

# 2023 Financial Assurance Estimate F (with pre-plat construction)

UPDATED  
AS NEEDED  
PER CD  
COMMENTS  
AND GEC  
COMMENTS

please update as needed per comments  
on the CD's

GALLOWAY  
RESPONSE

Updated: 10/2023

PROJECT INFORMATION		
Meridian Storage	10/20/2023	VR239 & PPR2336
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	28024	CY	\$ 3.50	=	\$ 100,000.00		\$ 100,000.00	
50,001-200,000; \$175,000 min		CY	\$ 2.50	=	\$ -		\$ -	
greater than 200,000; \$500,000 min		CY	\$ 2.00	=	\$ -		\$ -	
Permanent Erosion Control Blanket		SY	\$ 8.00	=	\$ -		\$ -	
Permanent Seeding (inc. noxious weed mgmnt.) & Mulching	1.8	AC	\$ 1,875.00	=	\$ 3,375.00		\$ 3,375.00	
Permanent Pond/BMP (Itemized in Final Drainage Report)	1	EA	\$ 89,465.00	=	\$ 89,465.00		\$ 89,465.00	
Concrete Washout Basin	2	EA	\$ 1,089.00	=	\$ 2,178.00		\$ 2,178.00	
Inlet Protection	9	EA	\$ 202.00	=	\$ 1,818.00		\$ 1,818.00	
Rock Check Dam	2	EA	\$ 605.00	=	\$ 1,210.00		\$ 1,210.00	
Safety Fence	1950	LF	\$ 3.00	=	\$ 5,850.00		\$ 5,850.00	
Sediment Basin	1	EA	\$ 2,132.00	=	\$ 2,132.00		\$ 2,132.00	
Sediment Trap		EA	\$ 500.00	=	\$ -		\$ -	
Silt Fence	590	LF	\$ 3.00	=	\$ 1,770.00		\$ 1,770.00	
Slope Drain	32	LF	\$ 40.00	=	\$ 1,280.00		\$ 1,280.00	
Straw Bale		EA	\$ 31.00	=	\$ -		\$ -	
Straw Wattle/Rock Sock	200	LF	\$ 7.00	=	\$ 1,400.00		\$ 1,400.00	
Surface Roughening		AC	\$ 250.00	=	\$ -		\$ -	
Temporary Erosion Control Blanket		SY	\$ 3.00	=	\$ -		\$ -	
Temporary Seeding and Mulching	1.8	AC	\$ 1,666.00	=	\$ 2,998.80		\$ 2,998.80	
Vehicle Tracking Control	2	EA	\$ 2,867.00	=	\$ 5,734.00		\$ 5,734.00	
Curb Rock Sock	18	EA	\$ 50.00	=	\$ 900.00		\$ 900.00	
SR4 Detention Pond (Itemized in Final Drainage Report)	1	LS	\$ 12,935.00	=	\$ 12,935.00		\$ 12,935.00	
Reinforced Check Dam	4	EA	\$ 1,250.00	=	\$ 5,000.00		\$ 5,000.00	
Culvert Inlet Protection	1	EA	\$ 350.00	=	\$ 350.00		\$ 350.00	
[insert items not listed but part of construction plans]				=	\$ -		\$ -	
<b>MAINTENANCE (35% of Construction BMPs)</b>					=	\$ 15,182.23		\$ 15,182.23
<b>Section 1 Subtotal</b>					=	<b>\$ 253,578.03</b>		<b>\$ 253,578.03</b>
* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)								
<b>SECTION 2 - PUBLIC IMPROVEMENTS *</b>								
<b>ROADWAY IMPROVEMENTS</b>								
Construction Traffic Control	1	LS	\$ 10,000.00	=	\$ 10,000.00		\$ 10,000.00	
Aggregate Base Course (135 lbs/cf)		Tons	\$ 34.00	=	\$ -		\$ -	
Aggregate Base Course (135 lbs/cf)	1555	CY	\$ 61.00	=	\$ 94,855.00		\$ 94,855.00	
Asphalt Pavement (3" thick)		SY	\$ 17.00	=	\$ -		\$ -	
Asphalt Pavement (4" thick)	4666	SY	\$ 23.00	=	\$ 107,318.00		\$ 107,318.00	
Asphalt Pavement (6" thick)		SY	\$ 35.00	=	\$ -		\$ -	
Asphalt Pavement (147 lbs/cf) ___" thick		Tons	\$ 106.00	=	\$ -		\$ -	
Raised Median, Paved		SF	\$ 10.00	=	\$ -		\$ -	
Regulatory Sign/Advisory Sign	3	EA	\$ 364.00	=	\$ 1,092.00		\$ 1,092.00	
Guide/Street Name Sign	1	EA	\$ 364.00	=	\$ 364.00		\$ 364.00	
Epoxy Pavement Marking		SF	\$ 16.00	=	\$ -		\$ -	
Thermoplastic Pavement Marking		SF	\$ 28.00	=	\$ -		\$ -	
Barricade - Type 3	1	EA	\$ 241.00	=	\$ 241.00		\$ 241.00	
Delineator - Type I		EA	\$ 29.00	=	\$ -		\$ -	
Curb and Gutter, Type A (6" Vertical)	1984	LF	\$ 35.00	=	\$ 69,440.00		\$ 69,440.00	
Curb and Gutter, Type B (Median)	303	LF	\$ 35.00	=	\$ 10,605.00		\$ 10,605.00	
Curb and Gutter, Type C (Ramp)	15	LF	\$ 35.00	=	\$ 525.00		\$ 525.00	
4" Sidewalk (common areas only)		SY	\$ 58.00	=	\$ -		\$ -	
5" Sidewalk	1108	SY	\$ 72.00	=	\$ 79,776.00		\$ 79,776.00	
6" Sidewalk		SY	\$ 87.00	=	\$ -		\$ -	
8" Sidewalk		SY	\$ 116.00	=	\$ -		\$ -	
Pedestrian Ramp	14	EA	\$ 1,390.00	=	\$ 19,460.00		\$ 19,460.00	
Cross Pan, local (8" thick, 6' wide to include return)	292	LF	\$ 73.00	=	\$ 21,316.00		\$ 21,316.00	
Cross Pan, collector (9" thick, 8' wide to include return)		LF	\$ 111.00	=	\$ -		\$ -	
Curb Opening with Drainage Chase		EA	\$ 1,790.00	=	\$ -		\$ -	
Guardrail Type 3 (W-Beam)		LF	\$ 60.00	=	\$ -		\$ -	
Guardrail Type 7 (Concrete)		LF	\$ 87.00	=	\$ -		\$ -	
Guardrail End Anchorage		EA	\$ 2,538.00	=	\$ -		\$ -	
Guardrail Impact Attenuator		EA	\$ 4,556.00	=	\$ -		\$ -	
Sound Barrier Fence (CMU block, 6' high)		LF	\$ 95.00	=	\$ -		\$ -	
Sound Barrier Fence (panels, 6' high)		LF	\$ 97.00	=	\$ -		\$ -	
Electrical Conduit, Size =		LF	\$ 20.00	=	\$ -		\$ -	
Traffic Signal, (provide engineer's estimate)		EA		=	\$ -		\$ -	
[insert items not listed but part of construction plans]				=	\$ -		\$ -	

**PROJECT INFORMATION**

Meridian Storage

10/20/2023

VR239 & PPR2336

Project Name

Date

PCD File No.

Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)	
						% Complete	Remaining
<b>STORM DRAIN IMPROVEMENTS</b>							
Concrete Box Culvert (M Standard), Size ( W x H )		LF		=	\$ -		\$ -
18" Reinforced Concrete Pipe	123	LF	\$ 76.00	=	\$ 9,348.00		\$ 9,348.00
24" Reinforced Concrete Pipe	8	LF	\$ 91.00	=	\$ 728.00		\$ 728.00
30" Reinforced Concrete Pipe		LF	\$ 114.00	=	\$ -		\$ -
36" Reinforced Concrete Pipe	47	LF	\$ 140.00	=	\$ 6,580.00		\$ 6,580.00
42" Reinforced Concrete Pipe		LF	\$ 187.00	=	\$ -		\$ -
48" Reinforced Concrete Pipe		LF	\$ 228.00	=	\$ -		\$ -
54" Reinforced Concrete Pipe		LF	\$ 297.00	=	\$ -		\$ -
60" Reinforced Concrete Pipe		LF	\$ 348.00	=	\$ -		\$ -
66" Reinforced Concrete Pipe		LF	\$ 402.00	=	\$ -		\$ -
72" Reinforced Concrete Pipe		LF	\$ 460.00	=	\$ -		\$ -
18" Corrugated Steel Pipe		LF	\$ 98.00	=	\$ -		\$ -
24" Corrugated Steel Pipe		LF	\$ 112.00	=	\$ -		\$ -
30" Corrugated Steel Pipe		LF	\$ 143.00	=	\$ -		\$ -
36" Corrugated Steel Pipe		LF	\$ 171.00	=	\$ -		\$ -
42" Corrugated Steel Pipe		LF	\$ 197.00	=	\$ -		\$ -
48" Corrugated Steel Pipe		LF	\$ 207.00	=	\$ -		\$ -
54" Corrugated Steel Pipe		LF	\$ 304.00	=	\$ -		\$ -
60" Corrugated Steel Pipe		LF	\$ 328.00	=	\$ -		\$ -
66" Corrugated Steel Pipe		LF	\$ 397.00	=	\$ -		\$ -
72" Corrugated Steel Pipe		LF	\$ 467.00	=	\$ -		\$ -
78" Corrugated Steel Pipe		LF	\$ 537.00	=	\$ -		\$ -
84" Corrugated Steel Pipe		LF	\$ 642.00	=	\$ -		\$ -
Flared End Section (FES) RCP Size = 18 <i>(unit cost = 6x pipe unit cost)</i>	1	EA	\$ 456.00	=	\$ 456.00		\$ 456.00
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	\$ 6,703.00	=	\$ -		\$ -
Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'	2	EA	\$ 8,715.00	=	\$ 17,430.00		\$ 17,430.00
Curb Inlet (Type R) L=5', 10' ≤ Depth < 15'		EA	\$ 10,092.00	=	\$ -		\$ -
Curb Inlet (Type R) L=10', Depth < 5'		EA	\$ 9,224.00	=	\$ -		\$ -
Curb Inlet (Type R) L=10', 5' ≤ Depth < 10'	2	EA	\$ 9,507.00	=	\$ 19,014.00		\$ 19,014.00
Curb Inlet (Type R) L=10', 10' ≤ Depth < 15'		EA	\$ 11,901.00	=	\$ -		\$ -
Curb Inlet (Type R) L=15', Depth < 5'		EA	\$ 11,995.00	=	\$ -		\$ -
Curb Inlet (Type R) L=15', 5' ≤ Depth < 10'		EA	\$ 12,858.00	=	\$ -		\$ -
Curb Inlet (Type R) L=15', 10' ≤ Depth < 15'		EA	\$ 14,061.00	=	\$ -		\$ -
Curb Inlet (Type R) L=20', Depth < 5'		EA	\$ 12,783.00	=	\$ -		\$ -
Curb Inlet (Type R) L=20', 5' ≤ Depth < 10'		EA	\$ 14,109.00	=	\$ -		\$ -
Grated Inlet (Type C), Depth < 5'		EA	\$ 5,611.00	=	\$ -		\$ -
Grated Inlet (Type D), Depth < 5'		EA	\$ 6,931.00	=	\$ -		\$ -
Storm Sewer Manhole, Box Base	1	EA	\$ 14,061.00	=	\$ 14,061.00		\$ 14,061.00
Storm Sewer Manhole, Slab Base		EA	\$ 7,734.00	=	\$ -		\$ -
Geotextile (Erosion Control)		SY	\$ 8.00	=	\$ -		\$ -
Rip Rap, d50 size from 6" to 24"		Tons	\$ 97.00	=	\$ -		\$ -
Rip Rap, Grouted		Tons	\$ 115.00	=	\$ -		\$ -
Drainage Channel Construction, Size ( W x H )		LF	\$ -	=	\$ -		\$ -
Drainage Channel Lining, Concrete		CY	\$ 689.00	=	\$ -		\$ -
Drainage Channel Lining, Rip Rap		CY	\$ 135.00	=	\$ -		\$ -
Drainage Channel Lining, Grass		AC	\$ 1,776.00	=	\$ -		\$ -
Drainage Channel Lining, Other Stabilization				=	\$ -		\$ -
15" Reinforced Concrete Pipe	49	LF	\$ 55.00	=	\$ 2,695.00		\$ 2,695.00
Drainage Channel (Itemized in Final Drainage Report)	1	LS	\$ 231,836.00	=	\$ 231,836.00		\$ 231,836.00
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -
<b>Section 2 Subtotal</b>					<b>=</b>	<b>\$ 717,140.00</b>	<b>\$ 717,140.00</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>Meridian Storage</b>	<b>10/20/2023</b>	<b>VR239 &amp; PPR2336</b>
<b>Project Name</b>		<b>PCD File No.</b>

private, site specific parking/drive aisle areas do not have to be included. Please remove

REMOVED AS REQUESTED

Description	Units	Unit Cost	Total	(with Pre-Plat Construction)	
				% Complete	Remaining
<b>SECTION 3 - COMMON DEVELOPMENT (Private or District and NOT Maintained by EPC)**</b>					
<b>ROADWAY IMPROVEMENTS</b>					
Asphalt Pavement (4" thick)	6209	SY \$ 23.00	= \$ 142,807.00		\$ 142,807.00
Aggregate Base Course (135 lbs/cf)	2069	CY \$ 61.00	= \$ 126,209.00		\$ 126,209.00
CDOT Class 6 Gravel	130000	SF \$ 1.25	= \$ 162,500.00		\$ 162,500.00
			= \$ -		\$ -
			= \$ -		\$ -
			= \$ -		\$ -
<b>STORM DRAIN IMPROVEMENTS (Exception: Permanent Pond/BMP shall be itemized under Section 1)</b>					
15" Reinforced Concrete Pipe	40	LF \$ 55.00	= \$ 2,200.00		\$ 2,200.00
18" Reinforced Concrete Pipe	1,025	LF \$ 76.00	= \$ 77,900.00		\$ 77,900.00
24" Reinforced Concrete Pipe	117	LF \$ 91.00	= \$ 10,647.00		\$ 10,647.00
36" Reinforced Concrete Pipe	39	LF \$ 140.00	= \$ 5,460.00		\$ 5,460.00
Area Inlet (CDOT Type 13-Triple)	2	EA \$ 14,105.00	= \$ 28,210.00		\$ 28,210.00
Area Inlet (CDOT Type C)	1	EA \$ 4,500.00	= \$ 4,500.00		\$ 4,500.00
Storm Sewer Manhole, Box Base	1	EA \$ 14,061.00	= \$ 14,061.00		\$ 14,061.00
			= \$ -		\$ -
<b>WATER SYSTEM IMPROVEMENTS</b>					
Water Main Pipe (PVC), Size 8"	794	LF \$ 78.00	= \$ 61,932.00		\$ 61,932.00
Water Main Pipe (Ductile Iron), Size 8"		LF \$ 91.00	= \$ -		\$ -
Gate Valves, 8"	5	EA \$ 2,247.00	= \$ 11,235.00		\$ 11,235.00
Fire Hydrant Assembly, w/ all valves	2	EA \$ 7,978.00	= \$ 15,956.00		\$ 15,956.00
Water Service Line Installation, inc. tap and valves		EA \$ 1,601.00	= \$ -		\$ -
Fire Cistern Installation, complete		EA	= \$ -		\$ -
Water Service Line Installation, inc. tap and valves	128	LF \$ 75.00	= \$ 9,600.00		\$ 9,600.00
<i>[insert items not listed but part of construction plans]</i>			= \$ -		\$ -
<b>SANITARY SEWER IMPROVEMENTS</b>					
Sewer Main Pipe (PVC), Size 8"	438	LF \$ 78.00	= \$ 34,164.00		\$ 34,164.00
Sanitary Sewer Manhole, Depth < 15 feet	4	EA \$ 5,305.00	= \$ 21,220.00		\$ 21,220.00
Sanitary Service Line Installation, complete		EA \$ 1,696.00	= \$ -		\$ -
Sanitary Sewer Lift Station, complete		EA	= \$ -		\$ -
Sanitary Service Line Installation, inc. tap and cleanouts	137	LF \$ 55.00	= \$ 7,535.00		\$ 7,535.00
Sewer Main Pipe (PVC), Size 12"	560	LF \$ 92.00	= \$ 51,520.00		\$ 51,520.00
<i>[insert items not listed but part of construction plans]</i>			= \$ -		\$ -
<b>LANDSCAPING IMPROVEMENTS (For subdivision specific condition of approval, or PUD)</b>					
Landscaping Improvements	1	LS \$ 45,000.00	= \$ 45,000.00		\$ 45,000.00
		EA	= \$ -		\$ -
		EA	= \$ -		\$ -
		EA	= \$ -		\$ -
		EA	= \$ -		\$ -
			= \$ -		\$ -
<b>Section 3 Subtotal</b>			<b>= \$ 832,656.00</b>		<b>\$ 832,656.00</b>

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

**PROJECT INFORMATION**

<b>Meridian Storage</b>	<b>10/20/2023</b>	<b>VR239 &amp; PPR2336</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)			\$ 12,500.00	= \$ 12,500.00		\$ 12,500.00
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS	\$ 4,500.00	= \$ 4,500.00		\$ 4,500.00
<b>Total Construction Financial Assurance</b>						<b>\$ 1,820,374.03</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>\$ 1,820,374.03</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>\$ 181,996.00</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.

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Engineer (P.E. Seal Required)

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Approved by Owner / Applicant Date

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Approved by El Paso County Engineer / ECM Administrator Date