

**PROJECT INFORMATION**

<b>Homestead North Filing No. 2</b>	<b>11/10/2022</b>	<b>SF2218</b>
<b>Project Name</b>	<b>Date</b>	<b>PCD File No.</b>

Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)	
						% Complete	Remaining

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

<i>* Earthwork</i>							
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		CY	\$ 5.00	=	\$ -		\$ -
20,001-50,000; \$100,000 min		CY	\$ 3.50	=	\$ -		\$ -
50,001-200,000; \$175,000 min	88,300	CY	\$ 2.50	=	\$ 220,750.00		\$ 220,750.00
greater than 200,000; \$500,000 min		CY	\$ 2.00	=	\$ -		\$ -
<i>* Permanent Seeding (inc. noxious weed mgmnt.)</i>	1	AC	\$ 886.00	=	\$ 886.00		\$ 886.00
<i>* Mulching</i>	1	AC	\$ 831.00	=	\$ 831.00		\$ 831.00
<i>* Permanent Erosion Control Blanket</i>	62	SY	\$ 7.00	=	\$ 434.00		\$ 434.00
<i>* Permanent Pond/BMP Construction</i>		CY	\$ 22.00	=	\$ -		\$ -
<i>* Permanent Pond/BMP (provide engineer's estimate)</i>	1	EA	\$ 40,000.00	=	\$ 40,000.00		\$ 40,000.00
		EA		=	\$ -		\$ -
Safety Fence		LF	\$ 3.00	=	\$ -		\$ -
Temporary Erosion Control Blanket		SY	\$ 3.00	=	\$ -		\$ -
Vehicle Tracking Control	3	EA	\$ 2,625.00	=	\$ 7,875.00		\$ 7,875.00
Construction Fence	2,871	LF	\$ 3.00	=	\$ 8,613.00		\$ 8,613.00
Silt Fence	3,729	LF	\$ 3.00	=	\$ 11,187.00		\$ 11,187.00
Temporary Seeding	27	AC	\$ 695.00	=	\$ 18,765.00		\$ 18,765.00
Temporary Mulch	27	AC	\$ 831.00	=	\$ 22,437.00		\$ 22,437.00
Erosion Bales		EA	\$ 28.00	=	\$ -		\$ -
Erosion Logs/Straw Waddle		LF	\$ 6.00	=	\$ -		\$ -
Rock Check Dams	15	EA	\$ 554.00	=	\$ 8,310.00		\$ 8,310.00
Temporary Slope Drain	78	LF	\$ 30.00	=	\$ 2,340.00		\$ 2,340.00
Inlet Protection	12	EA	\$ 185.00	=	\$ 2,220.00		\$ 2,220.00
Sediment Basin	2	EA	\$ 1,952.00	=	\$ 3,904.00		\$ 3,904.00
Diversion Ditch	4,418	LF	\$ 2.00	=	\$ 8,836.00		\$ 8,836.00
Stabalized Staging Area	628	SY	\$ 3.00	=	\$ 1,884.00		\$ 1,884.00
Concrete Washout Basin	1	EA	\$ 997.00	=	\$ 997.00		\$ 997.00
				=	\$ -		\$ -
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -
				=	\$ -		\$ -
<b>MAINTENANCE (35% of Construction BMPs)</b>					\$ 34,078.80		\$ 34,078.80
<i>* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)</i>							
<b>Section 1 Subtotal</b>					<b>\$ 394,347.80</b>		<b>\$ 394,347.80</b>

**SECTION 2 - PUBLIC IMPROVEMENTS \***

**ROADWAY IMPROVEMENTS**

Construction Traffic Control	1	LS	\$ 5,000.00	=	\$ 5,000.00		\$ 5,000.00
Aggregate Base Course (135 lbs/cf)		Tons	\$ 31.00	=	\$ -		\$ -
Aggregate Base Course (135 lbs/cf) (8" thick)	3,579	CY	\$ 56.00	=	\$ 200,431.28		\$ 200,431.28
Asphalt Pavement (3" thick)		SY	\$ 16.00	=	\$ -		\$ -
Asphalt Pavement (4" thick)	16,285	SY	\$ 21.00	=	\$ 341,987.52		\$ 341,987.52
Asphalt Pavement (6" thick)		SY	\$ 32.00	=	\$ -		\$ -
Asphalt Pavement (147 lbs/cf) ___" thick		Tons	\$ 97.00	=	\$ -		\$ -
Raised Median, Paved		SF	\$ 9.00	=	\$ -		\$ -
Regulatory Sign/Advisory Sign	10	EA	\$ 333.00	=	\$ 3,330.00		\$ 3,330.00
Guide/Street Name Sign	8	EA	\$ 200.00	=	\$ 1,600.00		\$ 1,600.00
Epoxy Pavement Marking		SF	\$ 15.00	=	\$ -		\$ -
Thermoplastic Pavement Marking		SF	\$ 26.00	=	\$ -		\$ -
Barricade - Type 3		EA	\$ 221.00	=	\$ -		\$ -
Delineator - Type I		EA	\$ 27.00	=	\$ -		\$ -
Curb and Gutter, Type A (6" Vertical)	3,108	LF	\$ 32.00	=	\$ 99,456.00		\$ 99,456.00
Curb and Gutter, Type B (Median)		LF	\$ 32.00	=	\$ -		\$ -
Curb and Gutter, Type C (Ramp)	5,326	LF	\$ 32.00	=	\$ 170,432.00		\$ 170,432.00
4" Sidewalk (common areas only)		SY	\$ 53.00	=	\$ -		\$ -
5" Sidewalk	5,876	SY	\$ 66.00	=	\$ 387,844.38		\$ 387,844.38
6" Sidewalk		SY	\$ 80.00	=	\$ -		\$ -
8" Sidewalk		SY	\$ 106.00	=	\$ -		\$ -
Pedestrian Ramp	33	EA	\$ 1,273.00	=	\$ 42,009.00		\$ 42,009.00
Cross Pan, local (8" thick, 6' wide to include return)	650	LF	\$ 67.00	=	\$ 43,550.00		\$ 43,550.00
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)	470	LF	\$ 65.00	=	\$ 30,550.00		\$ 30,550.00
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
[insert items not listed but part of construction plans]				=	\$ -		\$ -
[insert items not listed but part of construction plans]				=	\$ -		\$ -
<b>STORM DRAIN IMPROVEMENTS</b>							
Concrete Box Culvert (M Standard), Size ( W x H )		LF		=	\$ -		\$ -
18" Reinforced Concrete Pipe	727	LF	\$ 70.00	=	\$ 50,890.00		\$ 50,890.00
24" Reinforced Concrete Pipe	113	LF	\$ 83.00	=	\$ 9,379.00		\$ 9,379.00
30" Reinforced Concrete Pipe		LF	\$ 104.00	=	\$ -		\$ -
36" Reinforced Concrete Pipe	415	LF	\$ 128.00	=	\$ 53,120.00		\$ 53,120.00
42" Reinforced Concrete Pipe		LF	\$ 171.00	=	\$ -		\$ -
48" Reinforced Concrete Pipe	58	LF	\$ 209.00	=	\$ 12,122.00		\$ 12,122.00
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	\$ 492.01	=	\$ -		\$ -
Flared End Section (FES) HCP Size = 36 <small>(unit cost = 6x pipe unit cost)</small>	1	EA	\$ 600.00	=	\$ 600.00		\$ 600.00
Flared End Section (FES) CSP Size = <small>(unit cost = 6x pipe unit cost)</small>		EA		=	\$ -		\$ -
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'	1	EA	\$ 8,706.00	=	\$ 8,706.00		\$ 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'	7	EA	\$ 11,775.00	=	\$ 82,425.00		\$ 82,425.00
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'	3	EA	\$ 5,138.00	=	\$ 15,414.00		\$ 15,414.00
Grated Inlet (Type D), Depth < 5'		EA	\$ 6,347.00	=	\$ -		\$ -
Storm Sewer Manhole, Box Base	4	EA	\$ 12,876.00	=	\$ 51,504.00		\$ 51,504.00
Storm Sewer Manhole, Slab Base	5	EA	\$ 7,082.00	=	\$ 35,410.00		\$ 35,410.00
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				=	\$ -		\$ -
[insert items not listed but part of construction plans]				=	\$ -		\$ -
[insert items not listed but part of construction plans]				=	\$ -		\$ -
				<b>Section 2 Subtotal</b>	<b>= \$ 1,645,760.18</b>		<b>\$ 1,645,760.18</b>

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

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Description	Quantity	Units	Unit Cost	Total	(with Pre-Plat Construction)	
					% Complete	Remaining
<b>SECTION 3 - COMMON DEVELOPMENT IMPROVEMENTS (Private or District and NOT Maintained by EPC)**</b>						
<b>ROADWAY IMPROVEMENTS</b>						
				= \$	-	\$ -
				= \$	-	\$ -
				= \$	-	\$ -
				= \$	-	\$ -
				= \$	-	\$ -
				= \$	-	\$ -
<b>STORM DRAIN IMPROVEMENTS</b> (Exception: Permanent Pond/BMP shall be itemized under Section 1)						
18" Reinforced Concrete Pipe	548	LF	\$ 70.00	= \$	38,360.00	\$ 38,360.00
48" Reinforced Concrete Pipe	58	LF	\$ 209.00	= \$	12,122.00	\$ 12,122.00
24" Reinforced Concrete Pipe	104	LF	\$ 103.00	= \$	10,712.00	\$ 10,712.00
Flared End Section (FES) RCP Size = 24" <i>(unit cost = 6x pipe unit cost)</i>	1	EA	\$ 618.00	= \$	618.00	\$ 618.00
Drainage Channel Lining, Rip Rap 12" depth	111	CY	\$ 124.00	= \$	13,764.00	\$ 13,764.00
Rip Rap, d50 size from 6" to 24"	7	CY	\$ 124.00	= \$	868.00	\$ 868.00
Grated Inlet (Type C), Depth < 5'	2	EA	\$ 5,138.00	= \$	10,276.00	\$ 10,276.00
<b>WATER SYSTEM IMPROVEMENTS</b>						
Water Main Pipe (PVC), Size 8"	4,267	LF	\$ 71.00	= \$	302,935.70	\$ 302,935.70
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 83.00	= \$	-	\$ -
Gate Valves, 8"	7	EA	\$ 2,058.00	= \$	14,406.00	\$ 14,406.00
Fire Hydrant Assembly, w/ all valves (3 valves/FH)	10	EA	\$ 7,306.00	= \$	73,060.00	\$ 73,060.00
Water Service Line Installation, inc. tap and valves	74	EA	\$ 1,466.00	= \$	108,484.00	\$ 108,484.00
Fire Cistern Installation, complete		EA		= \$	-	\$ -
				= \$	-	\$ -
<i>[insert items not listed but part of construction plans]</i>				= \$	-	\$ -
<b>SANITARY SEWER IMPROVEMENTS</b>						
Sewer Main Pipe (PVC), Size 8"	2,778	LF	\$ 71.00	= \$	197,234.45	\$ 197,234.45
Sanitary Sewer Manhole, Depth < 15 feet	14	EA	\$ 4,858.00	= \$	68,012.00	\$ 68,012.00
Sanitary Service Line Installation, complete	74	EA	\$ 1,553.00	= \$	114,922.00	\$ 114,922.00
Sanitary Sewer Lift Station, complete		EA		= \$	-	\$ -
				= \$	-	\$ -
<i>[insert items not listed but part of construction plans]</i>				= \$	-	\$ -
<b>LANDSCAPING IMPROVEMENTS</b> (For subdivision specific condition of approval, or PUD)						
Landscaping Improvments	1	EA	\$ 150,000.00	= \$	150,000.00	\$ 150,000.00
		EA		= \$	-	\$ -
		EA		= \$	-	\$ -
		EA		= \$	-	\$ -
		EA		= \$	-	\$ -
<b>Section 3 Subtotal</b>				<b>= \$</b>	<b>1,115,774.15</b>	<b>\$ 1,115,774.15</b>

\*\* - 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	\$ 10,000.00	=	\$	10,000.00	\$	10,000.00
<b>Total Construction Financial Assurance</b>							<b>\$</b>	<b>3,175,882.13</b>
(Sum of all section subtotals plus as-builts and pond/BMP certification)								
<b>Total Remaining Construction Financial Assurance (with Pre-Plat Construction)</b>							<b>\$</b>	<b>3,175,882.13</b>
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)								
<b>Total Defect Warranty Financial Assurance</b>							<b>\$</b>	<b>381,732.24</b>
(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.



*William B. Burtch*  
 Engineer (P.E. Seal Required)

*[Signature]*  
 Approved by Owner / Applicant

*9/9/2022*  
 Date

Approved by El Paso County Engineer / ECM Administrator

Date