

2017 Financial Assurance Estimate Form

(Basic form)

CDR-18-009

| | |
|--|------------------|
| Project Information | |
| Meadowbrook Dirt Borrow Site CDR 18-009 | 11/2/2018 |
| Project Name _____ | Date _____ |

| Section 1 - Grading and Erosion Control BMPs | Quantity | Units | | Price | | |
|---|-----------|-------|---|----------|---|-----------------|
| Earthwork* | 36,446.00 | CY | @ | \$ 5 | = | \$ 182,230.00 * |
| Permanent Seeding* | | AC | @ | \$ 582 | = | \$ * |
| Mulching* | | AC | @ | \$ 507 | = | \$ * |
| Permanent Erosion Control Blanket * | | SY | @ | \$ 6 | = | \$ * |
| Temporary Erosion Control Blanket | | SY | @ | \$ 3 | = | \$ |
| Vehicle Tracking Control | 1.00 | EA | @ | \$ 1,625 | = | \$ 1,625.00 |
| Safety Fence | | LF | @ | \$ 3 | = | \$ |
| Silt Fence | | LF | @ | \$ 4 | = | \$ |
| Temporary Seeding | 30.00 | AC | @ | \$ 485 | = | \$ 14,550.00 |
| Temporary Mulch | 30.00 | AC | @ | \$ 507 | = | \$ 15,210.00 |
| Erosion Bales | 5.00 | EA | @ | \$ 21 | = | \$ 105.00 |
| Erosion Logs | | LF | @ | \$ 6 | = | \$ |
| Rock Ditch Checks | | EA | @ | \$ 98 | = | \$ |
| Inlet Protection | | EA | @ | \$ 153 | = | \$ |
| Sediment Basin | 2.00 | EA | @ | \$ 1,625 | = | \$ 3,250.00 |
| Concrete Washout Basin | | EA | @ | \$ 776 | = | \$ |
| | | | @ | \$ | = | \$ |
| pecified items subject to defect warranty financial assurance | | | | | | |
| Section 1 Subtotal | | | | | = | \$ 216,970.00 |

| Section 2 - Public Improvements** | Quantity | Units | | Price | | |
|---------------------------------------|----------|-------|---|------------|---|----|
| - Roadway Improvements | | | | | | |
| Construction Traffic Control | | LS | @ | \$ 25,000 | = | \$ |
| Aggregate Base Course - 8" | | Tons | @ | \$ 18 | = | \$ |
| Asphalt Pavement - 5" | | 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 | @ | \$ 200 | = | \$ |
| 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 | = | \$ |

| | | | | | | | |
|---|---|----|---|----|---------|---|----|
| Cross Pan | | SY | @ | \$ | \$53 | = | \$ |
| Sidewalks | | LF | @ | \$ | \$23 | = | \$ |
| 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 | @ | \$ | 1,800 | = | \$ |
| Flared End Section (FES) CSP | + | EA | @ | \$ | | = | \$ |
| End Treatment- Headwall | | EA | @ | \$ | 5,000 | = | \$ |
| End Treatment- Wingwall | | EA | @ | \$ | 9,000 | = | \$ |
| End Treatment - Cutoff Wall | | EA | @ | \$ | 500 | = | \$ |
| 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) Modified L =15', W =5' | | EA | | \$ | \$9,000 | | |
| 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 | @ | \$ 1,984,422 | = | \$ |
| Channel Lining, Concrete | | CY | @ | \$ 450 | = | \$ |
| Channel Lining, Rip Rap | | CY | @ | \$ 98 | = | \$ |
| Channel Lining, Grass | | AC | @ | \$ 1,287 | = | \$ |
| Channel Lining, Other Stabilization | | SY | @ | \$ 3 | = | \$ |

| | | | | | | |
|--|--|----|---|----|---|-------|
| Permanent Water Quality Facility (Describe) | | EA | @ | \$ | = | \$ |
| **all items this section subject to defect warranty financial assurance. + For flared end sections, multiply pipe LF cost by 6 | | | | | | |
| Section 2 Subtotal | | | | | = | \$ ** |

| Section 3 - Common Development Improvements (Private or District)*** | Quantity | Units | | Price | | |
|---|----------|-------|---|----------|---|-------------|
| - Roadway Improvements | | | | | | |
| (Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County) | | | @ | \$ | = | \$ |
| | | | @ | \$ | = | \$ |
| | | | @ | \$ | = | \$ |
| | | | @ | \$ | = | \$ |
| | | | @ | \$ | = | \$ |
| | | | @ | \$ | = | \$ |
| | | | @ | \$ | = | \$ |
| - Storm Drain Improvements | | | | | | |
| (Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County) | | | @ | \$ | = | \$ |
| | | | @ | \$ | = | \$ |
| | | | @ | \$ | = | \$ |
| Sediment(s) Basin Rip Rap | 27.00 | CY | @ | \$ 98 | = | \$ 2,646.00 |
| | | EA | @ | \$ | = | \$ |
| | | EA | @ | \$ | = | \$ |
| | | EA | @ | \$ | = | \$ |
| - Water System Improvements | | | | | | |
| Water Main Pipe (PVC), Size 8" | | LF | @ | \$ 94 | = | \$ |
| Water Main Pipe (PVC), Size 12" | | LF | @ | \$ 120 | = | \$ |
| Water Main Pipe (PVC), Size 16" | | LF | @ | \$ 135 | = | \$ |
| Water Main Pipe (Ductile Iron), Size 8" | | LF | @ | \$ 137 | = | \$ |
| Gate Valves, 8" | | EA | @ | \$ 1,852 | = | \$ |
| Gate Valves, 12" | | EA | @ | \$ 4,951 | = | \$ |
| Butterfly Valves, 16" | | EA | @ | \$ 6,448 | = | \$ |
| Fire Hydrant Assembly w/ all valves | | EA | @ | \$ 6,430 | = | \$ |
| Water Service Line Installation, inc. tap & valves | | EA | @ | \$ 1,253 | = | \$ |
| Fire Cistern Installation, complete | | EA | @ | \$ | = | \$ |
| - Sanitary Sewer Improvements | | | | | | |
| Sewer Main Pipe (PVC), Size 8" | | LF | @ | \$ 94 | = | \$ |
| Sewer Main Pipe (PVC), Size 12" | | LF | @ | \$ 120 | = | \$ |
| Sewer Main Pipe (PVC), Size 15" | | LF | @ | \$ 135 | = | \$ |
| 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 | @ | \$ | = | \$ |
| | | SF | @ | \$ | = | \$ |
| | | SY | @ | \$ | = | \$ |
| | | EA | @ | \$ | = | \$ |
| ***Items in this section are not subject to defect warranty financial assurance | | | | | | |
| Section 3 Subtotal | | | | | = | \$ 2,646.00 |

Financial Assurance Totals

| | | | |
|---|---|----|---------------|
| As-built drawings - (FILL IN IF THERE ARE ANY PUBLICLY-MAINTAINED IMPROVEMENTS) | | | \$ |
| (Inc. survey to verify detention pond volumes.) | Construction Financial Assurance Total | = | \$ 219,616.00 |
| | (Sum of all Section Totals) | | |
| | | | |
| | Public Improvements Total* ** | \$ | 182,230.00 |
| | Defect Warranty Financial Assurance Total | = | \$ 36,446.00 |
| | (20% of Section 2 Subtotal and 20% of identified Grading and Erosion BMP items) | | 218,676.00 |

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.

Engineer

Date

PE # 38923



Approved by Owner / Applicant

Approved

by Elizabeth Nijkamp
El Paso County Planning and Community Development
on behalf of Jennifer Irvine, County Engineer, ECM Administrator



11/07/2018 1:29:12 PM

Date

Approved by El Paso County Engineer / ECM Administrator

Date