



HRGreen

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Please update
all FAE forms to
2025 versions

Grandview Reserve On Site Sanitary Sewer

El Paso County No. PPR2421

Prepared For (Applicant/Owner):

D.R. Horton

Prepared By:

HR Green Development, LLC

2024 Financial Assurance Estimate Form (with pre-plat construction)

Updated: 10/2023

| PROJECT INFORMATION | | |
|-------------------------|-----------|--------------|
| Grandview Reserve Sewer | 9/27/2024 | PPR2421 |
| 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 | | CY | \$ 6.00 | = | \$ - | | \$ - |
| 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 | | SY | \$ 9.00 | = | \$ - | | \$ - |
| Permanent Seeding (inc. noxious weed mgmnt.) & Mulching | 8.90 | AC | \$ 2,018.00 | = | \$ 17,958.18 | | \$ 17,958.18 |
| Permanent Pond/BMP (provide engineer's estimate) | | EA | | = | \$ - | | \$ - |
| Concrete Washout Basin | | EA | \$ 1,172.00 | = | \$ - | | \$ - |
| Inlet Protection | | EA | \$ 217.00 | = | \$ - | | \$ - |
| Rock Check Dam | 2 | EA | \$ 651.00 | = | \$ 1,302.00 | | \$ 1,302.00 |
| Safety Fence | | LF | \$ 3.00 | = | \$ - | | \$ - |
| Sediment Basin | | EA | \$ 2,294.00 | = | \$ - | | \$ - |
| Sediment Trap | | EA | \$ 538.00 | = | \$ - | | \$ - |
| Silt Fence | 883 | LF | \$ 3.00 | = | \$ 2,647.98 | | \$ 2,647.98 |
| Slope Drain | | LF | \$ 43.00 | = | \$ - | | \$ - |
| Straw Bale | | EA | \$ 33.00 | = | \$ - | | \$ - |
| Straw Wattle/Rock Sock | | LF | \$ 8.00 | = | \$ - | | \$ - |
| Surface Roughening | | AC | \$ 269.00 | = | \$ - | | \$ - |
| Temporary Erosion Control Blanket | | SY | \$ 3.00 | = | \$ - | | \$ - |
| Temporary Seeding and Mulching | | AC | \$ 1,793.00 | = | \$ - | | \$ - |
| Vehicle Tracking Control | 1 | EA | \$ 3,085.00 | = | \$ 3,085.00 | | \$ 3,085.00 |
| [insert items not listed but part of construction plans] | | | | = | \$ - | | \$ - |
| MAINTENANCE (35% of Construction BMPs) | | | | | | \$ 2,462.24 | \$ 2,462.24 |
| Section 1 Subtotal | | | | | = | \$ 27,455.40 | \$ 27,455.40 |
| SECTION 2 - PUBLIC IMPROVEMENTS * | | | | | | | |
| ROADWAY IMPROVEMENTS | | | | | | | |
| Construction Traffic Control | | LS | | = | \$ - | | \$ - |
| Aggregate Base Course (135 lbs/cf) | | Tons | \$ 37.00 | = | \$ - | | \$ - |
| Aggregate Base Course (135 lbs/cf) | | CY | \$ 66.00 | = | \$ - | | \$ - |
| Asphalt Pavement (3" thick) | | SY | \$ 18.00 | = | \$ - | | \$ - |
| Asphalt Pavement (4" thick) | | SY | \$ 25.00 | = | \$ - | | \$ - |
| Asphalt Pavement (6" thick) | | SY | \$ 38.00 | = | \$ - | | \$ - |
| Asphalt Pavement (147 lbs/cf) ___" thick | | Tons | \$ 114.00 | = | \$ - | | \$ - |
| Raised Median, Paved | | SF | \$ 11.00 | = | \$ - | | \$ - |
| Regulatory Sign/Advisory Sign | | EA | \$ 392.00 | = | \$ - | | \$ - |
| Guide/Street Name Sign | | EA | | = | \$ - | | \$ - |
| Epoxy Pavement Marking | | SF | \$ 17.00 | = | \$ - | | \$ - |
| Thermoplastic Pavement Marking | | SF | \$ 30.00 | = | \$ - | | \$ - |
| Barricade - Type 3 | | EA | \$ 259.00 | = | \$ - | | \$ - |
| Delineator - Type I | | EA | \$ 31.00 | = | \$ - | | \$ - |
| Curb and Gutter, Type A (6" Vertical) | | LF | \$ 38.00 | = | \$ - | | \$ - |
| Curb and Gutter, Type B (Median) | | LF | \$ 38.00 | = | \$ - | | \$ - |
| Curb and Gutter, Type C (Ramp) | | LF | \$ 38.00 | = | \$ - | | \$ - |
| 4" Sidewalk (common areas only) | | SY | \$ 62.00 | = | \$ - | | \$ - |
| 5" Sidewalk | | SY | \$ 77.00 | = | \$ - | | \$ - |
| 6" Sidewalk | | SY | \$ 94.00 | = | \$ - | | \$ - |
| 8" Sidewalk | | SY | \$ 125.00 | = | \$ - | | \$ - |
| Pedestrian Ramp | | EA | \$ 1,496.00 | = | \$ - | | \$ - |
| Cross Pan, local (8" thick, 6' wide to include return) | | LF | \$ 79.00 | = | \$ - | | \$ - |
| Cross Pan, collector (9" thick, 8' wide to include return) | | LF | \$ 119.00 | = | \$ - | | \$ - |
| Curb Opening with Drainage Chase | | EA | \$ 1,926.00 | = | \$ - | | \$ - |
| Guardrail Type 3 (W-Beam) | | LF | \$ 65.00 | = | \$ - | | \$ - |
| Guardrail Type 7 (Concrete) | | LF | \$ 94.00 | = | \$ - | | \$ - |
| Guardrail End Anchorage | | EA | \$ 2,731.00 | = | \$ - | | \$ - |
| Guardrail Impact Attenuator | | EA | \$ 4,902.00 | = | \$ - | | \$ - |
| Sound Barrier Fence (CMU block, 6' high) | | LF | \$ 102.00 | = | \$ - | | \$ - |
| Sound Barrier Fence (panels, 6' high) | | LF | \$ 104.00 | = | \$ - | | \$ - |
| Electrical Conduit, Size = | | LF | \$ 22.00 | = | \$ - | | \$ - |
| Traffic Signal, (provide engineer's estimate) | | EA | | = | \$ - | | \$ - |

PROJECT INFORMATION

| | | |
|--------------------------------|------------------|---------------------|
| Grandview Reserve Sewer | 9/27/2024 | PPR2421 |
| Project Name | Date | PCD File No. |

| Description | Quantity | Units | Unit Cost | = | \$ | Total | (with Pre-Plat Construction) | |
|---|----------|-------|--------------|---|----|-------|------------------------------|-----------|
| | | | | | | | % Complete | Remaining |
| <i>[insert items not listed but part of construction plans]</i> | | | | = | \$ | - | | \$ - |
| <i>[insert items not listed but part of construction plans]</i> | | | | = | \$ | - | | \$ - |
| STORM DRAIN IMPROVEMENTS | | | | | | | | |
| Concrete Box Culvert (M Standard), Size (W x H) | | LF | | = | \$ | - | | \$ - |
| 18" Reinforced Concrete Pipe | | LF | \$ 82.00 | = | \$ | - | | \$ - |
| 24" Reinforced Concrete Pipe | | LF | \$ 98.00 | = | \$ | - | | \$ - |
| 30" Reinforced Concrete Pipe | | LF | \$ 123.00 | = | \$ | - | | \$ - |
| 36" Reinforced Concrete Pipe | | LF | \$ 151.00 | = | \$ | - | | \$ - |
| 42" Reinforced Concrete Pipe | | LF | \$ 201.00 | = | \$ | - | | \$ - |
| 48" Reinforced Concrete Pipe | | LF | \$ 245.00 | = | \$ | - | | \$ - |
| 54" Reinforced Concrete Pipe | | LF | \$ 320.00 | = | \$ | - | | \$ - |
| 60" Reinforced Concrete Pipe | | LF | \$ 374.00 | = | \$ | - | | \$ - |
| 66" Reinforced Concrete Pipe | | LF | \$ 433.00 | = | \$ | - | | \$ - |
| 72" Reinforced Concrete Pipe | | LF | \$ 495.00 | = | \$ | - | | \$ - |
| 18" Corrugated Steel Pipe | | LF | \$ 105.00 | = | \$ | - | | \$ - |
| 24" Corrugated Steel Pipe | | LF | \$ 121.00 | = | \$ | - | | \$ - |
| 30" Corrugated Steel Pipe | | LF | \$ 154.00 | = | \$ | - | | \$ - |
| 36" Corrugated Steel Pipe | | LF | \$ 184.00 | = | \$ | - | | \$ - |
| 42" Corrugated Steel Pipe | | LF | \$ 212.00 | = | \$ | - | | \$ - |
| 48" Corrugated Steel Pipe | | LF | \$ 223.00 | = | \$ | - | | \$ - |
| 54" Corrugated Steel Pipe | | LF | \$ 327.00 | = | \$ | - | | \$ - |
| 60" Corrugated Steel Pipe | | LF | \$ 353.00 | = | \$ | - | | \$ - |
| 66" Corrugated Steel Pipe | | LF | \$ 427.00 | = | \$ | - | | \$ - |
| 72" Corrugated Steel Pipe | | LF | \$ 502.00 | = | \$ | - | | \$ - |
| 78" Corrugated Steel Pipe | | LF | \$ 578.00 | = | \$ | - | | \$ - |
| 84" Corrugated Steel Pipe | | LF | \$ 691.00 | = | \$ | - | | \$ - |
| Flared End Section (FES) RCP Size = <i>(unit cost = 6x pipe unit cost)</i> | | EA | | = | \$ | - | | \$ - |
| 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 | \$ 7,212.00 | = | \$ | - | | \$ - |
| Curb Inlet (Type R) L=5', 5' ≤ Depth < 10' | | EA | \$ 9,377.00 | = | \$ | - | | \$ - |
| Curb Inlet (Type R) L =5', 10' ≤ Depth < 15' | | EA | \$ 10,859.00 | = | \$ | - | | \$ - |
| Curb Inlet (Type R) L =10', Depth < 5' | | EA | \$ 9,925.00 | = | \$ | - | | \$ - |
| Curb Inlet (Type R) L =10', 5' ≤ Depth < 10' | | EA | \$ 10,230.00 | = | \$ | - | | \$ - |
| Curb Inlet (Type R) L =10', 10' ≤ Depth < 15' | | EA | \$ 12,805.00 | = | \$ | - | | \$ - |
| Curb Inlet (Type R) L =15', Depth < 5' | | EA | \$ 12,907.00 | = | \$ | - | | \$ - |
| Curb Inlet (Type R) L =15', 5' ≤ Depth < 10' | | EA | \$ 13,835.00 | = | \$ | - | | \$ - |
| Curb Inlet (Type R) L =15', 10' ≤ Depth < 15' | | EA | \$ 15,130.00 | = | \$ | - | | \$ - |
| Curb Inlet (Type R) L =20', Depth < 5' | | EA | \$ 13,755.00 | = | \$ | - | | \$ - |
| Curb Inlet (Type R) L =20', 5' ≤ Depth < 10' | | EA | \$ 15,181.00 | = | \$ | - | | \$ - |
| Grated Inlet (Type C), Depth < 5' | | EA | \$ 6,037.00 | = | \$ | - | | \$ - |
| Grated Inlet (Type D), Depth < 5' | | EA | \$ 7,458.00 | = | \$ | - | | \$ - |
| Storm Sewer Manhole, Box Base | | EA | \$ 15,130.00 | = | \$ | - | | \$ - |
| Storm Sewer Manhole, Slab Base | | EA | \$ 8,322.00 | = | \$ | - | | \$ - |
| Geotextile (Erosion Control) | | SY | \$ 9.00 | = | \$ | - | | \$ - |
| Rip Rap, d50 size from 6" to 24" | | Tons | \$ 104.00 | = | \$ | - | | \$ - |
| Rip Rap, Grouted | | Tons | \$ 124.00 | = | \$ | - | | \$ - |
| Drainage Channel Construction, Size (W x H) | | LF | | = | \$ | - | | \$ - |
| Drainage Channel Lining, Concrete | | CY | \$ 741.00 | = | \$ | - | | \$ - |
| Drainage Channel Lining, Rip Rap | | CY | \$ 145.00 | = | \$ | - | | \$ - |
| Drainage Channel Lining, Grass | | AC | \$ 1,911.00 | = | \$ | - | | \$ - |
| Drainage Channel Lining, Other Stabilization | | | | = | \$ | - | | \$ - |
| <i>[insert items not listed but part of construction plans]</i> | | | | = | \$ | - | | \$ - |
| <i>[insert items not listed but part of construction plans]</i> | | | | = | \$ | - | | \$ - |
| Section 2 Subtotal | | | | = | \$ | - | | \$ - |

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

PROJECT INFORMATION

| | | |
|--------------------------------|------------------|---------------------|
| Grandview Reserve Sewer | 9/27/2024 | PPR2421 |
| Project Name | Date | PCD File No. |

| Description | Quantity | Units | Unit Cost | | Total | (with Pre-Plat Construction) | |
|--|----------|-------|--------------|---|---------------|------------------------------|---------------|
| | | | | | | % Complete | Remaining |
| SECTION 3 - COMMON DEVELOPMENT IMPROVEMENTS (Private or District and NOT Maintained by EPC)** | | | | | | | |
| ROADWAY IMPROVEMENTS | | | | | | | |
| | | | | = | \$ - | | \$ - |
| | | | | = | \$ - | | \$ - |
| | | | | = | \$ - | | \$ - |
| | | | | = | \$ - | | \$ - |
| | | | | = | \$ - | | \$ - |
| | | | | = | \$ - | | \$ - |
| STORM DRAIN IMPROVEMENTS (Exception: Permanent Pond/BMP shall be itemized under Section 1) | | | | | | | |
| | | | | = | \$ - | | \$ - |
| | | | | = | \$ - | | \$ - |
| | | | | = | \$ - | | \$ - |
| | | | | = | \$ - | | \$ - |
| | | | | = | \$ - | | \$ - |
| | | | | = | \$ - | | \$ - |
| WATER SYSTEM IMPROVEMENTS | | | | | | | |
| Water Main Pipe (PVC), Size 8" | | LF | \$ 84.00 | = | \$ - | | \$ - |
| Water Main Pipe (Ductile Iron), Size 8" | | LF | \$ 98.00 | = | \$ - | | \$ - |
| Gate Valves, 8" | | EA | \$ 2,418.00 | = | \$ - | | \$ - |
| Fire Hydrant Assembly, w/ all valves | | EA | \$ 8,584.00 | = | \$ - | | \$ - |
| Water Service Line Installation, inc. tap and valves | | EA | \$ 1,723.00 | = | \$ - | | \$ - |
| 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" | 1744 | LF | \$ 84.00 | = | \$ 146,454.00 | | \$ 146,454.00 |
| Sanitary Sewer Manhole, Depth < 15 feet | 11 | EA | \$ 5,708.00 | = | \$ 62,788.00 | | \$ 62,788.00 |
| Sanitary Service Line Installation, complete | | EA | \$ 1,825.00 | = | \$ - | | \$ - |
| Sewer Main Pipe (PVC), Size 12" | 1901 | LF | \$ 106.00 | = | \$ 201,548.40 | | \$ 201,548.40 |
| Sanitary Sewer Manhole, Depth 15 to 25 feet | 6 | EA | \$ 24,000.00 | = | \$ 144,000.00 | | \$ 144,000.00 |
| Sanitary Sewer Manhole, Depth 25 to 35 feet | | EA | \$ 35,000.00 | = | \$ - | | \$ - |
| Sewer Main Pipe (PVC), Size 10" | 1727 | LF | \$ 90.00 | = | \$ 155,385.00 | | \$ 155,385.00 |
| LANDSCAPING IMPROVEMENTS (For subdivision specific condition of approval, or PUD) | | | | | | | |
| | | EA | | = | \$ - | | \$ - |
| | | EA | | = | \$ - | | \$ - |
| | | EA | | = | \$ - | | \$ - |
| | | EA | | = | \$ - | | \$ - |

PROJECT INFORMATION

| | | |
|--------------------------------|------------------|---------------------|
| Grandview Reserve Sewer | 9/27/2024 | PPR2421 |
| Project Name | Date | PCD File No. |

| Description | Quantity | Units | Unit Cost | = | \$ | Total | (with Pre-Plat Construction) | |
|--|----------|-------|-----------|---|----|-------------------|------------------------------|----------------------|
| | | | | | | | % Complete | Remaining |
| ** - Section 3 is not subject to defect warranty requirements | | EA | | = | \$ | - | | \$ - |
| Section 3 Subtotal | | | | = | \$ | 710,175.40 | | \$ 710,175.40 |
| AS-BUILT PLANS (Public Improvements inc. Permanent WQCV BMPs) | | | | = | \$ | - | | \$ - |
| POND/BMP CERTIFICATION (inc. elevations and volume calculations) | | LS | | = | \$ | - | | \$ - |
| Total Construction Financial Assurance | | | | | | | | \$ 737,630.80 |
| (Sum of all section subtotals plus as-builts and pond/BMP certification) | | | | | | | | |
| Total Remaining Construction Financial Assurance (with Pre-Plat Construction) | | | | | | | | \$ 737,630.80 |
| (Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification) | | | | | | | | |
| Total Defect Warranty Financial Assurance | | | | | | | | \$ 3,591.64 |
| (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.

 Engineer (P.E. Seal Required)

 Approved by Owner / Applicant

 Date

 Approved by El Paso County Engineer / ECM Administrator

 Date



▷ HRGREEN.COM

Grandview Reserve Interceptor Sewer

El Paso County No. PPR2421

Prepared For (Applicant/Owner):

D.R. Horton

Prepared By:

HR Green Development, LLC

2024 Financial Assurance Estimate Form (with pre-plat construction)

Updated: 10/2023

| PROJECT INFORMATION | | |
|-------------------------------------|-----------|--------------|
| Grandview Reserve Interceptor Sewer | 9/26/2024 | PPR2421 |
| 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 | | CY | \$ 6.00 | = | \$ - | | \$ - |
| 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 | | SY | \$ 9.00 | = | \$ - | | \$ - |
| Permanent Seeding (inc. noxious weed mgmnt.) & Mulching | 18.92 | AC | \$ 2,018.00 | = | \$ 38,180.56 | | \$ 38,180.56 |
| Permanent Pond/BMP (provide engineer's estimate) | | EA | | = | \$ - | | \$ - |
| Concrete Washout Basin | | EA | \$ 1,172.00 | = | \$ - | | \$ - |
| Inlet Protection | | EA | \$ 217.00 | = | \$ - | | \$ - |
| Rock Check Dam | 284 | EA | \$ 651.00 | = | \$ 184,884.00 | | \$ 184,884.00 |
| Safety Fence | | LF | \$ 3.00 | = | \$ - | | \$ - |
| Sediment Basin | | EA | \$ 2,294.00 | = | \$ - | | \$ - |
| Sediment Trap | | EA | \$ 538.00 | = | \$ - | | \$ - |
| Silt Fence | 611 | LF | \$ 3.00 | = | \$ 1,833.00 | | \$ 1,833.00 |
| Slope Drain | | LF | \$ 43.00 | = | \$ - | | \$ - |
| Straw Bale | | EA | \$ 33.00 | = | \$ - | | \$ - |
| Straw Wattle/Rock Sock | | LF | \$ 8.00 | = | \$ - | | \$ - |
| Surface Roughening | | AC | \$ 269.00 | = | \$ - | | \$ - |
| Temporary Erosion Control Blanket | | SY | \$ 3.00 | = | \$ - | | \$ - |
| Temporary Seeding and Mulching | | AC | \$ 1,793.00 | = | \$ - | | \$ - |
| Vehicle Tracking Control | 4 | EA | \$ 3,085.00 | = | \$ 12,340.00 | | \$ 12,340.00 |
| [insert items not listed but part of construction plans] | | | | = | \$ - | | \$ - |
| MAINTENANCE (35% of Construction BMPs) | | | | | = | \$ 69,669.95 | \$ 69,669.95 |
| Section 1 Subtotal | | | | | = | \$ 306,907.51 | \$ 306,907.51 |

* - 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) | 243 | Tons | \$ 37.00 | = | \$ - | | \$ - |
| Aggregate Base Course (135 lbs/cf) | | CY | \$ 66.00 | = | \$ 16,010.94 | | \$ 16,010.94 |
| Asphalt Pavement (3" thick) | | SY | \$ 18.00 | = | \$ - | | \$ - |
| Asphalt Pavement (4" thick) | 1456 | SY | \$ 25.00 | = | \$ 36,388.50 | | \$ 36,388.50 |
| Asphalt Pavement (6" thick) | | SY | \$ 38.00 | = | \$ - | | \$ - |
| Asphalt Pavement (147 lbs/cf) ___" thick | | Tons | \$ 114.00 | = | \$ - | | \$ - |
| Raised Median, Paved | | SF | \$ 11.00 | = | \$ - | | \$ - |
| Regulatory Sign/Advisory Sign | | EA | \$ 392.00 | = | \$ - | | \$ - |
| Guide/Street Name Sign | | EA | | = | \$ - | | \$ - |
| Epoxy Pavement Marking | | SF | \$ 17.00 | = | \$ - | | \$ - |
| Thermoplastic Pavement Marking | | SF | \$ 30.00 | = | \$ - | | \$ - |
| Barricade - Type 3 | | EA | \$ 259.00 | = | \$ - | | \$ - |
| Delineator - Type I | | EA | \$ 31.00 | = | \$ - | | \$ - |
| Curb and Gutter, Type A (6" Vertical) | | LF | \$ 38.00 | = | \$ - | | \$ - |
| Curb and Gutter, Type B (Median) | | LF | \$ 38.00 | = | \$ - | | \$ - |
| Curb and Gutter, Type C (Ramp) | | LF | \$ 38.00 | = | \$ - | | \$ - |
| 4" Sidewalk (common areas only) | | SY | \$ 62.00 | = | \$ - | | \$ - |
| 5" Sidewalk | | SY | \$ 77.00 | = | \$ - | | \$ - |
| 6" Sidewalk | | SY | \$ 94.00 | = | \$ - | | \$ - |
| 8" Sidewalk | | SY | \$ 125.00 | = | \$ - | | \$ - |
| Pedestrian Ramp | | EA | \$ 1,496.00 | = | \$ - | | \$ - |
| Cross Pan, local (8" thick, 6' wide to include return) | | LF | \$ 79.00 | = | \$ - | | \$ - |
| Cross Pan, collector (9" thick, 8' wide to include return) | | LF | \$ 119.00 | = | \$ - | | \$ - |
| Curb Opening with Drainage Chase | | EA | \$ 1,926.00 | = | \$ - | | \$ - |
| Guardrail Type 3 (W-Beam) | | LF | \$ 65.00 | = | \$ - | | \$ - |
| Guardrail Type 7 (Concrete) | | LF | \$ 94.00 | = | \$ - | | \$ - |
| Guardrail End Anchorage | | EA | \$ 2,731.00 | = | \$ - | | \$ - |
| Guardrail Impact Attenuator | | EA | \$ 4,902.00 | = | \$ - | | \$ - |
| Sound Barrier Fence (CMU block, 6' high) | | LF | \$ 102.00 | = | \$ - | | \$ - |
| Sound Barrier Fence (panels, 6' high) | | LF | \$ 104.00 | = | \$ - | | \$ - |
| Electrical Conduit, Size = | | LF | \$ 22.00 | = | \$ - | | \$ - |
| Traffic Signal, (provide engineer's estimate) | | EA | | = | \$ - | | \$ - |

PROJECT INFORMATION

Grandview Reserve Interceptor Sewer
Project Name

9/26/2024
Date

PPR2421
PCD File No.

| Description | Quantity | Units | Unit Cost | = | Total | (with Pre-Plat Construction) | |
|---|----------|-------|--------------|---|---------------------|------------------------------|---------------------|
| | | | | | | % Complete | Remaining |
| <i>[insert items not listed but part of construction plans]</i> | | | | = | \$ - | | \$ - |
| STORM DRAIN IMPROVEMENTS | | | | = | \$ - | | \$ - |
| Concrete Box Culvert (M Standard), Size (W x H) | | LF | | = | \$ - | | \$ - |
| 18" Reinforced Concrete Pipe | | LF | \$ 82.00 | = | \$ - | | \$ - |
| 24" Reinforced Concrete Pipe | | LF | \$ 98.00 | = | \$ - | | \$ - |
| 30" Reinforced Concrete Pipe | | LF | \$ 123.00 | = | \$ - | | \$ - |
| 36" Reinforced Concrete Pipe | | LF | \$ 151.00 | = | \$ - | | \$ - |
| 42" Reinforced Concrete Pipe | | LF | \$ 201.00 | = | \$ - | | \$ - |
| 48" Reinforced Concrete Pipe | | LF | \$ 245.00 | = | \$ - | | \$ - |
| 54" Reinforced Concrete Pipe | | LF | \$ 320.00 | = | \$ - | | \$ - |
| 60" Reinforced Concrete Pipe | | LF | \$ 374.00 | = | \$ - | | \$ - |
| 66" Reinforced Concrete Pipe | | LF | \$ 433.00 | = | \$ - | | \$ - |
| 72" Reinforced Concrete Pipe | | LF | \$ 495.00 | = | \$ - | | \$ - |
| 18" Corrugated Steel Pipe | | LF | \$ 105.00 | = | \$ - | | \$ - |
| 24" Corrugated Steel Pipe | | LF | \$ 121.00 | = | \$ - | | \$ - |
| 30" Corrugated Steel Pipe | | LF | \$ 154.00 | = | \$ - | | \$ - |
| 36" Corrugated Steel Pipe | | LF | \$ 184.00 | = | \$ - | | \$ - |
| 42" Corrugated Steel Pipe | | LF | \$ 212.00 | = | \$ - | | \$ - |
| 48" Corrugated Steel Pipe | | LF | \$ 223.00 | = | \$ - | | \$ - |
| 54" Corrugated Steel Pipe | | LF | \$ 327.00 | = | \$ - | | \$ - |
| 60" Corrugated Steel Pipe | | LF | \$ 353.00 | = | \$ - | | \$ - |
| 66" Corrugated Steel Pipe | | LF | \$ 427.00 | = | \$ - | | \$ - |
| 72" Corrugated Steel Pipe | | LF | \$ 502.00 | = | \$ - | | \$ - |
| 78" Corrugated Steel Pipe | | LF | \$ 578.00 | = | \$ - | | \$ - |
| 84" Corrugated Steel Pipe | | LF | \$ 691.00 | = | \$ - | | \$ - |
| Flared End Section (FES) RCP Size = <i>(unit cost = 6x pipe unit cost)</i> | | EA | | = | \$ - | | \$ - |
| 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 | \$ 7,212.00 | = | \$ - | | \$ - |
| Curb Inlet (Type R) L=5', 5' ≤ Depth < 10' | | EA | \$ 9,377.00 | = | \$ - | | \$ - |
| Curb Inlet (Type R) L =5', 10' ≤ Depth < 15' | | EA | \$ 10,859.00 | = | \$ - | | \$ - |
| Curb Inlet (Type R) L =10', Depth < 5' | | EA | \$ 9,925.00 | = | \$ - | | \$ - |
| Curb Inlet (Type R) L =10', 5' ≤ Depth < 10' | | EA | \$ 10,230.00 | = | \$ - | | \$ - |
| Curb Inlet (Type R) L =10', 10' ≤ Depth < 15' | | EA | \$ 12,805.00 | = | \$ - | | \$ - |
| Curb Inlet (Type R) L =15', Depth < 5' | | EA | \$ 12,907.00 | = | \$ - | | \$ - |
| Curb Inlet (Type R) L =15', 5' ≤ Depth < 10' | | EA | \$ 13,835.00 | = | \$ - | | \$ - |
| Curb Inlet (Type R) L =15', 10' ≤ Depth < 15' | | EA | \$ 15,130.00 | = | \$ - | | \$ - |
| Curb Inlet (Type R) L =20', Depth < 5' | | EA | \$ 13,755.00 | = | \$ - | | \$ - |
| Curb Inlet (Type R) L =20', 5' ≤ Depth < 10' | | EA | \$ 15,181.00 | = | \$ - | | \$ - |
| Grated Inlet (Type C), Depth < 5' | | EA | \$ 6,037.00 | = | \$ - | | \$ - |
| Grated Inlet (Type D), Depth < 5' | | EA | \$ 7,458.00 | = | \$ - | | \$ - |
| Storm Sewer Manhole, Box Base | | EA | \$ 15,130.00 | = | \$ - | | \$ - |
| Storm Sewer Manhole, Slab Base | | EA | \$ 8,322.00 | = | \$ - | | \$ - |
| Geotextile (Erosion Control) | | SY | \$ 9.00 | = | \$ - | | \$ - |
| Rip Rap, d50 size from 6" to 24" | | Tons | \$ 104.00 | = | \$ - | | \$ - |
| Rip Rap, Grouted | | Tons | \$ 124.00 | = | \$ - | | \$ - |
| Drainage Channel Construction, Size (W x H) | | LF | | = | \$ - | | \$ - |
| Drainage Channel Lining, Concrete | | CY | \$ 741.00 | = | \$ - | | \$ - |
| Drainage Channel Lining, Rip Rap | | CY | \$ 145.00 | = | \$ - | | \$ - |
| Drainage Channel Lining, Grass | | AC | \$ 1,911.00 | = | \$ - | | \$ - |
| Drainage Channel Lining, Other Stabilization | | | | = | \$ - | | \$ - |
| <i>[insert items not listed but part of construction plans]</i> | | | | = | \$ - | | \$ - |
| Section 2 Subtotal | | | | = | \$ 52,399.40 | | \$ 52,399.44 |

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

PROJECT INFORMATION

| | | |
|--|------------------|---------------------|
| Grandview Reserve Interceptor Sewer | 9/26/2024 | PPR2421 |
| Project Name | Date | PCD File No. |

| Description | Quantity | Units | Unit Cost | Total | (with Pre-Plat Construction) | |
|--|----------|-------|--------------|-------|------------------------------|---------------|
| | | | | | % Complete | Remaining |
| SECTION 3 - COMMON DEVELOPMENT IMPROVEMENTS (Private or District and NOT Maintained by EPC)** | | | | | | |
| ROADWAY IMPROVEMENTS | | | | | | |
| | | | | = \$ | - | \$ - |
| | | | | = \$ | - | \$ - |
| | | | | = \$ | - | \$ - |
| | | | | = \$ | - | \$ - |
| | | | | = \$ | - | \$ - |
| | | | | = \$ | - | \$ - |
| | | | | = \$ | - | \$ - |
| STORM DRAIN IMPROVEMENTS (Exception: Permanent Pond/BMP shall be itemized under Section 1) | | | | | | |
| | | | | = \$ | - | \$ - |
| | | | | = \$ | - | \$ - |
| | | | | = \$ | - | \$ - |
| | | | | = \$ | - | \$ - |
| | | | | = \$ | - | \$ - |
| | | | | = \$ | - | \$ - |
| WATER SYSTEM IMPROVEMENTS | | | | | | |
| Water Main Pipe (PVC), Size 8" | | LF | \$ 84.00 | = \$ | - | \$ - |
| Water Main Pipe (Ductile Iron), Size 8" | | LF | \$ 98.00 | = \$ | - | \$ - |
| Gate Valves, 8" | | EA | \$ 2,418.00 | = \$ | - | \$ - |
| Fire Hydrant Assembly, w/ all valves | | EA | \$ 8,584.00 | = \$ | - | \$ - |
| Water Service Line Installation, inc. tap and valves | | EA | \$ 1,723.00 | = \$ | - | \$ - |
| 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" | 40 | LF | \$ 84.00 | = \$ | 3,360.00 | \$ 3,360.00 |
| Sanitary Sewer Manhole, Depth < 15 feet | 17 | EA | \$ 5,708.00 | = \$ | 97,036.00 | \$ 97,036.00 |
| Sanitary Service Line Installation, complete | | EA | \$ 1,825.00 | = \$ | - | \$ - |
| Sanitary Sewer Manhole, Depth 15 to 25 feet | 5 | | \$ 24,000.00 | = \$ | 120,000.00 | \$ 120,000.00 |
| Sanitary Sewer Manhole, Depth 25 to 35 feet | 4 | EA | \$ 35,000.00 | = \$ | 140,000.00 | \$ 140,000.00 |
| 18" PVC PS 115 | 5989 | LF | \$ 150.00 | = \$ | 898,350.00 | \$ 898,350.00 |
| 18" PVC C900 | 2145 | LF | \$ 180.00 | = \$ | 386,100.00 | \$ 386,100.00 |
| Sewer Main Pipe (PVC), Size 15" | 40 | LF | \$ 132.00 | = \$ | 5,280.00 | \$ 5,280.00 |
| 30" PVC Steel Casing Pipe W/ cathodic Protection | 150 | LF | \$ 256.80 | = \$ | 38,520.00 | \$ 38,520.00 |
| LANDSCAPING IMPROVEMENTS (For subdivision specific condition of approval, or PUD) | | | | | | |
| | | EA | | = \$ | - | \$ - |
| | | EA | | = \$ | - | \$ - |
| | | EA | | = \$ | - | \$ - |
| | | EA | | = \$ | - | \$ - |

PROJECT INFORMATION

| | | |
|--|------------------|---------------------|
| Grandview Reserve Interceptor Sewer | 9/26/2024 | PPR2421 |
| Project Name | Date | PCD File No. |

| Description | Quantity | Units | Unit Cost | = | Total | (with Pre-Plat Construction) | |
|--|----------|-------|-----------|----------|------------------------|------------------------------|------------------------|
| | | | | | | % Complete | Remaining |
| ** - Section 3 is not subject to defect warranty requirements | | EA | | = | \$ - | | \$ - |
| Section 3 Subtotal | | | | = | \$ 1,688,646.00 | | \$ 1,688,646.00 |
| AS-BUILT PLANS (Public Improvements inc. Permanent WQCV BMPs) | | | | = | \$ - | | \$ - |
| POND/BMP CERTIFICATION (inc. elevations and volume calculations) | | LS | | = | \$ - | | \$ - |
| Total Construction Financial Assurance | | | | | | \$ 2,047,952.91 | |
| (Sum of all section subtotals plus as-builts and pond/BMP certification) | | | | | | | |
| Total Remaining Construction Financial Assurance (with Pre-Plat Construction) | | | | | | \$ 2,047,952.95 | |
| (Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification) | | | | | | | |
| Total Defect Warranty Financial Assurance | | | | | | \$ 18,115.99 | |
| (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.

Engineer (P.E. Seal Required)

Approved by Owner / Applicant

Date

Approved by El Paso County Engineer / ECM Administrator

Date



▶ HRGREEN.COM

Grandview Reserve Lift Station

El Paso County No. PPR2421

Prepared For (Applicant/Owner):

D.R. Horton

Prepared By:

HR Green Development, LLC

2024 Financial Assurance Estimate Form (with pre-plat construction)

Updated: 10/2023

| PROJECT INFORMATION | | |
|--------------------------------|-----------|--------------|
| Grandview Reserve Lift Station | 9/13/2024 | PPR2421 |
| 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 | 4187 | CY | \$ 6.00 | = | \$ 25,122.00 | | \$ 25,122.00 |
| 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 | | SY | \$ 9.00 | = | \$ - | | \$ - |
| Permanent Seeding (inc. noxious weed mgmnt.) & Mulching | 2.4 | AC | \$ 2,018.00 | = | \$ 4,843.20 | | \$ 4,843.20 |
| Permanent Pond/BMP (provide engineer's estimate) | | EA | | = | \$ - | | \$ - |
| Concrete Washout Basin | 1 | EA | \$ 1,172.00 | = | \$ 1,172.00 | | \$ 1,172.00 |
| Inlet Protection | | EA | \$ 217.00 | = | \$ - | | \$ - |
| Rock Check Dam | | EA | \$ 651.00 | = | \$ - | | \$ - |
| Safety Fence | | LF | \$ 3.00 | = | \$ - | | \$ - |
| Sediment Basin | 2 | EA | \$ 2,294.00 | = | \$ 4,588.00 | | \$ 4,588.00 |
| Sediment Trap | | EA | \$ 538.00 | = | \$ - | | \$ - |
| Silt Fence | 1136 | LF | \$ 3.00 | = | \$ 3,408.00 | | \$ 3,408.00 |
| Slope Drain | | LF | \$ 43.00 | = | \$ - | | \$ - |
| Straw Bale | | EA | \$ 33.00 | = | \$ - | | \$ - |
| Straw Wattle/Rock Sock | | LF | \$ 8.00 | = | \$ - | | \$ - |
| Surface Roughening | | AC | \$ 269.00 | = | \$ - | | \$ - |
| Temporary Erosion Control Blanket | | SY | \$ 3.00 | = | \$ - | | \$ - |
| Temporary Seeding and Mulching | | AC | \$ 1,793.00 | = | \$ - | | \$ - |
| Vehicle Tracking Control | 1 | EA | \$ 3,085.00 | = | \$ 3,085.00 | | \$ 3,085.00 |
| [insert items not listed but part of construction plans] | | | | = | \$ - | | \$ - |
| MAINTENANCE (35% of Construction BMPs) | | | | | = | \$ 3,878.35 | \$ 3,878.35 |
| Section 1 Subtotal | | | | | = | \$ 46,096.55 | \$ 46,096.55 |

* - 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 | \$ 37.00 | = | \$ - | | \$ - |
| Aggregate Base Course (135 lbs/cf) | | CY | \$ 66.00 | = | \$ - | | \$ - |
| Asphalt Pavement (3" thick) | | SY | \$ 18.00 | = | \$ - | | \$ - |
| Asphalt Pavement (4" thick) | | SY | \$ 25.00 | = | \$ - | | \$ - |
| Asphalt Pavement (6" thick) | | SY | \$ 38.00 | = | \$ - | | \$ - |
| Asphalt Pavement (147 lbs/cf) ___" thick | | Tons | \$ 114.00 | = | \$ - | | \$ - |
| Raised Median, Paved | | SF | \$ 11.00 | = | \$ - | | \$ - |
| Regulatory Sign/Advisory Sign | | EA | \$ 392.00 | = | \$ - | | \$ - |
| Guide/Street Name Sign | | EA | | = | \$ - | | \$ - |
| Epoxy Pavement Marking | | SF | \$ 17.00 | = | \$ - | | \$ - |
| Thermoplastic Pavement Marking | | SF | \$ 30.00 | = | \$ - | | \$ - |
| Barricade - Type 3 | | EA | \$ 259.00 | = | \$ - | | \$ - |
| Delineator - Type I | | EA | \$ 31.00 | = | \$ - | | \$ - |
| Curb and Gutter, Type A (6" Vertical) | | LF | \$ 38.00 | = | \$ - | | \$ - |
| Curb and Gutter, Type B (Median) | | LF | \$ 38.00 | = | \$ - | | \$ - |
| Curb and Gutter, Type C (Ramp) | | LF | \$ 38.00 | = | \$ - | | \$ - |
| 4" Sidewalk (common areas only) | | SY | \$ 62.00 | = | \$ - | | \$ - |
| 5" Sidewalk | | SY | \$ 77.00 | = | \$ - | | \$ - |
| 6" Sidewalk | | SY | \$ 94.00 | = | \$ - | | \$ - |
| 8" Sidewalk | | SY | \$ 125.00 | = | \$ - | | \$ - |
| Pedestrian Ramp | | EA | \$ 1,496.00 | = | \$ - | | \$ - |
| Cross Pan, local (8" thick, 6' wide to include return) | | LF | \$ 79.00 | = | \$ - | | \$ - |
| Cross Pan, collector (9" thick, 8' wide to include return) | | LF | \$ 119.00 | = | \$ - | | \$ - |
| Curb Opening with Drainage Chase | | EA | \$ 1,926.00 | = | \$ - | | \$ - |
| Guardrail Type 3 (W-Beam) | | LF | \$ 65.00 | = | \$ - | | \$ - |
| Guardrail Type 7 (Concrete) | | LF | \$ 94.00 | = | \$ - | | \$ - |
| Guardrail End Anchorage | | EA | \$ 2,731.00 | = | \$ - | | \$ - |
| Guardrail Impact Attenuator | | EA | \$ 4,902.00 | = | \$ - | | \$ - |
| Sound Barrier Fence (CMU block, 6' high) | | LF | \$ 102.00 | = | \$ - | | \$ - |
| Sound Barrier Fence (panels, 6' high) | | LF | \$ 104.00 | = | \$ - | | \$ - |
| Electrical Conduit, Size = | | LF | \$ 22.00 | = | \$ - | | \$ - |
| Traffic Signal, (provide engineer's estimate) | | EA | | = | \$ - | | \$ - |

PROJECT INFORMATION

| | | |
|---------------------------------------|------------------|---------------------|
| Grandview Reserve Lift Station | 9/13/2024 | PPR2421 |
| Project Name | Date | PCD File No. |

| Description | Quantity | Units | Unit Cost | | Total | (with Pre-Plat Construction) | | |
|--|----------|-------|-----------------|---|-----------------|------------------------------|-----------------|------------------------|
| | | | | | | % Complete | Remaining | |
| SECTION 3 - COMMON DEVELOPMENT IMPROVEMENTS (Private or District and NOT Maintained by EPC)** | | | | | | | | |
| ROADWAY IMPROVEMENTS | | | | | | | | |
| | | | | = | \$ - | | \$ - | |
| | | | | = | \$ - | | \$ - | |
| | | | | = | \$ - | | \$ - | |
| | | | | = | \$ - | | \$ - | |
| | | | | = | \$ - | | \$ - | |
| | | | | = | \$ - | | \$ - | |
| STORM DRAIN IMPROVEMENTS (Exception: Permanent Pond/BMP shall be itemized under Section 1) | | | | | | | | |
| | | | | = | \$ - | | \$ - | |
| | | | | = | \$ - | | \$ - | |
| | | | | = | \$ - | | \$ - | |
| | | | | = | \$ - | | \$ - | |
| | | | | = | \$ - | | \$ - | |
| | | | | = | \$ - | | \$ - | |
| WATER SYSTEM IMPROVEMENTS | | | | | | | | |
| Water Main Pipe (PVC), Size 8" | | LF | \$ 84.00 | = | \$ - | | \$ - | |
| Water Main Pipe (Ductile Iron), Size 8" | | LF | \$ 98.00 | = | \$ - | | \$ - | |
| Gate Valves, 8" | | EA | \$ 2,418.00 | = | \$ - | | \$ - | |
| Fire Hydrant Assembly, w/ all valves | | EA | \$ 8,584.00 | = | \$ - | | \$ - | |
| Water Service Line Installation, inc. tap and valves | | EA | \$ 1,723.00 | = | \$ - | | \$ - | |
| 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" | 221 | LF | \$ 84.00 | = | \$ 18,555.60 | | \$ 18,555.60 | |
| Sanitary Sewer Manhole, Depth < 15 feet | 3 | EA | \$ 5,708.00 | = | \$ 17,124.00 | | \$ 17,124.00 | |
| Sanitary Service Line Installation, complete | | EA | \$ 1,825.00 | = | \$ - | | \$ - | |
| Sanitary Sewer Lift Station, complete | 1 | EA | \$ 7,465,000.00 | = | \$ 7,465,000.00 | | \$ 7,465,000.00 | |
| Sewer Main Pipe (PVC), Size 18" | 289 | LF | \$ 150.00 | = | \$ 43,350.00 | | \$ 43,350.00 | |
| Sewer Main Pipe (PVC), Size 14" | 215 | LF | \$ 123.00 | = | \$ 26,445.00 | | \$ 26,445.00 | |
| | | | | = | \$ - | | \$ - | |
| | | | | = | \$ - | | \$ - | |
| <i>[insert items not listed but part of construction plans]</i> | | | | | | | | |
| | | | | = | \$ - | | \$ - | |
| LANDSCAPING IMPROVEMENTS (For subdivision specific condition of approval, or PUD) | | | | | | | | |
| | | EA | | = | \$ - | | \$ - | |
| | | EA | | = | \$ - | | \$ - | |
| | | EA | | = | \$ - | | \$ - | |
| | | EA | | = | \$ - | | \$ - | |
| | | EA | | = | \$ - | | \$ - | |
| | | EA | | = | \$ - | | \$ - | |
| Section 3 Subtotal | | | | | = | \$ 7,570,474.60 | | \$ 7,570,474.60 |

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

PROJECT INFORMATION

| | | |
|---------------------------------------|------------------|---------------------|
| Grandview Reserve Lift Station | 9/13/2024 | PPR2421 |
| Project Name | Date | PCD File No. |

| Description | Quantity | Units | Unit Cost | Total | (with Pre-Plat Construction) | |
|--|----------|-------|-----------|--------|------------------------------|------------------------|
| | | | | | % Complete | Remaining |
| AS-BUILT PLANS (Public Improvements inc. Permanent WQCV BMPs) | | | | = \$ - | | \$ - |
| POND/BMP CERTIFICATION (inc. elevations and volume calculations) | | LS | | = \$ - | | \$ - |
| Total Construction Financial Assurance | | | | | | \$ 7,616,571.15 |
| (Sum of all section subtotals plus as-builts and pond/BMP certification) | | | | | | |
| Total Remaining Construction Financial Assurance (with Pre-Plat Construction) | | | | | | \$ 7,616,571.15 |
| (Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification) | | | | | | |
| Total Defect Warranty Financial Assurance | | | | | | \$ 5,993.04 |
| (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.

 Engineer (P.E. Seal Required)

 Approved by Owner / Applicant

 Date

 Approved by El Paso County Engineer / ECM Administrator

 Date



▷ HRGREEN.COM

Grandview Reserve Dual Force Mains

El Paso County No. PPR2421

Prepared For (Applicant/Owner):

D.R. Horton

Prepared By:

HR Green Development, LLC

2024 Financial Assurance Estimate Form (with pre-plat construction)

Updated: 10/2023

| PROJECT INFORMATION | | |
|-----------------------------------|-----------|--------------|
| Grandview Reserve Dual Force Main | 9/26/2024 | PPR2421 |
| 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 | | CY | \$ 6.00 | = | \$ - | | \$ - |
| 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 | | SY | \$ 9.00 | = | \$ - | | \$ - |
| Permanent Seeding (inc. noxious weed mgmnt.) & Mulching | 27.93 | AC | \$ 2,018.00 | = | \$ 56,362.74 | | \$ 56,362.74 |
| Permanent Pond/BMP (provide engineer's estimate) | | EA | | = | \$ - | | \$ - |
| Concrete Washout Basin | | EA | \$ 1,172.00 | = | \$ - | | \$ - |
| Inlet Protection | 16 | EA | \$ 217.00 | = | \$ 3,472.00 | | \$ 3,472.00 |
| Rock Check Dam | 2 | EA | \$ 651.00 | = | \$ 1,302.00 | | \$ 1,302.00 |
| Safety Fence | | LF | \$ 3.00 | = | \$ - | | \$ - |
| Sediment Basin | | EA | \$ 2,294.00 | = | \$ - | | \$ - |
| Sediment Trap | | EA | \$ 538.00 | = | \$ - | | \$ - |
| Silt Fence | 1601 | LF | \$ 3.00 | = | \$ 4,803.00 | | \$ 4,803.00 |
| Slope Drain | | LF | \$ 43.00 | = | \$ - | | \$ - |
| Straw Bale | 184 | EA | \$ 33.00 | = | \$ 6,072.00 | | \$ 6,072.00 |
| Straw Wattle/Rock Sock | | LF | \$ 8.00 | = | \$ - | | \$ - |
| Surface Roughening | | AC | \$ 269.00 | = | \$ - | | \$ - |
| Temporary Erosion Control Blanket | | SY | \$ 3.00 | = | \$ - | | \$ - |
| Temporary Seeding and Mulching | | AC | \$ 1,793.00 | = | \$ - | | \$ - |
| Vehicle Tracking Control | 13 | EA | \$ 3,085.00 | = | \$ 40,105.00 | | \$ 40,105.00 |
| [insert items not listed but part of construction plans] | | | | = | \$ - | | \$ - |
| MAINTENANCE (35% of Construction BMPs) | | | | | = | \$ 19,513.90 | \$ 19,513.90 |
| Section 1 Subtotal | | | | | = | \$ 131,630.64 | \$ 131,630.64 |
| SECTION 2 - PUBLIC IMPROVEMENTS * | | | | | | | |
| ROADWAY IMPROVEMENTS | | | | | | | |
| Construction Traffic Control | | LS | | = | \$ - | | \$ - |
| Aggregate Base Course (135 lbs/cf) | | Tons | \$ 37.00 | = | \$ - | | \$ - |
| Aggregate Base Course (135 lbs/cf) | 409 | CY | \$ 66.00 | = | \$ 26,971.01 | | \$ 26,971.01 |
| Asphalt Pavement (3" thick) | | SY | \$ 18.00 | = | \$ - | | \$ - |
| Asphalt Pavement (4" thick) | 2452 | SY | \$ 25.00 | = | \$ 61,297.75 | | \$ 61,297.75 |
| Asphalt Pavement (6" thick) | | SY | \$ 38.00 | = | \$ - | | \$ - |
| Asphalt Pavement (147 lbs/cf) ___" thick | | Tons | \$ 114.00 | = | \$ - | | \$ - |
| Raised Median, Paved | | SF | \$ 11.00 | = | \$ - | | \$ - |
| Regulatory Sign/Advisory Sign | | EA | \$ 392.00 | = | \$ - | | \$ - |
| Guide/Street Name Sign | | EA | | = | \$ - | | \$ - |
| Epoxy Pavement Marking | | SF | \$ 17.00 | = | \$ - | | \$ - |
| Thermoplastic Pavement Marking | | SF | \$ 30.00 | = | \$ - | | \$ - |
| Barricade - Type 3 | | EA | \$ 259.00 | = | \$ - | | \$ - |
| Delineator - Type I | | EA | \$ 31.00 | = | \$ - | | \$ - |
| Curb and Gutter, Type A (6" Vertical) | | LF | \$ 38.00 | = | \$ - | | \$ - |
| Curb and Gutter, Type B (Median) | | LF | \$ 38.00 | = | \$ - | | \$ - |
| Curb and Gutter, Type C (Ramp) | | LF | \$ 38.00 | = | \$ - | | \$ - |
| 4" Sidewalk (common areas only) | | SY | \$ 62.00 | = | \$ - | | \$ - |
| 5" Sidewalk | | SY | \$ 77.00 | = | \$ - | | \$ - |
| 6" Sidewalk | | SY | \$ 94.00 | = | \$ - | | \$ - |
| 8" Sidewalk | | SY | \$ 125.00 | = | \$ - | | \$ - |
| Pedestrian Ramp | | EA | \$ 1,496.00 | = | \$ - | | \$ - |
| Cross Pan, local (8" thick, 6' wide to include return) | | LF | \$ 79.00 | = | \$ - | | \$ - |
| Cross Pan, collector (9" thick, 8' wide to include return) | | LF | \$ 119.00 | = | \$ - | | \$ - |
| Curb Opening with Drainage Chase | | EA | \$ 1,926.00 | = | \$ - | | \$ - |
| Guardrail Type 3 (W-Beam) | | LF | \$ 65.00 | = | \$ - | | \$ - |
| Guardrail Type 7 (Concrete) | | LF | \$ 94.00 | = | \$ - | | \$ - |
| Guardrail End Anchorage | | EA | \$ 2,731.00 | = | \$ - | | \$ - |
| Guardrail Impact Attenuator | | EA | \$ 4,902.00 | = | \$ - | | \$ - |
| Sound Barrier Fence (CMU block, 6' high) | | LF | \$ 102.00 | = | \$ - | | \$ - |
| Sound Barrier Fence (panels, 6' high) | | LF | \$ 104.00 | = | \$ - | | \$ - |
| Electrical Conduit, Size = | | LF | \$ 22.00 | = | \$ - | | \$ - |
| Traffic Signal, (provide engineer's estimate) | | EA | | = | \$ - | | \$ - |

PROJECT INFORMATION

Grandview Reserve Dual Force Main
Project Name

9/26/2024
Date

PPR2421
PCD File No.

| Description | Quantity | Units | Unit Cost | = | \$ | Total | (with Pre-Plat Construction) | | |
|--|----------|-------|--------------|---|----------|-----------|------------------------------|-------------|------------------|
| | | | | | | | % Complete | Remaining | |
| <i>[insert items not listed but part of construction plans]</i> | | | | = | \$ | - | | \$ - | |
| <i>[insert items not listed but part of construction plans]</i> | | | | = | \$ | - | | \$ - | |
| STORM DRAIN IMPROVEMENTS | | | | | | | | | |
| Concrete Box Culvert (M Standard), Size (W x H) | | LF | | = | \$ | - | | \$ - | |
| 18" Reinforced Concrete Pipe | 32 | LF | \$ 82.00 | = | \$ | 2,624.00 | | \$ 2,624.00 | |
| 24" Reinforced Concrete Pipe | 16 | LF | \$ 98.00 | = | \$ | 1,568.00 | | \$ 1,568.00 | |
| 30" Reinforced Concrete Pipe | | LF | \$ 123.00 | = | \$ | - | | \$ - | |
| 36" Reinforced Concrete Pipe | | LF | \$ 151.00 | = | \$ | - | | \$ - | |
| 42" Reinforced Concrete Pipe | | LF | \$ 201.00 | = | \$ | - | | \$ - | |
| 48" Reinforced Concrete Pipe | | LF | \$ 245.00 | = | \$ | - | | \$ - | |
| 54" Reinforced Concrete Pipe | | LF | \$ 320.00 | = | \$ | - | | \$ - | |
| 60" Reinforced Concrete Pipe | | LF | \$ 374.00 | = | \$ | - | | \$ - | |
| 66" Reinforced Concrete Pipe | | LF | \$ 433.00 | = | \$ | - | | \$ - | |
| 72" Reinforced Concrete Pipe | | LF | \$ 495.00 | = | \$ | - | | \$ - | |
| 18" Corrugated Steel Pipe | | LF | \$ 105.00 | = | \$ | - | | \$ - | |
| 24" Corrugated Steel Pipe | | LF | \$ 121.00 | = | \$ | - | | \$ - | |
| 30" Corrugated Steel Pipe | | LF | \$ 154.00 | = | \$ | - | | \$ - | |
| 36" Corrugated Steel Pipe | | LF | \$ 184.00 | = | \$ | - | | \$ - | |
| 42" Corrugated Steel Pipe | | LF | \$ 212.00 | = | \$ | - | | \$ - | |
| 48" Corrugated Steel Pipe | | LF | \$ 223.00 | = | \$ | - | | \$ - | |
| 54" Corrugated Steel Pipe | | LF | \$ 327.00 | = | \$ | - | | \$ - | |
| 60" Corrugated Steel Pipe | | LF | \$ 353.00 | = | \$ | - | | \$ - | |
| 66" Corrugated Steel Pipe | | LF | \$ 427.00 | = | \$ | - | | \$ - | |
| 72" Corrugated Steel Pipe | | LF | \$ 502.00 | = | \$ | - | | \$ - | |
| 78" Corrugated Steel Pipe | | LF | \$ 578.00 | = | \$ | - | | \$ - | |
| 84" Corrugated Steel Pipe | | LF | \$ 691.00 | = | \$ | - | | \$ - | |
| Flared End Section (FES) RCP Size = 24 <i>(unit cost = 6x pipe unit cost)</i> | 2. | EA | \$ 588.00 | = | \$ | 1,176.00 | | \$ 1,176.00 | |
| 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 | \$ 7,212.00 | = | \$ | - | | \$ - | |
| Curb Inlet (Type R) L=5', 5' ≤ Depth < 10' | | EA | \$ 9,377.00 | = | \$ | - | | \$ - | |
| Curb Inlet (Type R) L =5', 10' ≤ Depth < 15' | | EA | \$ 10,859.00 | = | \$ | - | | \$ - | |
| Curb Inlet (Type R) L =10', Depth < 5' | | EA | \$ 9,925.00 | = | \$ | - | | \$ - | |
| Curb Inlet (Type R) L =10', 5' ≤ Depth < 10' | | EA | \$ 10,230.00 | = | \$ | - | | \$ - | |
| Curb Inlet (Type R) L =10', 10' ≤ Depth < 15' | | EA | \$ 12,805.00 | = | \$ | - | | \$ - | |
| Curb Inlet (Type R) L =15', Depth < 5' | | EA | \$ 12,907.00 | = | \$ | - | | \$ - | |
| Curb Inlet (Type R) L =15', 5' ≤ Depth < 10' | | EA | \$ 13,835.00 | = | \$ | - | | \$ - | |
| Curb Inlet (Type R) L =15', 10' ≤ Depth < 15' | | EA | \$ 15,130.00 | = | \$ | - | | \$ - | |
| Curb Inlet (Type R) L =20', Depth < 5' | | EA | \$ 13,755.00 | = | \$ | - | | \$ - | |
| Curb Inlet (Type R) L =20', 5' ≤ Depth < 10' | | EA | \$ 15,181.00 | = | \$ | - | | \$ - | |
| Grated Inlet (Type C), Depth < 5' | | EA | \$ 6,037.00 | = | \$ | - | | \$ - | |
| Grated Inlet (Type D), Depth < 5' | | EA | \$ 7,458.00 | = | \$ | - | | \$ - | |
| Storm Sewer Manhole, Box Base | | EA | \$ 15,130.00 | = | \$ | - | | \$ - | |
| Storm Sewer Manhole, Slab Base | | EA | \$ 8,322.00 | = | \$ | - | | \$ - | |
| Geotextile (Erosion Control) | | SY | \$ 9.00 | = | \$ | - | | \$ - | |
| Rip Rap, d50 size from 6" to 24" | | Tons | \$ 104.00 | = | \$ | - | | \$ - | |
| Rip Rap, Grouted | | Tons | \$ 124.00 | = | \$ | - | | \$ - | |
| Drainage Channel Construction, Size (W x H) | | LF | | = | \$ | - | | \$ - | |
| Drainage Channel Lining, Concrete | | CY | \$ 741.00 | = | \$ | - | | \$ - | |
| Drainage Channel Lining, Rip Rap | | CY | \$ 145.00 | = | \$ | - | | \$ - | |
| Drainage Channel Lining, Grass | | AC | \$ 1,911.00 | = | \$ | - | | \$ - | |
| Drainage Channel Lining, Other Stabilization | | | | = | \$ | - | | \$ - | |
| <i>[insert items not listed but part of construction plans]</i> | | | | = | \$ | - | | \$ - | |
| <i>[insert items not listed but part of construction plans]</i> | | | | = | \$ | - | | \$ - | |
| Section 2 Subtotal | | | | | = | \$ | 93,636.80 | \$ | 93,636.76 |

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

PROJECT INFORMATION

| | | |
|--|------------------|---------------------|
| Grandview Reserve Dual Force Main | 9/26/2024 | PPR2421 |
| Project Name | Date | PCD File No. |

| Description | Quantity | Units | Unit Cost | | Total | (with Pre-Plat Construction) | | |
|--|----------|-------|--------------|---|-----------------|------------------------------|-----------------|------------------------|
| | | | | | | % Complete | Remaining | |
| SECTION 3 - COMMON DEVELOPMENT IMPROVEMENTS (Private or District and NOT Maintained by EPC)** | | | | | | | | |
| ROADWAY IMPROVEMENTS | | | | | | | | |
| | | | | = | \$ - | | \$ - | |
| | | | | = | \$ - | | \$ - | |
| | | | | = | \$ - | | \$ - | |
| | | | | = | \$ - | | \$ - | |
| | | | | = | \$ - | | \$ - | |
| | | | | = | \$ - | | \$ - | |
| | | | | = | \$ - | | \$ - | |
| STORM DRAIN IMPROVEMENTS (Exception: Permanent Pond/BMP shall be itemized under Section 1) | | | | | | | | |
| | | | | = | \$ - | | \$ - | |
| | | | | = | \$ - | | \$ - | |
| | | | | = | \$ - | | \$ - | |
| | | | | = | \$ - | | \$ - | |
| | | | | = | \$ - | | \$ - | |
| | | | | = | \$ - | | \$ - | |
| WATER SYSTEM IMPROVEMENTS | | | | | | | | |
| Water Main Pipe (PVC), Size 8" | | LF | \$ 84.00 | = | \$ - | | \$ - | |
| Water Main Pipe (Ductile Iron), Size 8" | | LF | \$ 98.00 | = | \$ - | | \$ - | |
| Gate Valves, 8" | | EA | \$ 2,418.00 | = | \$ - | | \$ - | |
| Fire Hydrant Assembly, w/ all valves | | EA | \$ 8,584.00 | = | \$ - | | \$ - | |
| Water Service Line Installation, inc. tap and valves | | EA | \$ 1,723.00 | = | \$ - | | \$ - | |
| Fire Cistern Installation, complete | | EA | | = | \$ - | | \$ - | |
| | | | | = | \$ - | | \$ - | |
| | | | | = | \$ - | | \$ - | |
| <i>[insert items not listed but part of construction plans]</i> | | | | | | | | |
| | | | | = | \$ - | | \$ - | |
| SANITARY SEWER IMPROVEMENTS | | | | | | | | |
| Brine Force Main Pipe (PVC), Size 4" | 17521 | LF | \$ 62.00 | = | \$ 1,086,302.00 | | \$ 1,086,302.00 | |
| Force Main Pipe (PVC), Size 8" | 17481 | LF | \$ 84.00 | = | \$ 1,468,404.00 | | \$ 1,468,404.00 | |
| Sanitary Sewer Manhole, Depth < 15 feet | 1 | EA | \$ 5,708.00 | = | \$ 5,708.00 | | \$ 5,708.00 | |
| Air Release Vault | 5 | EA | \$ 25,000.00 | = | \$ 125,000.00 | | \$ 125,000.00 | |
| Sanitary Service Line Installation, complete | | EA | \$ 1,825.00 | = | \$ - | | \$ - | |
| Sanitary Sewer Lift Station, complete | | EA | | = | \$ - | | \$ - | |
| Force Main Pipe (PVC), Size 14" | 17481 | LF | \$ 123.00 | = | \$ 2,150,163.00 | | \$ 2,150,163.00 | |
| 8" Steel Casing Pipe W/ cathodic Protection | 650 | LF | \$ 105.00 | = | \$ 68,250.00 | | \$ 68,250.00 | |
| 12" PVC Steel Casing Pipe W/ cathodic Protection | 650 | LF | \$ 125.00 | = | \$ 81,250.00 | | \$ 81,250.00 | |
| 18" PVC Steel Casing Pipe W/ cathodic Protection | 650 | LF | \$ 150.00 | = | \$ 97,500.00 | | \$ 97,500.00 | |
| | | | | = | \$ - | | \$ - | |
| <i>[insert items not listed but part of construction plans]</i> | | | | | | | | |
| | | | | = | \$ - | | \$ - | |
| LANDSCAPING IMPROVEMENTS (For subdivision specific condition of approval, or PUD) | | | | | | | | |
| | | EA | | = | \$ - | | \$ - | |
| | | EA | | = | \$ - | | \$ - | |
| | | EA | | = | \$ - | | \$ - | |
| | | EA | | = | \$ - | | \$ - | |
| | | EA | | = | \$ - | | \$ - | |
| | | EA | | = | \$ - | | \$ - | |
| Section 3 Subtotal | | | | | = | \$ 5,082,577.00 | | \$ 5,082,577.00 |

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

PROJECT INFORMATION

| | | |
|--|------------------|---------------------|
| Grandview Reserve Dual Force Main | 9/26/2024 | PPR2421 |
| Project Name | Date | PCD File No. |

| Description | Quantity | Units | Unit Cost | Total | (with Pre-Plat Construction) | |
|--|----------|-------|-----------|--------|------------------------------|------------------------|
| | | | | | % Complete | Remaining |
| AS-BUILT PLANS (Public Improvements inc. Permanent WQCV BMPs) | | | | = \$ - | | \$ - |
| POND/BMP CERTIFICATION (inc. elevations and volume calculations) | | LS | | = \$ - | | \$ - |
| Total Construction Financial Assurance | | | | | | \$ 5,307,844.44 |
| (Sum of all section subtotals plus as-builts and pond/BMP certification) | | | | | | |
| Total Remaining Construction Financial Assurance (with Pre-Plat Construction) | | | | | | \$ 5,307,844.40 |
| (Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification) | | | | | | |
| Total Defect Warranty Financial Assurance | | | | | | \$ 29,999.91 |
| (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.

Engineer (P.E. Seal Required)

Approved by Owner / Applicant Date

Approved by El Paso County Engineer / ECM Administrator Date

Comment response for Financial Assurance Estimate Form

| Page No | Comments | Response |
|---------|---|---|
| 1 | Please provide estimates for: - Dual Force Main - Interceptor Sewer - Onsite Sanitary Sewer as provided in first submittal. | Added separate estimates for (in a single pdf) - Dual Force Main - Interceptor Sewer - Onsite Sanitary Sewer and lift station |