

EPC STORMWATER REVIEW COMMENTS
IN ORANGE BOXES WITH BLACK TEXT

switch - there's 1 pond.
The CDs show the cost to be
\$250,250 - update this estimate cost

2023 Financial Assurance Estimate Form (with pre-plat construction)

Updated: 12/8/2022

| PROJECT INFORMATION | | | |
|---------------------|-----------|--------------|-----------|
| HAY CREEK VALLEY | 9/19/2023 | SF2324 | SF XX-XXX |
| 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 | 3,100 | CY | \$ 6.00 | = \$ 18,600.00 | | \$ 18,600.00 |
| 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 Erosion Control Blanket | 41,140.0 | SY | \$ 8.00 | = \$ 329,120.00 | | \$ 329,120.00 |
| Permanent Seeding (inc. noxious weed mgmnt.) & Mulching | | AC | \$ 1,875.00 | = \$ - | | \$ - |
| Permanent Pond/BMP (provide engineer's estimate) | 20,000 | EA | \$ 1.00 | = \$ 20,000.00 | | \$ 20,000.00 |
| 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 | 126 | EA | \$ 605.00 | = \$ 76,230.00 | | \$ 76,230.00 |
| Safety Fence | | LF | \$ 3.00 | = \$ - | | \$ - |
| Sediment Basin | 1 | EA | \$ 2,132.00 | = \$ 2,132.00 | | \$ 2,132.00 |
| Sediment Trap | | EA | \$ 500.00 | = \$ - | | \$ - |
| Silt Fence | 2,625 | LF | \$ 3.00 | = \$ 7,875.00 | | \$ 7,875.00 |
| Slope Drain | | LF | \$ 40.00 | = \$ - | | \$ - |
| Straw Bale | | EA | \$ 31.00 | = \$ - | | \$ - |
| Straw Wattle/Rock Sock | | LF | \$ 7.00 | = \$ - | | \$ - |
| Surface Roughening | | AC | \$ 250.00 | = \$ - | | \$ - |
| Temporary Erosion Control Blanket | | SY | \$ 3.00 | = \$ - | | \$ - |
| Temporary Seeding and Mulching | | AC | \$ 1,666.00 | = \$ - | | \$ - |
| Vehicle Tracking Control | 1 | EA | \$ 2,867.00 | = \$ 2,867.00 | | \$ 2,867.00 |
| OUTLET PROTECTION | 8 | EA | \$ 202.00 | = \$ 1,616.00 | | \$ 1,616.00 |
| [insert items not listed but part of construction plans] | | | | = \$ - | | \$ - |
| MAINTENANCE (35% of Construction BMPs) | | | | = \$ 32,388.30 | | \$ 32,388.30 |
| Section 1 Subtotal | | | | = \$ 494,824.30 | | \$ 494,824.30 |

Provide permanent seeding quantity and cost

* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)

SECTION 2 - PUBLIC IMPROVEMENTS *

| ROADWAY IMPROVEMENTS | | | | | | |
|--|--|------|-------------|--------|--|------|
| Construction Traffic Control | | LS | | = \$ - | | \$ - |
| Aggregate Base Course (135 lbs/cf) | | Tons | \$ 34.00 | = \$ - | | \$ - |
| Aggregate Base Course (135 lbs/cf) | | CY | \$ 61.00 | = \$ - | | \$ - |
| Asphalt Pavement (3" thick) | | SY | \$ 17.00 | = \$ - | | \$ - |
| Asphalt Pavement (4" thick) | | SY | \$ - | = \$ - | | \$ - |
| Asphalt Pavement (6" thick) | | SY | \$ - | = \$ - | | \$ - |
| Asphalt Pavement (147 lbs/cf) - " thick | | Tons | \$ - | = \$ - | | \$ - |
| Raised Median, Paved | | SF | \$ - | = \$ - | | \$ - |
| Regulatory Sign/Advisory Sign | | EA | \$ 364.00 | = \$ - | | \$ - |
| Guide/Street Name Sign | | | | = \$ - | | \$ - |
| Epoxy Pavement Marking | | | | = \$ - | | \$ - |
| Thermoplastic Pavement Marking | | | | = \$ - | | \$ - |
| Barricade - Type 3 | | | | = \$ - | | \$ - |
| Delineator - Type I | | | | = \$ - | | \$ - |
| Curb and Gutter, Type A (6" Vertical) | | | | = \$ - | | \$ - |
| Curb and Gutter, Type B (Median) | | | | = \$ - | | \$ - |
| Curb and Gutter, Type C (Ramp) | | | | = \$ - | | \$ - |
| 4" Sidewalk (common areas only) | | SY | \$ 58.00 | = \$ - | | \$ - |
| 5" Sidewalk | | SY | \$ 72.00 | = \$ - | | \$ - |
| 6" Sidewalk | | SY | \$ 87.00 | = \$ - | | \$ - |
| 8" Sidewalk | | SY | \$ 116.00 | = \$ - | | \$ - |
| Pedestrian Ramp | | EA | \$ 1,390.00 | = \$ - | | \$ - |
| Cross Pan, local (8" thick, 6' wide to include return) | | LF | \$ 73.00 | = \$ - | | \$ - |
| 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] | | | | = \$ - | | \$ - |

Add missing for work at new entrance
Work in ROW permit will be required.
A driveway access permit will also be required.

Add missing for entrance
Include all private road signs, stop signs, speed limit signs and ensure they depicted on CDs.

| PROJECT INFORMATION | | | |
|---------------------|-----------|--------------|--|
| HAY CREEK VALLEY | 9/19/2023 | SF XX-XXX | |
| Project Name | Date | PCD File No. | |

| Description | Quantity | Units | Unit Cost | | Total | (with Pre-Plat Construction) | | |
|---|----------|-------|--------------|---|----------|------------------------------|-----------|-------------|
| | | | | | | % Complete | Remaining | |
| STORM DRAIN IMPROVEMENTS | | | | | | | | |
| Concrete Box Culvert (M Standard), Size (48" x 48") | | LF | | = | \$ - | | \$ - | |
| 18" Reinforced Concrete Pipe | | LF | \$ 76.00 | = | \$ - | | \$ - | |
| 24" Reinforced Concrete Pipe | | LF | \$ 91.00 | = | \$ - | | \$ - | |
| 30" Reinforced Concrete Pipe | | LF | \$ 114.00 | = | \$ - | | \$ - | |
| 36" Reinforced Concrete Pipe | | LF | \$ 140.00 | = | \$ - | | \$ - | |
| 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 = <small>(unit cost = 6x pipe unit cost)</small> | | EA | | = | \$ - | | \$ - | |
| Flared End Section (FES) CSP Size = <small>(unit cost = 6x pipe unit cost)</small> | | EA | | = | \$ - | | \$ - | |
| 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' | | EA | \$ 6,703.00 | = | \$ - | | \$ - | |
| Curb Inlet (Type R) L=5', 5' ≤ Depth < 10' | | EA | \$ 8,715.00 | = | \$ - | | \$ - | |
| 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' | | EA | \$ 9,507.00 | = | \$ - | | \$ - | |
| 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 | | EA | \$ 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 | | | | = | \$ - | | \$ - | |
| | | | | = | \$ - | | \$ - | |
| <i>[insert items not listed but part of construction plans]</i> | | | | | | | | |
| * - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED) | | | | | | | | |
| Section 2 Subtotal | | | | | = | \$ - | | \$ - |

SECTION 3 - COMMON DEVELOPMENT IMPROVEMENTS (Private or District and NOT Maintained by EPC)**

| | | | | | | | |
|------------------------------------|--------|----|----------|---|---------------|--|---------------|
| Aggregate Base Course (135 lbs/cf) | 2,415 | CY | \$ 61.00 | = | \$ 147,315.00 | | \$ 147,315.00 |
| Asphalt Pavement (3" thick) | 20,833 | SY | \$ 17.00 | = | \$ 354,161.00 | | \$ 354,161.00 |
| | | | | = | \$ - | | \$ - |
| | | | | = | \$ - | | \$ - |
| | | | | = | \$ - | | \$ - |

| PROJECT INFORMATION | | |
|---------------------|-----------|--------------|
| HAY CREEK VALLEY | 9/19/2023 | SF XX-XXX |
| Project Name | Date | PCD File No. |

| Description | Quantity | Units | Unit Cost | = | \$ | Total | (with Pre-Plat Construction) | | | | | |
|--|----------|-------|--------------|---|----|------------|--|---------------------|---------------------|----|---------------------|---|
| | | | | | | | % Complete | Remaining | | | | |
| | | | | | | | = | \$ | - | | \$ | - |
| STORM DRAIN IMPROVEMENTS | | | | | | | <i>(Exception: Permanent Pond/BMP shall be itemized under Section 1)</i> | | | | | |
| 18" RCP FES | 3 | EA | \$ 456.00 | = | \$ | 1,368.00 | | \$ | 1,368.00 | | | |
| 30" RCP FES | 2 | EA | \$ 684.00 | = | \$ | 1,368.00 | | \$ | 1,368.00 | | | |
| 36" RCP FES | 3 | EA | \$ 840.00 | = | \$ | 2,520.00 | | \$ | 2,520.00 | | | |
| HEADWALL | 1 | EA | \$ 2,000.00 | = | \$ | 2,000.00 | | \$ | 2,000.00 | | | |
| Grated Inlet (Type C), Depth < 5' | 2 | EA | \$ 5,611.00 | = | \$ | 11,222.00 | | \$ | 11,222.00 | | | |
| Grated Inlet (Type D), Depth < 5' | 2 | EA | \$ 6,931.00 | = | \$ | 13,862.00 | | \$ | 13,862.00 | | | |
| Storm Sewer Manhole, Box Base | 2 | EA | \$ 14,061.00 | = | \$ | 28,122.00 | | \$ | 28,122.00 | | | |
| Rip Rap, d50 size from 6" to 24" | 8,490 | TONS | \$ 97.00 | = | \$ | 823,530.00 | | \$ | 823,530.00 | | | |
| Concrete Box Culvert (M Standard), Size (48" x 48") | 49 | LF | \$ 200.00 | = | \$ | 9,800.00 | | \$ | 9,800.00 | | | |
| 18" Reinforced Concrete Pipe | 190 | LF | \$ 76.00 | = | \$ | 14,440.00 | | \$ | 14,440.00 | | | |
| 30" Reinforced Concrete Pipe | 216 | LF | \$ 114.00 | = | \$ | 24,624.00 | | \$ | 24,624.00 | | | |
| | 342 | LF | \$ 140.00 | = | \$ | 47,880.00 | | \$ | 47,880.00 | | | |
| WATER SYSTEM IMPROVEMENTS | | | | | | | | | | | | |
| | | LF | \$ 78.00 | = | \$ | - | | \$ | - | | | |
| Water Main Pipe (Ductile Iron), Size 8" | | LF | \$ 91.00 | = | \$ | - | | \$ | - | | | |
| Gate Valves, 8" | | EA | \$ 2,247.00 | = | \$ | - | | \$ | - | | | |
| Fire Hydrant Assembly, w/ all valves | | EA | \$ 7,978.00 | = | \$ | - | | \$ | - | | | |
| Water Service Line Installation, inc. tap and valves | | EA | \$ 1,601.00 | = | \$ | - | | \$ | - | | | |
| Fire Cistern Installation, complete | | EA | | = | \$ | - | | \$ | - | | | |
| | | | | = | \$ | - | | \$ | - | | | |
| <i>[insert items not listed but part of construction plans]</i> | | | | | | | = | \$ | - | | | |
| SANITARY SEWER IMPROVEMENTS | | | | | | | | | | | | |
| Sewer Main Pipe (PVC), Size 8" | | LF | \$ 78.00 | = | \$ | - | | \$ | - | | | |
| Sanitary Sewer Manhole, Depth < 15 feet | | EA | \$ 5,305.00 | = | \$ | - | | \$ | - | | | |
| Sanitary Service Line Installation, complete | | EA | \$ 1,696.00 | = | \$ | - | | \$ | - | | | |
| Sanitary Sewer Lift Station, complete | | EA | | = | \$ | - | | \$ | - | | | |
| | | | | = | \$ | - | | \$ | - | | | |
| <i>[insert items not listed but part of construction plans]</i> | | | | | | | = | \$ | - | | | |
| LANDSCAPING IMPROVEMENTS | | | | | | | | | | | | |
| | | EA | | = | \$ | - | | \$ | - | | | |
| | | EA | | = | \$ | - | | \$ | - | | | |
| | | EA | | = | \$ | - | | \$ | - | | | |
| | | EA | | = | \$ | - | | \$ | - | | | |
| | | EA | | = | \$ | - | | \$ | - | | | |
| ** - Section 3 is not subject to defect warranty requirements | | | | | | | | | | | | |
| Section 3 Subtotal | | | | | | = | \$ | 1,482,212.00 | | \$ | 1,482,212.00 | |
| AS-BUILT PLANS (Public Improvements inc. Permanent WQCV BMPs) | LS | | \$ 2,000.00 | = | \$ | 2,000.00 | | \$ | 2,000.00 | | | |
| POND/BMP CERTIFICATION (inc. elevations and volume calculations) | LS | | \$ 2,000.00 | = | \$ | 2,000.00 | | \$ | 2,000.00 | | | |
| Total Construction Financial Assurance | | | | | | | | \$ | 1,981,036.30 | | | |
| (Sum of all section subtotals plus as-builts and pond/BMP certification) | | | | | | | | | | | | |
| Total Remaining Construction Financial Assurance (with Pre-Plat Construction) | | | | | | | | \$ | 1,981,036.30 | | | |
| (Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification) | | | | | | | | | | | | |
| Total Defect Warranty Financial Assurance | | | | | | | | \$ | 73,544.00 | | | |
| (20% of all items identified as (*). To be collateralized at time of preliminary acceptance) | | | | | | | | | | | | |

Please include the 33,000 gallon cistern

Water Service Line Installation, inc. tap and valves
Fire Cistern Installation, complete

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