00	=	\$ -		\$ -	
Aggregate Base Course (135 lbs/cf)	3,978	CY	\$ 52.00	=	\$ 206,856.00		\$ 206,856.00	
Asphalt Pavement (3" thick)		SY	\$ 14.50	=	\$ -		\$ -	
Asphalt Pavement (4" thick)	18,317	SY	\$ 20.00	=	\$ 366,340.00		\$ 366,340.00	
Asphalt Pavement (6" thick)		SY	\$ 30.00	=	\$ -		\$ -	
Asphalt Pavement (147 lbs/cf) ___" thick		Tons	\$ 91.00	=	\$ -		\$ -	
Raised Median, Paved		SF	\$ 8.30	=	\$ -		\$ -	
Regulatory Sign/Advisory Sign	10	EA	\$ 311.00	=	\$ 3,110.00		\$ 3,110.00	
Guide/Street Name Sign	24	EA	\$ 300.00	=	\$ 7,200.00		\$ 7,200.00	
Epoxy Pavement Marking		SF	\$ 14.00	=	\$ -		\$ -	
Thermoplastic Pavement Marking	144	SF	\$ 24.00	=	\$ 3,456.00		\$ 3,456.00	
Barricade - Type 3		EA	\$ 207.00	=	\$ -		\$ -	
Delineator - Type I		EA	\$ 25.00	=	\$ -		\$ -	
Curb and Gutter, Type A (6" Vertical)		LF	\$ 31.00	=	\$ -		\$ -	
Curb and Gutter, Type B (Median)		LF	\$ 31.00	=	\$ -		\$ -	
Curb and Gutter, Type C (Ramp)	9,961	LF	\$ 31.00	=	\$ 308,791.00		\$ 308,791.00	
4" Sidewalk (common areas only)		SY	\$ 50.00	=	\$ -		\$ -	
5" Sidewalk	5,506	SY	\$ 62.00	=	\$ 341,372.00		\$ 341,372.00	
6" Sidewalk		SY	\$ 75.00	=	\$ -		\$ -	
8" Sidewalk		SY	\$ 99.00	=	\$ -		\$ -	
Gravel Pedestrian Trail	410	SY	\$ 15.00	=	\$ 6,150.00		\$ 6,150.00	
Pedestrian Ramp	30	EA	\$ 1,190.00	=	\$ 35,700.00		\$ 35,700.00	
Cross Pan, local (8" thick, 6' wide to include return)	75	LF	\$ 63.00	=	\$ 4,725.00		\$ 4,725.00	
Cross Pan, collector (9" thick, 8' wide to include return)		LF	\$ 95.00	=	\$ -		\$ -	
Curb Chase		EA	\$ 1,532.00	=	\$ -		\$ -	
Guardrail Type 3 (W-Beam)		LF	\$ 51.00	=	\$ -		\$ -	
Guardrail Type 7 (Concrete)		LF	\$ 75.00	=	\$ -		\$ -	
Guardrail End Anchorage		EA	\$ 2,172.00	=	\$ -		\$ -	
Guardrail Impact Attenuator		EA	\$ 3,899.00	=	\$ -		\$ -	
Sound Barrier Fence (CMU block, 6' high)		LF	\$ 81.00	=	\$ -		\$ -	
Sound Barrier Fence (panels, 6' high)		LF	\$ 83.00	=	\$ -		\$ -	
Electrical Conduit, Size =		LF	\$ 17.00	=	\$ -		\$ -	
Traffic Signal, complete intersection		EA	\$ 439,875	=	\$ -		\$ -	
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -	

PROJECT INFORMATION

Cloverleaf Filing No. 2	8/20/2021	SF-21-023
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Description	Quantity	Units	Unit Cost	Total	(with Pre-Plat Construction)		
					% Complete	Remaining	
STORM DRAIN IMPROVEMENTS							
Concrete Box Culvert (M Standard), Size (W x H)		LF	=	\$ -		\$ -	
18" Reinforced Concrete Pipe	832	LF	\$ 67.00	= \$ 55,744.00		\$ 55,744.00	
24" Reinforced Concrete Pipe	162	LF	\$ 81.00	= \$ 13,122.00		\$ 13,122.00	
30" Reinforced Concrete Pipe	1,134	LF	\$ 100.00	= \$ 113,400.00		\$ 113,400.00	
36" Reinforced Concrete Pipe	137	LF	\$ 124.00	= \$ 16,988.00		\$ 16,988.00	
42" Reinforced Concrete Pipe	438	LF	\$ 166.00	= \$ 72,708.00		\$ 72,708.00	
48" Reinforced Concrete Pipe	396	LF	\$ 202.00	= \$ 79,992.00		\$ 79,992.00	
54" Reinforced Concrete Pipe		LF	\$ 254.00	= \$ -		\$ -	
60" Reinforced Concrete Pipe		LF	\$ 298.00	= \$ -		\$ -	
66" Reinforced Concrete Pipe		LF	\$ 344.00	= \$ -		\$ -	
72" Reinforced Concrete Pipe		LF	\$ 393.00	= \$ -		\$ -	
18" Corrugated Steel Pipe		LF	\$ 87.00	= \$ -		\$ -	
24" Corrugated Steel Pipe		LF	\$ 99.00	= \$ -		\$ -	
30" Corrugated Steel Pipe		LF	\$ 126.00	= \$ -		\$ -	
36" Corrugated Steel Pipe		LF	\$ 152.00	= \$ -		\$ -	
42" Corrugated Steel Pipe		LF	\$ 174.00	= \$ -		\$ -	
48" Corrugated Steel Pipe		LF	\$ 184.00	= \$ -		\$ -	
54" Corrugated Steel Pipe		LF	\$ 269.00	= \$ -		\$ -	
60" Corrugated Steel Pipe		LF	\$ 290.00	= \$ -		\$ -	
66" Corrugated Steel Pipe		LF	\$ 352.00	= \$ -		\$ -	
72" Corrugated Steel Pipe		LF	\$ 414.00	= \$ -		\$ -	
78" Corrugated Steel Pipe		LF	\$ 476.00	= \$ -		\$ -	
84" Corrugated Steel Pipe		LF	\$ 569.00	= \$ -		\$ -	
Flared End Section (FES) RCP Size = 18" <i>(unit cost = 6x pipe unit cost)</i>	5	EA	\$ 960.00	= \$ 4,800.00		\$ 4,800.00	
Flared End Section (FES) CSP Size = <i>(unit cost = 6x pipe unit cost)</i>		EA	=	\$ -		\$ -	
End Treatment- Headwall	1	EA	\$ 2,500.00	= \$ 2,500.00		\$ 2,500.00	
End Treatment- Wingwall		EA	=	\$ -		\$ -	
End Treatment - Cutoff Wall		EA	=	\$ -		\$ -	
Curb Inlet (Type R) L=5', Depth < 5'	1	EA	\$ 5,736.00	= \$ 5,736.00		\$ 5,736.00	
Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'		EA	\$ 7,440.00	= \$ -		\$ -	
Curb Inlet (Type R) L =5', 10' ≤ Depth < 15'		EA	\$ 8,637.00	= \$ -		\$ -	
Curb Inlet (Type R) L =10', Depth < 5'	2	EA	\$ 7,894.00	= \$ 15,788.00		\$ 15,788.00	
Curb Inlet (Type R) L =10', 5' ≤ Depth < 10'	4	EA	\$ 8,136.00	= \$ 32,544.00		\$ 32,544.00	
Curb Inlet (Type R) L =10', 10' ≤ Depth < 15'		EA	\$ 10,185.00	= \$ -		\$ -	
Curb Inlet (Type R) L =10', Depth > 15'	1	EA	\$ 11,627.00	= \$ 11,627.00		\$ 11,627.00	
Curb Inlet (Type R) L =15', Depth < 5'	2	EA	\$ 10,265.00	= \$ 20,530.00		\$ 20,530.00	
Curb Inlet (Type R) L =15', 5' ≤ Depth < 10'	2	EA	\$ 11,005.00	= \$ 22,010.00		\$ 22,010.00	
Curb Inlet (Type R) L =15', 10' ≤ Depth < 15'		EA	\$ 12,034.00	= \$ -		\$ -	
Curb Inlet (Type R) L =20', Depth < 5'		EA	\$ 10,940.00	= \$ -		\$ -	
Curb Inlet (Type R) L =20', 5' ≤ Depth < 10'		EA	\$ 12,075.00	= \$ -		\$ -	
Grated Inlet (Type C), Depth < 5'		EA	\$ 4,802.00	= \$ -		\$ -	
Grated Inlet (Type D), Depth < 5'		EA	\$ 5,932.00	= \$ -		\$ -	
Storm Sewer Manhole, Box Base	2	EA	\$ 12,034.00	= \$ 24,068.00		\$ 24,068.00	
Storm Sewer Manhole, Slab Base	18	EA	\$ 6,619.00	= \$ 119,142.00		\$ 119,142.00	
Geotextile (Erosion Control)		SY	\$ 6.20	= \$ -		\$ -	
Rip Rap, d50 size from 6" to 24"	1,850	Tons	\$ 83.00	= \$ 153,550.00		\$ 153,550.00	
Rip Rap, Grouted		Tons	\$ 98.00	= \$ -		\$ -	
Drainage Channel Construction, Size (W x H)		LF	=	\$ -		\$ -	
Drainage Channel Lining, Concrete		CY	\$ 590.00	= \$ -		\$ -	
Drainage Channel Lining, Rip Rap		CY	\$ 116.00	= \$ -		\$ -	
Drainage Channel Lining, Grass		AC	\$ 1,520.00	= \$ -		\$ -	
Drainage Channel Lining, Other Stabilization			=	\$ -		\$ -	
			=	\$ -		\$ -	
			=	\$ -		\$ -	
<i>[insert items not listed but part of construction plans]</i>			=	\$ -		\$ -	
Section 2 Subtotal				= \$ 2,052,949.00		\$ 2,052,949.00	
SECTION 3 - COMMON DEVELOPMENT IMPROVEMENTS (Private or District and NOT Maintained by EPC)**							
ROADWAY IMPROVEMENTS							
Aggregate Base Course (135 lbs/cf)	332	CY	\$ 52.00	= \$ 17,264.00		\$ 17,264.00	
Asphalt Pavement (4" thick)	1,493	SY	\$ 20.00	= \$ 29,860.00		\$ 29,860.00	
Regulatory Sign/Advisory Sign	1	EA	\$ 311.00	= \$ 311.00		\$ 311.00	
Guide/Street Name Sign	4	EA	\$ 300.00	= \$ 1,200.00		\$ 1,200.00	
Curb and Gutter, Type A (6" Vertical)	490	LF	\$ 31.00	= \$ 15,190.00		\$ 15,190.00	
Curb and Gutter, Type C (Ramp)	403	LF	\$ 31.00	= \$ 12,493.00		\$ 12,493.00	
5" Sidewalk	222	SY	\$ 62.00	= \$ 13,764.00		\$ 13,764.00	
			=	\$ -		\$ -	

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Project Name	Date	PCD File No.

Description	Quantity	Units	Unit Cost	Total	(with Pre-Plat Construction)	
					% Complete	Remaining
STORM DRAIN IMPROVEMENTS (Exception: Permanent Pond/BMP shall be itemized under Section 1)						
Grated Inlet (Type C), Depth < 5'	2	EA	\$ 4,802.00	= \$	9,604.00	\$ 9,604.00
12" Reinforced Concrete Pipe	147	LF	\$ 40.00	= \$	5,880.00	\$ 5,880.00
18" Reinforced Concrete Pipe	188	LF	\$ 67.00	= \$	12,596.00	\$ 12,596.00
24" Reinforced Concrete Pipe	110	LF	\$ 81.00	= \$	8,910.00	\$ 8,910.00
36" Reinforced Concrete Pipe	133	LF	\$ 124.00	= \$	16,492.00	\$ 16,492.00
42" Reinforced Concrete Pipe	635	LF	\$ 166.00	= \$	105,410.00	\$ 105,410.00
48" Reinforced Concrete Pipe	31	LF	\$ 202.00	= \$	6,262.00	\$ 6,262.00
Storm Sewer Manhole, Box Base		EA	\$ 12,034.00	= \$	-	\$ -
Storm Sewer Manhole, Slab Base	6	EA	\$ 6,619.00	= \$	39,714.00	\$ 39,714.00
Flared End Section (FES) RCP Size = 12" (unit cost = 6x pipe unit cost)	2	EA	\$ 240.00	= \$	480.00	\$ 480.00
Flared End Section (FES) RCP Size = 18" (unit cost = 6x pipe unit cost)	2	EA	\$ 402.00	= \$	804.00	\$ 804.00
Flared End Section (FES) RCP Size = 36" (unit cost = 6x pipe unit cost)	1	EA	\$ 744.00	= \$	744.00	\$ 744.00
				= \$	-	\$ -
WATER SYSTEM IMPROVEMENTS						
Water Main Pipe (PVC), Size 6"	5,774	LF	\$ 66.00	= \$	381,084.00	\$ 381,084.00
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 78.00	= \$	-	\$ -
Gate Valves, 6"	33	EA	\$ 1,923.00	= \$	63,459.00	\$ 63,459.00
Fire Hydrant Assembly, w/ all valves	14	EA	\$ 6,828.00	= \$	95,592.00	\$ 95,592.00
Water Service Line Installation, inc. tap and valves	138	EA	\$ 1,370.00	= \$	189,060.00	\$ 189,060.00
Fire Cistern Installation, complete		EA		= \$	-	\$ -
Raw Water Main Pipe (PVC), Size 6"	2,790	LF	\$ 59.40	= \$	76,803.01	\$ 76,803.01
Raw Water Main Air Vac/Valve Assembly	1	EA	\$ 5,500.00	= \$	5,500.00	\$ 5,500.00
				= \$	-	\$ -
				= \$	-	\$ -
[insert items not listed but part of construction plans]						
SANITARY SEWER IMPROVEMENTS						
Sewer Main Pipe (PVC), Size 8"	5,447	LF	\$ 66.00	= \$	359,502.00	\$ 359,502.00
Sanitary Sewer Manhole, Depth < 15 feet	29	EA	\$ 4,540.00	= \$	131,660.00	\$ 131,660.00
Sanitary Service Line Installation, complete	138	EA	\$ 1,451.00	= \$	200,238.00	\$ 200,238.00
Sanitary Sewer Lift Station, complete		EA		= \$	-	\$ -
Underdrain 6"	4,894	LF	\$ 20.00	= \$	97,880.00	\$ 97,880.00
				= \$	-	\$ -
[insert items not listed but part of construction plans]						
LANDSCAPING IMPROVEMENTS (For subdivision specific condition of approval, or PUD)						
Landscape/Retaining Wall	11,050	SF	\$ 20.00	= \$	221,000.00	\$ 221,000.00
		EA		= \$	-	\$ -
		EA		= \$	-	\$ -
		EA		= \$	-	\$ -
		EA		= \$	-	\$ -
** - Section 3 is not subject to defect warranty requirements				Section 3 Subtotal	= \$ 2,118,756.01	\$ 2,118,756.01

AS-BUILT PLANS (Public Improvements inc. Permanent WQCV BMPs)	LS	\$ 1,000.00	= \$	1,000.00	\$ 1,000.00
POND/BMP CERTIFICATION (inc. elevations and volume calculations)	LS	\$ 1,000.00	= \$	1,000.00	\$ 1,000.00

Total Construction Financial Assurance \$ 4,962,380.38
(Sum of all section subtotals plus as-builts and pond/BMP certification)

Total Remaining Construction Financial Assurance (with Pre-Plat Construction) \$ 4,962,380.38
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)

Total Defect Warranty Financial Assurance \$ 539,251.24
(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