

ENGINEER'S ESTIMATE

PROJECT: **Schirmer Parkway Trail Extension to River St. Joe Brewery**

CLIENT: **City of Buchanan**

DATE: **February 23, 2021**

The project would extend the City of Buchanan Trail System from the E.B. Clark Woods to the River Street/Walton Road Bridge over the Saint Joseph River. The trail along Schirmer Parkway would be 10' wide and cross both River Street and Schirmer Parkway and become 5.5' wide on the north and south sides of River Street. The trail would cross the Walton Road Bridge using the existing newly widened sidewalk, then continue to the proposed Buchanan Township Trail Head in the northeast quadrant of the intersection of E. Riverside and Walton Roads. The trail would continue east with a 10' wide path to River St. Joe Brewery. The 10' wide pavement sections would consist of 6" of aggregate base and 3" of HMA 36A. The 5.5' wide pavement section would consist of 6" of aggregate base and 4" of concrete. Also included in this estimate are pay items for an ADA compliant crossing of Schirmer Parkway, River Street and Walton Road, machine grading to establish the trail, pavement markings, guard rail to separate the trail from the road way fencing to separate the trail from the adjacent slopes, and miscellaneous signage.

| | | | |
|---------------------------------------|---|-----------|-----------|
| 1 L.S. Mobilization, Max \$60,000.00 | @ | 60,000.00 | 60,000.00 |
| 4,265 FT Shared use Path, Grading | @ | 15.00 | 63,975.00 |
| 50 CYD Subgrade Undercutting | @ | 12.00 | 600.00 |
| 5,500 SYD Aggregate Base 6" | @ | 6.00 | 33,000.00 |
| 635 TON HMA, 36A | @ | 105.00 | 66,675.00 |
| 7,000 Sft Sidewalk, Conc, 4 inch | @ | 5.00 | 35,000.00 |
| 120 FT Curb Ramp Opening, Conc | @ | 30.00 | 3,600.00 |
| 525 SFT Sidewalk Ramp, Conc, 6 inch | @ | 10.00 | 5,250.00 |
| 120 FT Curb and Gutter, Conc, Type C4 | @ | 25.00 | 3,000.00 |
| 60 FT Detectable Warning Surface | @ | 40.00 | 2,400.00 |
| 1,100 FT Pedestrian Guardrail | @ | 30.00 | 33,000.00 |
| 1,100 FT Guardrail, Type MGS-8 | @ | 20.00 | 22,000.00 |
| 1,100 FT Guardrail, Rem | @ | 2.00 | 2,200.00 |
| 1 L.S. Misc. Pavement Markings | @ | 7,500.00 | 7,500.00 |
| 1 L.S. Misc. Signage | @ | 5,000.00 | 5,000.00 |
| 1 L.S. Trail Head Signage | @ | 1,000.00 | 1,000.00 |
| 1 L.S. Minor Traffic Devices | @ | 5,000.00 | 5,000.00 |
| 2,000 SYD Restoration | @ | 2.00 | 4,000.00 |

| | | |
|--|-----|---------------------|
| SUBTOTAL ESTIMATED CONSTRUCTION COST | | \$353,200.00 |
| <i>Contingency</i> | 10% | <u>35,800.00</u> |
| TOTAL ESTIMATED CONSTRUCTION COST IN 2020 | | \$389,000.00 |
| <i>Total Inflation By 2023</i> | 3% | \$36,000.00 |
| <i>Design and Construction Engineering</i> | | <u>\$67,300.00</u> |
| TOTAL ESTIMATED CONSTRUCTION COST IN 2023 | | \$492,300.00 |

| | | |
|---|--|---------------------|
| Potential NATS Transportation Alternative Program Funds | | \$123,660.00 |
| Potential MDNR MNRTF Funds | | \$131,000.00 |
| Potential State Wide TAP Funds | | <u>\$131,000.00</u> |
| TOTAL ESTIMATED FUNDING | | \$385,660.00 |

| | |
|--|-------------------|
| Total Unfunded Project Costs After All State Grants are Awarded | 106,640.00 |
|--|-------------------|