

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

Updated: 6/7/2019

PROJECT INFORMATION			
Walden Preserve 2 - Filing No. 4 (23 lots; 2,017 LF)	8/30/2019	SF-18-034	
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	14,900	CY	\$ 5.00	= \$ 74,500.00		\$ 74,500.00
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 Seeding (inc. noxious weed mgmt.)	4	AC	\$ 800.00	= \$ 3,200.00		\$ 3,200.00
* Mulching	4	AC	\$ 750.00	= \$ 3,000.00		\$ 3,000.00
* Permanent Erosion Control Blanket	2,950	SY	\$ 6.00	= \$ 17,700.00		\$ 17,700.00
* Permanent Pond/BMP Construction	650	CY	\$ 20.00	= \$ 13,000.00		\$ 13,000.00
* Permanent Pond/BMP (Spillway / Forebay)	3	EA	\$ 8,000.00	= \$ 24,000.00		\$ 24,000.00
* Permanent Pond/BMP (Outlet Structure)	2	EA	\$ 6,000.00	= \$ 12,000.00		\$ 12,000.00
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	1,150	LF	\$ 2.50	= \$ 2,875.00		\$ 2,875.00
Temporary Seeding		AC	\$ 628.00	= \$ -		\$ -
Temporary Mulch		AC	\$ 750.00	= \$ -		\$ -
Erosion Bales		EA	\$ 25.00	= \$ -		\$ -
Erosion Logs/Straw Waddle	33	LF	\$ 5.00	= \$ 165.00		\$ 165.00
Rock Check Dams		EA	\$ 500.00	= \$ -		\$ -
Inlet Protection		EA	\$ 167.00	= \$ -		\$ -
Sediment Basin	1	EA	\$ 1,762.00	= \$ 1,762.00		\$ 1,762.00
Concrete Washout Basin		EA	\$ 900.00	= \$ -		\$ -
[insert items not listed but part of construction plans]				= \$ -		\$ -
MAINTENANCE (35% of Construction BMPs)				= \$ 2,510.20		\$ 2,510.20
Section 1 Subtotal				= \$ 157,082.20		\$ 157,082.20

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

SECTION 2 - PUBLIC IMPROVEMENTS *

ROADWAY IMPROVEMENTS						
Construction Traffic Control		LS		= \$ -		\$ -
Aggregate Base Course (135 lbs/cf)	2,075	Tons	\$ 28.00	= \$ 58,100.00		\$ 58,100.00
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)	0	SY	\$ 29.00	= \$ -		\$ -
Asphalt Pavement (147 lbs/cf) 4" thick	1,450	Tons	\$ 88.00	= \$ 127,600.00		\$ 127,600.00
Raised Median, Paved		SF	\$ 8.00	= \$ -		\$ -
Regulatory Sign/Advisory Sign	7	EA	\$ 300.00	= \$ 2,100.00		\$ 2,100.00
Guide/Street Name Sign	2	EA	\$ 100.00	= \$ 200.00		\$ 200.00
Epoxy Pavement Marking		SF	\$ 13.00	= \$ -		\$ -
Thermoplastic Pavement Marking		SF	\$ 23.00	= \$ -		\$ -
Barricade - Type 3		EA	\$ 200.00	= \$ -		\$ -
Delineator - Type I		EA	\$ 24.00	= \$ -		\$ -
Curb and Gutter, Type A (6" Vertical)		LF	\$ 30.00	= \$ -		\$ -
Curb and Gutter, Type B (Median)		LF	\$ 30.00	= \$ -		\$ -
Curb and Gutter, Type C (Ramp)		LF	\$ 30.00	= \$ -		\$ -
4" Sidewalk (common areas only)		SY	\$ 48.00	= \$ -		\$ -
5" Sidewalk		SY	\$ 60.00	= \$ -		\$ -
6" Sidewalk		SY	\$ 72.00	= \$ -		\$ -
8" Sidewalk		SY	\$ 96.00	= \$ -		\$ -
Pedestrian Ramp		EA	\$ 1,150.00	= \$ -		\$ -
Cross Pan, local (6" thick, 6' wide to include return)		LF	\$ 61.00	= \$ -		\$ -
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	\$ 49.00	= \$ -		\$ -
Guardrail Type 7 (Concrete)		LF	\$ 72.00	= \$ -		\$ -
Guardrail End Anchorage		EA	\$ 2,098.00	= \$ -		\$ -
Guardrail Impact Attenuator		EA	\$ 3,767.00	= \$ -		\$ -
Sound Barrier Fence (CMU block, 6' high)		LF	\$ 78.00	= \$ -		\$ -
Sound Barrier Fence (panels, 6' high)		LF	\$ 80.00	= \$ -		\$ -
Electrical Conduit, Size =		LF	\$ 16.00	= \$ -		\$ -
Traffic Signal, complete intersection		EA	\$ 425,000	= \$ -		\$ -

PROJECT INFORMATION									
Walden Preserve 2 - Filing No. 4 (23 lots; 2,017 LF)				8/30/2019			SF-18-034		
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]				=	\$ -		\$ -		
STORM DRAIN IMPROVEMENTS				=	\$ -		\$ -		
Concrete Box Culvert (M Standard), Size (W x H)		LF		=	\$ -		\$ -		
18" Reinforced Concrete Pipe	160	LF	\$ 65.00	=	\$ -		\$ -		
24" Reinforced Concrete Pipe		LF	\$ 78.00	=	\$ 12,480.00		\$ 12,480.00		
30" Reinforced Concrete Pipe		LF	\$ 97.00	=	\$ -		\$ -		
36" Reinforced Concrete Pipe		LF	\$ 120.00	=	\$ -		\$ -		
42" Reinforced Concrete Pipe		LF	\$ 160.00	=	\$ -		\$ -		
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 = 24"	4	EA	\$ 468.00	=	\$ 1,872.00		\$ 1,872.00		
(unit cost = 6x pipe unit cost)		EA		=	\$ -		\$ -		
Flared End Section (FES) CSP Size =		EA		=	\$ -		\$ -		
(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'		EA	\$ 5,542.00	=	\$ -		\$ -		
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'		EA	\$ 7,627.00	=	\$ -		\$ -		
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'		EA	\$ 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		EA	\$ 6,395.00	=	\$ -		\$ -		
Geotextile (Erosion Control)		SY	\$ 6.00	=	\$ -		\$ -		
Rip Rap, d50 size from 6" to 24"	15	Tons	\$ 80.00	=	\$ 1,200.00		\$ 1,200.00		
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]				=	\$ -		\$ -		
* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)				=	\$ -		\$ -		
Section 2 Subtotal				=	\$ 203,552.00		\$ 203,552.00		

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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)						
15" CMP/RCP Pipe	56	LF	\$ 55.00	=	\$ 3,080.00	\$ 3,080.00
24" CMP/RCP Pipe	25	LF	\$ 78.00	=	\$ 1,950.00	\$ 1,950.00
42" CMP/RCP Pipe	216	LF	\$ 160.00	=	\$ 34,560.00	\$ 34,560.00
Flared End Section (FES) RCP Size = 15"	1	EA	\$ 330.00	=	\$ 330.00	\$ 330.00
(unit cost = 6x pipe unit cost)						
Flared End Section (FES) RCP Size = 24"	2	EA	\$ 468.00	=	\$ 936.00	\$ 936.00
(unit cost = 6x pipe unit cost)						
Flared End Section (FES) RCP Size = 42"	2	EA	\$ 960.00	=	\$ 1,920.00	\$ 1,920.00
(unit cost = 6x pipe unit cost)						
Rip Rap, d50 size from 6" to 24"	23	Tons	\$ 80.00	=	\$ 1,800.00	\$ 1,800.00
				=	\$ -	\$ -
				=	\$ -	\$ -
WATER SYSTEM IMPROVEMENTS						
Water Main Pipe (PVC), Size 8"	2,450	LF	\$ 40.00	=	\$ 98,000.00	\$ 98,000.00
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 75.00	=	\$ -	\$ -
Gate Valves, 8"	6	EA	\$ 1,858.00	=	\$ 11,148.00	\$ 11,148.00
Fire Hydrant Assembly, w/ all valves	5	EA	\$ 6,597.00	=	\$ 32,985.00	\$ 32,985.00
Water Service Line Installation, inc. tap and valves	23	EA	\$ 1,324.00	=	\$ 30,452.00	\$ 30,452.00
Fire Cistern Installation, complete		EA		=	\$ -	\$ -
				=	\$ -	\$ -
[insert items not listed but part of construction plans]				=	\$ -	\$ -
SANITARY SEWER IMPROVEMENTS						
Sewer Main Pipe (PVC), Size 8"	1,300	LF	\$ 40.00	=	\$ 52,000.00	\$ 52,000.00
Sanitary Sewer Manhole, Depth < 15 feet	5	EA	\$ 4,386.00	=	\$ 21,930.00	\$ 21,930.00
Sanitary Service Line Installation, complete	23	EA	\$ 1,402.00	=	\$ 32,246.00	\$ 32,246.00
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				=	\$ 323,337.00	\$ 323,337.00
** - Section 3 is not subject to defect warranty requirements						

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Description	Quantity	Units	Unit Cost	Total	(with Pre-Plat Construction)	
					% Complete	Remaining
AS-BUILT PLANS (Public Improvements inc. Permanent WQCV BMPs)		LS	\$ 2,000.00	= \$ 2,000.00	\$	2,000.00
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS	\$ 2,000.00	= \$ 2,000.00	\$	2,000.00
Total Construction Financial Assurance					\$	687,971.20
(Sum of all section subtotals plus as-builts and pond/BMP certification)						
Total Remaining Construction Financial Assurance (with Pre-Plat Construction)					\$	687,971.20
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)						
Total Defect Warranty Financial Assurance					\$	70,190.40
(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 Elizabeth Nijkamp
El Paso County Planning and Community Development
on behalf of Jennifer Irvine, County Engineer, ECM Administrator

10/30/2019 1:23:40 PM