

2022 Financial Assurance Estimate Form (with pre-plat construction)

Updated: 6/6/2022

PROJECT INFORMATION			
Meadowbrook Park	6/06/2021	PUDSP208	
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	43,656	CY	\$ 3.50	=	\$ 152,796.00		\$ 152,796.00
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.)	4	AC	\$ 886.00	=	\$ 3,544.00		\$ 3,544.00
* Mulching	4	AC	\$ 831.00	=	\$ 3,324.00		\$ 3,324.00
* Permanent Erosion Control Blanket	0	SY	\$ 7.00	=	\$ -		\$ -
* Permanent Pond/BMP Construction	13,181	CY	\$ 22.00	=	\$ 289,982.00		\$ 289,982.00
* Permanent Pond/BMP (provide engineer's estimate)	1	EA	\$ 25,000.00	=	\$ 25,000.00		\$ 25,000.00
* Permanent RG/BMP (provide engineer's estimate)	1	EA	\$ 10,000.00	=	\$ 10,000.00		\$ 10,000.00
Safety Fence	2,837	LF	\$ 3.00	=	\$ 8,511.00		\$ 8,511.00
Temporary Erosion Control Blanket	6,434	SY	\$ 3.00	=	\$ 19,302.00		\$ 19,302.00
Vehicle Tracking Control	1	EA	\$ 2,625.00	=	\$ 2,625.00		\$ 2,625.00
Silt Fence	546	LF	\$ 3.00	=	\$ 1,638.00		\$ 1,638.00
Temporary Seeding	4	AC	\$ 695.00	=	\$ 2,780.00		\$ 2,780.00
Temporary Mulch	4	AC	\$ 831.00	=	\$ 3,324.00		\$ 3,324.00
Erosion Bales	0	EA	\$ 28.00	=	\$ -		\$ -
Erosion Logs/Straw Wattles	0	LF	\$ 6.00	=	\$ -		\$ -
Rock Check Dams	33	EA	\$ 554.00	=	\$ 18,282.00		\$ 18,282.00
Inlet Protection	9	EA	\$ 185.00	=	\$ 1,665.00		\$ 1,665.00
Sediment Basin	2	EA	\$ 1,952.00	=	\$ 3,904.00		\$ 3,904.00
Concrete Washout Basin	1	EA	\$ 997.00	=	\$ 997.00		\$ 997.00
				=	\$ -		\$ -
[insert items not listed but part of construction plans]							
				=	\$ -		\$ -
MAINTENANCE (35% of Construction BMPs)					=	\$ 19,080.95	\$ 19,080.95
* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)							
Section 1 Subtotal					=	\$ 566,754.95	\$ 566,754.95

SECTION 2 - PUBLIC IMPROVEMENTS *							
ROADWAY IMPROVEMENTS							
Construction Traffic Control		LS		=	\$ -		\$ -
Aggregate Base Course (135 lbs/cf)		Tons	\$ 31.00	=	\$ -		\$ -
Aggregate Base Course (135 lbs/cf)		CY	\$ 56.00	=	\$ -		\$ -
Asphalt Pavement (3" thick)		SY	\$ 16.00	=	\$ -		\$ -
Asphalt Pavement (4" thick)		SY	\$ 21.00	=	\$ -		\$ -
Asphalt Pavement (6" thick)		SY	\$ 32.00	=	\$ -		\$ -
Asphalt Pavement (147 lbs/cf) _" thick		Tons	\$ 97.00	=	\$ -		\$ -
Raised Median, Paved		SF	\$ 9.00	=	\$ -		\$ -
Regulatory Sign/Advisory Sign	4	EA	\$ 333.00	=	\$ 1,332.00		\$ 1,332.00
Guide/Street Name Sign		EA	\$ 225.00	=	\$ -		\$ -
Epoxy Pavement Marking		SF	\$ 15.00	=	\$ -		\$ -
Thermoplastic Pavement Marking	432	SF	\$ 26.00	=	\$ 11,232.00		\$ 11,232.00
Barricade - Type 3		EA	\$ 221.00	=	\$ -		\$ -
Delineator - Type I		EA	\$ 27.00	=	\$ -		\$ -
Curb and Gutter, Type A (6" Vertical)		LF	\$ 32.00	=	\$ -		\$ -
Curb and Gutter, Type B (Median)		LF	\$ 32.00	=	\$ -		\$ -
Curb and Gutter, Type C (Ramp)		LF	\$ 32.00	=	\$ -		\$ -
4" Sidewalk (common areas only)		SY	\$ 53.00	=	\$ -		\$ -
5" Sidewalk		SY	\$ 66.00	=	\$ -		\$ -
6" Sidewalk		SY	\$ 80.00	=	\$ -		\$ -
8" Sidewalk		SY	\$ 106.00	=	\$ -		\$ -
Pedestrian Ramp	6	EA	\$ 1,273.00	=	\$ 7,638.00		\$ 7,638.00
Cross Pan, local (8" thick, 6' wide to include return)	80	LF	\$ 67.00	=	\$ 5,360.00		\$ 5,360.00
Cross Pan, collector (9" thick, 8' wide to include return)		LF	\$ 102.00	=	\$ -		\$ -
Curb Chase		EA	\$ 1,639.00	=	\$ -		\$ -
Guardrail Type 3 (W-Beam)		LF	\$ 55.00	=	\$ -		\$ -
Guardrail Type 7 (Concrete)		LF	\$ 80.00	=	\$ -		\$ -
Guardrail End Anchorage		EA	\$ 2,324.00	=	\$ -		\$ -
Guardrail Impact Attenuator		EA	\$ 4,172.00	=	\$ -		\$ -
Sound Barrier Fence (CMU block, 6' high)		LF	\$ 87.00	=	\$ -		\$ -
Sound Barrier Fence (panels, 6' high)		LF	\$ 89.00	=	\$ -		\$ -
Electrical Conduit, Size =		LF	\$ 18.00	=	\$ -		\$ -
Traffic Signal, complete intersection		EA	\$ 470,666	=	\$ -		\$ -

PROJECT INFORMATION

Meadowbrook Park	9/30/2021	PUDSP208
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>				=	\$ -		\$ -
<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	\$ 70.00	=	\$ -		\$ -
24" Reinforced Concrete Pipe		LF	\$ 83.00	=	\$ -		\$ -
30" Reinforced Concrete Pipe		LF	\$ 104.00	=	\$ -		\$ -
36" Reinforced Concrete Pipe		LF	\$ 128.00	=	\$ -		\$ -
42" Reinforced Concrete Pipe		LF	\$ 171.00	=	\$ -		\$ -
48" Reinforced Concrete Pipe		LF	\$ 209.00	=	\$ -		\$ -
54" Reinforced Concrete Pipe		LF	\$ 272.00	=	\$ -		\$ -
60" Reinforced Concrete Pipe		LF	\$ 319.00	=	\$ -		\$ -
66" Reinforced Concrete Pipe		LF	\$ 368.00	=	\$ -		\$ -
72" Reinforced Concrete Pipe		LF	\$ 421.00	=	\$ -		\$ -
18" Corrugated Steel Pipe		LF	\$ 90.00	=	\$ -		\$ -
24" Corrugated Steel Pipe		LF	\$ 103.00	=	\$ -		\$ -
30" Corrugated Steel Pipe		LF	\$ 131.00	=	\$ -		\$ -
36" Corrugated Steel Pipe		LF	\$ 157.00	=	\$ -		\$ -
42" Corrugated Steel Pipe		LF	\$ 180.00	=	\$ -		\$ -
48" Corrugated Steel Pipe		LF	\$ 190.00	=	\$ -		\$ -
54" Corrugated Steel Pipe		LF	\$ 278.00	=	\$ -		\$ -
60" Corrugated Steel Pipe		LF	\$ 300.00	=	\$ -		\$ -
66" Corrugated Steel Pipe		LF	\$ 364.00	=	\$ -		\$ -
72" Corrugated Steel Pipe		LF	\$ 428.00	=	\$ -		\$ -
78" Corrugated Steel Pipe		LF	\$ 492.00	=	\$ -		\$ -
84" Corrugated Steel Pipe		LF	\$ 588.00	=	\$ -		\$ -
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	\$ 6,138.00	=	\$ -		\$ -
Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'		EA	\$ 7,981.00	=	\$ -		\$ -
Curb Inlet (Type R) L=5', 10' ≤ Depth < 15'		EA	\$ 9,242.00	=	\$ -		\$ -
Curb Inlet (Type R) L=10', Depth < 5'		EA	\$ 8,447.00	=	\$ -		\$ -
Curb Inlet (Type R) L=10', 5' ≤ Depth < 10'		EA	\$ 8,706.00	=	\$ -		\$ -
Curb Inlet (Type R) L=10', 10' ≤ Depth < 15'		EA	\$ 10,898.00	=	\$ -		\$ -
Curb Inlet (Type R) L=15', Depth < 5'		EA	\$ 10,984.00	=	\$ -		\$ -
Curb Inlet (Type R) L=15', 5' ≤ Depth < 10'		EA	\$ 11,775.00	=	\$ -		\$ -
Curb Inlet (Type R) L=15', 10' ≤ Depth < 15'		EA	\$ 12,876.00	=	\$ -		\$ -
Curb Inlet (Type R) L=20', Depth < 5'		EA	\$ 11,706.00	=	\$ -		\$ -
Curb Inlet (Type R) L=20', 5' ≤ Depth < 10'		EA	\$ 12,920.00	=	\$ -		\$ -
Grated Inlet (Type C), Depth < 5'		EA	\$ 5,138.00	=	\$ -		\$ -
Grated Inlet (Type D), Depth < 5'		EA	\$ 6,347.00	=	\$ -		\$ -
Storm Sewer Manhole, Box Base		EA	\$ 12,876.00	=	\$ -		\$ -
Storm Sewer Manhole, Slab Base		EA	\$ 7,082.00	=	\$ -		\$ -
Geotextile (Erosion Control)		SY	\$ 7.00	=	\$ -		\$ -
Rip Rap, d50 size from 6" to 24"		Tons	\$ 89.00	=	\$ -		\$ -
Rip Rap, Grouted		Tons	\$ 105.00	=	\$ -		\$ -
Drainage Channel Construction, Size (W x H)		LF	\$ -	=	\$ -		\$ -
Drainage Channel Lining, Concrete		CY	\$ 631.00	=	\$ -		\$ -
Drainage Channel Lining, Rip Rap		CY	\$ 124.00	=	\$ -		\$ -
Drainage Channel Lining, Grass		AC	\$ 1,626.00	=	\$ -		\$ -
Drainage Channel Lining, Other Stabilization				=	\$ -		\$ -
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -
Section 2 Subtotal				=	\$ 25,562.00		\$ 25,562.00

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

PROJECT INFORMATION							
Meadowbrook Park	9/30/2021			PUDSP208			
Project Name	Date			PCD File No.			
Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)	
SECTION 3 - COMMON DEVELOPMENT IMPROVEMENTS (Private or District and NOT Maintained by EPC)**							
ROADWAY IMPROVEMENTS							
Aggregate Base Course (135 lbs/cf)	747	CY	\$ 56.00	=	\$ 41,832.00		\$ 41,832.00
Asphalt Pavement (4" thick)	4,481	SY	\$ 21.00	=	\$ 94,101.00		\$ 94,101.00
Regulatory Sign/Advisory Sign	32	EA	\$ 333.00	=	\$ 10,656.00		\$ 10,656.00
Guide/Street Name Sign	8	EA	\$ 225.00	=	\$ 1,800.00		\$ 1,800.00
Curb and Gutter, Type A (6" Vertical)	1,916	LF	\$ 32.00	=	\$ 61,312.00		\$ 61,312.00
Curb and Gutter, Type C (Ramp)	1,908	LF	\$ 32.00	=	\$ 61,056.00		\$ 61,056.00
5" Sidewalk	2,184	SY	\$ 66.00	=	\$ 144,144.00		\$ 144,144.00
Pedestrian Ramp	19	EA	\$ 1,273.00	=	\$ 24,187.00		\$ 24,187.00
Cross Pan, local (8" thick, 6' wide to include return)	144	LF	\$ 67.00	=	\$ 9,648.00		\$ 9,648.00
							\$ -
STORM DRAIN IMPROVEMENTS (Exception: Permanent Pond/BMP shall be itemized under Section 1)							
10" PVC	175	LF	\$ 32.50	=	\$ 5,687.50		\$ 5,687.50
10" Culvert	8	LF	\$ 32.50	=	\$ 260.00		\$ 260.00
18" Reinforced Concrete Pipe	955	LF	\$ 70.00	=	\$ 66,850.00		\$ 66,850.00
24" Reinforced Concrete Pipe	255	LF	\$ 83.00	=	\$ 21,165.00		\$ 21,165.00
30" Reinforced Concrete Pipe	377	LF	\$ 104.00	=	\$ 39,208.00		\$ 39,208.00
36" Reinforced Concrete Pipe	46	LF	\$ 128.00	=	\$ 5,888.00		\$ 5,888.00
Curb Inlet (Type R) L=5' Depth <5'	5	EA	\$ 6,138.00	=	\$ 30,690.00		\$ 30,690.00
Curb Inlet (Type R) L=5' 5' ≤ Depth ≤ 10'	2	EA	\$ 7,981.00	=	\$ 15,962.00		\$ 15,962.00
Curb Inlet (Type D-10-R) L=4' Depth <5'	2	EA	\$ 8,000.00	=	\$ 16,000.00		\$ 16,000.00
CDOT Type D Inlet	2	EA	\$ 6,347.00	=	\$ 12,694.00		\$ 12,694.00
CDOT Type C Inlet	1	EA	\$ 5,138.00	=	\$ 5,138.00		\$ 5,138.00
Modified Type C Inlet	1	EA	\$ 10,750.00	=	\$ 10,750.00		\$ 10,750.00
8" Area Drain	2	EA	\$ 540.00	=	\$ 1,080.00		\$ 1,080.00
4' Type II Manhole (Flat Top)	2	EA	\$ 7,082.00	=	\$ 14,164.00		\$ 14,164.00
4' Type II Manhole (Eccentric Top)	3	EA	\$ 7,082.00	=	\$ 21,246.00		\$ 21,246.00
5' Type II Manhole (Flat Top)	4	EA	\$ 12,876.00	=	\$ 51,504.00		\$ 51,504.00
5' Type II Manhole (Eccentric Top)	2	EA	\$ 12,876.00	=	\$ 25,752.00		\$ 25,752.00
Maintenance Road Material (CDOT Class 6 Base)	36	CY	\$ 95.00	=	\$ 3,420.00		\$ 3,420.00
Rip Rap, Type L	130	CY	\$ 89.00	=	\$ 11,570.00		\$ 11,570.00
							\$ -
WATER SYSTEM IMPROVEMENTS							
Water Main Pipe (PVC), Size 8"	1,778	LF	\$ 71.00	=	\$ 126,238.00		\$ 126,238.00
Water Main Pipe (Ductile Iron), Size 8"	0	LF	\$ 83.00	=	\$ -		\$ -
Gate Valves, 8"	26	EA	\$ 2,058.00	=	\$ 53,508.00		\$ 53,508.00
Fire Hydrant Assembly, w/ all valves	6	EA	\$ 7,306.00	=	\$ 43,836.00		\$ 43,836.00
Water Service Line Installation, inc. tap and valves	67	EA	\$ 1,466.00	=	\$ 98,222.00		\$ 98,222.00
Fire Cistern Installation, complete	0	EA		=	\$ -		\$ -
Water Main Pipe (PVC), Size 12"	498	LF	\$ 86.00	=	\$ 42,828.00		\$ 42,828.00
Gate Valves, 6"	1	EA	\$ 2,058.00	=	\$ 2,058.00		\$ 2,058.00
Gate Valves, 12"	9	EA	\$ 2,510.00	=	\$ 22,590.00		\$ 22,590.00
Water Main Pipe (PVC), Size 6"	196	LF	\$ 64.00	=	\$ 12,544.00		\$ 12,544.00
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -
SANITARY SEWER IMPROVEMENTS							
Sewer Main Pipe (PVC), Size 8"	1,570	LF	\$ 71.00	=	\$ 111,470.00		\$ 111,470.00
Sanitary Sewer Manhole, Depth < 15 feet	10	EA	\$ 4,858.00	=	\$ 48,580.00		\$ 48,580.00
Sanitary Service Line Installation, complete	67	EA	\$ 1,553.00	=	\$ 104,051.00		\$ 104,051.00
Sanitary Sewer Lift Station, complete	0	EA		=	\$ -		\$ -
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -
LANDSCAPING IMPROVEMENTS (For subdivision specific condition of approval, or PUD)							
Screen Walls	1,230	LF	\$ 102.00	=	\$ 125,460.00		\$ 125,460.00
Retaining Walls	12,448	FF	\$ 44.00	=	\$ 547,712.00		\$ 547,712.00
2" Cal. Deciduous Trees	109	EA	\$ 550.00	=	\$ 59,950.00		\$ 59,950.00
6' Evergreen Trees	99	EA	\$ 450.00	=	\$ 44,550.00		\$ 44,550.00
3/4" - 1.5" Rock Mulch & 3CY/1000SF Soil Prep	5,189	SF	\$ 1.22	=	\$ 6,330.58		\$ 6,330.58
Cascade Wood Mulch & 3CY/SF Soil Prep	6,138	SF	\$ 1.30	=	\$ 7,979.40		\$ 7,979.40
Turf-type Fescue Sod & 3/CY/SF Soil Prep	20,722	SF	\$ 0.80	=	\$ 16,577.60		\$ 16,577.60
Native Seed	91,126	SF	\$ 0.25	=	\$ 22,781.50		\$ 22,781.50
Bench	6	EA	\$ 1,500.00	=	\$ 9,000.00		\$ 9,000.00
Shade Structure	1	EA	\$ 25,000.00	=	\$ 25,000.00		\$ 25,000.00
Fire Pit	1	EA	\$ 2,000.00	=	\$ 2,000.00		\$ 2,000.00
Dog Waste Station	7	EA	\$ 400.00	=	\$ 2,800.00		\$ 2,800.00
Tot-Lot Playground	1	EA	\$ 50,000.00	=	\$ 50,000.00		\$ 50,000.00
				=	\$ -		\$ -
Redi-Rock Big Block Retaining Wall (Wall Face Area)	12,500	SF	\$ 44.00	=	\$ 550,000.00		\$ 550,000.00
Section 3 Subtotal				=	\$ 2,943,830.58		\$ 2,943,830.58

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

PROJECT INFORMATION

Meadowbrook Park	9/30/2021	PUDSP208
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	\$ 12,850.00	=	\$	12,850.00	\$	12,850.00
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS	\$ 5,400.00	=	\$	5,400.00	\$	5,400.00
Total Construction Financial Assurance							\$	3,554,397.53
(Sum of all section subtotals plus as-builts and pond/BMP certification)								
Total Remaining Construction Financial Assurance (with Pre-Plat Construction)							\$	3,554,397.53
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)								
Total Defect Warranty Financial Assurance							\$	102,041.60
(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)

Kelly Nelson

06/06/2022

Approved by Owner / Applicant

Date

Approved by El Paso County Engineer / ECM Administrator

Date