

# 2023 Financial Assurance Estimate Form (with pre-plat construction)

Updated: 12/8/2022

add:  
"& SF237"

PROJECT INFORMATION			
Project Name	Waterbury Filing No. 1	Date	2/6/2023
PCD File No.	PUDSP 21-005		

Description	Quantity	Units	Unit Cost	Total	(with Pre-Plat Construction)	
					% Complete	Remaining
<b>SECTION 1 - GRADING AND EROSION CONTROL (Construction and Permanent BMPs)</b>						
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		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	361,139	CY	\$ 2.00	= \$ 722,278.00		\$ 722,278.00
Permanent Erosion Control Blanket		SY	\$ 8.00	= \$ -		\$ -
Permanent Seeding (inc. noxious weed mgmnt.) & Mulching	9	AC	\$ 1,875.00	= \$ 16,875.00		\$ 16,875.00
Permanent Pond/BMP (provide engineer's estimate)	3	EA	\$ 71,750.00	= \$ 215,250.00		\$ 215,250.00
Concrete Washout Basin	1	EA	\$ 1,089.00	= \$ 1,089.00		\$ 1,089.00
Inlet Protection	24	EA	\$ 202.00	= \$ 4,848.00		\$ 4,848.00
Rock Check Dam		EA	\$ 605.00	= \$ -		\$ -
Safety Fence	3,440	LF	\$ 3.00	= \$ 10,320.00		\$ 10,320.00
Sediment Basin	5	EA	\$ 2,132.00	= \$ 10,660.00		\$ 10,660.00
Sediment Trap		EA	\$ 500.00	= \$ -		\$ -
Silt Fence	5,165	LF	\$ 3.00	= \$ 15,495.00		\$ 15,495.00
Slope Drain		LF	\$ 40.00	= \$ -		\$ -
Straw Bale	60	EA	\$ 31.00	= \$ 1,860.00		\$ 1,860.00
Straw Wattle/Rock Sock	260	LF	\$ 7.00	= \$ 1,820.00		\$ 1,820.00
Surface Roughening		AC	\$ 250.00	= \$ -		\$ -
Temporary Erosion Control Blanket		SY	\$ 3.00	= \$ -		\$ -
Temporary Seeding and Mulching		AC	\$ 1,666.00	= \$ -		\$ -
Vehicle Tracking Control	2	EA	\$ 2,867.00	= \$ 5,734.00		\$ 5,734.00
[insert items not listed but part of construction plans]				= \$ -		\$ -
<b>MAINTENANCE (35% of Construction BMPs)</b>				= \$ 17,757.95		\$ 17,757.95
<b>Section 1 Subtotal</b>				= \$ <b>1,023,986.95</b>		\$ <b>1,023,986.95</b>

GEC plan states est area of disturbance is 68.7 ac. With only 9 ac permanently seeded what happens to the other 60 ac? Provide temp seeding and mulching and/or surface roughening.

Show on GEC plan if proposed.

**SECTION 2 - PUBLIC IMPROVEMENTS \***

ROADWAY IMPROVEMENTS						
Construction Traffic Control	1.0	LS	\$ 15,000.00	= \$ 15,000.00		\$ 15,000.00
Aggregate Base Course (135 lbs/cf)		Tons	\$ 34.00	= \$ -		\$ -
Aggregate Base Course (135 lbs/cf)	5,298.0	CY	\$ 61.00	= \$ 323,178.00		\$ 323,178.00
Asphalt Pavement (3" thick)		SY	\$ 17.00	= \$ -		\$ -
Asphalt Pavement (4" thick)	31,788.0	SY	\$ 23.00	= \$ 731,124.00		\$ 731,124.00
Asphalt Pavement (6" thick)		SY	\$ 35.00	= \$ -		\$ -
Asphalt Pavement (147 lbs/cf) ___" thick		Tons	\$ 1	= \$ -		\$ -
Raised Median, Paved	2,307.0	SF	\$	= \$ -		\$ -
Regulatory Sign/Advisory Sign	5.0	EA	\$ 3	= \$ -		\$ -
Guide/Street Name Sign	16.0	EA	\$	= \$ -		\$ -
Epoxy Pavement Marking	3,107.0	SF	\$	= \$ -		\$ -
Thermoplastic Pavement Marking	73.0	SF	\$	= \$ -		\$ -
Barricade - Type 3		EA	\$ 2	= \$ -		\$ -
Delineator - Type I		EA	\$	= \$ -		\$ -
Curb and Gutter, Type A (6" Vertical)	6,377.0	LF	\$ 35.00	= \$ 223,195.00		\$ 223,195.00
Curb and Gutter, Type B (Median)	1,910.0	LF	\$ 35.00	= \$ 66,850.00		\$ 66,850.00
Curb and Gutter, Type C (Ramp)	12,344.0	LF	\$ 35.00	= \$ 432,040.00		\$ 432,040.00
4" Sidewalk (common areas only)	8,851.0	SY	\$ 58.00	= \$ 513,358.00		\$ 513,358.00
5" Sidewalk		SY	\$ 72.00	= \$ -		\$ -
6" Sidewalk		SY	\$	= \$ -		\$ -
8" Sidewalk		SY	\$	= \$ -		\$ -
Pedestrian Ramp				= \$ 61,160.00		\$ 61,160.00
Cross Pan, local (8" thick, 6' wide to include return)				= \$ 90,958.00		\$ 90,958.00
Cross Pan, collector (9" thick, 8' wide to include return)				= \$ -		\$ -
Curb Opening with Drainage Chase				= \$ -		\$ -
Guardrail Type 3 (W-Beam)		LF	\$ 60.00	= \$ -		\$ -
Guardrail Type 7 (Concrete)		LF	\$ 87.00	= \$ -		\$ -
Guardrail End Anchorage		EA	\$ 2,538.00	= \$ -		\$ -
Guardrail Impact Attenuator		EA	\$ 4,556.00	= \$ -		\$ -
Sound Barrier Fence (CMU block, 6' high)		LF	\$ 95.00	= \$ -		\$ -
Sound Barrier Fence (panels, 6' high)		LF	\$ 97.00	= \$ -		\$ -
Electrical Conduit, Size =		LF	\$ 20.00	= \$ -		\$ -
Traffic Signal, (provide engineer's estimate)		EA		= \$ -		\$ -

This value seem very low considering roundabout signage, signs at Stapleton int, interior intersection stop signs, and stop sign at Gilbert & Thatcher. Account for all signage and update accordingly

CDs and road section call out 5ft sidewalk update line and total

TNES Response: 5" specifies the thickness of the concrete, not the width.

**PROJECT INFORMATION**

**Project Name** Waterbury Filing No. 1      **Date** 2/6/2023      **PCD File No.** PUDSP 21-005

Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)	
						% Complete	Remaining
				=	\$ -		\$ -
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -
<b>STORM DRAIN IMPROVEMENTS</b>							
Concrete Box Culvert (M Standard), Size ( W x H )		LF		=	\$ -		\$ -
15" Reinforced Concrete Pipe	66	LF	\$ 61.00	=	\$ 4,026.00		\$ 4,026.00
18" Reinforced Concrete Pipe	364	LF	\$ 76.00	=	\$ 27,664.00		\$ 27,664.00
24" Reinforced Concrete Pipe	1,218	LF	\$ 91.00	=	\$ 110,838.00		\$ 110,838.00
30" Reinforced Concrete Pipe	674	LF	\$ 114.00	=	\$ 76,836.00		\$ 76,836.00
36" Reinforced Concrete Pipe	2,098	LF	\$ 140.00	=	\$ 293,720.00		\$ 293,720.00
42" Reinforced Concrete Pipe		LF	\$ 187.00	=	\$ -		\$ -
48" Reinforced Concrete Pipe		LF	\$ 228.00	=	\$ -		\$ -
54" Reinforced Concrete Pipe		LF	\$ 297.00	=	\$ -		\$ -
60" Reinforced Concrete Pipe		LF	\$ 348.00	=	\$ -		\$ -
66" Reinforced Concrete Pipe		LF	\$ 402.00	=	\$ -		\$ -
72" Reinforced Concrete Pipe		LF	\$ 460.00	=	\$ -		\$ -
18" Corrugated Steel Pipe		LF	\$ 98.00	=	\$ -		\$ -
24" Corrugated Steel Pipe		LF	\$ 112.00	=	\$ -		\$ -
30" Corrugated Steel Pipe		LF	\$ 143.00	=	\$ -		\$ -
36" Corrugated Steel Pipe		LF	\$ 171.00	=	\$ -		\$ -
42" Corrugated Steel Pipe		LF	\$ 197.00	=	\$ -		\$ -
48" Corrugated Steel Pipe		LF	\$ 207.00	=	\$ -		\$ -
54" Corrugated Steel Pipe		LF	\$ 304.00	=	\$ -		\$ -
60" Corrugated Steel Pipe		LF	\$ 328.00	=	\$ -		\$ -
66" Corrugated Steel Pipe		LF	\$ 397.00	=	\$ -		\$ -
72" Corrugated Steel Pipe		LF	\$ 467.00	=	\$ -		\$ -
78" Corrugated Steel Pipe		LF	\$ 537.00	=	\$ -		\$ -
84" Corrugated Steel Pipe		LF	\$ 642.00	=	\$ -		\$ -
Flared End Section (FES) RCP Size = 18" <i>(unit cost = 6x pipe unit cost)</i>	2	EA	\$ 456.00	=	\$ 912.00		\$ 912.00
Flared End Section (FES) CSP Size = 24" <i>(unit cost = 6x pipe unit cost)</i>	2	EA	\$ 546.00	=	\$ 1,092.00		\$ 1,092.00
Flared End Section (FES) CSP Size = 36" <i>(unit cost = 6x pipe unit cost)</i>	1	EA	\$ 684.00	=	\$ 684.00		\$ 684.00
Flared End Section (FES) CSP Size = 42" <i>(unit cost = 6x pipe unit cost)</i>	1	EA	\$ 1,122.00	=	\$ 1,122.00		\$ 1,122.00
End Treatment- Headwall		EA		=	\$ -		\$ -
End Treatment- Wingwall		EA		=	\$ -		\$ -
End Treatment - Cutoff Wall		EA		=	\$ -		\$ -
Curb Inlet (Type R) L=5', Depth < 5'	10	EA	\$ 6,703.00	=	\$ 67,030.00		\$ 67,030.00
Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'	4	EA	\$ 8,715.00	=	\$ 34,860.00		\$ 34,860.00
Curb Inlet (Type R) L =5', 10' ≤ Depth < 15'		EA	\$ 10,092.00	=	\$ -		\$ -
Curb Inlet (Type R) L =10', Depth < 5'	6	EA	\$ 9,224.00	=	\$ 55,344.00		\$ 55,344.00
Curb Inlet (Type R) L =10', 5' ≤ Depth < 10'	4	EA	\$ 9,507.00	=	\$ 38,028.00		\$ 38,028.00
Curb Inlet (Type R) L =10', 10' ≤ Depth < 15'		EA	\$ 11,901.00	=	\$ -		\$ -
Curb Inlet (Type R) L =15', Depth < 5'		EA	\$ 11,995.00	=	\$ -		\$ -
Curb Inlet (Type R) L =15', 5' ≤ Depth < 10'		EA	\$ 12,858.00	=	\$ -		\$ -
Curb Inlet (Type R) L =15', 10' ≤ Depth < 15'		EA	\$ 14,061.00	=	\$ -		\$ -
Curb Inlet (Type R) L =20', Depth < 5'		EA	\$ 12,783.00	=	\$ -		\$ -
Curb Inlet (Type R) L =20', 5' ≤ Depth < 10'		EA	\$ 14,109.00	=	\$ -		\$ -
Grated Inlet (Type C), Depth < 5'		EA	\$ 5,611.00	=	\$ -		\$ -
Grated Inlet (Type D), Depth < 5'		EA	\$ 6,931.00	=	\$ -		\$ -
Storm Sewer Manhole, Box Base		EA	\$ 14,061.00	=	\$ -		\$ -
Storm Sewer Manhole, Slab Base	18	EA	\$ 7,734.00	=	\$ 139,212.00		\$ 139,212.00
Geotextile (Erosion Control)		SY	\$ 8.00	=	\$ -		\$ -
Rip Rap, d50 size from 6" to 24"		Tons	\$ 97.00	=	\$ -		\$ -
Rip Rap, Grouted		Tons	\$ 115.00	=	\$ -		\$ -
Drainage Channel Construction, Size ( W x H )		LF	\$ -	=	\$ -		\$ -
Drainage Channel Lining, Concrete		CY	\$ 689.00	=	\$ -		\$ -
Drainage Channel Lining, Rip Rap		CY	\$ 135.00	=	\$ -		\$ -
Drainage Channel Lining, Grass		AC	\$ 1,776.00	=	\$ -		\$ -
Drainage Channel Lining, Other Stabilization				=	\$ -		\$ -
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -
<b>Section 2 Subtotal</b>					<b>=</b>	<b>\$ 3,374,877.00</b>	<b>\$ 3,374,877.00</b>

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

PROJECT INFORMATION							
Project Name	Waterbury Filing No. 1		Date	2/6/2023		PCD File No.	PUDSP 21-005
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 (Exception: Permanent Pond/BMP shall be itemized under Section 1)</b>							
12" HDPE Storm Pipe	1,126	LF	\$ 50.00	=	\$ 56,300.00		\$ 56,300.00
18" Dia. Inlet	12	EA	\$ 500.00	=	\$ 6,000.00		\$ 6,000.00
18" RCP Pipe	70	LF	\$ 76.00	=	\$ 5,320.00		\$ 5,320.00
24" RCP Pipe	47	LF	\$ 91.00	=	\$ 4,277.00		\$ 4,277.00
36" RCP Pipe	567	LF	\$ 114.00	=	\$ 64,638.00		\$ 64,638.00
42" RCP Pipe	254	LF	\$ 140.00	=	\$ 35,560.00		\$ 35,560.00
18" FES	3	EA	\$ 456.00	=	\$ 1,368.00		\$ 1,368.00
24" FES	1	EA	\$ 546.00	=	\$ 546.00		\$ 546.00
36" FES	1	EA	\$ 684.00	=	\$ 684.00		\$ 684.00
Headwalls	2	EA	\$ 2,000.00	=	\$ 4,000.00		\$ 4,000.00
Wingwalls	4	EA	\$ 2,000.00	=	\$ 8,000.00		\$ 8,000.00
4' W x 2' D Swale	565	LF	\$ 30.00	=	\$ 16,950.00		\$ 16,950.00
Rip Rap, d50 size from 6" to 24"	426	Tons	\$ 97.00	=	\$ 41,322.00		\$ 41,322.00
Drainage Channel Lining, Rip Rap	381	CY	\$ 135.00	=	\$ 51,381.00		\$ 51,381.00
				=	\$ -		\$ -
<b>WATER SYSTEM IMPROVEMENTS</b>							
Water Main Pipe (PVC), Size 8"	9,949	LF	\$ 78.00	=	\$ 776,022.00		\$ 776,022.00
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 91.00	=	\$ -		\$ -
Gate Valves, 8"	75	EA	\$ 2,247.00	=	\$ 168,525.00		\$ 168,525.00
Fire Hydrant Assembly, w/ all valves	22	EA	\$ 7,978.00	=	\$ 175,516.00		\$ 175,516.00
Water Service Line Installation, inc. tap and valves	208	EA	\$ 1,601.00	=	\$ 333,008.00		\$ 333,008.00
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"	11,604	LF	\$ 78.00	=	\$ 905,112.00		\$ 905,112.00
Sanitary Sewer Manhole, Depth < 15 feet	40	EA	\$ 5,305.00	=	\$ 212,200.00		\$ 212,200.00
Sanitary Service Line Installation, complete	208	EA	\$ 1,696.00	=	\$ 352,768.00		\$ 352,768.00
Sanitary Sewer Lift Station, complete		EA		=	\$ -		\$ -
				=	\$ -		\$ -
<i>[insert items not listed but part of construction plans]</i>							
<b>LANDSCAPING IMPROVEMENTS (For subdivision specific condition of approval, or PUD)</b>							
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
<b>Section 3 Subtotal</b>					<b>=</b>	<b>\$ 3,219,497.00</b>	<b>\$ 3,219,497.00</b>

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

Add channel stabilization plantings per FDR

Add Roundabout Landscaping

Values will be checked in more detail with following submittals.

**PROJECT INFORMATION**

**Project Name** Waterbury Filing No. 1      **Date** 2/6/2023      **PCD File No.** PUDSP 21-005

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	\$ 5,000.00	=	\$ 5,000.00		\$ 5,000.00
<b>Total Construction Financial Assurance</b>						<b>\$</b>	<b>7,633,360.95</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>7,633,360.95</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>865,856.00</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.

\_\_\_\_\_  
 Engineer (P.E. Seal Required)

\_\_\_\_\_  
 Approved by Owner / Applicant

\_\_\_\_\_  
 Date

\_\_\_\_\_  
 Approved by El Paso County Engineer / ECM Administrator

\_\_\_\_\_  
 Date