

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

8/6/2015

| | |
|---|-----------------|
| Project Information | |
| WHMD Regional Water Reclamation Facility | 8/7/2017 |
| Project Name | Date |

| Section 1 - Grading and Erosion Control BMPs | Quantity | Units | | Price | | % Complete | Remaining |
|--|-----------|-------|---|----------|---|---------------|-----------------|
| Earthwork* | 28,500.00 | CY | @ | \$ 5 | = | \$ 142,500.00 | \$ 142,500.00 * |
| Permanent Seeding* (inc. noxious weed mgmnt.) | 2.50 | AC | @ | \$ 582 | = | \$ 1,455.00 | \$ 1,455.00 * |
| Mulching* | 2.50 | AC | @ | \$ 507 | = | \$ 1,267.50 | \$ 1,267.50 * |
| 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 | 2,000.00 | LF | @ | \$ 4 | = | \$ 8,000.00 | \$ 8,000.00 |
| Temporary Seeding | | AC | @ | \$ 485 | = | \$ | \$ - |
| Temporary Mulch | | AC | @ | \$ 507 | = | \$ | \$ - |
| Erosion Bales | 9.00 | EA | @ | \$ 21 | = | \$ 189.00 | \$ 189.00 |
| Erosion Logs | 30.00 | LF | @ | \$ 6 | = | \$ 180.00 | \$ 180.00 |
| 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. | | | | | | | |
| Section 1 Subtotal | | | | | = | \$ 155,992.50 | \$ 155,992.50 |

| 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 | | Tons | @ | \$ 18 | = | \$ | \$ - * |
| Asphalt Pavement | 25.00 | Tons | @ | \$ 65 | = | \$ 1,625.00 | \$ 1,625.00 * |
| Raised Median, Paved | | SF | @ | \$ 7 | = | \$ | \$ - * |
| Electrical Conduit, Size = | | LF | @ | \$ 14 | = | \$ | \$ - * |
| Traffic Signal, complete intersection | | EA | @ | \$ 250,000 | = | \$ | \$ - * |
| Regulatory Sign | 3.00 | EA | @ | \$ 100 | = | \$ 300.00 | \$ 300.00 * |
| 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) | 50.00 | LF | @ | \$ 16 | = | \$ 800.00 | \$ 800.00 * |
| Curb and Gutter, Type B (Median) | | LF | @ | \$ 13 | = | \$ | \$ - * |
| Pedestrian Ramp | | SY | @ | \$ 108 | = | \$ | \$ - * |

| | | | | | | | | |
|---|-------|----|---|----------|---|-------------|-------------|---|
| Cross Pan | 20.00 | SY | @ | \$ 53 | = | \$ 1,060.00 | \$ 1,060.00 | * |
| 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 | 40.00 | LF | @ | \$ 66 | = | \$ 2,640.00 | \$ 2,640.00 | * |
| 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 | = | \$ | \$ - | * |

Move to Section 3.
This is a driveway
culvert which is
privately
maintained.

40.00

| | | | | | | | | | | | |
|--|--|----|---|----|---------------------------|---|----|-----------|----|-----------|----|
| 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 | | | | | | = | | 16,425.00 | | 16,425.00 | ** |
| | | | | | Section 2 Subtotal | | \$ | | | | |

| 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) | | | @ \$ | = \$ | | \$ - |
| | | | @ \$ | = \$ | | \$ - |
| | | | @ \$ | = \$ | | \$ - |
| | | | @ \$ | = \$ | | \$ - |
| | | | @ \$ | = \$ | | \$ - |
| | | | @ \$ | = \$ | | \$ - |
| - 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 <u>\$172,417.50</u> |
| | (Sum of all section subtotals) |
| | Total Remaining Construction Financial Assurance <u>172,417.50</u> |
| | (Sum of all section totals less credit for items complete) |
| | Total Defect Warranty Financial Assurance <u>\$32,329.50</u> |
| | (20% of all items identified as public improvements(*). 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 approved Construction Drawings associated with the Project.

Ryan Mangino, PE #43304
Engineer



08/07/2017
Date

Approved by Owner / Applicant

Date

Approved by El Paso County Engineer / ECM Administrator

Date