

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

PROJECT INFORMATION		
Vollmer- North Segment	5/28/2022	CDR 2110
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	18,688	CY	\$ 5.00	\$ 93,440.00		\$ 93,440.00
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.)	12	AC	\$ 886.00	\$ 10,632.00		\$ 10,632.00
* Mulching	12	AC	\$ 831.00	\$ 9,972.00		\$ 9,972.00
* Permanent Erosion Control Blanket		SY	\$ 7.00	\$ -		\$ -
* Permanent Pond/BMP Construction		CY	\$ 22.00	\$ -		\$ -
* Permanent Pond/BMP (provide engineer's estimate)		EA		\$ -		\$ -
		EA		\$ -		\$ -
Safety Fence	182	LF	\$ 3.00	\$ 546.00		\$ 546.00
Temporary Erosion Control Blanket		SY	\$ 3.00	\$ -		\$ -
Vehicle Tracking Control	1	EA	\$ 2,625.00	\$ 2,625.00		\$ 2,625.00
Silt Fence	2,586	LF	\$ 3.00	\$ 7,758.00		\$ 7,758.00
Temporary Seeding		AC	\$ 695.00	\$ -		\$ -
Temporary Mulch		AC	\$ 831.00	\$ -		\$ -
Erosion Bales		EA	\$ 28.00	\$ -		\$ -
Erosion Logs/Straw Wattles		LF	\$ 6.00	\$ -		\$ -
Rock Check Dams	70	EA	\$ 554.00	\$ 38,780.00		\$ 38,780.00
Inlet Protection	10	EA	\$ 185.00	\$ 1,850.00		\$ 1,850.00
Sediment Basin		EA	\$ 1,952.00	\$ -		\$ -
Concrete Washout Basin	1	EA	\$ 997.00	\$ 997.00		\$ 997.00
<i>(Insert items not listed but part of construction plans)</i>				\$ -		\$ -
MAINTENANCE (35% of Construction BMPs)				\$ 18,203.50		\$ 18,203.50
* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)						
Section 1 Subtotal				\$ 184,803.50		\$ 184,803.50

SECTION 2 - PUBLIC IMPROVEMENTS *						
ROADWAY IMPROVEMENTS						
Construction Traffic Control	1	LS		\$ 20,000		\$ -
Aggregate Base Course (135 lbs/cf)		Tons	\$ 31.00	\$ -		\$ -
Aggregate Base Course (135 lbs/cf)	7,920	CY	\$ 56.00	\$ 443,520.00		\$ 443,520.00
Asphalt Pavement (3" thick)		SY	\$ 16.00	\$ -		\$ -
Asphalt Pavement (4" thick)		SY	\$ 21.00	\$ -		\$ -
Asphalt Pavement (6" thick)	36,000	SY	\$ 32.00	\$ 1,152,000.00		\$ 1,152,000.00
Asphalt Pavement (147 lbs/cf) ___ thick		Tons	\$ 97.00	\$ -		\$ -
Raised Median, Paved		SF	\$ 9.00	\$ -		\$ -
Regulatory Sign/Advisory Sign	4	EA	\$ 333.00	\$ 1,332.00		\$ 1,332.00
Guide/Street Name Sign	2	EA		\$ 400		\$ -
Epoxy Pavement Marking		SF	\$ 15.00	\$ -		\$ -
Thermoplastic Pavement Marking		SF	\$ 26.00	\$ -		\$ -
Barricade - Type 3		EA	\$ 221.00	\$ -		\$ -
Delinicator - Type I		EA	\$ 27.00	\$ -		\$ -
Curb and Gutter, Type A (6" Vertical)	4,799	LF	\$ 32.00	\$ 153,568.00		\$ 153,568.00
Curb and Gutter, Type B (Median)		LF	\$ 32.00	\$ -		\$ -
Curb and Gutter, Type C (Ramp)		LF	\$ 32.00	\$ -		\$ -
4" Sidewalk (common areas only)		SY	\$ 53.00	\$ -		\$ -
5" Sidewalk		SY	\$ 66.00	\$ -		\$ -
6" Sidewalk	1,873	SY	\$ 80.00	\$ 149,840.00		\$ 149,840.00
8" Sidewalk		SY	\$ 106.00	\$ -		\$ -
Pedestrian Ramp	4	EA	\$ 1,273.00	\$ 5,092.00		\$ 5,092.00
Cross Pan, local (6" thick, 6' wide to include return)	52	LF	\$ 67.00	\$ 3,484.00		\$ 3,484.00
Cross Pan, collector (9" thick, 8' wide to include return)		LF	\$ 102.00	\$ -		\$ -
Curb Chase		EA	\$ 1,639.00	\$ -		\$ -
Guardrail Type 3 (W-Beam)		LF	\$ 55.00	\$ -		\$ -
Guardrail Type 7 (Concrete)		LF	\$ 80.00	\$ -		\$ -
Guardrail End Anchorage		EA	\$ 2,324.00	\$ -		\$ -
Guardrail Impact Attenuator		EA	\$ 4,172.00	\$ -		\$ -
Sound Barrier Fence (CMU block, 6' high)		LF	\$ 87.00	\$ -		\$ -
Sound Barrier Fence (panels, 6' high)		LF	\$ 89.00	\$ -		\$ -
Electrical Conduit, Size =		LF	\$ 18.00	\$ -		\$ -
Traffic Signal, complete intersection		EA	\$ 470,666	\$ -		\$ -

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Description	Quantity	Units	Unit Cost	Total	(with Pre-Plat Construction)	
					% 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		LF	\$ 70.00	\$ -		\$ -
24" Reinforced Concrete Pipe		LF	\$ 83.00	\$ -		\$ -
30" Reinforced Concrete Pipe		LF	\$ 104.00	\$ -		\$ -
36" Reinforced Concrete Pipe		LF	\$ 128.00	\$ -		\$ -
42" Reinforced Concrete Pipe		LF	\$ 171.00	\$ -		\$ -
48" Reinforced Concrete Pipe		LF	\$ 209.00	\$ -		\$ -
54" Reinforced Concrete Pipe		LF	\$ 272.00	\$ -		\$ -
60" Reinforced Concrete Pipe		LF	\$ 319.00	\$ -		\$ -
66" Reinforced Concrete Pipe		LF	\$ 368.00	\$ -		\$ -
72" Reinforced Concrete Pipe		LF	\$ 421.00	\$ -		\$ -
18" Corrugated Steel Pipe		LF	\$ 90.00	\$ -		\$ -
24" Corrugated Steel Pipe		LF	\$ 103.00	\$ -		\$ -
30" Corrugated Steel Pipe		LF	\$ 131.00	\$ -		\$ -
36" Corrugated Steel Pipe		LF	\$ 157.00	\$ -		\$ -
42" Corrugated Steel Pipe		LF	\$ 180.00	\$ -		\$ -
48" Corrugated Steel Pipe		LF	\$ 190.00	\$ -		\$ -
54" Corrugated Steel Pipe		LF	\$ 278.00	\$ -		\$ -
60" Corrugated Steel Pipe		LF	\$ 300.00	\$ -		\$ -
66" Corrugated Steel Pipe		LF	\$ 364.00	\$ -		\$ -
72" Corrugated Steel Pipe		LF	\$ 428.00	\$ -		\$ -
78" Corrugated Steel Pipe		LF	\$ 492.00	\$ -		\$ -
84" Corrugated Steel Pipe		LF	\$ 588.00	\$ -		\$ -
Flared End Section (FES) RCP Size =		EA		\$ -		\$ -
<small>(unit cost = 6x pipe unit cost)</small>						
Flared End Section (FES) CSP Size =		EA		\$ -		\$ -
<small>(unit cost = 6x pipe unit cost)</small>						
End Treatment- Headwall		EA		\$ -		\$ -
End Treatment- Wingwall		EA		\$ -		\$ -
End Treatment - Cutoff Wall		EA		\$ -		\$ -
Curb Inlet (Type R) L=5', Depth < 5'		EA	\$ 6,138.00	\$ -		\$ -
Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'		EA	\$ 7,981.00	\$ -		\$ -
Curb Inlet (Type R) L=5', 10' ≤ Depth < 15'		EA	\$ 9,242.00	\$ -		\$ -
Curb Inlet (Type R) L=10', Depth < 5'		EA	\$ 8,447.00	\$ -		\$ -
Curb Inlet (Type R) L=10', 5' ≤ Depth < 10'		EA	\$ 8,706.00	\$ -		\$ -
Curb Inlet (Type R) L=10', 10' ≤ Depth < 15'		EA	\$ 10,898.00	\$ -		\$ -
Curb Inlet (Type R) L=15', Depth < 5'		EA	\$ 10,984.00	\$ -		\$ -
Curb Inlet (Type R) L=15', 5' ≤ Depth < 10'		EA	\$ 11,775.00	\$ -		\$ -
Curb Inlet (Type R) L=15', 10' ≤ Depth < 15'		EA	\$ 12,876.00	\$ -		\$ -
Curb Inlet (Type R) L=20', Depth < 5'		EA	\$ 11,706.00	\$ -		\$ -
Curb Inlet (Type R) L=20', 5' ≤ Depth < 10'		EA	\$ 12,920.00	\$ -		\$ -
Grated Inlet (Type C), Depth < 5'		EA	\$ 5,138.00	\$ -		\$ -
Grated Inlet (Type D), Depth < 5'		EA	\$ 6,347.00	\$ -		\$ -
Storm Sewer Manhole, Box Base		EA	\$ 12,876.00	\$ -		\$ -
Storm Sewer Manhole, Stab Base		EA	\$ 7,082.00	\$ -		\$ -
Geotextile (Erosion Control)		SY	\$ 7.00	\$ -		\$ -
Rip Rap, d50 size from 6" to 24"		Tons	\$ 89.00	\$ -		\$ -
Rip Rap, Grouted		Tons	\$ 105.00	\$ -		\$ -
Drainage Channel Construction, Size (W x H)		LF	\$ -	\$ -		\$ -
Drainage Channel Lining, Concrete		CY	\$ 631.00	\$ -		\$ -
Drainage Channel Lining, Rip Rap		CY	\$ 124.00	\$ -		\$ -
Drainage Channel Lining, Grass		AC	\$ 1,626.00	\$ -		\$ -
Drainage Channel Lining, Other Stabilization				\$ -		\$ -
<i>[insert items not listed but part of construction plans]</i>						
<small>* Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)</small>						
Section 2 Subtotal				\$ 1,908,836.00		\$ 1,908,836.00

PROJECT INFORMATION		
Vollmer- North Segment	5/28/2022	CDR 2110
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					% 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"		LF	\$ 71.00	\$ -		\$ -
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 83.00	\$ -		\$ -
Gate Valves 8"		EA	\$ 2,058.00	\$ -		\$ -
Fire Hydrant Assembly, w/ all valves		EA	\$ 7,306.00	\$ -		\$ -
Water Service Line Installation, inc. tap and valves		EA	\$ 1,466.00	\$ -		\$ -
Fire Cistern Installation, complete		EA		\$ -		\$ -
				\$ -		\$ -
<i>[insert items not listed but part of construction plans]</i>						
SANITARY SEWER IMPROVEMENTS						
Sewer Main Pipe (PVC), Size 8"		LF	\$ 71.00	\$ -		\$ -
Sanitary Sewer Manhole, Depth < 15 feet		EA	\$ 4,858.00	\$ -		\$ -
Sanitary Service Line Installation, complete		EA	\$ 1,553.00	\$ -		\$ -
Sanitary Sewer Lift Station, complete		EA		\$ -		\$ -
				\$ -		\$ -
<i>[insert items not listed but part of construction plans]</i>						
LANDSCAPING IMPROVEMENTS (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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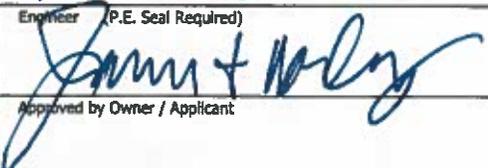
Description	Quantity	Units	Unit Cost	Total	(with Pre-Plat Construction)	
					% Complete	Remaining
AS-BUILT PLANS (Public Improvements Inc. Permanent WQCV BMPs)		LS	\$ 10,000.00	= \$ 10,000.00		\$ 10,000.00
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS		= \$ -		\$ -
Total Construction Financial Assurance						\$ 2,103,639.50
(Sum of all section subtotals plus as-builts and pond/BMP certification)						
Total Remaining Construction Financial Assurance (with Pre-Plat Construction)						\$ 2,103,639.50
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)						
Total Defect Warranty Financial Assurance						\$ 404,576.00
(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 Plans and Construction Drawings associated with the Project.



Engineer (P.E. Seal Required)



Approved by Owner / Applicant

Approved by El Paso County Engineer / ECM Administrator



Date

Date

June 7, 2022

Add note:

The storm sewer associated with this road construction is in the Homestead North at Sterling Ranch Filing No. 1 Final Drainage Report, CDs, and FAE .

(please verify)