

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

Updated: 11/4/2021

PROJECT INFORMATION			
<b>WWSO Booster 2 Pump Station Replacement</b>	<b>10/28/2021 (Original)</b>	<b>PPR-2169</b>	
<b>Project Name</b>	<b>Date 04/12/22 (2022 Form)</b>	<b>PCD File No.</b>	

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	950	CY	\$ 8.00	=	\$	7,600.00		\$ 7,600.00
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		CY	\$ 2.00	=	\$	-		-
* Permanent Seeding (inc. noxious weed mgmt.)	0.25	AC	\$ 886.00	=	\$	221.50		221.50
* Mulching	0.50	AC	\$ 831.00	=	\$	415.50		415.50
* Permanent Erosion Control Blanket		SY	\$ 7.00	=	\$	-		-
* Permanent Pond/BMP Construction		CY	\$ 22.00	=	\$	-		-
* Permanent Pond/BMP (provide engineer's estimate)	1	EA	\$ 10,000.00	=	\$	10,000.00		10,000.00
		EA		=	\$	-		-
Safety Fence		LF	\$ 3.00	=	\$	-		-
Temporary Erosion Control Blanket	375	SY	\$ 3.00	=	\$	1,125.00		1,125.00
Vehicle Tracking Control	1	EA	\$ 2,625.00	=	\$	2,625.00		2,625.00
Silt Fence	890	LF	\$ 3.00	=	\$	2,670.00		2,670.00
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		EA	\$ 554.00	=	\$	-		-
Inlet Protection		EA	\$ 185.00	=	\$	-		-
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>								
				=	\$	-		-
<b>MAINTENANCE (35% of Construction BMPs)</b>						2,595.95		2,595.95
* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)								
<b>Section 1 Subtotal</b>						<b>\$ 28,249.95</b>		<b>\$ 28,249.95</b>

<b>SECTION 2 - PUBLIC IMPROVEMENTS *</b>								
<b>ROADWAY IMPROVEMENTS</b>								
Construction Traffic Control		LS		=	\$	-		\$ -
Aggregate Base Course (135 lbs/cf)		Tons	\$ 31.00	=	\$	-		\$ -
Aggregate Base Course (135 lbs/cf)		CY	\$ 56.00	=	\$	-		\$ -
Asphalt Pavement (3" thick)		SY	\$ 16.00	=	\$	-		\$ -
Asphalt Pavement (4" thick)		SY	\$ 21.00	=	\$	-		\$ -
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		EA	\$ 333.00	=	\$	-		\$ -
Guide/Street Name Sign		EA		=	\$	-		\$ -
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)		LF	\$ 32.00	=	\$	-		\$ -
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		SY	\$ 80.00	=	\$	-		\$ -
8" Sidewalk		SY	\$ 106.00	=	\$	-		\$ -
Pedestrian Ramp		EA	\$ 1,273.00	=	\$	-		\$ -
Cross Pan, local (8" thick, 6' wide to include return)		LF	\$ 67.00	=	\$	-		\$ -
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	=	\$	-		\$ -

**PROJECT INFORMATION**

**WWSD Booster 2 Pump Station Replacement**

**10/28/2021 (Original)**

**PPR-2169**

**Project Name**

**Date 04/12/22 (2022 Form)**

**PCD File No.**

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				
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 = <i>(unit cost = 6x pipe unit cost)</i>		EA				
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	\$ 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, Slab 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>						
* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED).						
<b>Section 2 Subtotal</b>				<b>=</b>	<b>\$</b>	<b>-</b>

**PROJECT INFORMATION**

WWSD Booster 2 Pump Station Replacement

10/28/2021 (Original)

PPR-2169

Project Name

Date 04/12/22 (2022 Form)

PCD File No.

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	46	LF	\$ 70.00	=	\$ 3,220.00		\$ 3,220.00	
Drainage Channel Lining, Rip Rap	10	CY	\$ 124.00	=	\$ 1,240.00		\$ 1,240.00	
Geotextile (Erosion Control)	42	SY	\$ 7.00	=	\$ 294.00		\$ 294.00	
Flared End Section (FES) RCP Size = (unit cost = 6x pipe unit cost)	2	EA	\$ 420.00	=	\$ 840.00		\$ 840.00	
				=	\$ -		\$ -	
				=	\$ -		\$ -	
<b>WATER SYSTEM IMPROVEMENTS</b>								
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>				=	\$ -		\$ -	
<b>SANITARY SEWER IMPROVEMENTS</b>								
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>				=	\$ -		\$ -	
<b>LANDSCAPING IMPROVEMENTS</b> (For subdivision specific condition of approval, or PUD)								
		EA		=	\$ -		\$ -	
		EA		=	\$ -		\$ -	
		EA		=	\$ -		\$ -	
		EA		=	\$ -		\$ -	
		EA		=	\$ -		\$ -	
		EA		=	\$ -		\$ -	
<b>Section 3 Subtotal</b>					<b>=</b>	<b>\$ 5,594.00</b>		<b>\$ 5,594.00</b>

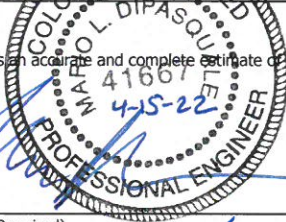
\*\* - Section 3 is not subject to defect warranty requirements

PROJECT INFORMATION		
WWSD Booster 2 Pump Station Replacement	10/28/2021 (Original)	PPR-2169
Project Name	Date 04/12/22 (2022 Form)	PCD File No.

Description	Quantity	Units	Unit Cost	Total	(with Pre-Plat Construction)	
					% Complete	Remaining
AS-BUILT PLANS (Public Improvements inc. Permanent WQCV BMPs)		LS	= \$	-	\$	-
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS	= \$	-	\$	-
<b>Total Construction Financial Assurance</b>					<b>\$</b>	<b>33,843.95</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>33,843.95</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>3,647.40</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

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

April 22, 2022

\_\_\_\_\_  
 Date

**APPROVED**  
**Engineering Department**

05/31/2022 3:20:46 PM  
 dsdnijkamp

EPC Planning & Community  
 Development Department