

include costs for pond structures (forebay, trickle channel, outlet, spillway, etc.

EPC STORMWATER REVIEW COMMENTS ARE SHOWN IN ORANGE BOXES WITH BLACK TEXT

2022 Financial Assurance Estimate Form (with pre-plat construction) mulching should match seeding quantity

Updated: 11/4/2021

PROJECT INFORMATION		
D49 Transportation Center	6/15/2022	
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		CY	\$ 5.00	=	\$ -		\$ -	
20,001-50,000; \$100,000 min	30,875	CY	\$ 3.50	=	\$ 108,062		\$ -	
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.)	6	AC	\$ 886.00	=	\$ 5,316		\$ -	
* Mulching	NA	AC	\$ 831.00	=	\$ -		\$ -	
* 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)		EA		=	\$ -		\$ -	
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	NA	AC	\$ 831.00	=	\$ -		\$ -	
Erosion Bales	NA	EA	\$ 28.00	=	\$ -		\$ -	
Erosion Logs/Straw Wattles	1,734	LF	\$ 6.00	=	\$ 10,404		\$ -	
Rock Check Dams	NA	EA	\$ 554.00	=	\$ -		\$ -	
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		\$ -	
[insert items not listed but part of construction plans]				=	\$ -		\$ -	
MAINTENANCE (35% of Construction BMPs)					=	\$ 123,974		\$ -
* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)								
Section 1 Subtotal					=	\$ 354,212		\$ -

RCDs shown on figures

SECTION 2 - PUBLIC IMPROVEMENTS *

ROADWAY IMPROVEMENTS							
Construction Traffic Control	1	LS	\$ 10,000	=	\$ 10,000		\$ -
Aggregate Base Course (135 lbs/cf)		Tons	\$ 31.00	=	\$ -		\$ -
Aggregate Base Course (135 lbs/cf)	17,074	CY	\$ 56.00	=	\$ 956,144		\$ -
Asphalt Pavement (3" thick)	NA	SY	\$ 16.00	=	\$ -		\$ -
Asphalt Pavement (4" thick)	NA	SY	\$ 21.00	=	\$ -		\$ -
Asphalt Pavement (6" thick)	1,695	SY	\$ 32.00	=	\$ 54,240		\$ -
Asphalt Pavement (147 lbs/cf) _" thick	NA	Tons	\$ 97.00	=	\$ -		\$ -
Raised Median, Paved	NA	SF	\$ 9.00	=	\$ -		\$ -
Regulatory Sign/Advisory Sign	21	EA	\$ 333.00	=	\$ 6,993		\$ -
Guide/Street Name Sign	NA	EA		=	\$ -		\$ -
Epoxy Pavement Marking	NA	SF	\$ 15.00	=	\$ -		\$ -
Thermoplastic Pavement Marking	NA	SF	\$ 26.00	=	\$ -		\$ -
Barricade - Type 3	NA	EA	\$ 221.00	=	\$ -		\$ -
Delineator - Type I	25	EA	\$ 27.00	=	\$ 675		\$ -
Curb and Gutter, Type A (6" Vertical)	1,060	LF	\$ 32.00	=	\$ 33,920		\$ -
Curb and Gutter, Type B (Median)	NA	LF	\$ 32.00	=	\$ -		\$ -
Curb and Gutter, Type C (Ramp)	298	LF	\$ 32.00	=	\$ 9,536		\$ -
4" Sidewalk (common areas only)	378	SY	\$ 53.00	=	\$ 20,034		\$ -
5" Sidewalk	NA	SY	\$ 66.00	=	\$ -		\$ -
6" Sidewalk	NA	SY	\$ 80.00	=	\$ -		\$ -
8" Sidewalk	NA	SY	\$ 106.00	=	\$ -		\$ -
Pedestrian Ramp	2	EA	\$ 1,273.00	=	\$ 2,546		\$ -
Cross Pan, local (8" thick, 6' wide to include return)	NA	LF	\$ 67.00	=	\$ -		\$ -
Cross Pan, collector (9" thick, 8' wide to include return)	NA	LF	\$ 102.00	=	\$ -		\$ -
Curb Chase	NA	EA	\$ 1,639.00	=	\$ -		\$ -
Guardrail Type 3 (W-Beam)	NA	LF	\$ 55.00	=	\$ -		\$ -
Guardrail Type 7 (Concrete)	NA	LF	\$ 80.00	=	\$ -		\$ -
Guardrail End Anchorage	NA	EA	\$ 2,324.00	=	\$ -		\$ -
Guardrail Impact Attenuator	NA	EA	\$ 4,172.00	=	\$ -		\$ -
Sound Barrier Fence (CMU block, 6' high)	NA	LF	\$ 87.00	=	\$ -		\$ -
Sound Barrier Fence (panels, 6' high)	NA	LF	\$ 89.00	=	\$ -		\$ -
Electrical Conduit, Size =	NA	LF	\$ 18.00	=	\$ -		\$ -
Traffic Signal, complete intersection	NA	EA	\$ 470,666	=	\$ -		\$ -

PROJECT INFORMATION

D49 Transportation Center

6/15/2022

Project Name

Date

PCD File No.

Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)		
						% Complete	Remaining	
12" Reinforced Concrete Pipe	1,480	LF	\$ 60.00	=	\$ 88,800	-	\$ -	
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -	
STORM DRAIN IMPROVEMENTS								
6" PVC Pipe	906	LF	\$ 11.00	=	\$ 9,966	-	\$ -	
		LF	\$ 70.00	=	\$ -		\$ -	
24" Reinforced Concrete Pipe	NA	LF	\$ 83.00	=	\$ -		\$ -	
30" Reinforced Concrete Pipe	NA	LF	\$ 104.00	=	\$ -		\$ -	
36" Reinforced Concrete Pipe	NA	LF	\$ 128.00	=	\$ -		\$ -	
42" Reinforced Concrete Pipe	NA	LF	\$ 171.00	=	\$ -		\$ -	
48" Reinforced Concrete Pipe	NA	LF	\$ 209.00	=	\$ -		\$ -	
54" Reinforced Concrete Pipe	NA	LF	\$ 272.00	=	\$ -		\$ -	
60" Reinforced Concrete Pipe	NA	LF	\$ 319.00	=	\$ -		\$ -	
66" Reinforced Concrete Pipe	NA	LF	\$ 368.00	=	\$ -		\$ -	
72" Reinforced Concrete Pipe	NA	LF	\$ 421.00	=	\$ -		\$ -	
18" Corrugated Steel Pipe	NA	LF	\$ 90.00	=	\$ -		\$ -	
24" Corrugated Steel Pipe	NA	LF	\$ 103.00	=	\$ -		\$ -	
30" Corrugated Steel Pipe	NA	LF	\$ 131.00	=	\$ -		\$ -	
36" Corrugated Steel Pipe	NA	LF	\$ 157.00	=	\$ -		\$ -	
42" Corrugated Steel Pipe	NA	LF	\$ 180.00	=	\$ -		\$ -	
48" Corrugated Steel Pipe	NA	LF	\$ 190.00	=	\$ -		\$ -	
54" Corrugated Steel Pipe	NA	LF	\$ 278.00	=	\$ -		\$ -	
60" Corrugated Steel Pipe	NA	LF	\$ 300.00	=	\$ -		\$ -	
66" Corrugated Steel Pipe	NA	LF	\$ 364.00	=	\$ -		\$ -	
72" Corrugated Steel Pipe	NA	LF	\$ 428.00	=	\$ -		\$ -	
78" Corrugated Steel Pipe	NA	LF	\$ 492.00	=	\$ -		\$ -	
84" Corrugated Steel Pipe	NA	LF	\$ 588.00	=	\$ -		\$ -	
Flared End Section (FES) RCP Size =								
<i>(unit cost = 6x pipe unit cost)</i>	10	EA	\$ 360.00	=	\$ 3,600	-	\$ -	
Flared End Section (FES) CSP Size =								
<i>(unit cost = 6x pipe unit cost)</i>		EA		=	\$ -		\$ -	
End Treatment- Headwall	2	EA	\$ 115.00	=	\$ 230	-	\$ -	
End Treatment- Wingwall	NA	EA		=	\$ -		\$ -	
End Treatment - Cutoff Wall	NA	EA		=	\$ -		\$ -	
Curb Inlet (Type R) L=5', Depth < 5'	NA	EA	\$ 6,138.00	=	\$ -		\$ -	
Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'	NA	EA	\$ 7,981.00	=	\$ -		\$ -	
Curb Inlet (Type R) L =5', 10' ≤ Depth < 15'	NA	EA	\$ 9,242.00	=	\$ -		\$ -	
Curb Inlet (Type R) L =10', Depth < 5'	NA	EA	\$ 8,447.00	=	\$ -		\$ -	
Curb Inlet (Type R) L =10', 5' ≤ Depth < 10'	NA	EA	\$ 8,706.00	=	\$ -		\$ -	
Curb Inlet (Type R) L =10', 10' ≤ Depth < 15'	NA	EA	\$ 10,898.00	=	\$ -		\$ -	
Curb Inlet (Type R) L =15', Depth < 5'	NA	EA	\$ 10,984.00	=	\$ -		\$ -	
Curb Inlet (Type R) L =15', 5' ≤ Depth < 10'	NA	EA	\$ 11,775.00	=	\$ -		\$ -	
Curb Inlet (Type R) L =15', 10' ≤ Depth < 15'	NA	EA	\$ 12,876.00	=	\$ -		\$ -	
Curb Inlet (Type R) L =20', Depth < 5'	NA	EA	\$ 11,706.00	=	\$ -		\$ -	
Curb Inlet (Type R) L =20', 5' ≤ Depth < 10'	NA	EA	\$ 12,920.00	=	\$ -		\$ -	
Grated Inlet (Type C), Depth < 5'	1	EA	\$ 5,138.00	=	\$ 5,138	-	\$ -	
Grated Inlet (Type D), Depth < 5'	NA	EA	\$ 6,347.00	=	\$ -		\$ -	
Storm Sewer Manhole, Box Base	4	EA	\$ 12,876.00	=	\$ 51,504	-	\$ -	
Storm Sewer Manhole, Slab Base	NA	EA	\$ 7,082.00	=	\$ -		\$ -	
Geotextile (Erosion Control)	NA	SY	\$ 7.00	=	\$ -		\$ -	
Rip Rap, d50 size from 6" to 24"	NA	Tons	\$ 89.00	=	\$ -		\$ -	
Rip Rap, Grouted	NA	Tons	\$ 105.00	=	\$ -		\$ -	
Drainage Channel Construction, Size (W x H)	NA	LF	\$ -	=	\$ -		\$ -	
Drainage Channel Lining, Concrete	NA	CY	\$ 631.00	=	\$ -		\$ -	
Drainage Channel Lining, Rip Rap	NA	CY	\$ 124.00	=	\$ -		\$ -	
Drainage Channel Lining, Grass	NA	AC	\$ 1,626.00	=	\$ -		\$ -	
Drainage Channel Lining, Other Stabilization	NA			=	\$ -		\$ -	
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -	
Section 2 Subtotal					=	\$ 1,253,326		\$ -

* - 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	6/15/2022	
Project Name	Date	PCD File No.

Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)		
						% 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"	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>				=	\$ -		\$ -	
SANITARY SEWER IMPROVEMENTS								
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>				=	\$ -		\$ -	
LANDSCAPING IMPROVEMENTS (For subdivision specific condition of approval, or PUD)								
		EA		=	\$ -		\$ -	
		EA		=	\$ -		\$ -	
		EA		=	\$ -		\$ -	
		EA		=	\$ -		\$ -	
		EA		=	\$ -		\$ -	
Section 3 Subtotal					=	\$ 427,993	-	\$ -

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

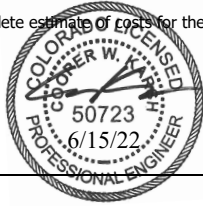
PROJECT INFORMATION

D49 Transportation Center	6/15/2022	
Project Name	Date	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	10,000	=	\$ 10,000	-	\$ -
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS	5,000	=	\$ 5,000	-	\$ -
Total Construction Financial Assurance							\$ 2,050,531 -
(Sum of all section subtotals plus as-builts and pond/BMP certification)							
Total Remaining Construction Financial Assurance (with Pre-Plat Construction)							\$ 2,050,531 -
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)							
Total Defect Warranty Financial Assurance							\$ 299,235 -
(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, P.E.

Engineer (P.E. Seal Required)

Butt Ridgway

Approved by Owner / Applicant

6 / 20 / 2022

Date

Approved by El Paso County Engineer / ECM Administrator

Date