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

Updated: 7/16/2019

SECTION 1 – GRADING AND EROSION CONTROL (Construction and Permanent BMPs)

Description	Quantity	Units	Unit Cost	Total	% Complete	(with Pre-Plat Construction) Remaining
* 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	7,400	CY	$5.00	$37,000.00		$37,000.00
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 mgmnt.)	2	AC	$800.00	$1,200.00		$1,200.00
* Mulching	1	AC	$750.00	$750.00		$750.00
* Permanent Erosion Control Blanket		SY	$6.00	$ -		$ -
* Permanent Pond/BMP Construction	1,610	CY	$20.00	$32,200.00		$32,200.00
* Permanent Pond/BMP (Spillway)	2	EA	$12,000.00	$24,000.00		$24,000.00
* Permanent Pond/BMP (Outlet Structure)	2	EA	$4,000.00	$8,000.00		$8,000.00
Safety Fence	1,825	LF	$3.00	$5,475.00		$5,475.00
Temporary Erosion Control Blanket		SY	$3.00	$ -		$ -
Vehicle Tracking Control	2	EA	$2,370.00	$4,740.00		$4,740.00
Silt Fence	1,100	LF	$2.50	$2,750.00		$2,750.00
Temporary Seeding	3	AC	$628.00	$1,570.00		$1,570.00
Temporary Mulch	3	AC	$750.00	$1,875.00		$1,875.00
Erosion Bales	12	EA	$25.00	$300.00		$300.00
Erosion Logs/Straw Waddle		LF	$5.00	$ -		$ -
Rock Check Dams		EA	$500.00	$ -		$ -
Inlet Protection	9	EA	$167.00	$1,503.00		$1,503.00
Sediment Basin	2	EA	$1,762.00	$3,524.00		$3,524.00
Concrete Washout Basin	1	EA	$900.00	$900.00		$900.00
[insert items not listed but part of construction plans]				$ -		$ -
MAINTENANCE (35% of Construction BMPs)				$6,006.70		$6,006.70
Section 1 Subtotal				**$131,793.70**		**$131,793.70**

* – 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

Description	Quantity	Units	Unit Cost	Total	% Complete	Remaining
Construction Traffic Control	1	LS		$ -		$ -
Aggregate Base Course (135 lbs/cf)	2,392	Tons	$28.00	$66,976.00		$66,976.00
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)		SY	$29.00	$ -		$ -
Asphalt Pavement (147 lbs/cf) 4" thick	1,815	Tons	$88.00	$159,720.00		$159,720.00
Raised Median, Paved		SF	$8.00	$ -		$ -
Regulatory Sign/Advisory Sign	4	EA	$300.00	$1,200.00		$1,200.00
Guide/Street Name Sign	4	EA		$ -		$ -
Epoxy Pavement Marking	1,500	SF	$13.00	$19,500.00		$19,500.00
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)	800	LF	$30.00	$24,000.00		$24,000.00
Curb and Gutter, Type B (Median)		LF	$30.00	$ -		$ -
Curb and Gutter, Type C (Ramp)	3,600	LF	$30.00	$108,000.00		$108,000.00
4" Sidewalk (common areas only)	100	SY	$48.00	$4,800.00		$4,800.00
5" Sidewalk	2,201	SY	$60.00	$132,060.00		$132,060.00
6" Sidewalk		SY	$72.00	$ -		$ -
8" Sidewalk		SY	$96.00	$ -		$ -
Pedestrian Ramp	8	EA	$1,150.00	$9,200.00		$9,200.00
Cross Pan, local (8" thick, 6' wide to include return)	24	LF	$61.00	$1,464.00		$1,464.00
Cross Pan, collector (9" thick, 8' wide to include return)	36	LF	$92.00	$3,312.00		$3,312.00
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	$ -		$ -

Handwritten annotations:
- "provide the cost of this item." (→ Construction Traffic Control)
- "include parallel pedestrian ramps also. There should be a total of 15 ramps" (→ Pedestrian Ramp)
- "cross pan is shown on both fallow ln and running deer. Revise length" (→ Cross Pan)

Project Name: Gardens at North Carefree
Date: 8/27/2019
PCD File No.: SF195

Annotations (handwritten/marked in blue):
- The CD's indicate approx. 253' of 18"RCP. Revise
- Revise. It does not match the CD's and drainage report
- There are 2 manholes

Description	Quantity	Units	Unit Cost		Total	% Complete	Remaining (with Pre-Plat Construction)	
STORM DRAIN IMPROVEMENTS								
[Insert items not listed but part of construction plans]								
Concrete Box Culvert (M Standard), Size (W x H)		LF		=			-	*
18" Reinforced Concrete Pipe	180	LF	$ 65.00	=	11,700.00		11,700.00	*
24" Reinforced Concrete Pipe	28	LF	$ 78.00	=	2,184.00		2,184.00	*
30" Reinforced Concrete Pipe	150	LF	$ 97.00	=	14,550.00		14,550.00	*
36" Reinforced Concrete Pipe	23	LF	$ 120.00	=	2,760.00		2,760.00	*
42" Reinforced Concrete Pipe	35	LF	$ 160.00	=	5,600.00		5,600.00	*
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 = 36"/42"	2	EA	$ 1,120.00	=	2,240.00		2,240.00	*
(unit cost = 6x pipe unit cost)								
Flared End Section (FES) CSP Size =		EA		=	-		-	*
(unit cost = 6x pipe unit cost)								
End Treatment- Headwall		EA		=	-		-	*
End Treatment- Wingwall		EA		=	-		-	*
End Treatment - Cutoff Wall		EA		=	-		-	*
Curb Inlet (Type R) L=5', Depth < 5'	1	EA	$ 5,542.00	=	5,542.00		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'	1	EA	$ 7,861.00	=	7,861.00		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'	4	EA	$ 11,667.00	=	46,668.00		46,668.00	*
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	1	EA	$ 11,627.00	=				*
Storm Sewer Manhole, Slab Base	1	EA	$ 6,395.00	=	6,395.00		6,395.00	*
Geotextile (Erosion Control)		SY	$ 6.00	=	-		-	*
Rip Rap, d50 size from 6" to 24"	20	Tons	$ 80.00	=	1,600.00		1,600.00	*
Rip Rap, Grouted		Tons	$ 95.00	=	-		-	*
Drainage Channel Construction, Size (W x H)		LF		=	-		-	*
Drainage Channel Lining, Concrete	22	CY	$ 570.00	=	12,540.00		12,540.00	*
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]								
Section 2 Subtotal				=	**$ 649,872.00**		**$ 649,872.00**	*

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

Gardens at North Carefree							SF195
Project Name			8/27/2019				
			Date			PCD File No.	
				Unit			(with Pre-Plat Construction)
Description	Quantity	Units		Cost		Total	% 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)

						=	$	-		$	-		$	-
						=	$	-		$	-		$	-
						=	$	-		$	-		$	-
						=	$	-		$	-		$	-
						=	$	-		$	-		$	-

WATER SYSTEM IMPROVEMENTS

Water Main Pipe (PVC), Size 8"	2,450	LF	$	64.00		=	$	156,800.00		$	156,800.00		$	-
Water Main Pipe (Ductile Iron), Size 8"		LF	$	75.00		=	$	-		$	-		$	-
Gate Valves, 8"	9	EA	$	1,858.00		=	$	16,722.00		$	16,722.00		$	-
Fire Hydrant Assembly, w/ all valves	2	EA	$	6,597.00		=	$	13,194.00		$	13,194.00		$	-
Water Service Line Installation, inc. tap and valves	70	EA	$	1,324.00		=	$	92,680.00		$	92,680.00		$	-
Fire Cistern Installation, complete		EA				=	$	-		$	-		$	-
[insert items not listed but part of construction plans]						=	$	-		$	-		$	-

SANITARY SEWER IMPROVEMENTS

Sewer Main Pipe (PVC), Size 8"	2,250	LF	$	64.00		=	$	144,000.00		$	144,000.00		$	-
Sanitary Sewer Manhole, Depth < 15 feet	9	EA	$	4,386.00		=	$	39,474.00		$	39,474.00		$	-
Sanitary Service Line Installation, complete	70	EA	$	1,402.00		=	$	98,140.00		$	98,140.00		$	-
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 | | = | $ | 561,010.00 | | | | | $ | 561,010.00 |

* - Section 3 is not subject to defect warranty requirements

Project Name	Gardens at North Carefree
Date	8/27/2019
PCD File No.	SF195

Description	Quantity	Units	Unit Cost		Total	% Complete	(with Pre-Plat Construction) 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	$ 1,500.00	=	$ 1,500.00		$ 1,500.00

Total Construction Financial Assurance $ **1,346,175.70**
(Sum of all section subtotals plus as-builts and pond/BMP certification)

Total Remaining Construction Financial Assurance (with Pre-Plat Construction) $ **1,346,175.70**
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)

Total Defect Warranty Financial Assurance $ **150,604.40**
(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... shown on the Grading and Erosion Control Plan and Construction Drawings associated with the Project.

Engineer   (P.E. Seal Required)

Date 8/28/2019

Approved by Owner / Applicant _____ Date
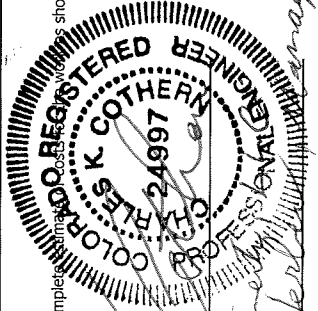
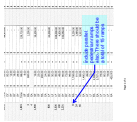Approved by El Paso County Engineer / ECM Administrator _____ Date
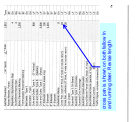
Markup Summary

Daniel Torres (6)
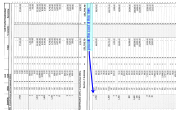
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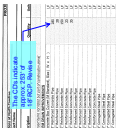
provide the cost of this item.

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Date: 9/29/2019 2:21:53 PM
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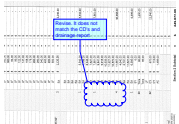include parallel pedestrian ramps also. There should be a total of 15 ramps

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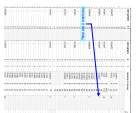cross pan is shown on both fallow ln and running deer. Revise length

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The CD's indicate approx. 253' of 18"RCP. Revise

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Date: 9/29/2019 2:51:15 PM
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Revise. It does not match the CD's and drainage report

Subject: Callout
Page Label: 2
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Date: 9/29/2019 2:51:50 PM
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There are 2 manholes