



Howells and Baird, Inc.

CIVIL ENGINEERS AND SURVEYORS

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Project: COL-Duquesne Street Sidewalk

Owner: City of Columbiana

OPINION OF PROBABLE CONSTRUCTION COST

Date: December 31, 2023

| Ref. No. | Item No. | Item Description | Unit | Quantity | Labor & Material Unit Price | Bid Amount |
|----------|-----------|--|------|----------|-----------------------------|-------------|
| | | Roadway | | | | |
| 1 | 201E11000 | Clearing & Grubbing | Lump | 1 | \$10,000.00 | \$10,000.00 |
| 2 | 201E21801 | Tree Removal, 18" Size w/ 9'Ø Brick Planter Removed, As Per Plan | Each | 1 | \$1,000.00 | \$1,000.00 |
| 3 | 201E26510 | 30" Stump Removed | Each | 1 | \$600.00 | \$600.00 |
| 4 | 202E98100 | Removal Misc.: 2'Ø Rock Removed | Each | 1 | \$300.00 | \$300.00 |
| 5 | 202E30000 | Walk Removed | SF | 86 | \$5.00 | \$430.00 |
| 6 | 202E32000 | Curb Removed | LF | 11 | \$10.00 | \$110.00 |
| 7 | 202E98100 | Removal Misc.: Rock Planter Removed | Each | 2 | \$400.00 | \$800.00 |
| 8 | 202E58101 | Catch Basin Removed, As Per Plan, 10" Sq. Plastic | Each | 1 | \$250.00 | \$250.00 |
| 9 | 202E98100 | Removal Misc.: Mailbox Removed and Relocated | Each | 18 | \$150.00 | \$2,700.00 |
| 10 | 611E99654 | Manhole Adjusted to Grade | Each | 2 | \$1,200.00 | \$2,400.00 |
| 11 | 630E85100 | Removal of Ground Mounted Sign and Re-Erection | Each | 5 | \$75.00 | \$375.00 |
| 12 | 203E10000 | Excavation | CY | 353 | \$40.00 | \$14,120.00 |
| 13 | 203E20000 | Embankment | CY | 16 | \$45.00 | \$720.00 |
| 14 | 204E10000 | Subgrade Compaction | SY | 1499 | \$2.00 | \$2,998.00 |
| | | Drainage | | | | |
| 15 | 611E98470 | Standard No. 2-2B Catch Basin | Each | 2 | \$2,500.00 | \$5,000.00 |
| 16 | 611E98690 | Catch Basin Misc.: Yard Drain, As Per Plan | Each | 1 | \$800.00 | \$800.00 |
| 17 | 611E04400 | 12" Conduit, Type "B" (707.33) | FT | 156 | \$80.00 | \$12,480.00 |
| 18 | 611E97200 | Conduit Misc.: 8"x 8"x 6" Wye (707.33) | Each | 1 | \$100.00 | \$100.00 |
| 19 | 611E97200 | Conduit Misc.: 8" Cap (707.33) | Each | 1 | \$50.00 | \$50.00 |
| 20 | 611E00900 | 6" Conduit, Type "B" (707.33) | FT | 1 | \$35.00 | \$35.00 |
| 21 | 611E00900 | 6" Conduit, Type "B" | FT | 100 | \$35.00 | \$3,500.00 |
| 22 | 611E97200 | Conduit Misc.: 6"-45° Elbow (707.33) | Each | 1 | \$50.00 | \$50.00 |
| 23 | 611E00100 | 4" Conduit, Type "B" (707.33) | FT | 100 | \$30.00 | \$3,000.00 |
| | | Pavement | | | | |
| 24 | 304E20000 | 4" Aggregate Base | CY | 157 | \$75.00 | \$11,775.00 |
| 25 | 411E10000 | 8" Stabilized Crushed Aggregate | CY | 50 | \$70.00 | \$3,500.00 |

| Ref. No. | Item No. | Item Description | Unit | Quantity | Labor & Material Unit Price | Bid Amount |
|----------|-----------|--|--------|----------|-----------------------------|-------------|
| 26 | 441E70000 | 4" Asphalt Concrete Surface Course, Type 1 (449), PG 64-22 | CY | 1 | \$1,000.00 | \$1,000.00 |
| 27 | 451E13010 | 8" Reinforced Concrete Pavement, Class QC-1 | SY | 227 | \$130.00 | \$29,510.00 |
| 28 | 602E97000 | Masonry Misc.: Modular Block Wall | SF | 483 | \$72.50 | \$35,017.50 |
| 29 | 602E97000 | Masonry Misc.: Cap Unit | LF | 138 | \$60.00 | \$8,280.00 |
| 30 | 608E10000 | 4" Concrete Walk | SF | 8,870 | \$8.50 | \$75,395.00 |
| 31 | 608E13000 | 6" Concrete Walk | SF | 523 | \$10.50 | \$5,491.50 |
| 32 | 608E52000 | Curb Ramp | SF | 207 | \$30.50 | \$6,313.50 |
| 33 | 642E00620 | Cross Walk Line 12", Type 1 | FT | 149 | \$12.00 | \$1,788.00 |
| | | Structures | | | | |
| 34 | 530E00200 | Bridge Structure: Pedestrian Bridge | Lump | 1 | \$83,000.00 | \$83,000.00 |
| 35 | 518E21200 | Porous Backfill with Geotextile Fabric | CY | 4 | \$350.00 | \$1,400.00 |
| 36 | 518E40000 | 6" Perforated Corrugated Plastic Pipe | FT | 20 | \$35.00 | \$700.00 |
| 37 | 518E40011 | 6" Non-Perforated Plastic Pipe | FT | 60 | \$30.00 | \$1,800.00 |
| | | Incidentals | | | | |
| 38 | 614E11000 | Maintaining Traffic | Lump | 1 | \$20,000.00 | \$20,000.00 |
| 39 | 619E16000 | Field Office, Type A | Month | 3 | \$2,500.00 | \$7,500.00 |
| 40 | 624E10000 | Mobilization | Lump | 1 | \$25,000.00 | \$25,000.00 |
| 41 | 623E10000 | Construction Layout Stakes and Surveying | Lump | 1 | \$9,000.00 | \$9,000.00 |
| 42 | 638E10800 | Valve Box Adjust to Grade | Each | 14 | \$200.00 | \$2,800.00 |
| | | Erosion Control | | | | |
| 43 | 659E00500 | Seeding and Mulching, Class 1 | SY | 1473 | \$4.00 | \$5,892.00 |
| 44 | 659E20000 | Commercial Fertilizer | Ton | 0.07 | \$1,500.00 | \$105.00 |
| 45 | 659E31000 | Lime | Acre | 0.30 | \$400.00 | \$120.00 |
| 46 | 659E35000 | Water | M. Gal | 4 | \$65.00 | \$260.00 |
| 47 | 832E30000 | Erosion Control | Each | 2000 | \$1.00 | \$2,000.00 |

Subtotal \$399,465.50
 Contingencies: \$15,000.00
 Total: \$414,465.50

Prepared By:

Jon D. Vollnogle
 Jon D. Vollnogle, P.E. P.S

