# 2015 Financial Assurance Estimate Form (with pre-plat construction)

8/6/2015

Add PCD File No. PPR1841

| Project Information | |
|---|---|
| **WHMD Lift Station #1 Replaement** | **11/19/2018** |
| Project Name | Date |

| Section 1 - Grading and Erosion Control BMPs | Quantity | Units | | Price | | | % Complete | Remaining | |
|---|---|---|---|---|---|---|---|---|---|
| Earthwork* | 2,218.00 | CY | @ | $ $5 | = | $ 11,090.00 | | $ 11,090.00 | * |
| Permanent Seeding* (inc. noxious weed mgmnt.) | 0.21 | AC | @ | $ $582 | = | $ 122.22 | | $ 122.22 | * |
| Mulching* | 0.21 | AC | @ | $ $507 | = | $ 106.47 | | $ 106.47 | * |
| Permanent Erosion Control Blanket* | | SY | @ | $ $6 | = | $ | | $ - | * |
| Temporary Erosion Control Blanket | | SY | @ | $ $3 | | $ | | $ - | |
| Vehicle Tracking Control | 1.00 | EA | @ | $ $1,625 | = | $ 1,625.00 | | $ 1,625.00 | |
| Safety Fence | | LF | @ | $ $3 | = | $ | | $ - | |
| Silt Fence | 865.00 | LF | @ | $ $4 | = | $ 3,460.00 | | $ 3,460.00 | |
| Temporary Seeding | | AC | @ | $ $485 | = | $ | | $ - | |
| Temporary Mulch | | AC | @ | $ $507 | = | $ | | $ - | |
| Erosion Bales | | EA | @ | $ $21 | = | $ | | $ - | |
| Erosion Logs | | LF | @ | $ $6 | = | $ | | $ - | |
| Rock Ditch Checks | | EA | @ | $ | = | $ | | $ - | |
| Inlet Protection | | EA | @ | $ $153 | = | $ | | $ - | |
| Sediment Basin | | EA | @ | $ $1,625 | = | $ | | $ - | |
| Concrete Washout Basin | 1.00 | EA | @ | $ $776 | = | $ 776.00 | | $ 776.00 | |
| | | | @ | $ | = | $ | | $ - | |
| * Subject to defect warranty financial assurance. DO NOT ENTER MORE THAN 80% COMPLETE. A minimum of 20% to be retained up to preliminary acceptance process. | | | | | = | $ 17,179.69 | | $ 17,179.69 | |
| | | | | Section 1 Subtotal | | | | | |

Please revise "preliminary" to "final"

| Section 2 - Public Improvements** | Quantity | Units | | Price | | | % Complete | Remaining | |
|---|---|---|---|---|---|---|---|---|---|
| **- Roadway Improvements** | | | | | | | | | |
| Construction Traffic Control | 1.00 | LS | @ | $ 10,000 | = | $ 10,000.00 | | $ 10,000.00 | * |
| Aggregate Base Course | 77.00 | Tons | @ | $ $18 | = | $ 1,386.00 | | $ 1,386.00 | * |
| Asphalt Pavement | | Tons | @ | $ $65 | = | $ | | $ - | * |
| Raised Median, Paved | | SF | @ | $ $7 | = | $ | | $ - | * |
| Electrical Conduit, Size = | | LF | @ | $ $14 | = | $ | | $ - | * |
| Traffic Signal, complete intersection | | EA | @ | $ $250,000 | = | $ | | $ - | * |
| Regulatory Sign | | EA | @ | $ $100 | = | $ | | $ - | * |
| Advisory Sign | | EA | @ | $ $100 | = | $ | | $ - | * |
| Guide/Street Name Sign | | EA | @ | $ | | $ | | $ - | * |
| Epoxy Pavement Marking | | SF | @ | $ $12 | = | $ | | $ - | * |
| Thermoplastic Pavement Marking | | SF | @ | $ $22 | = | $ | | $ - | * |
| Barricade - Type 3 | | EA | @ | $ $115 | = | $ | | $ - | * |
| Delineator (Type I) | | EA | @ | $ $21 | = | $ | | $ - | * |
| Curb and Gutter, Type C (Ramp) | | LF | @ | $ $21 | = | $ | | $ - | * |
| Curb and Gutter, Type A (6" Vertical) | | LF | @ | $ $16 | = | $ | | $ - | * |
| Curb and Gutter, Type B (Median) | | LF | @ | $ $13 | = | $ | | $ - | * |
| Pedestrian Ramp | | SY | @ | $ $108 | = | $ | | $ - | * |

The GEC does not indicate any public roadway improvements where aggregate base course would be utilized. Please clarify.

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Cross Pan | | SY | @ | $ | $53 | = | $ | | $ - | * |
| Curb Chase | | EA | @ | $ | $1,300 | = | $ | | $ - | * |
| Guardrail Type 3 (W-Beam) | | LF | @ | $ | $18 | = | $ | | $ - | * |
| Guardrail Type 7 (Concrete) | | LF | @ | $ | $67 | = | $ | | $ - | * |
| Guardrail End Anchorage | | EA | @ | $ | $1,978 | = | $ | | $ - | * |
| Guardrail Impact Attenuator | | EA | @ | $ | $3,564 | = | $ | | $ - | * |
| Sound Barrier Fence | | LF | @ | $ | $100 | = | $ | | $ - | * |
| | | | | | | | | | | |
| **- Storm Drain Improvements** | | | | | | | | | | |
| Concrete Box Culvert (M Standard), Size ( W x H ) | | LF | @ | $ | | = | $ | | $ - | * |
| Reinforced Concrete Pipe (RCP) Size | | LF | @ | $ | | = | $ | | $ - | * |
| 18" Reinforced Concrete Pipe | | LF | @ | $ | $69 | = | $ | | $ - | * |
| 24" Reinforced Concrete Pipe | | LF | @ | $ | $84 | = | $ | | $ - | * |
| 30" Reinforced Concrete Pipe | | LF | @ | $ | $94 | = | $ | | $ - | * |
| 36" Reinforced Concrete Pipe | | LF | @ | $ | $124 | = | $ | | $ - | * |
| 42" Reinforced Concrete Pipe | | LF | @ | $ | $134 | = | $ | | $ - | * |
| 48" Reinforced Concrete Pipe | | LF | @ | $ | $178 | = | $ | | $ - | * |
| 54" Reinforced Concrete Pipe | | LF | @ | $ | $182 | = | $ | | $ - | * |
| 60" Reinforced Concrete Pipe | | LF | @ | $ | $216 | = | $ | | $ - | * |
| 66" Reinforced Concrete Pipe | | LF | @ | $ | $263 | = | $ | | $ - | * |
| 72" Reinforced Concrete Pipe | | LF | @ | $ | $283 | = | $ | | $ - | * |
| Corrugated Steel Pipe (CSP) Size | | LF | @ | $ | | = | $ | | $ - | * |
| 18" Corrugated Steel Pipe | | LF | @ | $ | $66 | = | $ | | $ - | * |
| 24" Corrugated Steel Pipe | | LF | @ | $ | $96 | = | $ | | $ - | * |
| 30" Corrugated Steel Pipe | | LF | @ | $ | $101 | = | $ | | $ - | * |
| 36" Corrugated Steel Pipe | | LF | @ | $ | $136 | = | $ | | $ - | * |
| 42" Corrugated Steel Pipe | | LF | @ | $ | $147 | = | $ | | $ - | * |
| 48" Corrugated Steel Pipe | | LF | @ | $ | $169 | = | $ | | $ - | * |
| 54" Corrugated Steel Pipe | | LF | @ | $ | $193 | = | $ | | $ - | * |
| 60" Corrugated Steel Pipe | | LF | @ | $ | $227 | = | $ | | $ - | * |
| 66" Corrugated Steel Pipe | | LF | @ | $ | $278 | = | $ | | $ - | * |
| 72" Corrugated Steel Pipe | | LF | @ | $ | $330 | = | $ | | $ - | * |
| 78" Corrugated Steel Pipe | | LF | @ | $ | $381 | = | $ | | $ - | * |
| 84" Corrugated Steel Pipe | | LF | @ | $ | $432 | = | $ | | $ - | * |
| Flared End Section (FES) RCP ┼ | | EA | @ | $ | | = | $ | | $ - | * |
| Flared End Section (FES) CSP ┼ | | EA | @ | $ | | = | $ | | $ - | * |
| End Treatment- Headwall | | EA | @ | $ | | = | $ | | $ - | * |
| End Treatment- Wingwall | | EA | @ | $ | | = | $ | | $ - | * |
| End Treatment - Cutoff Wall | | EA | @ | $ | | = | $ | | $ - | * |
| Curb Inlet (Type R) L=5', Depth < 5 feet | | EA | @ | $ | $3,791 | = | $ | | $ - | * |
| Curb Inlet (Type R) L=5', 5'-10' Depth | | EA | @ | $ | $5,044 | | $ | | $ - | * |
| Curb Inlet (Type R) L =5' , 10'-15' Depth | | EA | @ | $ | $6,027 | = | $ | | $ - | * |
| Curb Inlet (Type R) L =10', Depth < 5 feet | | EA | @ | $ | $5,528 | = | $ | | $ - | * |
| Curb Inlet (Type R) L =10' , 5'-10' Depth | | EA | @ | $ | $6,694 | = | $ | | $ - | * |
| Curb Inlet (Type R) L =10' , 10'-15' Depth | | EA | @ | $ | $7,500 | = | $ | | $ - | * |
| Curb Inlet (Type R) L =15' , Depth < 5 feet | | EA | @ | $ | $7,923 | = | $ | | $ - | * |
| Curb Inlet (Type R) L =15' , 5'-10' Depth | | EA | @ | $ | $8,000 | = | $ | | $ - | * |
| Curb Inlet (Type R) L =15' , 10'-15' Depth | | EA | @ | $ | $8,800 | = | $ | | $ - | * |
| Curb Inlet (Type R) L =20' , Depth < 5 feet | | EA | @ | $ | $8,000 | = | $ | | $ - | * |
| Curb Inlet (Type R) L =20' , 5'-10' Depth | | EA | @ | $ | $8,830 | = | $ | | $ - | * |
| Curb Inlet (Type R) L =_____', __' - __' Depth | | EA | @ | $ | | = | $ | | $ - | * |
| Curb Inlet (Type R) L =_____', __' - __' Depth | | EA | @ | $ | | = | $ | | $ - | * |
| Grated Inlet (Type C), < 5' deep | | EA | @ | $ | $3,270 | = | $ | | $ - | * |
| Grated Inlet (Type D), < 5' deep | | EA | @ | $ | $3,908 | = | $ | | $ - | * |
| Storm Sewer Manhole, Box Base, Depth < 15 feet | | EA | @ | $ | $8,592 | = | $ | | $ - | * |
| Storm Sewer Manhole, Slab Base, Depth < 15 feet | | EA | @ | $ | $4,575 | = | $ | | $ - | * |
| Geotextile (Erosion Control) | | SY | @ | $ | $5 | = | $ | | $ - | * |
| Rip Rap, d50 Size from 6" to 24" | | CY | @ | $ | $98 | = | $ | | $ - | * |
| Rip Rap, Grouted | | CY | @ | $ | $215 | = | $ | | $ - | * |
| Drainage Channel Construction, Size ( W x H ) | | LF | @ | $ | | = | $ | | $ - | * |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel Lining, Concrete | | CY | @ | $ $450 | = | $ | | $ - | * |
| Channel Lining, Rip Rap | | CY | @ | $ $98 | = | $ | | $ - | * |
| Channel Lining, Grass | | AC | @ | $ $1,287 | = | $ | | $ - | * |
| Channel Lining, Other Stabilization | | SY | @ | $ $3 | = | $ | | $ - | * |
| Detention Outlet Structure | | EA | @ | $ | = | $ | | $ - | * |
| Detention Emergency Spillway | | EA | @ | $ | = | $ | | $ - | * |
| Permanent Water Quality Facility (Describe) | | EA | @ | $ | = | $ | | $ - | * |
| | | | | | | | | | |
| * Subject to defect warranty financial assurance. DO NOT ENTER MORE THAN 80% COMPLETE. A minimum of 20% to be retained up to preliminary acceptance process. ┼ For flared end sections, multiply pipe LF cost by 6 | | | | **Section 2 Subtotal** | = | $ 11,386.00 | Covered by Letter of Responsibility | 11,386.00 | ** |

Please revise "preliminary" to "final"

Provide private water quality facility (permeable pavers) in this location.

| Section 3 - Common Development Improvements (Private or District)*** | Quantity | Units | | Price | | | % Complete | Remaining |
|---|---|---|---|---|---|---|---|---|
| **- Roadway Improvements** | | | | | | | | |
| (Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County) | | | @ | $ | = | $ | | $ - |
| | | | @ | $ | = | $ | | $ - |
| | | | @ | $ | = | $ | | $ - |
| Concrete Sidewalk | | SY | @ | $ $38 | = | $ | | $ - |
| | | | @ | $ | = | $ | | $ - |
| | | | @ | $ | = | $ | | $ - |
| **- Storm Drain Improvements** | | | | | | | | |
| (Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County) | | | @ | $ | = | $ | | $ - |
| | | | @ | $ | = | $ | | $ - |
| | | | @ | $ | = | $ | | $ - |
| 18" Corrugated Steel Pipe | | | @ | $ 66 | = | $ | | $ - |
| | | | @ | $ | = | $ | | $ - |
| | | | @ | $ | = | $ | | $ - |
| **- Water System Improvements** | | | | | | | | |
| Water Main Pipe (PVC), Size 8" | | LF | @ | $ $94 | = | $ | | $ - |
| Water Main Pipe (Ductile Iron), Size 8" | | LF | @ | $ $137 | = | $ | | $ - |
| Gate Valves, 8" | | EA | @ | $ $1,852 | = | $ | | $ - |
| Fire Hydrant Assembly w/ all valves | | EA | @ | $ $6,430 | = | $ | | $ - |
| Water Service Line Installation, including tap and valves | | EA | @ | $ 1,253 | = | $ | | $ - |
| Fire Cistern Installation, complete | | EA | @ | $ | = | $ | | $ - |
| **- Sanitary Sewer Improvements** | | | | | | | | |
| Sewer Main Pipe (PVC), Size 8" | | LF | @ | $ $94 | = | $ | | $ - |
| Sanitary Sewer Manhole, Depth < 15 feet | | EA | @ | $ $4,575 | = | $ | | $ - |
| Sanitary Service Line Installation, complete | | EA | @ | $ 1,516 | = | $ | | $ - |
| Sanitary Sewer Lift Station, complete | | EA | @ | $ | = | $ | | $ - |
| **- Landscaping (If Applicable)** | | | | | | | | |
| (List landscaping line items and cost - usually only in case of subdivision specific condition of approval, or PUD) | | EA | @ | $ | = | $ | | $ - |
| | | EA | @ | $ | = | $ | | |
| | | EA | @ | $ | = | $ | | $ - |
| | | EA | @ | $ | = | $ | | $ - |
| | | EA | @ | $ | = | $ | | $ - |
| ***items in this section are not subject to defect warranty financial assurance | | | | **Section 3 Subtotal** | = | $ | | |

**Financial Assurance Totals**

| | | |
|---|---|---|
| As-built drawings - **(FILL IN IF THERE ARE ANY PUBLICLY-MAINTAINED IMPROVEMENTS)** | $ | |
| ( Inc. survey to verify detention pond volumes.) | **Total Construction Financial Assurance** | **$28,565.69** |
| | (Sum of all section subtotals) | |
| | **Total Remaining Construction Financial Assurance** | **28,565.69** |
| | (Sum of all section totals less credit for items complete) | |
| | **Total Defect Warranty Financial Assurance** | **$4,540.94** |
| | (20% of all items identified as public improvements(*). To be collateralized at time of preliminary acceptance) | |
| | *Per Direction by EPC as part of this project: Total Financial Assurance Less ROW Improvements (Section 2)* | **17,179.69** |

**Approvals**

I hereby certify that this is an accurate and complete estimate of costs for the work as shown on the approved Construction Drawings associated with the Project.

Ryan M. Mangino, PE — 11/19/2018

Engineer — Date

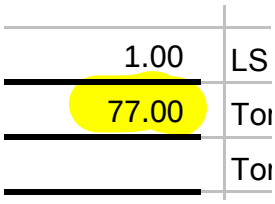
COLORADO LICENSED RYAN M. MANGINO 43304 PROFESSIONAL ENGINEER 11/19/18

Approved by Owner / Applicant — Date 11/19/18

Approved by El Paso County Engineer / ECM Administrator — Date

# Markup Summary

## Daniel Torres (8)

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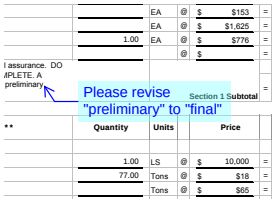


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Please revise "preliminary" to "final"

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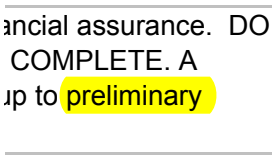


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preliminary

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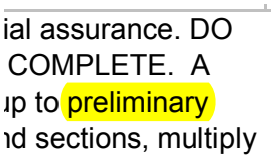


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preliminary

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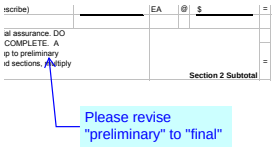


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Please revise "preliminary" to "final"

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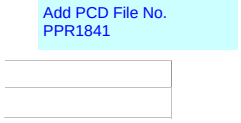


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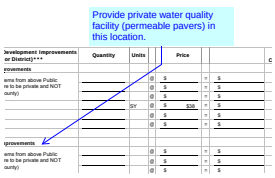


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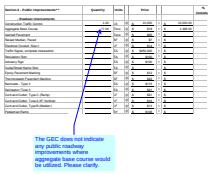
Provide private water quality facility (permeable pavers) in this location.

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The GEC does not indicate any public roadway improvements where aggregate base course would be utilized. Please clarify.