

Review 1 comment: Include the proposed storm drain improvements and permanent BMP(detention ponds)

2019 Financial Assurance Estimate Form
(with pre-plat construction)

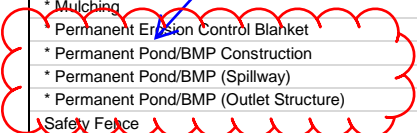
Review 2: Unresolved. Please include the detention ponds

Updated: 7/16/2019

PROJECT INFORMATION		
Legacy Church	9/17/2019	PPR1933
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	=	\$ 8,000.00		\$ 8,000.00	
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.)	0.26	AC	\$ 800.00	=	\$ 208.00		\$ 208.00	
* Mulching	0.26	AC	\$ 750.00	=	\$ 195.00		\$ 195.00	
* Permanent Erosion Control Blanket		SY	\$ 6.00	=	\$ -		\$ -	
* Permanent Pond/BMP Construction		CY	\$ 20.00	=	\$ -		\$ -	
* Permanent Pond/BMP (Spillway)		EA		=	\$ -		\$ -	
* Permanent Pond/BMP (Outlet Structure)		EA		=	\$ -		\$ -	
Safety Fence	1,552	LF	\$ 3.00	=	\$ 4,656.00		\$ 4,656.00	
Temporary Erosion Control Blanket		SY	\$ 3.00	=	\$ -		\$ -	
Vehicle Tracking Control	1	EA	\$ 2,370.00	=	\$ 2,370.00		\$ 2,370.00	
Silt Fence	1,552	LF	\$ 2.50	=	\$ 3,880.00		\$ 3,880.00	
Temporary Seeding		AC	\$ 628.00	=	\$ -		\$ -	
Temporary Mulch		AC	\$ 750.00	=	\$ -		\$ -	
Erosion Bales		EA	\$ 25.00	=	\$ -		\$ -	
Erosion Logs/Straw Waddle		LF	\$ 5.00	=	\$ -		\$ -	
Rock Check Dams		EA	\$ 500.00	=	\$ -		\$ -	
Inlet Protection	17	EA	\$ 167.00	=	\$ 2,839.00		\$ 2,839.00	
Sediment Basin	2	EA	\$ 1,762.00	=	\$ 3,524.00		\$ 3,524.00	
Concrete Washout Basin	1	EA	\$ 900.00	=	\$ 900.00		\$ 900.00	
[insert items not listed but part of construction plans]				=	\$ -		\$ -	
MAINTENANCE (35% of Construction BMPs)					=	\$ 4,729.55		\$ 4,729.55
Section 1 Subtotal					=	\$ 31,301.55		\$ 31,301.55
SECTION 2 - PUBLIC IMPROVEMENTS *								
ROADWAY IMPROVEMENTS								
Construction Traffic Control		LS		=	\$ -		\$ -	
Aggregate Base Course (135 lbs/cf)		Tons	\$ 28.00	=	\$ -		\$ -	
Aggregate Base Course (135 lbs/cf)		CY	\$ 50.00	=	\$ -		\$ -	
Asphalt Pavement (3" thick)		SY	\$ 14.00	=	\$ -		\$ -	
Asphalt Pavement (4" thick)		SY	\$ 19.00	=	\$ -		\$ -	
Asphalt Pavement (6" thick)		SY	\$ 29.00	=	\$ -		\$ -	
Asphalt Pavement (147 lbs/cf) _" thick		Tons	\$ 88.00	=	\$ -		\$ -	
Raised Median, Paved		SF	\$ 8.00	=	\$ -		\$ -	
Regulatory Sign/Advisory Sign		EA	\$ 300.00	=	\$ -		\$ -	
Guide/Street Name Sign		EA		=	\$ -		\$ -	
Epoxy Pavement Marking		SF	\$ 13.00	=	\$ -		\$ -	
Thermoplastic Pavement Marking		SF	\$ 23.00	=	\$ -		\$ -	
Barricade - Type 3		EA	\$ 200.00	=	\$ -		\$ -	
Delineator - Type I		EA	\$ 24.00	=	\$ -		\$ -	
Curb and Gutter, Type A (6" Vertical)		LF	\$ 30.00	=	\$ -		\$ -	
Curb and Gutter, Type B (Median)		LF	\$ 30.00	=	\$ -		\$ -	
Curb and Gutter, Type C (Ramp)		LF	\$ 30.00	=	\$ -		\$ -	
4" Sidewalk (common areas only)		SY	\$ 48.00	=	\$ -		\$ -	
5" Sidewalk		SY	\$ 60.00	=	\$ -		\$ -	
6" Sidewalk		SY	\$ 72.00	=	\$ -		\$ -	
8" Sidewalk		SY	\$ 96.00	=	\$ -		\$ -	
Pedestrian Ramp		EA	\$ 1,150.00	=	\$ -		\$ -	
Cross Pan, local (8" thick, 6' wide to include return)		LF	\$ 61.00	=	\$ -		\$ -	
Cross Pan, collector (9" thick, 8' wide to include return)		LF	\$ 92.00	=	\$ -		\$ -	
Curb Chase		EA	\$ 1,480.00	=	\$ -		\$ -	
Guardrail Type 3 (W-Beam)		LF	\$ 49.00	=	\$ -		\$ -	
Guardrail Type 7 (Concrete)		LF	\$ 72.00	=	\$ -		\$ -	
Guardrail End Anchorage		EA	\$ 2,098.00	=	\$ -		\$ -	
Guardrail Impact Attenuator		EA	\$ 3,767.00	=	\$ -		\$ -	
Sound Barrier Fence (CMU block, 6' high)		LF	\$ 78.00	=	\$ -		\$ -	
Sound Barrier Fence (panels, 6' high)		LF	\$ 80.00	=	\$ -		\$ -	
Electrical Conduit, Size =		LF	\$ 16.00	=	\$ -		\$ -	
Traffic Signal, complete intersection		EA	\$ 425,000	=	\$ -		\$ -	

include proposed detention ponds here



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Project Name	Date	PCD File No.	

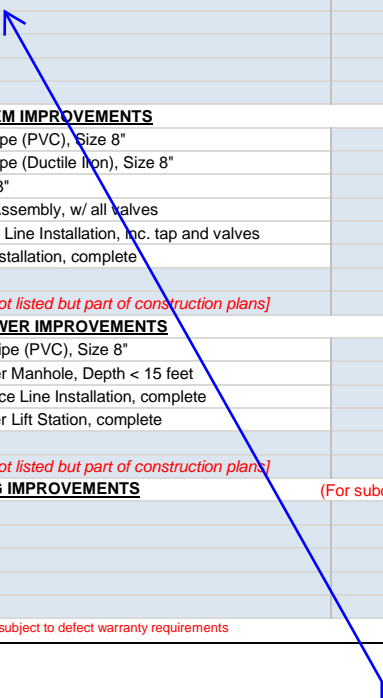
Description	Quantity	Units	Unit Cost	=	\$	Total	(with Pre-Plat Construction)	
							% Complete	Remaining
[insert items not listed but part of construction plans]				=	\$	-		\$ -
STORM DRAIN IMPROVEMENTS				=	\$	-		\$ -
Concrete Box Culvert (M Standard), Size (W x H)		LF		=	\$	-		\$ -
18" Reinforced Concrete Pipe	590	LF	\$ 65.00	=	\$	38,350.00		\$ 38,350.00
24" Reinforced Concrete Pipe		LF	\$ 78.00	=	\$	-		\$ -
30" Reinforced Concrete Pipe		LF	\$ 97.00	=	\$	-		\$ -
36" Reinforced Concrete Pipe		LF	\$ 120.00	=	\$	-		\$ -
42" Reinforced Concrete Pipe		LF	\$ 160.00	=	\$	-		\$ -
48" Reinforced Concrete Pipe		LF	\$ 195.00	=	\$	-		\$ -
54" Reinforced Concrete Pipe		LF	\$ 245.00	=	\$	-		\$ -
60" Reinforced Concrete Pipe		LF	\$ 288.00	=	\$	-		\$ -
66" Reinforced Concrete Pipe		LF	\$ 332.00	=	\$	-		\$ -
72" Reinforced Concrete Pipe		LF	\$ 380.00	=	\$	-		\$ -
18" Corrugated Steel Pipe		LF	\$ 84.00	=	\$	-		\$ -
24" Corrugated Steel Pipe		LF	\$ 96.00	=	\$	-		\$ -
30" Corrugated Steel Pipe		LF	\$ 122.00	=	\$	-		\$ -
36" Corrugated Steel Pipe		LF	\$ 147.00	=	\$	-		\$ -
42" Corrugated Steel Pipe		LF	\$ 168.00	=	\$	-		\$ -
48" Corrugated Steel Pipe		LF	\$ 178.00	=	\$	-		\$ -
54" Corrugated Steel Pipe		LF	\$ 260.00	=	\$	-		\$ -
60" Corrugated Steel Pipe		LF	\$ 280.00	=	\$	-		\$ -
66" Corrugated Steel Pipe		LF	\$ 340.00	=	\$	-		\$ -
72" Corrugated Steel Pipe		LF	\$ 400.00	=	\$	-		\$ -
78" Corrugated Steel Pipe		LF	\$ 460.00	=	\$	-		\$ -
84" Corrugated Steel Pipe		LF	\$ 550.00	=	\$	-		\$ -
Flared End Section (FES) RCP Size = 18" <small>(unit cost = 6x pipe unit cost)</small>	1	EA	\$ 390.00	=	\$	390.00		\$ 390.00
Flared End Section (FES) CSP Size = <small>(unit cost = 6x pipe unit cost)</small>		EA		=	\$	-		\$ -
End Treatment- Headwall		EA		=	\$	-		\$ -
End Treatment- Wingwall		EA		=	\$	-		\$ -
End Treatment - Cutoff Wall		EA		=	\$	-		\$ -
Curb Inlet (Type R) L=5', Depth < 5'	1	EA	\$ 5,542.00	=	\$	5,542.00		\$ 5,542.00
Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'		EA	\$ 7,188.00	=	\$	-		\$ -
Curb Inlet (Type R) L =5', 10' ≤ Depth < 15'		EA	\$ 8,345.00	=	\$	-		\$ -
Curb Inlet (Type R) L =10', Depth < 5'		EA	\$ 7,627.00	=	\$	-		\$ -
Curb Inlet (Type R) L =10', 5' ≤ Depth < 10'		EA	\$ 7,861.00	=	\$	-		\$ -
Curb Inlet (Type R) L =10', 10' ≤ Depth < 15'		EA	\$ 9,841.00	=	\$	-		\$ -
Curb Inlet (Type R) L =15', Depth < 5'		EA	\$ 9,918.00	=	\$	-		\$ -
Curb Inlet (Type R) L =15', 5' ≤ Depth < 10'		EA	\$ 10,633.00	=	\$	-		\$ -
Curb Inlet (Type R) L =15', 10' ≤ Depth < 15'		EA	\$ 11,627.00	=	\$	-		\$ -
Curb Inlet (Type R) L =20', Depth < 5'		EA	\$ 10,570.00	=	\$	-		\$ -
Curb Inlet (Type R) L =20', 5' ≤ Depth < 10'		EA	\$ 11,667.00	=	\$	-		\$ -
Grated Inlet (Type C), Depth < 5'		EA	\$ 4,640.00	=	\$	-		\$ -
Grated Inlet (Type D), Depth < 5'		EA	\$ 5,731.00	=	\$	-		\$ -
Storm Sewer Manhole, Box Base	2	EA	\$ 11,627.00	=	\$	23,254.00		\$ 23,254.00
Storm Sewer Manhole, Slab Base		EA	\$ 6,395.00	=	\$	-		\$ -
Geotextile (Erosion Control)		SY	\$ 6.00	=	\$	-		\$ -
Rip Rap, d50 size from 6" to 24"		Tons	\$ 80.00	=	\$	-		\$ -
Rip Rap, Grouted		Tons	\$ 95.00	=	\$	-		\$ -
Drainage Channel Construction, Size (W x H)		LF		=	\$	-		\$ -
Drainage Channel Lining, Concrete	5.96	CY	\$ 570.00	=	\$	3,397.20		\$ 3,397.20
Drainage Channel Lining, Rip Rap	9.70	CY	\$ 112.00	=	\$	1,086.40		\$ 1,086.40
Drainage Channel Lining, Grass		AC	\$ 1,469.00	=	\$	-		\$ -
Drainage Channel Lining, Other Stabilization				=	\$	-		\$ -
[insert items not listed but part of construction plans]				=	\$	-		\$ -
Section 2 Subtotal						\$ 72,019.60		\$ 72,019.60

Please relocate the storm drain improvements to section 3 as these improvements are not public.

PROJECT INFORMATION		
Legacy Church	9/17/2019	PPR1933
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"		LF	\$ 64.00	= \$	-	\$ -
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 75.00	= \$	-	\$ -
Gate Valves, 8"		EA	\$ 1,858.00	= \$	-	\$ -
Fire Hydrant Assembly, w/ all valves		EA	\$ 6,597.00	= \$	-	\$ -
Water Service Line Installation, inc. tap and valves		EA	\$ 1,324.00	= \$	-	\$ -
Fire Cistern Installation, complete		EA		= \$	-	\$ -
[insert items not listed but part of construction plans]				= \$	-	\$ -
SANITARY SEWER IMPROVEMENTS						
Sewer Main Pipe (PVC), Size 8"		LF	\$ 64.00	= \$	-	\$ -
Sanitary Sewer Manhole, Depth < 15 feet		EA	\$ 4,386.00	= \$	-	\$ -
Sanitary Service Line Installation, complete		EA	\$ 1,402.00	= \$	-	\$ -
Sanitary Sewer Lift Station, complete		EA		= \$	-	\$ -
[insert items not listed but part of construction plans]				= \$	-	\$ -
LANDSCAPING IMPROVEMENTS (For subdivision specific condition of approval, or PUD)						
		EA		= \$	-	\$ -
		EA		= \$	-	\$ -
		EA		= \$	-	\$ -
		EA		= \$	-	\$ -
		EA		= \$	-	\$ -
Section 3 Subtotal				= \$	-	\$ -

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



Please locate the proposed storm drain improvements here.

PROJECT INFORMATION		
Legacy Church	9/17/2019	PPR1933
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		= \$ -		\$ -
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS		= \$ -		\$ -
Total Construction Financial Assurance						\$ 103,321.15
(Sum of all section subtotals plus as-builts and pond/BMP certification)						
Total Remaining Construction Financial Assurance (with Pre-Plat Construction)						\$ 103,321.15
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)						
Total Defect Warranty Financial Assurance						\$ 16,084.52
(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)

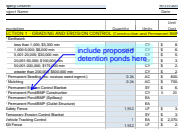
Approved by Owner / Applicant Date

Approved by El Paso County Engineer / ECM Administrator Date

Please include these items.

Financial Assurance_v2_redlines.pdf Markup Summary

Callout (4)



Item	Value
...	...
...	...
...	...

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Page Label: 1
Author: Daniel Torres
Date: 10/7/2019 1:47:07 PM
Status:
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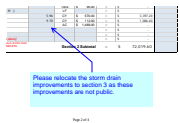
include proposed detention ponds here



Item	Value
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...	...
...	...

Subject: Callout
Page Label: 3
Author: Daniel Torres
Date: 10/7/2019 1:55:04 PM
Status:
Color: ■
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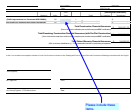
Please locate the proposed storm drain improvements here.



Item	Value
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...	...

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Page Label: 2
Author: Daniel Torres
Date: 10/7/2019 1:56:03 PM
Status:
Color: ■
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Please relocate the storm drain improvements to section 3 as these improvements are not public.

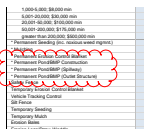


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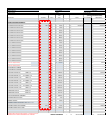
Please include these items.

Cloud (2)



Item	Value
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...	...
...	...

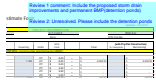
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Author: Daniel Torres
Date: 10/7/2019 1:46:58 PM
Status:
Color: ■
Layer:
Space:



Item	Value
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...	...
...	...

Subject: Cloud
Page Label: 2
Author: Daniel Torres
Date: 10/7/2019 1:48:05 PM
Status:
Color: ■
Layer:
Space:

Text Box (1)



Subject: Text Box
Page Label: 1
Author: Daniel Torres
Date: 10/7/2019 1:55:48 PM
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Color: ■
Layer:
Space:

Review 1 comment: Include the proposed storm drain improvements and permanent BMP(detention ponds)

Review 2: Unresolved. Please include the detention ponds