

# 2015 Financial Assurance Estimate Form

(Basic form)

12/18/2018

## Project Information

Les Schab Tire Meridian Crossing Filing NO.1

12/18/2018

Project Name

Date

| Section 1 - Grading and Erosion Control BMPs                   | Quantity | Units |   | Price                     |   |                     |
|----------------------------------------------------------------|----------|-------|---|---------------------------|---|---------------------|
| Earthwork*                                                     |          | CY    | @ | \$ 5                      | = | \$ *                |
| Permanent Seeding* (inc. noxious weed management)              | 1.00     | AC    | @ | \$ 582                    | = | \$ 582.00 *         |
| 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                                                   | 1,330.00 | LF    | @ | \$ 3                      | = | \$ 3,990.00         |
| Silt Fence                                                     | 735.00   | LF    | @ | \$ 4                      | = | \$ 2,940.00         |
| Temporary Seeding                                              |          | AC    | @ | \$ 485                    | = | \$                  |
| Temporary Mulch                                                |          | AC    | @ | \$ 507                    | = | \$                  |
| Erosion Bales                                                  |          | EA    | @ | \$ 21                     | = | \$                  |
| Erosion Logs                                                   |          | LF    | @ | \$ 6                      | = | \$                  |
| Rock Ditch Checks                                              |          | EA    | @ | \$                        | = | \$                  |
| Inlet Protection                                               | 6.00     | EA    | @ | \$ 153                    | = | \$ 918.00           |
| Sediment Basin                                                 | 1.00     | EA    | @ | \$ 1,625                  | = | \$ 1,625.00         |
| Concrete Washout Basin                                         | 1.00     | EA    | @ | \$ 776                    | = | \$ 776.00           |
|                                                                |          |       | @ | \$                        | = | \$                  |
| Specified items subject to defect warranty financial assurance |          |       |   |                           |   |                     |
|                                                                |          |       |   | <b>Section 1 Subtotal</b> | = | <b>\$ 12,456.00</b> |

| Section 2 - Public Improvements**                | Quantity | Units |   | Price      |   |             |
|--------------------------------------------------|----------|-------|---|------------|---|-------------|
| <b>- Roadway Improvements</b>                    |          |       |   |            |   |             |
| Construction Traffic Control                     |          | LS    | @ | \$         | = | \$          |
| Aggregate Base Course                            |          | Tons  | @ | \$ 18      | = | \$          |
| Asphalt Pavement (*listed for concrete sidewalk) | 50.00    | Tons  | @ | \$ 65      | = | \$ 3,250.00 |
| Raised Median, Paved                             |          | SF    | @ | \$ 7       | = | \$          |
| Electrical Conduit, Size =                       |          | LF    | @ | \$ 14      | = | \$          |
| Traffic Signal, complete intersection            |          | EA    | @ | \$ 250,000 | = | \$          |
| Regulatory Sign                                  |          | EA    | @ | \$ 100     | = | \$          |
| Advisory Sign                                    |          | EA    | @ | \$ 100     | = | \$          |
| Guide/Street Name Sign                           |          | EA    | @ | \$         | = | \$          |
| Epoxy Pavement Marking                           |          | SF    | @ | \$ 12      | = | \$          |
| Thermoplastic Pavement Marking                   |          | SF    | @ | \$ 22      | = | \$          |
| Barricade - Type 3                               |          | EA    | @ | \$ 115     | = | \$          |
| Delineator (Type I)                              |          | EA    | @ | \$ 21      | = | \$          |
| Curb and Gutter, Type C (Ramp)                   |          | LF    | @ | \$ 21      | = | \$          |
| Curb and Gutter, Type A (6" Vertical)            |          | LF    | @ | \$ 16      | = | \$          |
| Curb and Gutter, Type B (Median)                 |          | LF    | @ | \$ 13      | = | \$          |
| Pedestrian Ramp                                  | 14.50    | SY    | @ | \$ 108     | = | \$ 1,566.00 |

Based on the submitted site plan and County standard detail for pedestrian ramps, one ramp should be approximately 5-7 square yards. Please update this quantity to more accurately reflect the amount of proposed ramps.

|                                                          |  |    |   |    |         |   |    |
|----------------------------------------------------------|--|----|---|----|---------|---|----|
| Cross Pan                                                |  | SY | @ | \$ | \$53    | = | \$ |
| Curb Chase                                               |  | EA | @ | \$ | \$1,300 | = | \$ |
| Guardrail Type 3 (W-Beam)                                |  | LF | @ | \$ | \$18    | = | \$ |
| Guardrail Type 7 (Concrete)                              |  | LF | @ | \$ | \$67    | = | \$ |
| Guardrail End Anchorage                                  |  | EA | @ | \$ | \$1,978 | = | \$ |
| Guardrail Impact Attenuator                              |  | EA | @ | \$ | \$3,564 | = | \$ |
| Sound Barrier Fence                                      |  | LF | @ | \$ | \$100   | = | \$ |
| Concrete Sidewalk 4" thick                               |  | SY | @ | \$ | \$55    | = | \$ |
|                                                          |  |    |   |    |         |   |    |
|                                                          |  |    |   |    |         |   |    |
| <b>- Storm Drain Improvements</b>                        |  |    |   |    |         |   |    |
| Concrete Box Culvert (M Standard), Size ( W x H )        |  | LF | @ | \$ |         | = | \$ |
| Reinforced Concrete Pipe (RCP)                      Size |  | LF | @ | \$ |         | = | \$ |
| 18" Reinforced Concrete Pipe                             |  | LF | @ | \$ | \$69    | = | \$ |
| 24" Reinforced Concrete Pipe                             |  | LF | @ | \$ | \$84    | = | \$ |
| 30" Reinforced Concrete Pipe                             |  | LF | @ | \$ | \$94    | = | \$ |
| 36" Reinforced Concrete Pipe                             |  | LF | @ | \$ | \$124   | = | \$ |
| 42" Reinforced Concrete Pipe                             |  | LF | @ | \$ | \$134   | = | \$ |
| 48" Reinforced Concrete Pipe                             |  | LF | @ | \$ | \$178   | = | \$ |
| 54" Reinforced Concrete Pipe                             |  | LF | @ | \$ | \$182   | = | \$ |
| 60" Reinforced Concrete Pipe                             |  | LF | @ | \$ | \$216   | = | \$ |
| 66" Reinforced Concrete Pipe                             |  | LF | @ | \$ | \$263   | = | \$ |
| 72" Reinforced Concrete Pipe                             |  | LF | @ | \$ | \$283   | = | \$ |
| Corrugated Steel Pipe (CSP)                      Size    |  | LF | @ | \$ |         | = | \$ |
| 18" Corrugated Steel Pipe                                |  | LF | @ | \$ | \$66    | = | \$ |
| 24" Corrugated Steel Pipe                                |  | LF | @ | \$ | \$96    | = | \$ |
| 30" Corrugated Steel Pipe                                |  | LF | @ | \$ | \$101   | = | \$ |
| 36" Corrugated Steel Pipe                                |  | LF | @ | \$ | \$136   | = | \$ |
| 42" Corrugated Steel Pipe                                |  | LF | @ | \$ | \$147   | = | \$ |
| 48" Corrugated Steel Pipe                                |  | LF | @ | \$ | \$169   | = | \$ |
| 54" Corrugated Steel Pipe                                |  | LF | @ | \$ | \$193   | = | \$ |
| 60" Corrugated Steel Pipe                                |  | LF | @ | \$ | \$227   | = | \$ |
| 66" Corrugated Steel Pipe                                |  | LF | @ | \$ | \$278   | = | \$ |
| 72" Corrugated Steel Pipe                                |  | LF | @ | \$ | \$330   | = | \$ |
| 78" Corrugated Steel Pipe                                |  | LF | @ | \$ | \$381   | = | \$ |
| 84" Corrugated Steel Pipe                                |  | LF | @ | \$ | \$432   | = | \$ |
| Flared End Section (FES) RCP                      †      |  | EA | @ | \$ |         | = | \$ |
| Flared End Section (FES) CSP                      †      |  | EA | @ | \$ |         | = | \$ |
| End Treatment- Headwall                                  |  | EA | @ | \$ |         | = | \$ |
| End Treatment- Wingwall                                  |  | EA | @ | \$ |         | = | \$ |
| End Treatment - Cutoff Wall                              |  | EA | @ | \$ |         | = | \$ |
| Curb Inlet (Type R) L=5', Depth < 5 feet                 |  | EA | @ | \$ | \$3,791 | = | \$ |
| Curb Inlet (Type R) L=5', 5'-10' Depth                   |  | EA | @ | \$ | \$5,044 | = | \$ |
| Curb Inlet (Type R) L =5' , 10'-15' Depth                |  | EA | @ | \$ | \$6,027 | = | \$ |
| Curb Inlet (Type R) L =10', Depth < 5 feet               |  | EA | @ | \$ | \$5,528 | = | \$ |
| Curb Inlet (Type R) L =10' , 5'-10' Depth                |  | EA | @ | \$ | \$6,694 | = | \$ |
| Curb Inlet (Type R) L =10' , 10'-15' Depth               |  | EA | @ | \$ | \$7,500 | = | \$ |
| Curb Inlet (Type R) L =15' , Depth < 5 feet              |  | EA | @ | \$ | \$7,923 | = | \$ |
| Curb Inlet (Type R) L =15' , 5'-10' Depth                |  | EA | @ | \$ | \$8,000 | = | \$ |
| Curb Inlet (Type R) L =15' , 10'-15' Depth               |  | EA | @ | \$ | \$8,800 | = | \$ |
| Curb Inlet (Type R) L =20' , Depth < 5 feet              |  | EA | @ | \$ | \$8,000 | = | \$ |
| Curb Inlet (Type R) L =20' , 5'-10' Depth                |  | EA | @ | \$ | \$8,830 | = | \$ |
| Curb Inlet (Type R) L = ____', __' - __' Depth           |  | EA | @ | \$ |         | = | \$ |

|                                                                                                                                |      |                           |   |          |   |                |
|--------------------------------------------------------------------------------------------------------------------------------|------|---------------------------|---|----------|---|----------------|
| Curb Inlet (Type R) L = _____', ___' - ___' Depth                                                                              |      | EA                        | @ | \$       | = | \$             |
| Grated Inlet (Type C), < 5' deep                                                                                               |      | EA                        | @ | \$ 3,270 | = | \$             |
| Grated Inlet (Type D), < 5' deep                                                                                               |      | EA                        | @ | \$ 3,908 | = | \$             |
| Storm Sewer Manhole, Box Base, Depth < 15 feet                                                                                 |      | EA                        | @ | \$ 8,592 | = | \$             |
| Storm Sewer Manhole, Slab Base, Depth < 15 feet                                                                                |      | EA                        | @ | \$ 4,575 | = | \$             |
| Geotextile (Erosion Control)                                                                                                   |      | SY                        | @ | \$ 5     | = | \$             |
| Rip Rap, d50 Size from 6" to 24"                                                                                               |      | CY                        | @ | \$ 98    | = | \$             |
| Rip Rap, Grouted                                                                                                               |      | CY                        | @ | \$ 215   | = | \$             |
| Drainage Channel Construction, Size ( W x H )                                                                                  |      | LF                        | @ | \$       | = | \$             |
| Channel Lining, Concrete                                                                                                       |      | CY                        | @ | \$ 450   | = | \$             |
| Channel Lining, Rip Rap                                                                                                        |      | CY                        | @ | \$ 98    | = | \$             |
| Channel Lining, Grass                                                                                                          |      | AC                        | @ | \$ 1,287 | = | \$             |
| Channel Lining, Other Stabilization                                                                                            |      | SY                        | @ | \$ 3     | = | \$             |
| Detention Outlet Structure                                                                                                     |      | EA                        | @ | \$       | = | \$             |
| Detention Emergency Spillway                                                                                                   |      | EA                        | @ | \$       | = | \$             |
| Permanent Water Quality Facility (Describe)                                                                                    | 2.00 | EA                        | @ | \$ 1,000 | = | \$ 2,000.00    |
| One Time Maintenance Pond PLD / Permanent Pond A                                                                               |      |                           |   |          |   |                |
| **all items this section subject to defect warranty financial assurance. † For flared end sections, multiply pipe LF cost by 6 |      |                           |   |          |   |                |
|                                                                                                                                |      | <b>Section 2 Subtotal</b> |   |          | = | \$ 6,816.00 ** |

| <b>Section 3 - Common Development Improvements<br/>(Private or District)***</b>                                                       | <b>Quantity</b> | <b>Units</b> |   | <b>Price</b>              |   |              |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------|---|---------------------------|---|--------------|
| <b><u>- Roadway Improvements</u></b>                                                                                                  |                 |              |   |                           |   |              |
| (Include any applicable items from above Public<br>Improvements list, that are to be private and NOT<br>maintained by El Paso County) |                 |              | @ | \$                        | = | \$           |
|                                                                                                                                       |                 |              | @ | \$                        | = | \$           |
|                                                                                                                                       |                 |              | @ | \$                        | = | \$           |
|                                                                                                                                       |                 |              | @ | \$                        | = | \$           |
|                                                                                                                                       |                 |              | @ | \$                        | = | \$           |
|                                                                                                                                       |                 |              | @ | \$                        | = | \$           |
|                                                                                                                                       |                 |              |   |                           |   |              |
| <b><u>- Storm Drain Improvements</u></b>                                                                                              |                 |              |   |                           |   |              |
| (Include any applicable items from above Public<br>Improvements list, that are to be private and NOT<br>maintained by El Paso County) |                 |              | @ | \$                        | = | \$           |
|                                                                                                                                       |                 |              | @ | \$                        | = | \$           |
|                                                                                                                                       |                 |              | @ | \$                        | = | \$           |
| Cross Pan                                                                                                                             | 67.00           | SY           | @ | \$ \$53                   | = | \$ 3,551.00  |
| 24" Reinforced Concrete Pipe                                                                                                          | 15.00           | LF           | @ | \$ \$84                   | = | \$ 1,260.00  |
| Drainage Channel Construction, Size ( 5 x 1 )                                                                                         | 291.00          | LF           | @ | \$ \$20                   | = | \$ 5,820.00  |
| Concrete Sidewalk 4" thick                                                                                                            | 411.00          | SY           | @ | \$ \$55                   | = | \$ 22,605.00 |
| <b><u>- Water System Improvements</u></b>                                                                                             |                 |              |   |                           |   |              |
| 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, inc. tap & valves                                                                                    |                 | EA           | @ | \$ \$1,253                | = | \$           |
| Fire Cistern Installation, complete                                                                                                   |                 | EA           | @ | \$                        | = | \$           |
|                                                                                                                                       |                 |              |   |                           |   |              |
| <b><u>- Sanitary Sewer Improvements</u></b>                                                                                           |                 |              |   |                           |   |              |
| 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           | @ | \$                        | = | \$           |
|                                                                                                                                       |                 |              |   |                           |   |              |
| <b><u>- Landscaping (If Applicable)</u></b>                                                                                           |                 |              |   |                           |   |              |
| (List landscaping line items and cost - usually only in case<br>of subdivision specific condition of approval, or PUD)                |                 | EA           | @ | \$                        | = | \$           |
|                                                                                                                                       |                 | EA           | @ | \$                        | = | \$           |
| Revegation of Existing Pond PLD                                                                                                       | 1.00            | EA           | @ | \$ 2,000                  | = | \$ 2,000.00  |
|                                                                                                                                       |                 | EA           | @ | \$                        | = | \$           |
|                                                                                                                                       |                 | EA           | @ | \$                        | = | \$           |
|                                                                                                                                       |                 |              |   |                           |   |              |
| ***items in this section are not subject to defect warranty<br>financial assurance                                                    |                 |              |   |                           |   |              |
|                                                                                                                                       |                 |              |   | <b>Section 3 Subtotal</b> | = | \$ 35,236.00 |

**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                                         | =  | \$ 54,508.00 |
|                                                                                 | (Sum of all Section Totals)                                                    |    |              |
|                                                                                 |                                                                                |    |              |
|                                                                                 | Public Improvements Total* **                                                  | \$ | 7,398.00     |
|                                                                                 | Defect Warranty Financial Assurance Total                                      | =  | \$ 1,479.60  |
|                                                                                 | (20%of Section 2 Subtotal and 20% of identified Grading and Erosion BMP items) |    |              |
|                                                                                 |                                                                                |    |              |

**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 |
| (P.E. Seal)                                            |      |
| Approved by Owner / Applicant                          | Date |
| Approved by El Paso Couny Engineer / ECM Administrator | Date |