

Permanent Seeding is required.  
mulching should match seeding

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

Updated: 11/4/2021

PROJECT INFORMATION		
D49 Transportation Center	9/20/2022	PPR 2236
<b>Project Name</b>	<b>Date</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		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	30,875	CY		= \$ -		\$ -
50,001-200,000; \$175,000 min		CY		= \$ -		\$ -
greater than 200,000; \$500,000 min		CY		= \$ -		\$ -
* Permanent Seeding (inc. noxious weed mgmnt.)	NA	AC		= \$ -		\$ -
* Mulching	4	AC		= \$ -		\$ -
* Permanent Erosion Control Blanket	NA	SY	\$ 7.00	= \$ -		\$ -
* Permanent Pond/BMP Construction	5,885	CY	\$ 22.00	= \$ 129,470		\$ -
* Permanent Pond/BMP (provide engineer's estimate)	12,000	EA		= \$ 12,000		\$ -
Safety Fence	NA	LF	\$ 3.00	= \$ -		\$ -
Temporary Erosion Control Blanket	NA	SY	\$ 3.00	= \$ -		\$ -
Vehicle Tracking Control	3	EA	\$ 2,625.00	= \$ 7,875		\$ -
Silt Fence	1,028	LF	\$ 3.00	= \$ 3,084		\$ -
Temporary Seeding	4	AC	\$ 695.00	= \$ 2,780		\$ -
Temporary Mulch	4	AC	\$ 831.00	= \$ 3,324		\$ -
Erosion Bales	NA	EA	\$ 28.00	= \$ -		\$ -
Erosion Logs/Straw Wattles	1,734	LF	\$ 6.00	= \$ 10,404		\$ -
Rock Check Dams	4	EA	\$ 554.00	= \$ 2,216		\$ -
Inlet Protection	13	EA	\$ 185.00	= \$ 2,405		\$ -
Sediment Basin	1	EA	\$ 1,952.00	= \$ 1,952		\$ -
Concrete Washout Basin	3	EA	\$ 997.00	= \$ 2,991		\$ -
<i>[insert items not listed but part of construction plans]</i>						
<b>MAINTENANCE (35% of Construction BMPs)</b>				= \$ 79,873		\$ -
* - 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>				= \$ 369,760		\$ -

Provide quantity for erosion control blanket

## SECTION 2 - PUBLIC IMPROVEMENTS \*

ROADWAY IMPROVEMENTS						
Construction Traffic Control	1	LS		= \$ 0		\$ -
Aggregate Base Course (135 lbs/cf)		Tons		= \$ -		\$ -
Aggregate Base Course (135 lbs/cf)		CY		= \$ -		\$ -
Asphalt Pavement (3" thick)		SY		= \$ -		\$ -
Asphalt Pavement (4" thick)		SY		= \$ -		\$ -
Asphalt Pavement (6" thick)	1505	SY		= \$ -		\$ -
Asphalt Pavement (147 lbs/cf) ___" thick		Tons		= \$ -		\$ -
Raised Median, Paved		SF		= \$ -		\$ -
Regulatory Sign/Advisory Sign		EA		= \$ -		\$ -
Guide/Street Name Sign		EA		= \$ -		\$ -
Epoxy Pavement Marking		SF		= \$ -		\$ -
Thermoplastic Pavement Marking		SF		= \$ -		\$ -
Barricade - Type 3		EA	\$ 221.00	= \$ -		\$ -
Delineator - Type I		EA		= \$ -		\$ -
Curb and Gutter, Type A (6" Vertical)		LF		= \$ -		\$ -
Curb and Gutter, Type B (Median)		LF		= \$ -		\$ -
Curb and Gutter, Type C (Ramp)		LF		= \$ -		\$ -
4" Sidewalk (common areas only)	136	SY		= \$ -		\$ -
5" Sidewalk		SY		= \$ -		\$ -
6" Sidewalk		SY		= \$ -		\$ -
8" Sidewalk		SY		= \$ -		\$ -
Pedestrian Ramp		EA		= \$ -		\$ -
Cross Pan, local (8" thick, 6' wide to include return)		LF		= \$ -		\$ -
Cross Pan, collector (9" thick, 8' wide to include return)		LF		= \$ -		\$ -
Curb Chase		EA		= \$ -		\$ -
Guardrail Type 3 (W-Beam)		LF		= \$ -		\$ -
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	= \$ -		\$ -



See comments on the CDs. Sidewalk, ramp and C&G needs to be installed at the north side of the intersection. FAE will be reviewed once plans are updated.

**PROJECT INFORMATION**

D49 Transportation Center

9/20/2022

PPR 2236

**Project Name**

**Date**

**PCD File No.**

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		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		=	\$	-		\$ -	
(unit cost = 6x pipe unit cost)									
Flared End Section (FES) CSP Size =		EA		=	\$	-		\$ -	
(unit cost = 6x pipe unit cost)									
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				=	\$	-		\$ -	
[insert items not listed but part of construction plans]				=	\$	-		\$ -	
[insert items not listed but part of construction plans]				=	\$	-		\$ -	
<b>Section 2 Subtotal</b>						<b>\$ 67,914</b>	<b>-</b>	<b>\$ -</b>	

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

**PROJECT INFORMATION**

D49 Transportation Center	9/20/2022	PPR 2236
<b>Project Name</b>	<b>Date</b>	<b>PCD File No.</b>

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)								
				=	\$ -		\$ -	
				=	\$ -		\$ -	
				=	\$ -		\$ -	
				=	\$ -		\$ -	
				=	\$ -		\$ -	
<b>WATER SYSTEM IMPROVEMENTS</b>								
Water Main Pipe (PVC), Size 8"	NA	LF	\$ 71.00	=	\$ -		\$ -	
Water Main Pipe (Ductile Iron), Size 8"	2,346	LF	\$ 83.00	=	\$ 194,718		\$ -	
Gate Valves, 8"	8	EA	\$ 2,058.00	=	\$ 16,464		\$ -	
Fire Hydrant Assembly, w/ all valves	3	EA	\$ 7,306.00	=	\$ 21,918		\$ -	
Water Service Line Installation, inc. tap and valves	2	EA	\$ 1,466.00	=	\$ 2,932		\$ -	
Fire Cistern Installation, complete	NA	EA		=	\$ -		\$ -	
				=	\$ -		\$ -	
<i>[insert items not listed but part of construction plans]</i>								
				=	\$ -		\$ -	
<b>SANITARY SEWER IMPROVEMENTS</b>								
Sewer Main Pipe (PVC), Size 8"	2,066	LF	\$ 71.00	=	\$ 146,686		\$ -	
Sanitary Sewer Manhole, Depth < 15 feet	9	EA	\$ 4,858.00	=	\$ 43,722		\$ -	
Sanitary Service Line Installation, complete	1	EA	\$ 1,553.00	=	\$ 1,553		\$ -	
Sanitary Sewer Lift Station, complete	NA	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>					=	\$ 427,993		\$ -

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

**PROJECT INFORMATION**

D49 Transportation Center	6/15/2022	
<b>Project Name</b>	<b>Date</b>	<b>PCD File No.</b>

Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)	
						% Complete	Remaining
AS-BUILT PLANS (Public Improvements inc. Permanent WQCV BMPs)		LS	10,000	=	\$ 10,000	-	\$ -
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS	5,000	=	\$ 5,000	-	\$ -
<b>Total Construction Financial Assurance</b>						<b>\$ 960,540</b>	<b>-</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>-</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>-</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.



Cooper Karsh, PE, CFM

Engineer (P.E. Seal Required)

9/23/22 17:31 EDT

Approved by Owner / Applicant

Date

Approved by El Paso County Engineer / ECM Administrator

Date