

2024 Financial Assurance Estimate Form

(with pre-plate construction)

Updated: 10/2023

PROJECT INFORMATION

The Shire at Old Ranch	3/26/2024	VA-202
Project Name	Date	PCD File No.

Description	Quantity	Units	Unit Cost	Total	(with Pre-Plate Construction) % Complete	Remaining
SECTION 1 - GRADING AND EROSION CONTROL (Construction and Permanent BMPs)						
Earthwork						
less than 1,000: \$5,300 min						
1,000-5,000: \$8,000 min	2500	CY	\$ 8.00	\$ 15,000.00		\$ 15,000.00
5,001-20,000: \$30,000 min		CY	\$ 5.00	\$ -		\$ -
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		SY	\$ 2.00	\$ -		\$ -
Permanent Erosion Control Blanket		SY	\$ 9.00	\$ -		\$ -
Permanent Seeding (inc. noxious weed mgmt.) & Mulching	4	AC	\$ 2,018.00	\$ 8,072.00		\$ 8,072.00
Permanent Ponds/BMP (provide engineer's estimate)	1	EA	\$ 26,840.00	\$ 26,840.00		\$ 26,840.00
Concrete Washout Basin	1	EA	\$ 1,172.00	\$ 1,172.00		\$ 1,172.00
Inlet Protection		EA	\$ 217.00	\$ -		\$ -
Rock Check Dam		EA	\$ 651.00	\$ -		\$ -
Safety Fence		LF	\$ 3.00	\$ -		\$ -
Sediment Basin		EA	\$ 2,294.00	\$ -		\$ -
Silt Fence	2620	EA	\$ 538.00	\$ 7,860.00		\$ 7,860.00
Slope Drain		LF	\$ 3.00	\$ -		\$ -
Straw Bale		LF	\$ 43.00	\$ -		\$ -
Straw Wattle/Rock Sock	30	EA	\$ 33.00	\$ 990.00		\$ 990.00
Surface Roughening	310	LF	\$ 8.00	\$ 2,480.00		\$ 2,480.00
Temporary Erosion Control Blanket		SY	\$ 269.00	\$ -		\$ -
Temporary Seeding and Mulching	400	SY	\$ 3.00	\$ 1,200.00		\$ 1,200.00
Vehicle Tracking Control	4	AC	\$ 1,793.00	\$ 7,172.00		\$ 7,172.00
	1	EA	\$ 3,085.00	\$ 3,085.00		\$ 3,085.00
				\$ 7,975.45		\$ 7,975.45
MAINTENANCE (35% of Construction BMPs)						
				\$ 81,846.45		\$ 81,846.45
Section 1 Subtotal				\$ 81,846.45		\$ 81,846.45

* - 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	(with Pre-Plate Construction) % Complete	Remaining
Construction Traffic Control		LS				
Aggregate Base Course	(135 lbs/cf)	Tons	\$ 37.00	\$ -		\$ -
Aggregate Base Course	(135 lbs/cf)	CY	\$ 66.00	\$ -		\$ -
Asphalt Pavement (3" thick)		SY	\$ 18.00	\$ -		\$ -
Asphalt Pavement (4" thick)	SEE SECTION 3	SY	\$ 25.00	\$ -		\$ -
Asphalt Pavement (6" thick)		SY	\$ 38.00	\$ -		\$ -
Asphalt Pavement (6" thick)	(147 lbs/cf)	Tons	\$ 114.00	\$ -		\$ -
Raised Median, Paved		SF	\$ 11.00	\$ -		\$ -
Regulatory Sign/Advisory Sign		EA	\$ 392.00	\$ -		\$ -
Guide/Street Name Sign	5	EA	\$ 200.00	\$ 1,000.00		\$ 1,000.00
Epoxy Pavement Marking		SF	\$ 17.00	\$ -		\$ -
Thermoplastic Pavement Marking		SF	\$ 30.00	\$ -		\$ -
Barricade - Type 3	2000	EA	\$ 259.00	\$ 60,000.00		\$ 60,000.00
Delineator - Type 1		EA	\$ 31.00	\$ -		\$ -
Curb and Gutter, Type A (6" Vertical)	210	LF	\$ 38.00	\$ 7,980.00		\$ 7,980.00
Curb and Gutter, Type B (Median)		LF	\$ 38.00	\$ -		\$ -
Curb and Gutter, Type C (Ramp)		LF	\$ 38.00	\$ -		\$ -
4" Sidewalk (common areas only)	3000	SY	\$ 62.00	\$ 186,000.00		\$ 186,000.00
5" Sidewalk		SY	\$ 77.00	\$ -		\$ -
6" Sidewalk		SY	\$ 94.00	\$ -		\$ -
8" Sidewalk		SY	\$ 125.00	\$ -		\$ -
Pedestrian Ramp		EA	\$ 1,496.00	\$ -		\$ -
Cross Pan, local (8" thick, 6' wide to include return)	60	LF	\$ 79.00	\$ 4,740.00		\$ 4,740.00
Cross Pan, collector (9" thick, 8' wide to include return)		LF	\$ 119.00	\$ -		\$ -
Curb Opening with Drainage Chase		EA	\$ 1,926.00	\$ -		\$ -
Guardrail Type 3 (W-Beam)		LF	\$ 65.00	\$ -		\$ -
Guardrail Type 7 (Concrete)		LF	\$ 94.00	\$ -		\$ -
Guardrail End Anchorage		EA	\$ 2,731.00	\$ -		\$ -
Guardrail Impact Attenuator		EA	\$ 4,902.00	\$ -		\$ -
Sound Barrier Fence (CMU block, 6' high)		LF	\$ 102.00	\$ -		\$ -
Sound Barrier Fence (panels, 6' high)		LF	\$ 104.00	\$ -		\$ -

Electrical Conduit, Size = 2-4"	2200	LF	\$ 22.00	=	\$	48,400.00	\$	48,400.00	*
Traffic Signal, (provide engineer's estimate)		EA		=	\$	-	\$	-	*
Howells Rd. - Residential Aggregate and Asphalt Paving	375	LF	\$ 400.00	=	\$	150,000.00	\$	150,000.00	*
Gabion Cuts and Dams	1400	LF	\$ 15.00	=	\$	21,000.00	\$	21,000.00	*
STORM DRAIN IMPROVEMENTS									
Concrete Box Culvert (M Standard), Size (W x H)		LF		=	\$	-	\$	-	*
18" Reinforced Concrete Pipe		LF	\$ 82.00	=	\$	-	\$	-	*
24" Reinforced Concrete Pipe		LF	\$ 98.00	=	\$	-	\$	-	*
30" Reinforced Concrete Pipe		LF	\$ 123.00	=	\$	-	\$	-	*
36" Reinforced Concrete Pipe		LF	\$ 151.00	=	\$	-	\$	-	*
42" Reinforced Concrete Pipe		LF	\$ 201.00	=	\$	-	\$	-	*
48" Reinforced Concrete Pipe		LF	\$ 245.00	=	\$	-	\$	-	*
54" Reinforced Concrete Pipe		LF	\$ 320.00	=	\$	-	\$	-	*
60" Reinforced Concrete Pipe		LF	\$ 374.00	=	\$	-	\$	-	*
66" Reinforced Concrete Pipe		LF	\$ 433.00	=	\$	-	\$	-	*
72" Reinforced Concrete Pipe		LF	\$ 495.00	=	\$	-	\$	-	*
18" Corrugated Steel Pipe		LF	\$ 105.00	=	\$	-	\$	-	*
24" Corrugated Steel Pipe		LF	\$ 121.00	=	\$	-	\$	-	*
30" Corrugated Steel Pipe		LF	\$ 154.00	=	\$	-	\$	-	*
36" Corrugated Steel Pipe		LF	\$ 184.00	=	\$	-	\$	-	*
42" Corrugated Steel Pipe		LF	\$ 212.00	=	\$	-	\$	-	*
48" Corrugated Steel Pipe		LF	\$ 223.00	=	\$	-	\$	-	*
54" Corrugated Steel Pipe		LF	\$ 327.00	=	\$	-	\$	-	*
60" Corrugated Steel Pipe		LF	\$ 353.00	=	\$	-	\$	-	*
66" Corrugated Steel Pipe		LF	\$ 427.00	=	\$	-	\$	-	*
72" Corrugated Steel Pipe		LF	\$ 502.00	=	\$	-	\$	-	*
78" Corrugated Steel Pipe		LF	\$ 578.00	=	\$	-	\$	-	*
84" Corrugated Steel Pipe		LF	\$ 691.00	=	\$	-	\$	-	*
Flared End Section (FES) RCP		EA		=	\$	-	\$	-	*
Flared End Section (FES) RCP		EA		=	\$	-	\$	-	*
(unit cost = 6x pipe unit cost)		EA		=	\$	-	\$	-	*
Flared End Section (FES) CSP		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',		EA	\$ 7,212.00	=	\$	-	\$	-	*
5' ≤ Depth < 10'		EA	\$ 9,377.00	=	\$	-	\$	-	*
Curb Inlet (Type R) L=5',		EA	\$ 10,859.00	=	\$	-	\$	-	*
10' ≤ Depth < 15'		EA	\$ 9,925.00	=	\$	-	\$	-	*
Curb Inlet (Type R) L=10',		EA	\$ 10,230.00	=	\$	-	\$	-	*
5' ≤ Depth < 10'		EA	\$ 12,805.00	=	\$	-	\$	-	*
Curb Inlet (Type R) L=10',		EA	\$ 12,907.00	=	\$	-	\$	-	*
Depth < 5'		EA	\$ 13,835.00	=	\$	-	\$	-	*
Curb Inlet (Type R) L=15',		EA	\$ 15,130.00	=	\$	-	\$	-	*
5' ≤ Depth < 10'		EA	\$ 13,755.00	=	\$	-	\$	-	*
Curb Inlet (Type R) L=15',		EA	\$ 15,181.00	=	\$	-	\$	-	*
10' ≤ Depth < 15'		EA	\$ 6,037.00	=	\$	-	\$	-	*
Curb Inlet (Type R) L=20',		EA	\$ 7,458.00	=	\$	-	\$	-	*
5' ≤ Depth < 10'		EA	\$ 15,130.00	=	\$	-	\$	-	*
Grated Inlet (Type C),		EA	\$ 8,322.00	=	\$	-	\$	-	*
Depth < 5'		EA	\$ 9.00	=	\$	-	\$	-	*
Storm Sewer Manhole, Box Base		EA	\$ 8,322.00	=	\$	-	\$	-	*
Storm Sewer Manhole, Slab Base		EA	\$ 9.00	=	\$	-	\$	-	*
Geotextile (Erosion Control)		EA	\$ 104.00	=	\$	-	\$	-	*
Rip Rap, .d50 size from 6" to 24"		Tons	\$ 124.00	=	\$	-	\$	-	*
Rip Rap, Grouted		Tons	\$ 25.00	=	\$	-	\$	-	*
Drainage Channel Construction, Size (4.5' x 1850')	1850	LF	\$ 25.00	=	\$	46,250.00	\$	46,250.00	*
Drainage Channel Lining, Concrete	9	CY	\$ 741.00	=	\$	6,669.00	\$	6,669.00	*
Drainage Channel Lining, Rip Rap	102	CY	\$ 145.00	=	\$	14,790.00	\$	14,790.00	*
Drainage Channel Lining, Grass	2	AC	\$ 1,911.00	=	\$	3,822.00	\$	3,822.00	*
Drainage Channel Lining, Other Stabilization				=	\$	-	\$	-	*
PVC Roof Drains (6 & 8")	530	LF	\$ 60.00	=	\$	31,800.00	\$	31,800.00	*
Area 88 Basin	1	EA	\$ 9,000.00	=	\$	9,000.00	\$	9,000.00	*
Section 2 Subtotal = \$ 591,451.00									

* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 90% COMPLETE ALLOWED)

SECTION 3 - COMMON DEVELOPMENT IMPROVEMENTS (Private or District and NOT Maintained by EPC)**

ROADWAY IMPROVEMENTS									
Aggregate Base Course (Resilient Way & Habitat Way)	3800	Tons	\$ 37.00	=	\$	140,600.00	\$	140,600.00	*
4" Asphalt Paving (Resilient Way & Habitat Way)	12600	SY	\$ 25.00	=	\$	315,000.00	\$	315,000.00	*
(Exception: Permanent Pond/BMP shall be itemized under Section 1)									
STORM DRAIN IMPROVEMENTS									
WATER SYSTEM IMPROVEMENTS									
Water Main Pipe (PVC), Size 2-3"	2670.	LF	\$ 84.00	=	\$	224,280.00	\$	224,280.00	*
Water Main Pipe (Ductile Iron), Size 8"	10.	EA	\$ 2,418.00	=	\$	24,180.00	\$	24,180.00	*
Gate Valves, 2-3"				=	\$	-	\$	-	*

Section 3 Subtotal = \$ 591,451.00									
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Fire Hydrant Assembly, w/ all valves									
Water Service Line Installation, inc. tap and valves									
Fire Cistern Installation, complete	1.	EA	\$ 8,584.00	=	\$	20,000.00	=	\$	20,000.00
Water Storage, Treatment, Pumps, Controls	2.	EA	\$10,000.00	=	\$	20,000.00	=	\$	20,000.00
Water Treatment Building	1.	EA	\$50,000.00	=	\$	50,000.00	=	\$	50,000.00
SANITARY SEWER IMPROVEMENTS									
Sewer Main Pipe (PVC), Size 4-6"	900.	LF	\$ 84.00	=	\$	75,600.00	=	\$	75,600.00
Sanitary Sewer Cleanouts	30.	EA	\$ 150.00	=	\$	4,500.00	=	\$	4,500.00
Sanitary Service Line Installation, complete	1.	EA	\$20,000.00	=	\$	20,000.00	=	\$	20,000.00
Advanced Treatment Unit (aerobic)	1.	EA	\$300,000.00	=	\$	300,000.00	=	\$	300,000.00
Filtration and Disinfection	1.	EA	\$20,000.00	=	\$	20,000.00	=	\$	20,000.00
STA	1.	EA	\$70,000.00	=	\$	70,000.00	=	\$	70,000.00
LANDSCAPING IMPROVEMENTS									
New Plantings (Trees & Shrubs) and Mulching	1.	EA	\$85,000.00	=	\$	85,000.00	=	\$	85,000.00
Gravel Pathways 4' wide	3850.	LF	\$ 4.50	=	\$	17,325.00	=	\$	17,325.00
Wildlife Fencing	2400.	LF	\$ 5.00	=	\$	12,000.00	=	\$	12,000.00
Decorative 6" Fencing	250.	LF	\$ 45.00	=	\$	11,250.00	=	\$	11,250.00
3 Split Rail Fencing	1500.	LF	\$ 15.00	=	\$	22,500.00	=	\$	22,500.00
Artificial Turf	250	SF	\$ 13.00	=	\$	3,250.00	=	\$	3,250.00
Seeded Grass Areas	2.5	AC	\$ 1,793.00	=	\$	4,482.50	=	\$	4,482.50
Section 3 Subtotal =						\$1,448,967.50			\$1,448,967.50

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

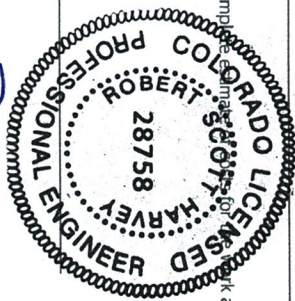
AS-BUILT PLANS (Public Improvements inc. Permanent WQCV BMPs)									
POND/BMP CERTIFICATION (inc. elevations and volume calculations)	LS		\$ 5,000.00	=	\$	5,000.00	=	\$	5,000.00

Total Construction Financial Assurance \$2,132,264.95
 (Sum of all section subtotals plus as-builts and pond/BMP certification)

Total Remaining Construction Financial Assurance (with Pre-Plat Construction) \$2,132,264.95
 (Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)

Total Defect Warranty Financial Assurance \$ 128,272.60
 (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 set of plans and specifications as shown on the Grading and Erosion Control Plan and Construction Drawings associated with the Project.



Engineer (P.E. Seal Required) Robert Harvey Date 26 March 2024
 Approved by Owner / Applicant MARZ PETERAL Date 3/26/24

Approved by El Paso County Engineer / ECM Administrator _____ Date _____