

Form updated, FYI below link did not work for me

Update to 2022 form: <https://assets-planningdevelopment.elpasoco.com/wp-content/uploads/2022-Financial-Assurance-Estimate.xlsx>

2021 Financial Assurance Estimate Form (with pre-plat construction)

Mulching should match seeding qty

No mulching proposed on this project

PROJECT INFORMATION		
Pike Solar	2/4/2022	
Project Name	Date	PCD File No.

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		CY	\$ 2.00	= \$ -		\$ -
* Permanent Seeding (inc. noxious weed mgmnt.)	137	AC	\$ 828.00	= \$ 113,436.00		\$ 113,436.00
* Mulching		AC	\$ 777.00	= \$ -		\$ -
* Permanent Erosion Control Blanket		SY	\$ 6.00	= \$ -		\$ -
* Permanent Pond/BMP Construction		CY	\$ 21.00	= \$ -		\$ -
* Permanent Pond/BMP (provide engineering)				= \$ -		\$ -
Safety Fence				= \$ -		\$ -
Temporary Erosion Control Blanket				= \$ -		\$ -
Vehicle Tracking Control				= \$ 17,171.00		\$ 17,171.00
Silt Fence				= \$ 139,310.60		\$ 139,310.60
Temporary Seeding		AC	\$ 650.00	= \$ -		\$ -
Temporary Mulch		AC	\$ 777.00	= \$ -		\$ -
Erosion Bales		EA	\$ 26.00	= \$ -		\$ -
Erosion Logs/Straw Waddle	396	LF	\$ 5.00	= \$ 1,980.00		\$ 1,980.00
Rock Check Dams	21	EA	\$ 518.00	= \$ 10,878.00		\$ 10,878.00
Inlet Protection		EA	\$ 173.00	= \$ -		\$ -
Sediment Basin	2	EA	\$ 1,824.00	= \$ 3,648.00		\$ 3,648.00
Concrete Washout Basin	3	EA	\$ 932.00	= \$ 2,796.00		\$ 2,796.00
(insert items not listed but part of construction plan)				= \$ -		\$ -
<b>MAINTENANCE (35% of Construction BMPs)</b>				= \$ 61,524.26		\$ 61,524.26
<b>Section 1 Subtotal</b>				= \$ <b>350,743.86</b>		\$ <b>350,743.86</b>

SF to be used throughout the site, with j-hooks being used when running perpendicular to contours.

recommend adding temp. berm option

seems low

2 sediment basins added, for a total of 4.

**SECTION 2 - PUBLIC IMPROVEMENTS \***

ROADWAY IMPROVEMENTS						
Construction Traffic Control		LS		= \$ -		\$ -
Aggregate Base Course (135 lbs/cf)		Tons	\$ 29.00	= \$ -		\$ -
Aggregate Base Course (135 lbs/cf)		CY	\$ 52.00	= \$ -		\$ -
Asphalt Pavement (3" thick)		SY	\$ 14.50	= \$ -		\$ -
Asphalt Pavement (4" thick)		SY	\$ 20.00	= \$ -		\$ -
Asphalt Pavement (6" thick)		SY	\$ 30.00	= \$ -		\$ -
Asphalt Pavement (147 lbs/cf) ___" thick		Tons	\$ 91.00	= \$ -		\$ -
Raised Median, Paved		SF	\$ 8.30	= \$ -		\$ -
Regulatory Sign/Advisory Sign		EA	\$ 311.00	= \$ -		\$ -
Guide/Street Name Sign		EA		= \$ -		\$ -
Epoxy Pavement Marking		SF	\$ 14.00	= \$ -		\$ -
Thermoplastic Pavement Marking		SF	\$ 24.00	= \$ -		\$ -
Barricade - Type 3		EA	\$ 207.00	= \$ -		\$ -
Delineator - Type I		EA	\$ 25.00	= \$ -		\$ -
Curb and Gutter, Type A (6" Vertical)		LF	\$ 31.00	= \$ -		\$ -
Curb and Gutter, Type B (Median)		LF	\$ 31.00	= \$ -		\$ -
Curb and Gutter, Type C (Ramp)		LF	\$ 31.00	= \$ -		\$ -
4" Sidewalk (common areas only)		SY	\$ 50.00	= \$ -		\$ -
5" Sidewalk		SY	\$ 62.00	= \$ -		\$ -
6" Sidewalk		SY	\$ 75.00	= \$ -		\$ -
8" Sidewalk		SY	\$ 99.00	= \$ -		\$ -
Pedestrian Ramp		EA	\$ 1,190.00	= \$ -		\$ -
Cross Pan, local (8" thick, 6' wide to include return)		LF	\$ 63.00	= \$ -		\$ -
Cross Pan, collector (9" thick, 8' wide to include return)		LF	\$ 95.00	= \$ -		\$ -
Curb Chase		EA	\$ 1,532.00	= \$ -		\$ -
Guardrail Type 3 (W-Beam)		LF	\$ 51.00	= \$ -		\$ -
Guardrail Type 7 (Concrete)		LF	\$ 75.00	= \$ -		\$ -
Guardrail End Anchorage		EA	\$ 2,172.00	= \$ -		\$ -
Guardrail Impact Attenuator		EA	\$ 3,899.00	= \$ -		\$ -
Sound Barrier Fence (CMU block, 6' high)		LF	\$ 81.00	= \$ -		\$ -
Sound Barrier Fence (panels, 6' high)		LF	\$ 83.00	= \$ -		\$ -
Electrical Conduit, Size =		LF	\$ 17.00	= \$ -		\$ -
Traffic Signal, complete intersection		EA	\$ 439,875	= \$ -		\$ -

**PROJECT INFORMATION**

<b>Pike Solar</b>	<b>2/4/2022</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
				=	\$ -		\$ -
<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	\$ 67.00	=	\$ -		\$ -
24" Reinforced Concrete Pipe		LF	\$ 81.00	=	\$ -		\$ -
30" Reinforced Concrete Pipe		LF	\$ 100.00	=	\$ -		\$ -
36" Reinforced Concrete Pipe		LF	\$ 124.00	=	\$ -		\$ -
42" Reinforced Concrete Pipe		LF	\$ 166.00	=	\$ -		\$ -
48" Reinforced Concrete Pipe		LF	\$ 202.00	=	\$ -		\$ -
54" Reinforced Concrete Pipe		LF	\$ 254.00	=	\$ -		\$ -
60" Reinforced Concrete Pipe		LF	\$ 298.00	=	\$ -		\$ -
66" Reinforced Concrete Pipe		LF	\$ 344.00	=	\$ -		\$ -
72" Reinforced Concrete Pipe		LF	\$ 393.00	=	\$ -		\$ -
18" Corrugated Steel Pipe		LF	\$ 87.00	=	\$ -		\$ -
24" Corrugated Steel Pipe		LF	\$ 99.00	=	\$ -		\$ -
30" Corrugated Steel Pipe		LF	\$ 126.00	=	\$ -		\$ -
36" Corrugated Steel Pipe		LF	\$ 152.00	=	\$ -		\$ -
42" Corrugated Steel Pipe		LF	\$ 174.00	=	\$ -		\$ -
48" Corrugated Steel Pipe		LF	\$ 184.00	=	\$ -		\$ -
54" Corrugated Steel Pipe		LF	\$ 269.00	=	\$ -		\$ -
60" Corrugated Steel Pipe		LF	\$ 290.00	=	\$ -		\$ -
66" Corrugated Steel Pipe		LF	\$ 352.00	=	\$ -		\$ -
72" Corrugated Steel Pipe		LF	\$ 414.00	=	\$ -		\$ -
78" Corrugated Steel Pipe		LF	\$ 476.00	=	\$ -		\$ -
84" Corrugated Steel Pipe		LF	\$ 569.00	=	\$ -		\$ -
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	\$ 5,736.00	=	\$ -		\$ -
Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'		EA	\$ 7,440.00	=	\$ -		\$ -
Curb Inlet (Type R) L=5', 10' ≤ Depth < 15'		EA	\$ 8,637.00	=	\$ -		\$ -
Curb Inlet (Type R) L=10', Depth < 5'		EA	\$ 7,894.00	=	\$ -		\$ -
Curb Inlet (Type R) L=10', 5' ≤ Depth < 10'		EA	\$ 8,136.00	=	\$ -		\$ -
Curb Inlet (Type R) L=10', 10' ≤ Depth < 15'		EA	\$ 10,185.00	=	\$ -		\$ -
Curb Inlet (Type R) L=15', Depth < 5'		EA	\$ 10,265.00	=	\$ -		\$ -
Curb Inlet (Type R) L=15', 5' ≤ Depth < 10'		EA	\$ 11,005.00	=	\$ -		\$ -
Curb Inlet (Type R) L=15', 10' ≤ Depth < 15'		EA	\$ 12,034.00	=	\$ -		\$ -
Curb Inlet (Type R) L=20', Depth < 5'		EA	\$ 10,940.00	=	\$ -		\$ -
Curb Inlet (Type R) L=20', 5' ≤ Depth < 10'		EA	\$ 12,075.00	=	\$ -		\$ -
Grated Inlet (Type C), Depth < 5'		EA	\$ 4,802.00	=	\$ -		\$ -
Grated Inlet (Type D), Depth < 5'		EA	\$ 5,932.00	=	\$ -		\$ -
Storm Sewer Manhole, Box Base		EA	\$ 12,034.00	=	\$ -		\$ -
Storm Sewer Manhole, Slab Base		EA	\$ 6,619.00	=	\$ -		\$ -
Geotextile (Erosion Control)		SY	\$ 6.20	=	\$ -		\$ -
Rip Rap, d50 size from 6" to 24"		Tons	\$ 83.00	=	\$ -		\$ -
Rip Rap, Grouted		Tons	\$ 98.00	=	\$ -		\$ -
Drainage Channel Construction, Size ( W x H )		LF		=	\$ -		\$ -
Drainage Channel Lining, Concrete		CY	\$ 590.00	=	\$ -		\$ -
Drainage Channel Lining, Rip Rap		CY	\$ 116.00	=	\$ -		\$ -
Drainage Channel Lining, Grass		AC	\$ 1,520.00	=	\$ -		\$ -
Drainage Channel Lining, Other Stabilization				=	\$ -		\$ -
				=	\$ -		\$ -
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -
				<b>Section 2 Subtotal</b>	<b>= \$ -</b>		<b>\$ -</b>

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

**PROJECT INFORMATION**

<b>Pike Solar</b>	<b>2/4/2022</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
<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)						
Floodplain Crossings	1,807	SY	\$ 99.00	=	\$ 178,893.00	\$ 178,893.00
Aggregate Base Course for Crossings (135 lbs/cf)	398	CY	\$ 52.00	=	\$ 20,696.00	\$ 20,696.00
Single Barrell 18" RCP Culvert	227	LF	\$ 67.00	=	\$ 15,209.00	\$ 15,209.00
Double Barrel 18" RCP Culvert	24	LF	\$ 134.00	=	\$ 3,216.00	\$ 3,216.00
Triple Barrel 18" RCP Culvert	29	LF	\$ 201.00	=	\$ 5,829.00	\$ 5,829.00
Single Barrell 24" RCP Culvert	40	LF	\$ 81.00	=	\$ 3,240.00	\$ 3,240.00
Flared End Section (FES) RCP Size = 18" (unit cost = 6x pipe unit cost)	22	EA	\$ 402.00	=	\$ 8,844.00	\$ 8,844.00 *
Flared End Section (FES) RCP Size = 24" (unit cost = 6x pipe unit cost)	2	EA	\$ 486.00	=	\$ 972.00	\$ 972.00 *
<b>WATER SYSTEM IMPROVEMENTS</b>						
Water Main Pipe (PVC), Size 8"		LF	\$ 66.00	=	\$ -	\$ -
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 78.00	=	\$ -	\$ -
Gate Valves, 8"		EA	\$ 1,923.00	=	\$ -	\$ -
Fire Hydrant Assembly, w/ all valves		EA	\$ 6,828.00	=	\$ -	\$ -
Water Service Line Installation, inc. tap and valves		EA	\$ 1,370.00	=	\$ -	\$ -
Fire Cistern Installation, complete		EA		=	\$ -	\$ -
[insert items not listed but part of construction plans]				=	\$ -	\$ -
<b>SANITARY SEWER IMPROVEMENTS</b>						
Sewer Main Pipe (PVC), Size 8"		LF	\$ 66.00	=	\$ -	\$ -
Sanitary Sewer Manhole, Depth < 15 feet		EA	\$ 4,540.00	=	\$ -	\$ -
Sanitary Service Line Installation, complete		EA	\$ 1,451.00	=	\$ -	\$ -
Sanitary Sewer Lift Station, complete		EA		=	\$ -	\$ -
[insert items not listed but part of construction plans]				=	\$ -	\$ -
<b>LANDSCAPING IMPROVEMENTS</b> (For subdivision specific condition of approval, or PUD)						
		EA		=	\$ -	\$ -
		EA		=	\$ -	\$ -
		EA		=	\$ -	\$ -
		EA		=	\$ -	\$ -
		EA		=	\$ -	\$ -
		EA		=	\$ -	\$ -
<b>Section 3 Subtotal</b>				=	\$ <b>236,899.00</b>	\$ <b>236,899.00</b>

Collateral is not needed for these items

Items removed from FAE

SEED MIX AS DEPICTED ON LANDSCAPE PLAN; ANY AREAS OF RIPARIAN AREAS TO BE RESTORED

fencing

Items removed from FAE per comment to the right

Items removed from FAE per comment to the right, seeding provided per Section 1.

**PROJECT INFORMATION**

<b>Pike Solar</b>	<b>2/4/2022</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
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>\$ 587,642.86</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>\$ 587,642.86</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>\$ 22,687.20</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

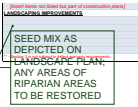
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 Date

# FAE\_V1 redlines.pdf Markup Summary 3-21-2022

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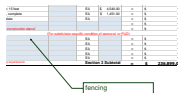
## dsdparsons (2)

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SEED MIX AS DEPICTED ON LANDSCAPE PLAN; ANY AREAS OF RIPARIAN AREAS TO BE RESTORED



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fencing

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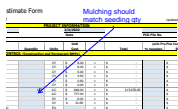
## dsdrice (5)

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Update to 2022 form:  
<https://assets-planningdevelopment.elpasoco.com/wp-content/uploads/2022-Financial-Assurance-Estimate.xlsx>



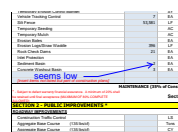
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Mulching should match seeding qty



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recommend adding temp. berm option



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seems low



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Collateral is not needed for these items