

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

Updated: 02/28/2020

PROJECT INFORMATION			
Grandwood Ranch - Early Grading	8/25/2020	\$ 389,310.00	SP195
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 \$9 000 min	2,899	CY	\$ 6 00	17,394.00		17,394.00
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		CY	\$ 2 00			
* Permanent Seeding (inc noxious weed mgmnt)		AC	\$ 800 00			
* Mulching		AC	\$ 750 00			
* Permanent Erosion Control Blanket		SY	\$ 6 00			
* Permanent Pond/BMP Construction		CY	\$ 20.00			
* Permanent Pond/BMP (Spillway)		EA				
* Permanent Pond/BMP (Outlet Structure)		EA				
Safety Fence		LF	\$ 3 00			
Temporary Erosion Control Blanket	54,696	SY	\$ 3 00	164,088.00		164,088.00
Vehicle Tracking Control	2	EA	\$ 2,370 00	4,740.00		4,740.00
Silt Fence	5,473	LF	\$ 2 50	13,682.50		13,682.50
Temporary Seeding	19	AC	\$ 628 00	11,932.00		11,932.00
Temporary Mulch	19	AC	\$ 750 00	14,250.00		14,250.00
Erosion Bales	32	EA	\$ 25 00	800.00		800.00
Erosion Logs/Straw Waddle	2,989	LF	\$ 5 00	14,945.00		14,945.00
Rock Check Dams	21	EA	\$ 500 00	10,500.00		10,500.00
Inlet Protection	3	EA	\$ 167 00	501.00		501.00
Sediment Basin	13	EA	\$ 1,762 00	22,906.00		22,906.00
Concrete Washout Basin	2	EA	\$ 900 00	1,800.00		1,800.00
Type 3 Barricade	2	EA	\$ 200 00	400.00		400.00
<i>[insert items not listed but part of construction plans]</i>						
MAINTENANCE (35% of Construction BMPs)					91,190.58	91,190.58
* - Subject to defect warranty financial assurance - A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 30% COMPLETE ALLOWED)						
Section 1 Subtotal				\$ 369,129.08		\$ 369,129.08

SECTION 2 - PUBLIC IMPROVEMENTS *						
ROADWAY IMPROVEMENTS						
Construction Traffic Control		LS				
Aggregate Base Course (135 lbs/cf)		Tons	\$ 28 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) ___" thick		Tons	\$ 88 00			
Raised Median Paved		SF	\$ 8 00			
Regulatory Sign/Advisory Sign		EA	\$ 300 00			
Guide/Street Name Sign		EA	\$ 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 (8" 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			

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					% Complete	Remaining
<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	132	LF	\$ 65.00	\$ 8,580.00		\$ 8,580.00
24" Reinforced Concrete Pipe		LF	\$ 78.00			
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 = 36" <i>(unit cost = 6x pipe unit cost)</i>		EA	\$ 720.00			
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	\$ 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), 5' ≤ Depth < 10'		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"		Tons	\$ 80.00			
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						
<i>[insert items not listed but part of construction plans]</i>						
* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)						
Section 2 Subtotal				\$ 8,580.00		\$ 8,580.00

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SECTION 3 - COMMON DEVELOPMENT IMPROVEMENTS (Private or District and NOT Maintained by EPC)**						
<u>ROADWAY IMPROVEMENTS</u>						
4" Sidewalk (common areas only)		SY	\$ 48 00	= \$		\$
Aggregate Base Course (135 lbs/cf)		CY	\$ 50 00	= \$		\$
Asphalt Pavement (4" thick)		SY	\$ 19 00	= \$		\$
Curb and Gutter Type C (Ramp)		LF	\$ 30 00	= \$		\$
<u>STORM DRAIN IMPROVEMENTS</u> (Exception: Permanent Pond/BMP shall be itemized under Section 1)						
18" Reinforced Concrete Pipe		LF	\$ 65 00	= \$		\$
Curb Inlet (Type R) L =10' Depth < 5'		EA	\$ 7 627 00	= \$		\$
<u>WATER SYSTEM IMPROVEMENTS</u>						
Water Main Pipe (PVC) Size 8"		LF	\$ 64 00	= \$		\$
Water Main Pipe (Ductile Iron) Size 8"		LF	\$ 75 00	= \$		\$
Gate Valves 8"		EA	\$ 1 858 00	= \$		\$
Fire Hydrant Assembly w/ all valves		EA	\$ 6 597 00	= \$		\$
Water Service Line Installation, inc tap and valves		EA	\$ 1,324.00	= \$		\$
Fire Cistern Installation complete		EA		= \$		\$
<i>[insert items not listed but part of construction plans]</i>						
<u>SANITARY SEWER IMPROVEMENTS</u>						
Sewer Main Pipe (PVC) Size 8"		LF	\$ 64 00	= \$		\$
Sanitary Sewer Manhole, Depth < 15 feet		EA	\$ 4,386 00	= \$		\$
Sanitary Service Line Installation, complete		EA	\$ 1,402.00	= \$		\$
Sanitary Sewer Lift Station, complete		EA		= \$		\$
<i>[insert items not listed but part of construction plans]</i>						
<u>LANDSCAPING IMPROVEMENTS</u> (For subdivision specific condition of approval, or PUD)						
		EA		= \$		\$
		EA		= \$		\$
		EA		= \$		\$
		EA		= \$		\$
		EA		= \$		\$
		EA		= \$		\$
Section 3 Subtotal				= \$		\$

** Section 3 is not subject to defect warranty requirements

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					% Complete	Remaining
AS-BUILT PLANS (Public Improvements inc. Permanent WQCV BMPs)		LS	= \$	=	\$	-
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS	= \$	=	\$	-
Total Construction Financial Assurance					\$	377,709.08
(Sum of all section subtotals plus as-builts and pond/BMP certification)						
Total Remaining Construction Financial Assurance (with Pre-Plat Construction)					\$	377,709.08
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)						
Total Defect Warranty Financial Assurance					\$	5,194.80
(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)

[Handwritten Signature]
 Approved by Owner / Applicant

8-26-2020
 Date

Approved by El Paso County Engineer / ECM Administrator

APPROVED
Engineering Department

10/06/2020 2:05:45 PM
 dsdnijkamp
 EPC Planning & Community
 Development Department