

2023 Financial Assurance Estimate Form (with pre-plat construction)

PCD File PPR2341

Updated: 12/8/2022

PROJECT INFORMATION		
STERLING RECYCLING FACILITY	8/2/2023	PCD File No.
Project Name	Date	

Description	Quantity	Units	Unit Cost	Total	% 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	12,866	CY	\$ 5.00	= \$ 64,330.00		\$ 64,330.00
20,001-50,000; \$100,000 min		CY	\$ 3.50	= \$ -		\$ -
50,001-200,000; \$175,000 min		CY	\$ 2.50	= \$ -		\$ -
greater than 200,000; \$500,000 min		CY	\$ 2.00	= \$ -		\$ -
Permanent Erosion Control Blanket	600.0	SY	\$ 8.00	= \$ 4,800.00		\$ 4,800.00
Permanent Seeding (inc. noxious weed mgmt.) & Mulching	32.0	AC	\$ 1,875.00	= \$ 60,000.00		\$ 60,000.00
Permanent Pond/BMP (provide engineer's estimate)		EA		= \$ -		\$ -
Concrete Washout Basin	1	EA	\$ 1,089.00	= \$ 1,089.00		\$ 1,089.00
Inlet Protection	6	EA	\$ 202.00	= \$ 1,212.00		\$ 1,212.00
Rock Check Dam	21	EA	\$ 605.00	= \$ 12,705.00		\$ 12,705.00
Safety Fence	3,022	LF	\$ 3.00	= \$ 9,066.00		\$ 9,066.00
Sediment Basin	4	EA	\$ 2,132.00	= \$ 8,528.00		\$ 8,528.00
Sediment Trap		EA	\$ 500.00	= \$ -		\$ -
Silt Fence	3,297	LF	\$ 3.00	= \$ 9,891.00		\$ 9,891.00
Slope Drain		LF	\$ 40.00	= \$ -		\$ -
Straw Bale		EA	\$ 31.00	= \$ -		\$ -
Straw Wattle/Rock Sock		LF	\$ 7.00	= \$ -		\$ -
Surface Roughening		AC	\$ 250.00	= \$ -		\$ -
Temporary Erosion Control Blanket		SY	\$ 3.00	= \$ -		\$ -
Temporary Seeding and Mulching		AC	\$ 1,666.00	= \$ -		\$ -
Vehicle Tracking Control	1	EA	\$ 2,867.00	= \$ 2,867.00		\$ 2,867.00
Outlet Protection	1	EA	\$ 202.00	= \$ 202.00		\$ 202.00
<i>[insert items not listed but part of construction plans]</i>				= \$ -		\$ -
MAINTENANCE (35% of Construction BMPs)				= \$ 15,564.85		\$ 15,564.85
Section 1 Subtotal				= \$ 190,254.85		\$ 190,254.85

Add missing Pond cost with all structures,

See and address all comments on FAE under PCD File SF2325

SECTION 2 - PUBLIC IMPROVEMENTS *

ROADWAY IMPROVEMENTS						
Construction Traffic Control	1.0	LS	\$ 5,000.00	= \$ 5,000.00		\$ 5,000.00
Aggregate Base Course (135 lbs/cf)		Tons	\$ 34.00	= \$ -		\$ -
Aggregate Base Course (135 lbs/cf)	553.0	CY	\$ 61.00	= \$ 33,733.00		\$ 33,733.00
Asphalt Pavement (3" thick)		SY	\$ 17.00	= \$ -		\$ -
Asphalt Pavement (4" thick)	3,315.0	SY	\$ 23.00	= \$ 76,245.00		\$ 76,245.00
Asphalt Pavement (6" thick)		SY	\$ 35.00	= \$ -		\$ -
Asphalt Pavement (147 lbs/cf) ___" thick		Tons	\$ 106.00	= \$ -		\$ -
Raised Median, Paved		SF	\$ 10.00	= \$ -		\$ -
Regulatory Sign/Advisory Sign	1.0	EA	\$ 364.00	= \$ 364.00		\$ 364.00
Guide/Street Name Sign	2.0	EA	\$ 364.00	= \$ 728.00		\$ 728.00
Epoxy Pavement Marking	2,114.0	SF	\$ 16.00	= \$ 33,824.00		\$ 33,824.00
Thermoplastic Pavement Marking	54.0	SF	\$ 28.00	= \$ 1,512.00		\$ 1,512.00
Barricade - Type 3		EA	\$ 241.00	= \$ -		\$ -
Delineator - Type I		EA	\$ 29.00	= \$ -		\$ -
Curb and Gutter, Type A (6" Vertical)	1,348.0	LF	\$ 35.00	= \$ 47,180.00		\$ 47,180.00
Curb and Gutter, Type B (Median)		LF	\$ 35.00	= \$ -		\$ -
Curb and Gutter, Type C (Ramp)		LF	\$ 35.00	= \$ -		\$ -
4" Sidewalk (common areas only)		SY	\$ 58.00	= \$ -		\$ -
5" Sidewalk	1,030.0	SY	\$ 72.00	= \$ 74,160.00		\$ 74,160.00
6" Sidewalk		SY	\$ 87.00	= \$ -		\$ -
8" Sidewalk		SY	\$ 116.00	= \$ -		\$ -
Pedestrian Ramp	4.0	EA	\$ 1,390.00	= \$ 5,560.00		\$ 5,560.00
Cross Pan, local (8" thick, 6' wide to include return)	137.0	LF	\$ 73.00	= \$ 10,001.00		\$ 10,001.00
Cross Pan, collector (9" thick, 8' wide to include return)		LF	\$ 111.00	= \$ -		\$ -
Curb Opening with Drainage Chase		EA	\$ 1,790.00	= \$ -		\$ -
Guardrail Type 3 (W-Beam)		LF	\$ 60.00	= \$ -		\$ -
Guardrail Type 7 (Concrete)		LF	\$ 87.00	= \$ -		\$ -
Guardrail End Anchorage		EA	\$ 2,538.00	= \$ -		\$ -
Guardrail Impact Attenuator		EA	\$ 4,556.00	= \$ -		\$ -
Sound Barrier Fence (CMU block, 6' high)		LF	\$ 95.00	= \$ -		\$ -
Sound Barrier Fence (panels, 6' high)		LF	\$ 97.00	= \$ -		\$ -
Electrical Conduit, Size =		LF	\$ 20.00	= \$ -		\$ -
Traffic Signal, (provide engineer's estimate)		EA		= \$ -		\$ -

PROJECT INFORMATION

STERLING RECYCLING FACILITY

8/2/2023

Project Name

Date

PCD File No.

Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)		
						% Complete	Remaining	
				=	\$ -		\$ -	
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -	
STORM DRAIN IMPROVEMENTS								
Concrete Box Culvert (M Standard), Size (W x H)		LF		=	\$ -		\$ -	
18" Reinforced Concrete Pipe		LF	\$ 76.00	=	\$ -		\$ -	
24" Reinforced Concrete Pipe		LF	\$ 91.00	=	\$ -		\$ -	
30" Reinforced Concrete Pipe		LF	\$ 114.00	=	\$ -		\$ -	
36" Reinforced Concrete Pipe		LF	\$ 140.00	=	\$ -		\$ -	
42" Reinforced Concrete Pipe		LF	\$ 187.00	=	\$ -		\$ -	
48" Reinforced Concrete Pipe		LF	\$ 228.00	=	\$ -		\$ -	
54" Reinforced Concrete Pipe		LF	\$ 297.00	=	\$ -		\$ -	
60" Reinforced Concrete Pipe		LF	\$ 348.00	=	\$ -		\$ -	
66" Reinforced Concrete Pipe		LF	\$ 402.00	=	\$ -		\$ -	
72" Reinforced Concrete Pipe		LF	\$ 460.00	=	\$ -		\$ -	
18" Corrugated Steel Pipe		LF	\$ 98.00	=	\$ -		\$ -	
24" Corrugated Steel Pipe		LF	\$ 112.00	=	\$ -		\$ -	
30" Corrugated Steel Pipe		LF	\$ 143.00	=	\$ -		\$ -	
36" Corrugated Steel Pipe		LF	\$ 171.00	=	\$ -		\$ -	
42" Corrugated Steel Pipe		LF	\$ 197.00	=	\$ -		\$ -	
48" Corrugated Steel Pipe		LF	\$ 207.00	=	\$ -		\$ -	
54" Corrugated Steel Pipe		LF	\$ 304.00	=	\$ -		\$ -	
60" Corrugated Steel Pipe		LF	\$ 328.00	=	\$ -		\$ -	
66" Corrugated Steel Pipe		LF	\$ 397.00	=	\$ -		\$ -	
72" Corrugated Steel Pipe		LF	\$ 467.00	=	\$ -		\$ -	
78" Corrugated Steel Pipe		LF	\$ 537.00	=	\$ -		\$ -	
84" Corrugated Steel Pipe		LF	\$ 642.00	=	\$ -		\$ -	
Flared End Section (FES) RCP Size = <i>(unit cost = 6x pipe unit cost)</i>		EA		=	\$ -		\$ -	
Flared End Section (FES) CSP Size = <i>(unit cost = 6x pipe unit cost)</i>		EA		=	\$ -		\$ -	
End Treatment- Headwall		EA		=	\$ -		\$ -	
End Treatment- Wingwall		EA		=	\$ -		\$ -	
End Treatment - Cutoff Wall		EA		=	\$ -		\$ -	
Curb Inlet (Type R) L=5', Depth < 5'		EA	\$ 6,703.00	=	\$ -		\$ -	
Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'		EA	\$ 8,715.00	=	\$ -		\$ -	
Curb Inlet (Type R) L =5', 10' ≤ Depth < 15'		EA	\$ 10,092.00	=	\$ -		\$ -	
Curb Inlet (Type R) L =10', Depth < 5'		EA	\$ 9,224.00	=	\$ -		\$ -	
Curb Inlet (Type R) L =10', 5' ≤ Depth < 10'		EA	\$ 9,507.00	=	\$ -		\$ -	
Curb Inlet (Type R) L =10', 10' ≤ Depth < 15'		EA	\$ 11,901.00	=	\$ -		\$ -	
Curb Inlet (Type R) L =15', Depth < 5'		EA	\$ 11,995.00	=	\$ -		\$ -	
Curb Inlet (Type R) L =15', 5' ≤ Depth < 10'		EA	\$ 12,858.00	=	\$ -		\$ -	
Curb Inlet (Type R) L =15', 10' ≤ Depth < 15'		EA	\$ 14,061.00	=	\$ -		\$ -	
Curb Inlet (Type R) L =20', Depth < 5'		EA	\$ 12,783.00	=	\$ -		\$ -	
Curb Inlet (Type R) L =20', 5' ≤ Depth < 10'		EA	\$ 14,109.00	=	\$ -		\$ -	
Grated Inlet (Type C), Depth < 5'		EA	\$ 5,611.00	=	\$ -		\$ -	
Grated Inlet (Type D), Depth < 5'		EA	\$ 6,931.00	=	\$ -		\$ -	
Storm Sewer Manhole, Box Base		EA	\$ 14,061.00	=	\$ -		\$ -	
Storm Sewer Manhole, Slab Base		EA	\$ 7,734.00	=	\$ -		\$ -	
Geotextile (Erosion Control)		SY	\$ 8.00	=	\$ -		\$ -	
Rip Rap, d50 size from 6" to 24"		Tons	\$ 97.00	=	\$ -		\$ -	
Rip Rap, Grouted		Tons	\$ 115.00	=	\$ -		\$ -	
Drainage Channel Construction, Size (W x H)		LF	\$ -	=	\$ -		\$ -	
Drainage Channel Lining, Concrete		CY	\$ 689.00	=	\$ -		\$ -	
Drainage Channel Lining, Rip Rap		CY	\$ 135.00	=	\$ -		\$ -	
Drainage Channel Lining, Grass		AC	\$ 1,776.00	=	\$ -		\$ -	
Drainage Channel Lining, Other Stabilization				=	\$ -		\$ -	
				=	\$ -		\$ -	
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -	
Section 2 Subtotal					=	\$ 288,307.00		\$ 288,307.00

* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)

PROJECT INFORMATION

STERLING RECYCLING FACILITY

8/2/2023

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							
Asphalt Pavement (4" thick)	9,122.0	SY	\$ 23.00		\$ 209,806.00		\$ 209,806.00 *
Aggregate Base Course (135 lbs/cf)	1,520.0	CY	\$ 61.00		\$ 92,720.00		\$ 92,720.00 *
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
STORM DRAIN IMPROVEMENTS (Exception: Permanent Pond/BMP shall be itemized under Section 1)							
18" Reinforced Concrete Pipe	122	LF	\$ 76.00	=	\$ 9,272.00		\$ 9,272.00
24" Reinforced Concrete Pipe	200	LF	\$ 91.00	=	\$ 18,200.00		\$ 18,200.00
30" Reinforced Concrete Pipe	46	LF	\$ 114.00	=	\$ 5,244.00		\$ 5,244.00
48" Reinforced Concrete Pipe	42	LF	\$ 228.00	=	\$ 9,576.00		\$ 9,576.00
Flared End Section (FES) RCP Size = (unit cost = 6x pipe unit cost) 24"	2	EA	\$ 546.00		\$ 1,092.00		\$ 1,092.00
Flared End Section (FES) RCP Size = (unit cost = 6x pipe unit cost) 30"	1	EA	\$ 684.00	=	\$ 684.00		\$ 684.00
Grated Inlet (Type C), Depth < 5'	4	EA	\$ 5,611.00	=	\$ 22,444.00		\$ 22,444.00
WATER SYSTEM IMPROVEMENTS							
Water Main Pipe (PVC), Size 8"	2,438	LF	\$ 78.00	=	\$ 190,164.00		\$ 190,164.00
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 91.00	=	\$ -		\$ -
Gate Valves, 8"	10	EA	\$ 2,247.00	=	\$ 22,470.00		\$ 22,470.00
Fire Hydrant Assembly, w/ all valves	1	EA	\$ 7,978.00	=	\$ 7,978.00		\$ 7,978.00
Water Service Line Installation, inc. tap and valves	1	EA	\$ 1,601.00	=	\$ 1,601.00		\$ 1,601.00
Fire Cistern Installation, complete		EA		=	\$ -		\$ -
Water Main Pipe (PVC), Size 8"	18	LF	\$ 59.00	=	\$ 1,062.00		\$ 1,062.00
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -
SANITARY SEWER IMPROVEMENTS							
Sewer Main Pipe (PVC), Size 8"		LF	\$ 78.00	=	\$ -		\$ -
Sanitary Sewer Manhole, Depth < 15 feet	7	EA	\$ 5,305.00	=	\$ 37,135.00		\$ 37,135.00
Sanitary Service Line Installation, complete	1	EA	\$ 1,696.00	=	\$ 1,696.00		\$ 1,696.00
Sanitary Sewer Lift Station, complete		EA		=	\$ -		\$ -
Sewer Main Pipe (PVC), Size 10"	2,704	LF	\$ 98.00	=	\$ 264,992.00		\$ 264,992.00
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -
LANDSCAPING IMPROVEMENTS (For subdivision specific condition of approval, or PUD)							
Fence	2,360	EA	\$ 5.00	=	\$ 11,801.95		\$ 11,801.95
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
Section 3 Subtotal					=	\$ 907,937.95	\$ 907,937.95

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

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STERLING RECYCLING FACILITY	8/2/2023	
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	\$ 5,000.00	=	\$ 5,000.00		\$ 5,000.00
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS	\$ 6,000.00	=	\$ 6,000.00		\$ 6,000.00
Total Construction Financial Assurance						\$	1,397,499.80
(Sum of all section subtotals plus as-builts and pond/BMP certification)							
Total Remaining Construction Financial Assurance (with Pre-Plat Construction)						\$	1,397,499.80
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)							
Total Defect Warranty Financial Assurance						\$	83,487.40
(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