

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

Updated: 12/22/2020

PROJECT INFORMATION			
Sterling Ranch F2 with offsite storm	8/18/2021	SF-2015	
Project Name	Date	PCD File No.	

Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction) % Complete	Remaining
<b>SECTION 1 - GRADING AND EROSION CONTROL (Construction and Permanent BMPs)</b>							
* 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	48,923	CY	\$ 3.50	=	\$ 171,230.50		\$ 171,230.50
50,001-200,000; \$175,000 min		CY	\$ 2.50	=	\$ -		\$ -
greater than 200,000; \$500,000 min		CY	\$ 2.00	=	\$ -		\$ -
* Permanent Seeding (inc. noxious weed mgmnt.)	27	AC	\$ 828.00	=	\$ 22,356.00		\$ 22,356.00
* Mulching	27	AC	\$ 777.00	=	\$ 20,979.00		\$ 20,979.00
* Permanent Erosion Control Blanket	14,100	SY	\$ 6.00	=	\$ 84,600.00		\$ 84,600.00
* Permanent Pond/BMP Construction	3,500	CY	\$ 21.00	=	\$ 73,500.00		\$ 73,500.00
* Permanent Pond/BMP (Spillway)	2	EA	\$ 10,000.00	=	\$ 20,000.00		\$ 20,000.00
* Permanent Pond/BMP (Outlet Structure)	2	EA	\$ 15,000.00	=	\$ 30,000.00		\$ 30,000.00
Safety Fence		LF	\$ 3.00	=	\$ -		\$ -
Temporary Erosion Control Blanket	2859.63	SY	\$ 3.00	=	\$ 8,578.89		\$ 8,578.89
Vehicle Tracking Control	4	EA	\$ 2,453.00	=	\$ 9,812.00		\$ 9,812.00
Silt Fence	5,001	LF	\$ 2.60	=	\$ 13,002.60		\$ 13,002.60
Temporary Seeding	23	AC	\$ 650.00	=	\$ 14,950.00		\$ 14,950.00
Temporary Mulch	23	AC	\$ 777.00	=	\$ 17,871.00		\$ 17,871.00
Erosion Bales	16	EA	\$ 26.00	=	\$ 416.00		\$ 416.00
Erosion Logs/Straw Waddle		LF	\$ 5.00	=	\$ -		\$ -
Rock Check Dams	31	EA	\$ 518.00	=	\$ 16,058.00		\$ 16,058.00
Inlet Protection	23	EA	\$ 173.00	=	\$ 3,979.00		\$ 3,979.00
Sediment Basin		EA	\$ 1,824.00	=	\$ -		\$ -
Concrete Washout Basin	3	EA	\$ 932.00	=	\$ 2,796.00		\$ 2,796.00
[insert items not listed but part of construction plans]				=	\$ -		\$ -
MAINTENANCE (35% of Construction BMPs)					\$ 30,612.22		\$ 30,612.22
* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)							
<b>Section 1 Subtotal</b>					\$ 540,741.21		\$ 540,741.21
<b>SECTION 2 - PUBLIC IMPROVEMENTS *</b>							
<b>ROADWAY IMPROVEMENTS</b>							
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)	1,851	CY	\$ 52.00	=	\$ 96,252.00		\$ 96,252.00
Asphalt Pavement (3" thick)		SY	\$ 14.50	=	\$ -		\$ -
Asphalt Pavement (4" thick)		SY	\$ 20.00	=	\$ -		\$ -
Asphalt Pavement (6" thick)	9,780	SY	\$ 30.00	=	\$ 293,400.00		\$ 293,400.00
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	12	EA	\$ 200.00	=	\$ 2,400.00		\$ 2,400.00
Epoxy Pavement Marking		SF	\$ 14.00	=	\$ -		\$ -
Thermoplastic Pavement Marking		SF	\$ 24.00	=	\$ -		\$ -
Barricade - Type 3	2	EA	\$ 207.00	=	\$ 414.00		\$ 414.00
Delineator - Type I		EA	\$ 25.00	=	\$ -		\$ -
Curb and Gutter, Type A (6" Vertical)	1,646	LF	\$ 31.00	=	\$ 51,026.00		\$ 51,026.00
Curb and Gutter, Type B (Median)		LF	\$ 31.00	=	\$ -		\$ -
Curb and Gutter, Type C (Ramp)	3,539	LF	\$ 31.00	=	\$ 109,709.00		\$ 109,709.00
4" Sidewalk (common areas only)		SY	\$ 50.00	=	\$ -		\$ -
5" Sidewalk	3,190	SY	\$ 62.00	=	\$ 197,780.00		\$ 197,780.00
6" Sidewalk		SY	\$ 75.00	=	\$ -		\$ -
8" Sidewalk		SY	\$ 99.00	=	\$ -		\$ -
Pedestrian Ramp	20	EA	\$ 1,190.00	=	\$ 23,800.00		\$ 23,800.00
Cross Pan, local (8" thick, 6' wide to include return)	560	LF	\$ 63.00	=	\$ 35,280.00		\$ 35,280.00
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	=	\$ -		\$ -

PROJECT INFORMATION									
Sterling Ranch F2 with offsite storm				8/18/2021		SF-2015			
Project Name				Date		PCD File No.			
Description		Quantity	Units	Unit Cost		Total	% Complete	(with Pre-Plat Construction)	
								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		=	\$ -		\$ -	
18" Reinforced Concrete Pipe		731	LF	\$ 67.00	=	\$ 48,977.00		\$ 48,977.00	
24" Reinforced Concrete Pipe		464	LF	\$ 81.00	=	\$ 37,584.00		\$ 37,584.00	
30" Reinforced Concrete Pipe		492	LF	\$ 100.00	=	\$ 49,200.00		\$ 49,200.00	
36" Reinforced Concrete Pipe		588	LF	\$ 124.00	=	\$ 72,912.00		\$ 72,912.00	
42" Reinforced Concrete Pipe		1,259	LF	\$ 166.00	=	\$ 208,994.00		\$ 208,994.00	
48" Reinforced Concrete Pipe		1,365	LF	\$ 202.00	=	\$ 275,730.00		\$ 275,730.00	
54" Reinforced Concrete Pipe		2,529	LF	\$ 254.00	=	\$ 642,366.00		\$ 642,366.00	
60" Reinforced Concrete Pipe			LF	\$ 298.00	=	\$ -		\$ -	
66" Reinforced Concrete Pipe		1,589	LF	\$ 344.00	=	\$ 546,616.00		\$ 546,616.00	
72" Reinforced Concrete Pipe		203	LF	\$ 393.00	=	\$ 79,779.00		\$ 79,779.00	
84" Reinforced Concrete Pipe		334	LF	\$ 520.00	=	\$ 173,680.00		\$ 173,680.00	
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 = (unit cost = 6x pipe unit cost)		24	1	EA \$ 450.00	=	\$ 450.00		\$ 450.00	
Flared End Section (FES) CSP Size = (unit cost = 6x pipe unit cost)		30	1	EA \$ 510.00	=	\$ 510.00		\$ 510.00	
Flared End Section (FES) RCP Size = (unit cost = 6x pipe unit cost)		36	3	EA \$ 600.00	=	\$ 1,800.00		\$ 1,800.00	
Flared End Section (FES) RCP Size = (unit cost = 6x pipe unit cost)		42	2	EA \$ 960.00	=	\$ 1,920.00		\$ 1,920.00	
Temp. (FES) RCP Size = (unit cost = 6x pipe unit cost)		54	2	EA \$ 1,300.00	=	\$ 2,600.00		\$ 2,600.00	
Temp. (FES) RCP Size = (unit cost = 6x pipe unit cost)				EA	=	\$ -		\$ -	
End Treatment- Headwall		2	EA	\$ 10,000.00	=	\$ 20,000.00		\$ 20,000.00	
End Treatment- Wingwall		2	EA	\$ 18,000.00	=	\$ 36,000.00		\$ 36,000.00	
End Treatment - Cutoff Wall		3	EA	\$ 1,000.00	=	\$ 3,000.00		\$ 3,000.00	
Curb Inlet (Type R) L=5', Depth < 5'			EA	\$ 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'			EA	\$ 7,894.00	=	\$ -		\$ -	
Curb Inlet (Type R) L =10', 5' ≤ Depth < 10'		10	EA	\$ 8,136.00	=	\$ 81,360.00		\$ 81,360.00	
Curb Inlet (Type R) L =10', 10' ≤ Depth < 15'			EA	\$ 10,185.00	=	\$ -		\$ -	
Curb Inlet (Type R) L =15', Depth < 5'			EA	\$ 10,265.00	=	\$ -		\$ -	
Curb Inlet (Type R) L =15', 5' ≤ Depth < 10'		6	EA	\$ 11,005.00	=	\$ 66,030.00		\$ 66,030.00	
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		22	EA	\$ 12,034.00	=	\$ 264,748.00		\$ 264,748.00	
Storm Sewer Manhole, Slab Base		4	EA	\$ 6,619.00	=	\$ 26,476.00		\$ 26,476.00	
Geotextile (Erosion Control)			SY	\$ 6.20	=	\$ -		\$ -	
Rip Rap, d50 size from 6" to 24"		1,965	Tons	\$ 83.00	=	\$ 163,095.00		\$ 163,095.00	
Rip Rap, Grouted		197	Tons	\$ 98.00	=	\$ 19,306.00		\$ 19,306.00	
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					=	\$ -		\$ -	
[insert items not listed but part of construction plans]					=	\$ -		\$ -	
[insert items not listed but part of construction plans]					=	\$ -		\$ -	
Section 2 Subtotal					=	\$ 3,641,304.00		\$ 3,641,304.00	

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

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PROJECT INFORMATION							
Sterling Ranch F2 with offsite storm		8/18/2021		SF-2015			
Project Name		Date		PCD File No.			
Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)	
						% Complete	Remaining
<b>SECTION 3 - COMMON DEVELOPMENT IMPROVEMENTS (Private or District and NOT Maintained by EPC)**</b>							
<b>ROADWAY IMPROVEMENTS</b>							
Retaining Wall Tract F	300	SF	\$ 40.00	=	\$ 12,000.00		\$ 12,000.00
Noise Wall along Vollmer	1,700	LF	\$ 65.00	=	\$ 110,500.00		\$ 110,500.00
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
<b>STORM DRAIN IMPROVEMENTS</b> (Exception: Permanent Pond/BMP shall be itemized under Section 1)							
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
<b>WATER SYSTEM IMPROVEMENTS</b>							
Water Main Pipe (PVC), Size 8"	3,207	LF	\$ 66.00	=	\$ 211,662.00		\$ 211,662.00
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 78.00	=	\$ -		\$ -
Gate Valves, 8"	28	EA	\$ 1,923.00	=	\$ 53,844.00		\$ 53,844.00
Fire Hydrant Assembly, w/ all valves	7	EA	\$ 6,828.00	=	\$ 47,796.00		\$ 47,796.00
Water Service Line Installation, inc. tap and valves	49	EA	\$ 1,370.00	=	\$ 67,130.00		\$ 67,130.00
Fire Cistern Installation, complete		EA		=	\$ -		\$ -
[insert items not listed but part of construction plans]				=	\$ -		\$ -
<b>SANITARY SEWER IMPROVEMENTS</b>							
Sewer Main Pipe (PVC), Size 8"	2,918	LF	\$ 66.00	=	\$ 192,588.00		\$ 192,588.00
Sanitary Sewer Manhole, Depth < 15 feet	9	EA	\$ 4,540.00	=	\$ 40,860.00		\$ 40,860.00
Sanitary Service Line Installation, complete	49	EA	\$ 1,451.00	=	\$ 71,099.00		\$ 71,099.00
Sanitary Sewer Lift Station, complete		EA		=	\$ -		\$ -
Sewer Main Underdrains	2,918	LF	\$ 25.00	=	\$ 72,950.00		\$ 72,950.00
[insert items not listed but part of construction plans]				=	\$ -		\$ -
<b>LANDSCAPING IMPROVEMENTS</b> (For subdivision specific condition of approval, or PUD)							
		EA		=	\$ -		\$ -
LS Tracts & Buffers	27,000	SF	\$ 3.75	=	\$ 101,250.00		\$ 101,250.00
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
<b>Section 3 Subtotal</b>				=	\$ 981,679.00		\$ 981,679.00

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

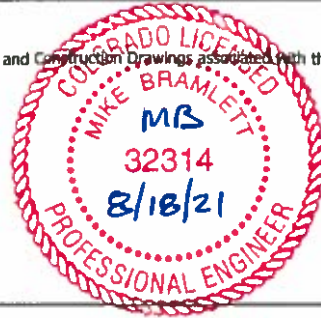
PROJECT INFORMATION		
Sterling Ranch F2 with offsite storm	8/18/2021	SF-2015
Project Name	Date	PCD File No.

Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)	
						% Complete	Remaining
AS-BUILT PLANS (Public Improvements Inc. Permanent WQCV BMPs)		LS	\$ 10,000.00	=	\$ 10,000.00	\$	10,000.00
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS	\$ 15,000.00	=	\$ 15,000.00	\$	15,000.00
Total Construction Financial Assurance						\$	5,188,724.21
(Sum of all section subtotals plus as-builts and pond/BMP certification)							
Total Remaining Construction Financial Assurance (with Pre-Plat Construction)						\$	5,188,724.21
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)							
Total Defect Warranty Financial Assurance						\$	812,793.90
(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.

*Mike Bramlett*  
 Engineer (P.E. Seal Required)  
*John F. Huley*  
 Approved by Owner / Applicant



8/18/21

Date

APPROVED  
 Engineering Department

12/21/2021 10:47:59 AM  
 dsdnijkamp

Approved by El Paso County Engineer / ECM Administrator

EPC Planning & Community  
 Development Department