

**CITY OF HARRISONBURG, VA**  
**BONDING UNIT COSTS**  
Form Updated August 2025

|                |  |
|----------------|--|
| PROJECT NAME:  |  |
| ESTIMATE DATE: |  |

ITEMS WITH \$0.00 UNIT PRICE ARE TO BE NEGOTIATED BASED ON PROJECT  
SIGNIFICANT OTHER ITEMS NOT LISTED ARE TO BE NEGOTIATED BASED ON PROJECT

| <u>No.</u>                        | <u>Description</u>                           | <u>Est. Quant.</u> | <u>Unit</u>       | <u>Unit Cost</u> | <u>Extended Cost</u> |
|-----------------------------------|--|--------------------|-------------------|------------------|----------------------|
| <b>Category - Roadway Items</b>   |  |                    |                   |                  |                      |
| R-1                               | Clearing & Grubbing                          | 0                  | AC                | \$10,000.00      | \$0.00               |
| R-2                               | Traffic Control                              | 0                  | Lump Sum          | <b>\$0.00</b>    | \$0.00               |
| R-3                               | Flexible Pavement Planing                    | 0                  | SY                | \$28.00          | \$0.00               |
| R-4                               | Remove Ex. Guardrail, incl. posts&hardware   | 0                  | LF                | \$3.30           | \$0.00               |
| R-5                               | Demolition of Pavement                       | 0                  | SY                | \$48.00          | \$0.00               |
| R-6                               | Pavement Saw Cutting                         | 0                  | LF                | \$15.00          | \$0.00               |
| R-7                               | Common Excavation                            | 0                  | CY                | \$38.25          | \$0.00               |
| R-8                               | Rock Excavation (10% of total exc. vol.)     | 0                  | CY                | \$236.75         | \$0.00               |
| R-9                               | Geotechnical Testing                         | 0                  | 1000 LF of Street | \$300.00         | \$0.00               |
| R-10                              | Aggregate, Type 21-A                         | 0                  | SY-IN             | \$2.40           | \$0.00               |
| R-11                              | Asphaltic Concrete Base BM-25.0              | 0                  | SY-IN             | \$13.50          | \$0.00               |
| R-12                              | Asphaltic Concrete Surface SM-12.5A          | 0                  | SY-IN             | \$15.00          | \$0.00               |
| R-13                              | Asphaltic Concrete Surface SM-19.0A          | 0                  | SY-IN             | \$22.00          | \$0.00               |
| R-14                              | Pavement Marking and Signage                 | 0                  | Lump Sum          | <b>\$0.00</b>    | \$0.00               |
| R-15                              | CG-6 Curb & Gutter, incl. CG-11              | 0                  | LF                | \$50.00          | \$0.00               |
| R-16                              | Entrance Gutter, CG-9B, 9D or 10A            | 0                  | SY                | \$100.00         | \$0.00               |
| R-17                              | Conc. Sidewalk, Incl. Stone Base             | 0                  | SY                | \$75.00          | \$0.00               |
| R-18                              | Curb Cut Ramp, CG-12A, B ,C                  | 0                  | EA                | \$1,500.00       | \$0.00               |
| R-19                              | Retaining Wall, RW-3 or other                | 0                  | SF Face           | \$170.00         | \$0.00               |
| R-20                              | HR-1 Hand Rail, Pipe Type Only               | 0                  | LF                | \$490.00         | \$0.00               |
| R-21                              | Guardrail, GR-2 Steel Post                   | 0                  | LF                | \$32.00          | \$0.00               |
| R-22                              | Guardrail Terminal, GR-7 or 9                | 0                  | EA                | \$4,200.00       | \$0.00               |
| R-23                              | Utility Pole Relocation                      | 0                  | EA                | \$16,800.00      | \$0.00               |
| <b>Sub-Total - Roadway Items</b>  |  |                    |                   |                  | <b>\$0.00</b>        |
| <b>Category - Drainage Items</b>  |  |                    |                   |                  |                      |
| D-1                               | DI-1 / convex grate inlet                    | 0                  | EA                | \$3,600.00       | \$0.00               |
| D-2                               | DI-7   | 0                  | EA                | \$7,800.00       | \$0.00               |
| D-3                               | DI-3 (L= 4' - 8')                            | 0                  | EA                | \$8,600.00       | \$0.00               |
| D-4                               | DI-3 (L >= 10')                              | 0                  | EA                | \$10,000.00      | \$0.00               |
| D-5                               | DI-4   | 0                  | EA                | \$8,700.00       | \$0.00               |
| D-6                               | Storm Manhole w/ Frame & Cover               | 0                  | EA                | \$5,000.00       | \$0.00               |
| D-7                               | Storm Junction Box                           | 0                  | EA                | \$10,000.00      | \$0.00               |
| D-8                               | RCP Storm Pipe, Class III, 15-42 in.         | 0                  | LF - IN. DIA.     | \$5.00           | \$0.00               |
| D-9                               | RCP Storm Pipe, Class III, 48-60 in.         | 0                  | LF - IN. DIA.     | \$5.50           | \$0.00               |
| D-10                              | RCP Storm Pipe, Class III, 60+ in.           | 0                  | LF - IN. DIA.     | \$6.00           | \$0.00               |
| D-11                              | RCP Storm Pipe, Class IV, add                | 0                  | LF - IN. DIA.     | \$1.00           | \$0.00               |
| D-12                              | RCP Storm Pipe, Class V, add                 | 0                  | LF - IN. DIA.     | \$1.25           | \$0.00               |
| D-13                              | RCP Storm End Section                        | 0                  | EA - IN. DIA.     | \$74.00          | \$0.00               |
| D-14                              | Storm Endwalls                               | 0                  | SF Face           | \$170.00         | \$0.00               |
| D-15                              | RCP Storm Tee, Wye, etc.                     | 0                  | EA - IN. DIA.     | \$84.00          | \$0.00               |
| D-16                              | RCP Storm Bend                               | 0                  | EA - IN. DIA.     | \$67.00          | \$0.00               |
| D-17                              | Concrete Box Culvert                         | 0                  | CY                | \$925.00         | \$0.00               |
| D-18                              | Underdrain Type UD-3 or Crossdrail Type CD-2 | 0                  | LF                | \$38.00          | \$0.00               |
| <b>Sub-Total - Drainage Items</b> |  |                    |                   |                  | <b>\$0.00</b>        |

**Category - Erosion Control & Stormwater Management Items**

|       |   |   |                          |               |        |
|-------|---|---|--------------------------|---------------|--------|
| ES-1  | Class A1 Dry Riprap Incl. Filter Fabric                 | 0 | SY                       | \$100.00      | \$0.00 |
| ES-2  | Class 1 Dry Riprap Incl. Filter Fabric                  | 0 | SY                       | \$142.00      | \$0.00 |
| ES-3  | Class 2 Dry Riprap Incl. Filter Fabric                  | 0 | SY                       | \$152.00      | \$0.00 |
| ES-4  | Silt Fence or Diversion Dike                            | 0 | LF                       | \$5.00        | \$0.00 |
| ES-5  | Temporary Slope Drains                                  | 0 | EA                       | \$1,800.00    | \$0.00 |
| ES-6  | Inlet Protection, IP, all types                         | 0 | EA                       | \$365.00      | \$0.00 |
| ES-7  | Culvert Inlet Protection, CIP, all types                | 0 | EA                       | \$695.00      | \$0.00 |
| ES-8  | Rock Check Dam, CD                                      | 0 | EA                       | \$310.00      | \$0.00 |
| ES-9  | Topsoil, Seed & Mulch (entire disturbed area)           | 0 | AC                       | \$27,000.00   | \$0.00 |
| ES-10 | Sodding for Ditchlines & Swales                         | 0 | SY                       | \$7.50        | \$0.00 |
| ES-11 | EC-2 Protective Covering                                | 0 | SY                       | \$3.30        | \$0.00 |
| ES-12 | EC-3 Soil Stabilization Blanket                         | 0 | SY                       | \$12.60       | \$0.00 |
| ES-13 | Construction Entrance, CE                               | 0 | EA                       | \$6,600.00    | \$0.00 |
| ES-14 | Temporary Sediment Trap, ST                             | 0 | EA                       | \$5,500.00    | \$0.00 |
| ES-15 | Temporary Sediment Basin, SB                            | 0 | EA                       | \$12,000.00   | \$0.00 |
| ES-16 | Above Ground Detention Basin (Incl. Extended Detention) | 0 | CF Storage               | \$0.85        | \$0.00 |
| ES-17 | Below Ground Detention Basin                            | 0 | CF Pipe or Chamber Stor. | \$8.40        | \$0.00 |
| ES-18 | Constructed Wetlands                                    | 0 | CF Storage               | \$1.70        | \$0.00 |
| ES-19 | Bio-Retention Basin/Filter (incl. planting)             | 0 | EA                       | \$13,400.00   | \$0.00 |
| ES-20 | Sand Filter   | 0 | EA                       | \$25,200.00   | \$0.00 |
| ES-21 | Grassed Channel   | 0 | SY                       | \$10.00       | \$0.00 |
| ES-22 | Vegetated Filter Strip                                  | 0 | SY                       | \$92.75       | \$0.00 |
| ES-23 | Level Spreader  | 0 | LF                       | \$50.00       | \$0.00 |
| ES-24 | Paved Flume   | 0 | SY                       | \$550.00      | \$0.00 |
| ES-25 | Stream Crossing   | 0 | LS                       | <b>\$0.00</b> | \$0.00 |
| ES-26 | Turbidity Curtain                                       | 0 | LF                       | \$40.00       | \$0.00 |
| ES-27 | Safety Fence  | 0 | LF                       | \$5.00        | \$0.00 |
| ES-28 | Compost Filter Sock                                     | 0 | LF                       | \$14.00       | \$0.00 |
| ES-29 | Permeable Pavement                                      | 0 | SY                       | \$144.00      | \$0.00 |
| ES-30 | Gravel Diaphragm  | 0 | SF                       | \$7.50        | \$0.00 |
| ES-31 | Wet Swale   | 0 | SF                       | \$7.50        | \$0.00 |
| ES-32 | Dry Swale   | 0 | SF                       | \$10.00       | \$0.00 |
| ES-33 | Wet Pond  | 0 | CF Storage               | \$1.60        | \$0.00 |
| ES-34 | Compost Amendment                                       | 0 | CY                       | \$85.00       | \$0.00 |
| ES-35 | Tree Planting   | 0 | EA                       | \$620.00      | \$0.00 |
| ES-36 | Gabion  | 0 | CY                       | \$560.00      | \$0.00 |
| ES-37 | Drop Inlet Bio-Filter BMP                               | 0 | EA                       | \$32,000.00   | \$0.00 |
| ES-38 | Hydrodynamic Separator                                  | 0 | EA                       | \$30,000.00   | \$0.00 |
| ES-39 | Vault Filter System                                     | 0 | EA                       | \$50,000.00   | \$0.00 |

**Sub-Total - Erosion Control & Stormwater Management Items****\$0.00****Category - Water & Sewer Items**

|       |   |   |    |            |        |
|-------|---|---|----|------------|--------|
| WS-1  | 8" D.I. Water Main                            | 0 | LF | \$140.00   | \$0.00 |
| WS-2  | 10" D.I. Water Main                           | 0 | LF | \$145.00   | \$0.00 |
| WS-3  | 12" D.I. Water Main                           | 0 | LF | \$170.00   | \$0.00 |
| WS-4  | Fire Hydrant Assembly (incl. 6in. Valve)      | 0 | EA | \$5,600.00 | \$0.00 |
| WS-5  | Fire Hydrant Relocation                       | 0 | EA | \$5,600.00 | \$0.00 |
| WS-6  | 8" Gate Valve w/Box                           | 0 | EA | \$1,800.00 | \$0.00 |
| WS-7  | 10" Gate Valve w/Box                          | 0 | EA | \$2,700.00 | \$0.00 |
| WS-8  | 12" Gate Valve w/Box                          | 0 | EA | \$2,800.00 | \$0.00 |
| WS-9  | Air Release Valve & Vault                     | 0 | EA | \$4,200.00 | \$0.00 |
| WS-10 | Detector Check Valve & Vault                  | 0 | EA | \$5,900.00 | \$0.00 |
| WS-11 | 1" Partial Water Service                      | 0 | EA | \$2,700.00 | \$0.00 |
| WS-12 | 2" Water Service                              | 0 | EA | \$5,100.00 | \$0.00 |
| WS-13 | Misc. Fittings (Bend, Tee, etc.)              | 0 | EA | \$670.00   | \$0.00 |
| WS-14 | 8-12" PVC Sewer Main                          | 0 | LF | \$115.00   | \$0.00 |
| WS-15 | 8-12" D.I. Sewer Main                         | 0 | LF | \$150.00   | \$0.00 |
| WS-16 | 4' Dia. Manhole - Depth Six Feet or Less      | 0 | EA | \$4,300.00 | \$0.00 |
| WS-17 | 4' Dia. Manhole - Depth Greater than Six Feet | 0 | EA | \$6,500.00 | \$0.00 |

|       |                           |   |    |             |        |
|-------|---------------------------|---|----|-------------|--------|
| WS-18 | 5' Dia. Manhole           | 0 | EA | \$8,400.00  | \$0.00 |
| WS-19 | 6' Dia. Manhole           | 0 | EA | \$10,000.00 | \$0.00 |
| WS-20 | Manhole Frame & Cover     | 0 | EA | \$800.00    | \$0.00 |
| WS-21 | 4" & 6" PVC Sewer Lateral | 0 | LF | \$75.00     | \$0.00 |
| WS-22 | Cleanout                  | 0 | EA | \$1,000.00  | \$0.00 |

Sub-Total - Water & Sewer Items

\$0.00

Category - Landscaping

|      |                                 |   |    |            |        |
|------|---------------------------------|---|----|------------|--------|
| L-1  | Large Deciduous Tree            | 0 | EA | \$630.00   | \$0.00 |
| L-2  | Small/Ornamental Deciduous Tree | 0 | EA | \$375.00   | \$0.00 |
| L-3  | Evergreen Tree                  | 0 | EA | \$400.00   | \$0.00 |
| L-4  | Deciduous Shrub                 | 0 | EA | \$60.00    | \$0.00 |
| L-5  | Evergreen Shrub                 | 0 | EA | \$67.00    | \$0.00 |
| L-6  | Vinyl 2-Rail Fence              | 0 | LF | \$43.00    | \$0.00 |
| L-7  | Vinyl 6ft Privacy Fence         | 0 | LF | \$51.00    | \$0.00 |
| L-8  | Wood 2-Rail Fence               | 0 | LF | \$30.00    | \$0.00 |
| L-9  | Wood 6-ft Privacy Fence         | 0 | LF | \$88.00    | \$0.00 |
| L-10 | Bicycle Racks                   | 0 | EA | \$900.00   | \$0.00 |
| L-11 | Dumpster Screening              | 0 | EA | \$6,600.00 | \$0.00 |

Sub-Total - Landscaping

\$0.00

Category - Proffered Items

|     |               |   |    |        |        |
|-----|---------------|---|----|--------|--------|
| P-1 | <Description> | 0 | LS | \$0.00 | \$0.00 |
| P-2 | <Description> | 0 | LS | \$0.00 | \$0.00 |
| P-3 | <Description> | 0 | LS | \$0.00 | \$0.00 |

Sub-Total - Proffered Items

\$0.00

SUB-TOTAL ALL ITEMS

\$0.00

ENGINEERING AND ADMINISTRATIVE CONTINGENCY (15%)

\$0.00

GRAND TOTAL

\$0.00

RECOMMENDED BOND AMOUNT