

ENGINEER'S PRELIMINARY COST ESTIMATE

Wednesday, December 20, 2023

Village of Kronenwetter - Kronenwetter Dr. Reconstruction PHASE 1 (no Bridge Work)

Approx. 8,446 LF Road, existing 30 ft wide pavement

OVERALL PROJECT

STREET RECONSTRUCTION & DRAINAGE INFRASTRUCTURE



| | # | Item | Item Quantity | Units | Unit Cost | Total Cost |
|-----------------------------------|-----------|---|---------------|----------|-------------|--------------------|
| Project Development Costs | | | | | | |
| | a | Comprehensive Mapping & Surveying To-Date | ---- | --- | ---- | ---- |
| | b | Planning, Coordination, Engineering & Administration To-Date | ---- | --- | ---- | ---- |
| | c | Legal Services To-Date | ---- | --- | ---- | ---- |
| | d | Title Services To-Date | ---- | --- | ---- | ---- |
| | e | Land Acquisition (Prof. Fees & Land Rights) Estimate | ---- | --- | ---- | ---- |
| | T1 | Subtotal Project Development Costs | | | | \$0 |
| Roadway Construction Costs | | | | | | |
| | 1 | Erosion Control Items & Maintenance During Construction | 1 | Lump Sum | \$10,000.00 | \$10,000 |
| | 2 | Unclassified excavation for Roadway | 12,180 | CY | \$15.00 | \$182,700 |
| | 3 | Remove Asphalt Pavement, Main Roadway | 16,940 | SY | \$5.00 | \$84,700 |
| | 4 | Remove Asphalt Pavement, Side streets & Driveways | 3,290 | SY | \$5.00 | \$16,450 |
| | 5 | Remove Concrete Driveway | 165 | SY | \$7.00 | \$1,155 |
| | 6 | Remove existing culverts | 9 | EA | \$500.00 | \$4,500 |
| | 7 | Sawcut Asphalt Pavement | 405 | LF | \$1.50 | \$608 |
| | 8 | Topsoil removal | 10,000 | SY | \$2.50 | \$25,000 |
| | 9 | Unclassified Excavation for Driveways | 115 | CY | \$10.00 | \$1,150 |
| | 10 | Remove beam guard, Re-install | 1 | LS | \$5,000.00 | \$5,000 |
| | 11 | Medium Rip Rap over Fabric for Storm Sewer Endwalls | 150 | CY | \$75.00 | \$11,250 |
| | 12 | 3/4" Crushed Aggregate for Driveway as Needed | 100 | CY | \$50.00 | \$5,000 |
| | 13 | 18" Breaker Run | 10000 | CY | \$15.00 | \$150,000 |
| | 14 | Geogrid | 28154 | SY | \$3.00 | \$84,462 |
| | 15 | Open Graded Drainage Layer (Assume 50%) | 14000 | SY | \$20.00 | \$280,000 |
| | 16 | 1.5" Crushed Aggregate Base Course, 8" Compacted-Road & Intersections | 28154 | SY | \$8.00 | \$225,232 |
| | 17 | HMA Asphalt Pavement 1.5" Surface Course-Intersections | 28154 | SY | \$13.00 | \$366,002 |
| | 18 | HMA Asphalt Pavement 2.5" Binder Course-Intersections | 28154 | SY | \$15.00 | \$422,310 |
| | 19 | Hot Tar Butt Joint Sealer | 330 | LF | \$5.00 | \$1,650 |
| | 20 | 3/4" Crushed Aggregate for Road Shoulder, 2' wide x 6" thick | 380 | CY | \$50.00 | \$19,000 |
| | 21 | 6" Concrete Driveway | 165 | SY | \$25.00 | \$4,125 |
| | 22 | HMA Asphalt-2" for path & driveways | 150 | SY | \$20.00 | \$3,000 |
| | 23 | Topsoil, Seed & E-Mat all Disturbed areas, | 18768 | SY | \$2.75 | \$51,612 |
| | 24 | Install Base, Pole, & Fixture for Street Lights (Light Type Assumed) | 20 | EA | \$4,500.00 | \$90,000 |
| | 25 | Electrical in Conduit for Street Lights | 20 | LS | \$ 1,000.00 | \$20,000 |
| | 26 | Install 12" CMP & endwalls - Avg 40 LF | 9 | EA | \$ 1,500.00 | \$13,500 |
| | 27 | Traffic Control | 1 | LS | \$ 2,000.00 | \$2,000 |
| | 28 | Reset Valve lids & Manhole Covers | 1 | LS | \$ 5,000.00 | \$5,000 |
| | T2 | SubTotal Road Construction & Utility Costs | | | | \$2,085,000 |

| | | | | | | |
|----------------------------------|-----------|--|-----|---|------|--------------------|
| Percentage Allocations On | A1 | Performance & Payment bonds | 2 | % | ---- | \$41,700 |
| Construction Subtotal | A2 | Mobilization/Demobilization | 3 | % | ---- | \$62,600 |
| | A3 | Funding Requirements | 0.0 | % | ---- | \$0 |
| | A4 | Construction Contingencies | 20 | % | ---- | \$417,000 |
| | A5 | Geotechnical | 1 | % | ---- | \$20,900 |
| | A6 | Engineering, Permitting, Coordination, Construction Admin. | 4 | % | ---- | \$83,400 |
| | A7 | Surveying (Staking) & Legal | 2 | % | ---- | \$41,700 |
| | T3 | Subtotal on Construction Allocations | | | | \$700,000 |
| | T4 | TOTAL PROJECT SUBTOTAL | | | | \$2,800,000 |