

VILLAGE PARKWAY UPRR CROSSING IMPROVEMENTS
PROJECT NO. 2019.122
CITY OF LAKE ELMO, MINNESOTA



DATE: NOVEMBER 2024

| ENGINEER'S OPINION OF PROBABLE COST | VILLAGE PARKWAY | TRUNK WATERMAIN | TOTAL PROJECT |
|--|--------------------|--------------------|--------------------|
| Estimated TOTAL Construction Cost | \$335,000 | \$220,000 | \$555,000 |
| Contingencies at 10% | \$33,000 | \$22,500 | \$55,500 |
| Easement Acquisition (UPRR Easement) | \$25,200 | \$16,800 | \$42,000 |
| Engineering Services: Preliminary and Final Design | \$70,000 | \$45,000 | \$115,000 |
| Engineering Services: Construction Administration: | \$21,000 | \$14,000 | \$35,000 |
| Construction Observation: | \$15,000 | \$10,000 | \$25,000 |
| Geotechnical Engineering: | \$6,000 | \$4,000 | \$10,000 |
| Legal, Fiscal and Administration: | \$10,000 | \$7,000 | \$17,000 |
| Estimated UPRR Signal Improvements | \$335,000 | | \$335,000 |
| Estimated UPRR Surface Crossing Improvements | \$200,000 | | \$200,000 |
| Estimated UPRR Track Monitoring Costs (Est. Pending) | \$15,000 | \$10,000 | \$25,000 |
| UPRR Pipeline Crossing Permits and License Fees | | \$3,500 | \$3,500 |
| Total Estimated Project Cost: | \$1,065,200 | \$352,800 | \$1,418,000 |
| Annual UPRR Signal Maintenance Cost (at \$278.25 per Unit: 41 Units) | \$11,408 | | |
| Annual UPRR Surface Maintenance Cost | \$3,322 | | |

ENGINEER'S ESTIMATE

VILLAGE PARKWAY UPRR CROSSING IMPROVEMENTS
CITY OF LAKE ELMO
CITY PROJECT NO. 2019.122
SEH PROJECT NO. LAKMO 152477

| ITEM NO. | ITEM | UNIT | UNIT PRICE | ESTIMATED QUANTITY | ESTIMATED COST |
|----------|---|-------|-------------|--------------------|----------------|
| 2021.501 | MOBILIZATION | LS | \$50,000.00 | 1 | \$50,000.00 |
| 2101.505 | CLEARING | ACRE | \$10,000.00 | 3.0 | \$30,000.00 |
| 2101.505 | GRUBBING | ACRE | \$15,000.00 | 0.4 | \$6,000.00 |
| 2104.502 | REMOVE CONCRETE MEDIAN NOSE | EACH | \$500.00 | 2 | \$1,000.00 |
| 2104.501 | SALVAGE 12"x6" REDUCER, 6" GV & BOX, & HYDRANT ASSEMBLY | LS | \$5,000.00 | 1 | \$5,000.00 |
| 2104.502 | SALVAGE TYPE III BARRICADE | EACH | \$100.00 | 4 | \$400.00 |
| 2104.502 | SALVAGE & INSTALL SIGN TYPE C | EACH | \$250.00 | 4 | \$1,000.00 |
| 2104.503 | SAWING BITUMINOUS PAVEMENT (FULL DEPTH) | LF | \$5.00 | 48 | \$240.00 |
| 2104.503 | REMOVE CURB & GUTTER | LF | \$10.00 | 270 | \$2,700.00 |
| 2104.503 | REMOVE FENCE | LF | \$10.00 | 50 | \$500.00 |
| 2104.504 | REMOVE BITUMINOUS PAVEMENT | SY | \$6.00 | 342 | \$2,052.00 |
| 2104.518 | REMOVE CONCRETE WALK | SF | \$4.00 | 640 | \$2,560.00 |
| 2105.607 | COMMON EXCAVATION (EV) | CY | \$30.00 | 533 | \$15,990.00 |
| 2105.609 | SELECT GRANULAR BORROW - MOD 5% | TON | \$25.00 | 4000 | \$100,000.00 |
| 2123.610 | STREET SWEEPER (WITH PICKUP BROOM) | HOURL | \$160.00 | 15 | \$2,400.00 |
| 2211.509 | AGGREGATE BASE CLASS 6 | TON | \$40.00 | 682 | \$27,280.00 |
| 2357.506 | BITUMINOUS MATERIAL FOR TACK COAT | GAL | \$5.00 | 60 | \$300.00 |
| 2360.509 | TYPE SP 9.5 WEARING COURSE MIX (2,B) | TON | \$180.00 | 35 | \$6,300.00 |
| 2360.509 | TYPE SP 9.5 WEARING COURSE MIX (3,C) | TON | \$120.00 | 100 | \$12,000.00 |
| 2360.509 | TYPE SP 12.5 WEARING COURSE MIX (3,C) | TON | \$120.00 | 100 | \$12,000.00 |
| 2504.601 | INSTALL 12"x6" REDUCER, 6" GV & BOX, & HYDRANT ASSEMBLY | LS | \$8,000.00 | 1 | \$8,000.00 |
| 2504.602 | CONNECT TO EXISTING WATER MAIN | EACH | \$2,500.00 | 1 | \$2,500.00 |
| 2504.602 | 12" GATE VALVE & BOX | EACH | \$7,500.00 | 1 | \$7,500.00 |
| 2504.603 | 12" WATER-MAIN DUCTILE IRON CL 52 | LF | \$120.00 | 25 | \$3,000.00 |
| 2504.603 | 36" STEEL CASING PIPE (JACKED) (INCLUDES 12" DIP WM, CL 52) | LF | \$1,200.00 | 120 | \$144,000.00 |
| 2504.608 | DUCTILE IRON FITTINGS | LB | \$12.00 | 593 | \$7,116.00 |
| 2521.518 | 5" CONCRETE WALK | SF | \$8.00 | 1655 | \$13,240.00 |
| 2521.518 | 6" CONCRETE WALK | SF | \$12.00 | 353 | \$4,236.00 |
| 2531.503 | CONCRETE CURB & GUTTER DESIGN B618 (TIP-OUT) | LF | \$25.00 | 365 | \$9,125.00 |
| 2531.503 | CONCRETE CURB & GUTTER DESIGN B624 | LF | \$30.00 | 390 | \$11,700.00 |
| 2531.504 | 6" CONCRETE DRIVEWAY PAVEMENT | SY | \$80.00 | 35 | \$2,800.00 |
| 2531.602 | CONCRETE MEDIAN NOSE-SPECIAL | EACH | \$1,000.00 | 3 | \$3,000.00 |
| 2531.618 | TRUNCATED DOMES | SF | \$100.00 | 56 | \$5,600.00 |
| 2563.601 | TRAFFIC CONTROL | LS | \$7,500.00 | 1 | \$7,500.00 |
| 2563.602 | INSTALL TYPE III BARRICADE | EACH | \$1,000.00 | 4 | \$4,000.00 |
| 2563.602 | TEMPORARY TYPE III BARRICADE (TO BECOME PROPERTY OF CITY) | EACH | \$1,000.00 | 6 | \$6,000.00 |
| 2564.502 | OFF ROAD STRUCTURE MARKER | EACH | \$500.00 | 1.00 | \$500.00 |
| 2564.518 | SIGN PANEL TYPE C | SF | \$70.00 | 52.22 | \$3,655.40 |
| 2573.502 | STORM DRAIN INLET PROTECTION | EACH | \$500.00 | 2 | \$1,000.00 |
| 2573.503 | SILT FENCE, TYPE MS | LF | \$4.00 | 1063 | \$4,252.00 |
| 2573.503 | SEDIMENT CONTROL LOG TYPE WOOD FIBER | LF | \$4.00 | 600 | \$2,400.00 |
| 2574.507 | COMMON TOPSOIL BORROW (PULVERIZED) (LV) | CY | \$40.00 | 200 | \$8,000.00 |
| 2575.504 | ROLLED EROSION PREVENTION CATEGORY 25 | SY | \$4.00 | 1950 | \$7,800.00 |
| 2575.505 | SEEDING (INCLUDES SEED, HYDRAULIC SOIL STABILIZER & FERTILIZER, TYPE 4) | ACRE | \$2,000.00 | 2.5 | \$5,000.00 |
| 2582.503 | 12" SOLID LINE MULTI COMP | LF | \$12.00 | 16 | \$192.00 |
| 2582.503 | 24" SOLID LINE MULTI COMP | LF | \$15.00 | 68 | \$1,020.00 |
| 2582.518 | PAVT MSSG PREF THERMO GR IN | SF | \$20.00 | 76 | \$1,520.00 |
| 2582.518 | CROSSWALK PREF THERMO GR IN | SF | \$15.00 | 168 | \$2,520.00 |

SUBTOTAL ESTIMATED CONSTRUCTION COST = \$554,898.40
10% CONTINGENCY = \$55,500.00
TOTAL ESTIMATED CONSTRUCTION COST = \$610,398.40