Staff recommends breaking this into 3 FAEs for the three segments.

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

Updated to Jan 2023 submittal

Updated: 11/4/2021

	1/25/2023 Date					PCD File No.				
	Ouantitu	Unite	Unit Cost			Total		Plat Construction)		
scription CTION 1 - GRADING AND EROSION CONTROL	Quantity (Construction and	Units Permanent B				IOLAI	% Complete	Remaining		
* Earthwork										
less than 1,000; \$5,300 min		CY	\$ 8.00	=	\$	-	9	; -		
1,000-5,000; \$8,000 min		CY	\$ 6.00	=	\$	-	9			
5,001-20,000; \$30,000 min		CY	\$ 5.00	=	\$	-	9			
20,001-50,000; \$100,000 min		CY	\$ 3.50	=	\$	-	9	; -		
50,001-200,000; \$175,000 min		CY	\$ 2.50	=	\$	-	9			
greater than 200,000; \$500,000 min	856,428	CY	\$ 2.00	=	\$	1,712,856.00	9			
* Permanent Seeding (inc. noxious weed mgmnt.)	48	AC	\$ 886.00	=	\$	42,528.00	9			
* Mulching	48	AC	\$ 831.00	=	\$	39,888.00	9			
* Permanent Erosion Control Blanket	-10	SY	\$ 7.00		\$	33,000.00	9			
* Permanent Pond/BMP Construction		CY			\$					
* Permanent Pond/BMP (provide engineer's estimate)		EA	\$ 22.00				9			
Permanent Pond/BiviP (provide engineer's estimate)					\$		9			
0.4.		EA		=	\$		9			
Safety Fence		LF	\$ 3.00	=	\$	-	9			
Temporary Erosion Control Blanket		SY	\$ 3.00	=	\$	-	9			
Vehicle Tracking Control	4	EA	\$ 2,625.00	=	\$	10,500.00	9			
Silt Fence	21,000	LF	\$ 3.00	=	\$	63,000.00	9	63,000.		
Temporary Seeding		AC	\$ 695.00	=	\$	-	9	; -		
Temporary Mulch		AC	\$ 831.00	=	\$	-	\$	-		
Erosion Bales		EA	\$ 28.00	=	\$	-	4	-		
Erosion Logs/Straw Wattles	2,000	LF	\$ 6.00	=	\$	12,000.00	9	12,000.		
Rock Check Dams	20	EA	\$ 1,000.00	=	\$	20,000.00	4			
nlet Protection		EA	\$ 185.00	=	\$	-,,	9			
Sediment Basin	2	EA	\$ 1,952.00		\$	3,904.00	9			
Concrete Washout Basin	3	EA	\$ 997.00	=	\$	2,991.00	9	-,		
Soliciele Washoul Basili	J	EA	\$ 991.00			2,331.00				
					\$	-	9			
[insert items not listed but part of construction plans]				=	\$	-	9	; -		
	MAINTENANCE (35	5% of Constr	ruction BMPs)	=	\$	39,338.25	\$	39,338.		
ubject to defect warranty financial assurance. A minimum of 20% shall be ted until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)		Section	on 1 Subtotal	=	\$ 1	1,947,005.25		1,947,005.2		
Aggregate Base Course (135 lbs/cf)		Tons	\$ 5,000.00 \$ 31.00	=	\$	-				
Aggregate Base Course (135 lbs/cf)		CY	\$ 56.00		\$	-	9			
Raised Median, Paved		SF	\$ 9.00	=	\$	-	9			
Barricade - Type 3		EA	\$ 221.00	=	\$	-	9			
Delineator - Type I		EA	\$ 27.00	=	\$	-	9			
Curb and Gutter, Type A (6" Vertical)		LF	\$ 32.00	=	\$	-	9			
Curb and Gutter, Type B (Median)		LF	\$ 32.00	=	\$	-	9			
Curb and Gutter, Type C (Ramp)		LF	\$ 32.00	=	\$	-				
l" Sidewalk (common areas only)		SY	\$ 53.00	=	\$	-	9			
5" Sidewalk		SY	\$ 66.00	=	\$	-	9	;		
5" Sidewalk		SY	\$ 80.00	=	\$	-	9	;		
" Sidewalk		SY	\$ 106.00		\$	-	9			
				=	\$	-	9	;		
						_	9			
				=	\$					
DRM DRAIN IMPROVEMENTS										
DRM DRAIN IMPROVEMENTS  16" Reinforced Concrete Pipe		LF	\$ 128.00	=	\$	-	4	; -		
PRM DRAIN IMPROVEMENTS 6" Reinforced Concrete Pipe 2" Reinforced Concrete Pipe		LF LF	\$ 128.00 \$ 171.00					; -		
DRM DRAIN IMPROVEMENTS 6° Reinforced Concrete Pipe 2° Reinforced Concrete Pipe Plared End Section (FES) RCP Size =		LF		=	\$	-	9	; - ; -		
DRM DRAIN IMPROVEMENTS  6° Reinforced Concrete Pipe  12" Reinforced Concrete Pipe  12ared End Section (FES) RCP Size =   unit cost = 6x pipe unit cost)				=	\$	- -	4	; ;		
DRM DRAIN IMPROVEMENTS  16" Reinforced Concrete Pipe  12" Reinforced Concrete Pipe  1ared End Section (FES) RCP  1ared End Section (FES) CSP  1ared End Section (FES) CSP		LF EA		= = =	\$ \$ \$	- - -	9	;		
DRM DRAIN IMPROVEMENTS		LF EA EA	\$ 171.00	= = =	\$ \$ \$	- - -	4	; - ; -		
IRM DRAIN IMPROVEMENTS 6* Reinforced Concrete Pipe 2* Reinforced Concrete Pipe lared End Section (FES) RCP Size = mint cost = & pipe unit cost) lared End Section (FES) CSP Size = mint cost = & pipe unit cost) rated Inlet (Type C), Depth < 5'		EA EA EA	\$ 171.00 \$ 5,138.00	= = =	\$ \$ \$ \$	- - -	4	; - ; -		
IRM DRAIN IMPROVEMENTS  6* Reinforced Concrete Pipe 2* Reinforced Concrete Pipe lared End Section (FES) RCP Size = mit cost = 6x pipe unit cost) lared End Section (FES) CSP Size = mit cost = 6x pipe unit cost) forated Inlet (Type C), Depth < 5' crated Inlet (Type D), Depth < 5'		EA EA EA EA	\$ 171.00 \$ 5,138.00 \$ 6,347.00	= = = =	\$ \$ \$ \$ \$	- - - -	9 9 9	; · · · · · · · · · · · · · · · · · · ·		
IRM DRAIN IMPROVEMENTS  ide Reinforced Concrete Pipe  ilared End Section (FES) RCP Size =   unit cost = 6x pipe unit cost)  l'arard End Section (FES) CSP Size =   unit cost = 6x pipe unit cost)  ilared End Section (FES) CSP Size =   unit cost = 6x pipe unit cost)  ilared End Section (FES) CSP Depth < 5'  Srated Inlet (Type D), Depth < 5'  Stated Inlet (Type D), De		EA EA EA EA EA	\$ 171.00 \$ 5,138.00 \$ 6,347.00 \$ 12,876.00	= = = =	\$ \$ \$ \$ \$ \$	- - - - -	9 9 9			
DRM DRAIN IMPROVEMENTS  IG'R Reinforced Concrete Pipe  2º Reinforced Concrete Pipe  lared End Section (FES) RCP Size = unit cost = & pipe unit cost)  clared End Section (FES) CSP Size = unit cost = & pipe unit cost)  crated Inlet (Type C), Depth < 5'  Stated Inlet (Type D), Depth < 5'  Storm Sewer Manhole, Box Base  Seotextile (Erosion Control)		EA EA EA EA	\$ 171.00 \$ 5,138.00 \$ 6,347.00 \$ 12,876.00 \$ 7.00	= = = =	\$ \$ \$ \$ \$	- - - -	9 9 9			
IRM DRAIN IMPROVEMENTS 6* Reinforced Concrete Pipe 2* Reinforced Concrete Pipe lared End Section (FES) RCP Size = miticost = & pipe unit cost) lared End Section (FES) CSP Size = mit cost = & pipe unit cost) rated Inlet (Type C), Depth < 5' strated Inlet (Type D), Depth < 5' torm Sewer Manhole, Box Base selectatile (Erosion Control)		EA EA EA EA EA	\$ 171.00 \$ 5,138.00 \$ 6,347.00 \$ 12,876.00	= = = = = =	\$ \$ \$ \$ \$ \$	- - - - -	9 9 9	;		
IRM DRAIN IMPROVEMENTS  6° Reinforced Concrete Pipe 2° Reinforced Concrete Pipe lared End Section (FES) RCP Size = mit cost = 6x pipe unit cost) lared End Section (FES) CSP Size = mit cost = 6x pipe unit cost) forated Inlet (Type C), Depth < 5' crated Inlet (Type D), Depth < 5' crossewer Manhole, Box Base Seotextile (Erosion Control) lip Rap, d50 size from 6° to 24'		EA EA EA EA EA SY	\$ 171.00 \$ 5,138.00 \$ 6,347.00 \$ 12,876.00 \$ 7.00	= = = = = = =	\$ \$ \$ \$ \$ \$	-	9 9 9			
RRM DRAIN IMPROVEMENTS  is Reinforced Concrete Pipe  ilared End Section (FES) RCP Size =  unit cost = 6x pipe unit cost)  l'alared End Section (FES) CSP Size =  unit cost = 6x pipe unit cost)  l'alared End Section (FES) CSP Size =  unit cost = 6x pipe unit cost)  l'arated Inlet (Type C), Depth < 5'  strated Inlet (Type D), Depth < 5'  strated Inlet (Type D), Size =  strated Inlet (Type D), Depth < 5'  strated Inlet (Type D), Size =  strated I		EA EA EA EA EA SY Tons	\$ 171.00 \$ 5,138.00 \$ 6,347.00 \$ 12,876.00 \$ 7.00 \$ 89.00	= = = = = = = = = = = = = = = = = = = =	\$ \$ \$ \$ \$ \$ \$	-	4 4 4 9 9			
IRM DRAIN IMPROVEMENTS 6* Reinforced Concrete Pipe 2* Reinforced Concrete Pipe lared End Section (FES) RCP Size = mint cost = 8x pipe unit cost) clared End Section (FES) CSP Size = mint cost = 6x pipe unit cost) clared End Section (FES) CSP Size = mint cost = 6x pipe unit cost) clared End Section (FES) CSP Size = mint cost = 6x pipe unit cost) clared Inlet (Type C), Depth < 5' created Inlet (Type D), Depth < 5' clorm Sewer Manhole, Box Base detectable (Erosion Control) tip Rap, d50 size from 6" to 24" tip Rap, Grouted trainage Channel Construction, Size ( W x H )		EA EA EA EA EA FA FA FA FORS Tons LF	\$ 171.00 \$ 5,138.00 \$ 6,347.00 \$ 12,876.00 \$ 7.00 \$ 89.00 \$ 105.00 \$ -	= = = = = = = = = =	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	-	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9			
IRM DRAIN IMPROVEMENTS  6* Reinforced Concrete Pipe 2* Reinforced Concrete Pipe lared End Section (FES) RCP Size = unit cost = 6x pipe unit cost) lared End Section (FES) CSP Size = unit cost = 6x pipe unit cost) Srated Inlet (Type C), Depth < 5' Srated Inlet (Type D), Depth < 5' Storm Sewer Manhole, Box Base Seotextile (Erosion Control) Itip Rap, d50 size from 6" to 24" Itip Rap, Grouted Orainage Channel Construction, Size ( W x H ) Prainage Channel Lining, Concrete		EA EA EA EA SY Tons Tons LF CY	\$ 5,138.00 \$ 6,347.00 \$ 12,876.00 \$ 7.00 \$ 89.00 \$ 105.00 \$ - \$ 631.00	= = = = = = = = = = = = = = = = = = = =	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	-	4 4 4 9 9 9 9			
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DRM DRAIN IMPROVEMENTS  Ich Reinforced Concrete Pipe  12* Reinforced Concrete Pipe  12* Reinforced Concrete Pipe  13red End Section (FES) RCP Size = unit cost = & pipe unit cost)  15 Tared End Section (FES) CSP Size = unit cost = & pipe unit cost)  15 Tared End Section (FES) CSP Size = unit cost = & pipe unit cost)  15 Tared Inlet (Type C), Depth < 5'  15 Tared Inlet (Type D), Depth < 5'  15 Torm Sewer Manhole, Box Base  15 Eleotextile (Erosion Control)  15 Ip Rap, d50 size from 6" to 24"  15 Ip Rap, Grouted  15 Tarianage Channel Construction, Size (W x H)  15 Tarianage Channel Lining, Concrete  15 Tarianage Channel Lining, Grass  15 Tarianage Channel Lining, Grass		EA EA EA EA SY Tons Tons LF CY	\$ 5,138.00 \$ 6,347.00 \$ 12,876.00 \$ 7.00 \$ 89.00 \$ 105.00 \$ - \$ 631.00	= = = = = = = = = = = = = = = = = = = =	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	-				
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DRM DRAIN IMPROVEMENTS  IG' Reinforced Concrete Pipe  2º Reinforced Concrete Pipe  1ared End Section (FES) RCP Size = unit cost = Kpipe unit cost)  Tared End Section (FES) CSP Size = unit cost = Kpipe unit cost)  Tared End Section (FES) CSP Size = unit cost = Kpipe unit cost)  Tared Inter (Type C), Depth < 5'  Tared Inter (Type D), Depth < 5'  Tared Inter (Type C), Depth < 5'  Tared Inter (Type C), Depth < 5'  Tared Inter (Type C), Total Cost (Type C), Depth < 5'  Tared Inter (Type C), Depth < 5'  Tared (Ty		EA EA EA EA EA Tons Tons LF CY CY	\$ 5,138.00 \$ 6,347.00 \$ 12,876.00 \$ 12,876.00 \$ 105.00 \$ 105.00 \$ 631.00 \$ 124.00	= = = = = = = = = = = = = = = = = = = =	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	-				
DRM DRAIN IMPROVEMENTS  66" Reinforced Concrete Pipe  12" Reinforced Concrete Pipe  12" Reinforced Concrete Pipe  13" Reinforced Concrete Pipe  14" Reinforced Concrete Pipe  15" Reinforced Reinforced Reinforced  15" Reinfor		EA EA EA EA EA SY Tons Tons LF CY AC	\$ 171.00 \$ 5,138.00 \$ 6,347.00 \$ 12,876.00 \$ 7.00 \$ 89.00 \$ 105.00 \$ - \$ 631.00 \$ 124.00 \$ 1,626.00	= = = = = = = = = = = = = = = = = = =	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	-				
DRM DRAIN IMPROVEMENTS  66" Reinforced Concrete Pipe  12" Reinforced Concrete Pipe  12" Reinforced Concrete Pipe  13" Reinforced Concrete Pipe  14" Reinforced Concrete Pipe  15" Reinforced Reinforced Reinforced  15" Reinfor		EA EA EA EA EA SY Tons Tons LF CY AC	\$ 5,138.00 \$ 6,347.00 \$ 12,876.00 \$ 12,876.00 \$ 105.00 \$ 105.00 \$ 631.00 \$ 124.00	= = = = = = = = = = = = = = = = = = =	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	-				
Grated Inlet (Type D),  Depth < 5'  Storm Sewer Manhole, Box Base  Seotextile (Erosion Control)  Rip Rap, d50 size from 6" to 24"  Rip Rap, Grouted  Torainage Channel Construction, Size ( W x H )  Orainage Channel Lining, Concrete  Drainage Channel Lining, Rip Rap  Drainage Channel Lining, Grass  Drainage Channel Lining, Other Stabilization  insert items no visited but part of consbuction plans)  insert items no visited but part of consbuction plans)  bybet to defect warrang financial assurance. A milynum of 20% shall be		EA EA EA EA EA SY Tons Tons LF CY AC	\$ 171.00 \$ 5,138.00 \$ 6,347.00 \$ 12,876.00 \$ 7.00 \$ 89.00 \$ 105.00 \$ - \$ 631.00 \$ 124.00 \$ 1,626.00	= = = = = = = = = = = = = = = = = = =	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	-				

Outfall pipe extensions?

Call out bank stabilization areas

Call out soil riprap and void-filled riprap that is separate from riffles and drop structures

ROADWAY IMPROVEMENTS	IEN 13 (Private	or District	and NOT Mai	intained by	( EPC)***		
ROADWAY IMPROVEMENTS				_	\$ -	l s	
					\$ -	\$	-
STORM DRAIN IMPROVEMENTS (Excep	tion: Permanent Por	nd/BMP shall b	e itemized under	Section 1)	Ψ		
Low Flow Channel Pool Section	3,800	LF	\$ 105	000.011 1)	\$ 399,000.00	\$	399,000.00
Low Flow Channel Riffle Section	4,800	LF	\$ 85	=	\$ 408,000.00	\$	408,000.00
GSB Drop Structures	6	EA	\$ 450,000	=	\$ 2,700,000.00	\$	2,700,000.00
Existing Pond 2 Rip Rap Rundown	1	EA	\$ 200,000		\$ 200,000.00	\$	200,000.00
Concrete Box Culvert (M Standard), Size ( 12'W x 10' H )	135	LF	\$ 2,000	=	\$ 270,000.00	\$	270,000.00
Concrete Box Culvert (M Standard), Size ( 10'W x 10' H )	87	LF	\$ 1,800	=	\$ 156,600.00	\$	156,600.00
Concrete Box Culvert (M Standard), Size ( 13'W x 4' H )	186	LF	\$ 1,300	=	\$ 241,800.00	\$	241,800.00
Concrete Box Culvert (M Standard), Size ( 13'W x 2' H )	93	LF	\$ 900	=	\$ 83,700.00	\$	83,700.00
End Treatment- Headwall W-3, Pond 1 & 2	25	CY	\$ 850	=	\$ 21,250.00	\$	21,250.00
End Treatment- Wingwall W-3, Pond 1 & 2	40	CY	\$ 850	=	\$ 34,000.00	\$	34,000.00
End Treatment - Cutoff WallW-3, Pond 1 & 2	35	CY	\$ 850		\$ 29,750.00	\$	29,750.00
Storm Sewer Manhole, Slab Base, 25x25'	25.000	EA	\$ 50,000		\$ 100,000.00	\$	100,000.00
Geotextile (Erosion Control)	35,000	SY	\$ 7.00		\$ 245,000.00	\$	245,000.00
Overflow spillway structure, W-3, Pond 1 & 2	3	EA	\$ 150,000.00		\$ 450,000.00	\$	450,000.00 525,000.00
Pile Cutoff Walls  Maint. Access Rds/Trails and Turnarounds, 6" Class 2	270,000	EA SF	\$ 75,000.00		\$ 525,000.00	\$	
Maint. Access Rds/Trails and Turnarounds, 6" Class 2	270,000	SF	\$ 2.00		\$ 540,000.00	\$	540,000.00
					ф	\$	
WATER SYSTEM IMPROVEMENTS AC	ld concr	ete tr	ail and	reinfo	ced section	hns li	-
Water Main Pipe (PVC), Size 8"	ia corior	CICLI	4	I CII II C		\$	-
Water Main Pipe (PVC), Size 8"		LF	\$ 83	=	\$ -	\$	
Gate Valves, 8"		EA	\$ 2,058	=	\$ -	\$	
Fire Hydrant Assembly, w/ all valves		EA	\$ 7,306	=	\$ -	\$	-
Water Service Line Installation, inc. tap and valves		EA	\$ 1,466	=	\$ -	\$	-
Fire Cistern Installation, complete		EA	2,.30	=	\$ -	\$	-
[insert items not listed but part of construction plans				=	\$ -	\$	-
SANITARY SEWER IMPROVEMENTS							
Sewer Main Pipe (PVC), Size 8"		LF	\$ 71	=	\$ -	\$	-
Sanitary Sewer Manhole, Depth < 15 feet		EA	\$ 4,858	=	\$ -	\$	-
Sanitary Service Line Installation, complete		EA	\$ 1,553	=	\$ -	\$	-
Sanitary Sewer Lift Station, complete		EA		=	\$ -	\$	-
				=	\$ -	\$	-
[insert items not listed but part of construction plans]				=	\$ -	\$	-
	(For subdivision sp						
LANDSCAPING IMPROVEMENTS	(FOI SUDDIVISION SP	ecific conditior	of approval, or P	UD)			
LANDSCAPING IMPROVEMENTS Wetland Mitigation Plantings / Stabilization	(For subdivision sp	EA	of approval, or P \$ 75,000.00	PUD)	\$ 447,000.00	\$	447,000.00
	(For subdivision sp	EA EA			\$ -	\$	447,000.00
	(For subdivision sp	EA EA EA		= = =	\$ - \$ -	\$	447,000.00 - -
Wetland Mitigation Plantings / Stabilization	6	EA EA EA	\$ 75,000.00	= = = =	\$ - \$ - \$ -	\$	- -
	(For sub-insion sp	EA EA EA		= = =	\$ - \$ -	\$	- -
Wetland Mitigation Plantings / Stabilization  **- Section 3 is not subject to defect warranty requirements	6	EA EA EA EA Secti	\$ 75,000.00 on 3 Subtotal	= = = = =	\$ \$ \$ 6,851,100.00	\$	6,851,100.00
Wetland Mitigation Plantings / Stabilization  " Section 3 is not subject to defect warranty requirements  AS-BUILT PLANS (Public Imagrovements inc. Permanent WQCV	BMPs)	EA EA EA EA Secti	\$ 75,000.00 on 3 Subtotal \$ 20,000.00	= = = = = = = = = = = = = = = = = = = =	\$ - \$ - \$ <b>6,851,100.00</b> \$ 20,000.00	\$ \$ \$	6,851,100.00 20,000.00
Wetland Mitigation Plantings / Stabilization  "- Section 3 is not subject budefect warranty requirements  AS-BUILT PLANS (Public Improvements inc. Permanent WQCV POND/BMP CERTIFICATION (inc. elevations and volume calcul	BMPs) ations)	EA EA EA EA Secti	\$ 75,000.00 on 3 Subtotal \$ 20,000.00 \$ 10,000.00	= = = = =	\$ \$ \$ 6,851,100.00	\$	6,851,100.00
Wetland Mitigation Plantings / Stabilization  "- Section 3 is not subject budefect warranty requirements  AS-BUILT PLANS (Public Improvements inc. Permanent WQCV POND/BMP CERTIFICATION (inc. elevations and volume calcul	BMPs) ations)	EA EA EA EA Secti	\$ 75,000.00 on 3 Subtotal \$ 20,000.00 \$ 10,000.00	= = = = = = = = = = = = = = = = = = = =	\$ - \$ \$ - \$ \$ <b>6,851,100.00</b> \$ 20,000.00 \$ 10,000.00	\$ \$ \$	6,851,100.00 20,000.00 10,000.00
Wetland Mitigation Plantings / Stabilization  "- Section 3 is not subject budefect warranty requirements  AS-BUILT PLANS (Public Improvements inc. Permanent WQCV POND/BMP CERTIFICATION (inc. elevations and volume calcul	BMPs)	EA EA EA EA Secti	\$ 75,000.00 on 3 Subtotal \$ 20,000.00 \$ 10,000.00 tems	= = = = = = = = = = = = = = = = = = =	\$ \$ \$ 6,851,100.00 \$ 20,000.00 \$ 10,000.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	6,851,100.00 20,000.00 10,000.00
Wetland Mitigation Plantings / Stabilization  "- Section 3 is not subject budefect warranty requirements  AS-BUILT PLANS (Public Improvements inc. Permanent WQCV POND/BMP CERTIFICATION (inc. elevations and volume calcul	BMPs) ations)	EA EA EA EA Secti	\$ 75,000.00 on 3 Subtotal \$ 20,000.00 \$ 10,000.00 tems	= = = = = = = = = = = = = = = = = = =	\$ - \$ \$ - \$ \$ <b>6,851,100.00</b> \$ 20,000.00 \$ 10,000.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	6,851,100.00 20,000.00 10,000.00
Wetland Mitigation Plantings / Stabilization  ***- Section 3 is not subject to defect warranty requirements  AS-BUILT PLANS (Public Improvements inc. Permanent WQCV POND/BMP CERTIFICATION (inc. elevations and volume calcul	BMPs) ations)	EA EA EA EA Secti	\$ 75,000.00 on 3 Subtotal \$ 20,000.00 \$ 10,000.00 tems	= = = = = = = = = = = = = = = = = = =	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	20,000.00 10,000.00 8,828,105.25
Wetland Mitigation Plantings / Stabilization  "- Section 3 is not subject budefect warranty requirements  AS-BUILT PLANS (Public Improvements inc. Permanent WQCV POND/BMP CERTIFICATION (inc. elevations and volume calcul	BMPs) ations) dd Agric	EA EA EA Secti LS LS	\$ 75,000.00 on 3 Subtotal \$ 20,000.00 \$ 10,000.00 tems (Sum of all se	= = = = = = = Total (	\$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -
Wetland Mitigation Plantings / Stabilization  ***- Section 3 is not subject to defect warranty requirements  AS-BUILT PLANS (Public Improvements inc. Permanent WQCV POND/BMP CERTIFICATION (inc. elevations and volume calcul	BMPs) ations) dd Agric	EA EA EA Secti LS LS	\$ 75,000.00 on 3 Subtotal \$ 20,000.00 \$ 10,000.00 tems (Sum of all se	= = = = = = = Total (	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	20,000.00 10,000.00 8,828,105.25
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## Approved FAE and Bonded

Updated: 11/4/2021

## 2022 Financial Assurance Estimate Form

(with pre-plat construction)

Sand Creek Channel Improvements Project Name 7/4/2022 CDR 204 PCD File No. (with Pre-Plat Construction) Quantity Units SECTION 1 - GRADING AND EROSION CONTROL (Construction and Permanent BMPs)

\* Earthwork Cost Total % Complete Remaining 8 00 6 00 5 00 3 50 2 50 less than 1,000; \$5,300 min 1,000-5,000; \$8,000 min 5,001-20,000; \$30,000 min CY 20,001-50,000; \$100,000 min 50,001-200,000; \$175,000 min greater than 200,000; \$500,000 min
\* Permanent Seeding (inc. noxious weed mgmnt.) 856,428 15 15 2 00 886 00 1,712,856,00 1,712,856,00 AC AC SY Mulching
 Permanent Erosion Control Blanket
 Permanent Pond/BMP Construction B31 00 12,465.00 12,465.00 22.00 EAEALF \* Permanent Pond/BMP (provide engineer's estimate) Safety Fence 3 00 3 00 2,625 00 Temporary Erosion Control Blanket SYAFAGALFAA Vehicle Tracking Control 10 500 00 10.500.00 10,500 3 00 695 00 31,500.00 Temporary Seeding Temporary Mulch Erosion Bales 831 00 28 00 Erosion Logs/Straw Wattles Rock Check Dams 2,000 6 00 12,000.00 12,000.00 Inlet Protection 185 00 Sediment Ratio 952 00 Concrete Washout Basin 1,994.00 1,994.00 finsert items mit listed but part of construction plans) MAINTENANCE (35% of Construction BMPs) 26,597.90 26,597.90 Subject to defect verranty financial assurance. A minimum of 20% shall be tained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED). Section 1 Subtotal 1,841,202.90 1,841,202.90 = \$ ECTION 2 - PUBLIC IMPROVEMENTS ROADWAY IMPROVEMENTS
Construction Traffic Control 5,000.00 Aggregate Base Course Aggregate Base Course Raised Median, Paved Tons CY SF (135 lbs/cf) 31 00 56 00 9.00 Barricade - Type 3 Delineator - Type I 221 00 27 00 EALFIF Curb and Gutter, Type A (8" VC Curb and Gutter, Type B (Medi Curb and Gutter, Type C (Ram 4" Sidewalk (common areas only) 5" Sidewalk (6" Vertical) 32 00 (Median) (Ramp) 32 00 32 00 SY SY 53 00 66 00 5" Sidewalk SY 80 00 [insert items not isseed but part of construction plans]
STORM DRAIN IMPROVEMENTS
38\* Reinforced Concrete Pipe
42\* Reinforced Concrete Pipe
Flared End Section (FES) RCP
Size = \$ EA Flared End Section (FES) CSP Size = EAGAGA (unt cost v 6s ppe und cost)
Grated Inlet (Type C),
Grated Inlet (Type D),
Storm Sewer Manhole, Box Base 5,138.00 6.347.00 12.876.00 7.00 Depth < 5 Depth < 5 Geotextile (Erosion Control) SY Rip Rap, d50 size from 6" to 24" Rip Rap, Grouted Tons Tons LF CY Drainage Channel Construction, Size ( W x H )
Drainage Channel Lining, Concrete 631.00 Drainage Channel Lining, Rip Rap Drainage Channel Lining, Grass CY Drainage Channel Lining, Other Stabilization [insert items not listed but part of construction plans] Subject to detect warranty financial seasons. A minimum of 20% shall be lared until final acceptance (MAXMAVIII OF 80% COMPLETE ALLOWED) \$ Section 2 Subtotal \$ \$

SECTION 3 - COMMON DEVELOPMENT IMPROVEM ROADWAY IMPROVEMENTS	ENTS (Private o	or Distric	t and NO	Maintal	ned by	EPC)**			
A Company of the Comp	i de la laci							\$	
TORM DRAIN IMPROVEMENTS (Excepti	on Permanent Ponc	VBMP shall	be itemized	under Section	on 1)		E G. New York St.	•	
Low Flow Channel Pool Section	3,600	LF	\$	105	- 1:	\$ 399,000.00	270 500	\$	399,000.0
Low Flow Channel Riffle Section	4,800	UF	\$	85	•	408,000.00		\$	408,000.0
GSB Drop Structures	5 2 2 2 2 2 2 5	EA		,000	•	2,250,000.00		\$	2,250,000.0
Existing Pond 2 Rip Rap Rundown	1	EA		,000		200,000.00		\$	200,000.0
Concrete Box Culvert (M Standard), Size ( 12'W x 10'H )	135	LF_		,000		270,000.00	Market Services	§	270,000.0
Concrete Box Culvert (M Standard), Size ( 10W x 10"H )	87 166	LF		,800		156,600.00	Access to the	·	156,600.0
Concrete Box Culvert (M Standard), Size ( 13W x 4' H ) Concrete Box Culvert (M Standard), Size ( 13W x 2' H )	93	LF		900	1	241,800.00		}	241,800.0
End Treatment- Headwall W-3, Pond 1 & 2	25	CY	1.	850		83,700.00 21,250.00			83,700.0 21,250.0
End Treatment- Wingwall W-3, Pond 1 & 2	40	CY	1	850		34,000.00		:	34,000.0
End Treatment - Cutoff WalfW-3, Pond 1 & 2	35	CY	3	850	0	29,750.00			29,750.0
Storm Sewer Manhole, Slab Base, 25x25'	2	EA		,000	-	100,000.00		\$	100,000.0
Geotextile (Erosion Control)	35,000	SY	\$	7.00		245,000.00		\$	245,000.0
Overflow spillway structure, W-3, Pond 1 & 2	3	EA	\$ 150,00			450,000.00		\$	450,000.0
Maint. Access Rds/Trails and Turnarounds, 6° Class 2	270,000	SF	s	2 00		5-10,000.00		\$	540,000.0
	270,000					•		•	270,000.0
ATER SYSTEM IMPROVEMENTS					•		CERTIFICATIVES	\$	15
Water Main Pipe (PVC), Size 8"		LF	\$	71			January 1	\$	
Water Main Pipe (Ductile Iron), Size 8*		LF	\$	83	=			\$	
Gate Valves, 8"		EA	\$ 2	,058		•		\$	
Fire Hydrant Assembly, w/ all valves		EA	\$ 7	,306				\$	-
Water Service Line Installation, inc. tap and valves		EA	\$ 1	,466	•			\$	
Fire Cistern Installation, complete		EA				•		\$	
[insert items not issed but part of construction plans]					•	•		\$	
ANITARY SEWER IMPROVEMENTS			- ·						
Sewer Main Pipe (PVC), Size 8		LF	5	71		•		\$	•
Sanitary Sewer Manhole, Depth < 15 feet		EA EA		,858	•			\$	•
Sanitary Service Line Installation, complete				,553		12	No.	\$	
Sanitary Sewer Lift Station, complete		EA				1		5	
Provide the second seco						•		\$	•
[insert items not listed but part of construction plans] ANDSCAPING IMPROVEMENTS	For subdivision spec	odie ecoddi	on of anomu	A PHO	•		March South	\$	•
Wettend Mitigation Plantings / Stabilization	6	EA	\$ 75,00		. 1	447,000.00			447,000.0
Transit Magazini Flantings / Statistation	established a	EA	\$ 73,00	0.00		447,000.00	NAME OF TAXABLE PARTY.		447,000.0
		EA						:	-
	Line and to i	EA			•			\$	-
- Section 3 is not subject to defect warranty requirements		Sec	tion 3 Sub	total	=	\$ 5,876,100.00		\$ 5,	876,100.00
S-BUILT PLANS (Public Improvements Inc. Permanent WQCV I		LS	\$ 20,00		x :	20,000.00		s	20,000.0
OND/BMP CERTIFICATION (Inc. elevations and volume calcula	tions)	LS	\$ 10,00	0.00	•	\$ 10,000.00		\$	10,000 0
÷			/C			onstruction Financia		\$ 7,	747,302.90
			(Sum o	all tection	lubiolais <sub>i</sub>	plus as-builts and pond/BA			
	(Acco	ounting for a	current status	of plans, or	ly applied	CONTI to Section 3 Storm Drain	ngency (3%)	1	162,873.00
					Total C	onstruction Financia	LAggurance		
			(Sum o	all section	uberta	Bond as built and pand/BA	(P certification)		910,175.90
				_	Apr	DO LICE VI		25 6	a recorderates and
				ДР	a Gale	ct Machual Lingdefa	Assurance	\$	347,722.20
	Ç	20% of all i	tems identifie	das	be correte	esecutivis of security	(y acceptance)		
				4	1	110	à		
Approvals				8	2	145	и		
hereby certify that this is an accurate and complete estimate of cos	sts for the work as sh	nown on the	e Grading and	Egylon Co	itrol Plan.	and Construction Drawings	sociated with	the Projec	t.
				N.	7	11/22:00	Ø		
11117	1.11			VX 3	** //	6	3		
Mel Dea	1701			A)	Kro.	······································			
Engineer (P.E.,Seal,Required)/				40	12521	ONALE			
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126/11/			4	4/7	672				
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EPC Planning & Community
Development Department