

Preliminary Cost Estimate

Rice Lake Road Corridor Improvement Project

Saint Louis County, MN

Thursday, April 25, 2024

| Item                                         |                                                  | Unit Price  | Total Quantity | Total Cost    | Rice Lake Road |               | Martin Road,<br>West of Rice Lake Road |              | Martin Road,<br>East of Rice Lake Road |              |
|----------------------------------------------|--------------------------------------------------|-------------|----------------|---------------|----------------|---------------|----------------------------------------|--------------|----------------------------------------|--------------|
|                                              |                                                  |             |                |               | Quantity       | Cost          | Quantity                               | Cost         | Quantity                               | Cost         |
| MAJOR ROADWAY ITEMS                          |                                                  |             |                |               |                |               |                                        |              |                                        |              |
|                                              | REMOVE BITUMINOUS PAVEMENT                       | \$ 6.00     | 86,529         | \$ 519,176    | 56,491         | \$ 338,943    | 6,218                                  | \$ 37,310    | 10,775                                 | \$ 64,647    |
|                                              | REMOVE CURB AND GUTTER                           | \$ 5.00     | 1,861          | \$ 9,304      | 341            | \$ 1,705      | 500                                    | \$ 2,500     | 1,020                                  | \$ 5,099     |
|                                              | MILL BITUMINOUS PAVEMENT                         | \$ 4.00     | 13,028         | \$ 52,110     | 5,662          | \$ 22,648     | 0                                      | \$ -         | 7,366                                  | \$ 29,462    |
|                                              | EXCAVATION - COMMON                              | \$ 19.00    | 161,083        | \$ 3,060,581  | 92,279         | \$ 1,753,297  | 20,558                                 | \$ 390,610   | 26,012                                 | \$ 494,236   |
|                                              | EXCAVATION - MUCK                                | \$ 19.00    | 35,116         | \$ 667,196    | 14,705         | \$ 279,391    | 8,683                                  | \$ 164,981   | 2,839                                  | \$ 53,945    |
|                                              | COMMON EMBANKMENT (CV)                           | \$ 14.00    | 35,116         | \$ 491,618    | 14,705         | \$ 205,867    | 8,683                                  | \$ 121,565   | 2,839                                  | \$ 39,749    |
|                                              | AGGREGATE SURFACING CLASS 2                      | \$ 57.00    | 666            | \$ 37,934     | 162            | \$ 9,217      | 382                                    | \$ 21,757    | 0                                      | \$ -         |
|                                              | AGGREGATE BASE (CV) CLASS 5                      | \$ 44.00    | 43,305         | \$ 1,905,411  | 24,521         | \$ 1,078,933  | 4,071                                  | \$ 179,128   | 6,796                                  | \$ 299,015   |
|                                              | SELECT GRANULAR EMBANKMENT (CV)                  | \$ 24.00    | 36,950         | \$ 886,802    | 22,806         | \$ 547,351    | 2,439                                  | \$ 58,529    | 6,205                                  | \$ 148,922   |
|                                              | GEOTEXTILE FABRIC TYPE 7                         | \$ 5.00     | 143,968        | \$ 719,840    | 83,004         | \$ 415,019    | 16,739                                 | \$ 83,694    | 23,845                                 | \$ 119,224   |
|                                              | CONCRETE PAVEMENT 8.0"                           | \$ 86.00    | 4,672          | \$ 401,766    | 1,482          | \$ 127,426    | 1,024                                  | \$ 88,073    | 392                                    | \$ 33,678    |
|                                              | TYPE SP 9.5 WEARING COURSE MIX (3,C) - MILL AREA | \$ 88.00    | 1,484          | \$ 130,592    | 680            | \$ 59,840     | 0                                      | \$ -         | 804                                    | \$ 70,752    |
|                                              | TYPE SP 9.5 WEARING COURSE MIX (2,B) - TRAIL     | \$ 132.00   | 4,843          | \$ 639,316    | 1,142          | \$ 150,718    | 1,517                                  | \$ 200,231   | 0                                      | \$ -         |
|                                              | TYPE SP 12.5 WEARING COURSE MIX (3,C)            | \$ 88.00    | 35,675         | \$ 3,139,418  | 21,273         | \$ 1,872,015  | 2,394                                  | \$ 210,637   | 6,037                                  | \$ 531,238   |
|                                              | CURB AND GUTTER B424                             | \$ 29.00    | 43,548         | \$ 1,262,889  | 22,966         | \$ 666,008    | 4,243                                  | \$ 123,038   | 11,737                                 | \$ 340,373   |
|                                              | 4" CONCRETE WALK & MEDIAN                        | \$ 12.00    | 107,654        | \$ 1,291,844  | 57,754         | \$ 693,053    | 6,032                                  | \$ 72,389    | 43,867                                 | \$ 526,403   |
| All Roadway Construction Subtotal            |                                                  |             |                | \$ 15,220,000 |                | \$ 8,221,000  |                                        | \$ 1,754,000 |                                        | \$ 2,757,000 |
| STRUCTURAL ITEMS                             |                                                  |             |                |               |                |               |                                        |              |                                        |              |
|                                              | TRAIL WETLAND CROSSING                           | \$ 1,600.00 | 4,447          | \$ 7,120,000  | 1560           | \$ 2,496,000  | 2275                                   | \$ 3,640,000 | 612                                    | \$ 979,200   |
| PERCENTAGE ITEMS                             |                                                  |             |                |               |                |               |                                        |              |                                        |              |
|                                              | MOBILIZATION                                     | 5%          | of all roadway | \$ 760,750    |                | \$ 411,050    |                                        | \$ 87,700    |                                        | \$ 137,850   |
|                                              | MISC REMOVALS (CURB, SIGNS, TREES, ETC.)         | 2%          | of all roadway | \$ 304,300    |                | \$ 164,420    |                                        | \$ 35,080    |                                        | \$ 55,140    |
|                                              | SIGNING & PAVEMENT MARKINGS                      | 3%          | of all roadway | \$ 456,450    |                | \$ 246,630    |                                        | \$ 52,620    |                                        | \$ 82,710    |
|                                              | LIGHTING                                         | 5%          | of all roadway | \$ 760,750    |                | \$ 411,050    |                                        | \$ 87,700    |                                        | \$ 137,850   |
|                                              | URBAN DRAINAGE (STORM SEWER)                     | 20%         | of all roadway | \$ 3,043,000  |                | \$ 1,644,200  |                                        | \$ 350,800   |                                        | \$ 551,400   |
|                                              | STORMWATER MANAGEMENT (PONDS)                    | 5%          | of all roadway | \$ 760,750    |                | \$ 411,050    |                                        | \$ 87,700    |                                        | \$ 137,850   |
|                                              | TURF ESTABLISHMENT AND EROSION CONTROL           | 5%          | of all roadway | \$ 760,750    |                | \$ 411,050    |                                        | \$ 87,700    |                                        | \$ 137,850   |
|                                              | LANDSCAPING/STREETSCAPE                          | 3%          | of all roadway | \$ 380,375    |                | \$ 205,525    |                                        | \$ 43,850    |                                        | \$ 68,925    |
|                                              | TRAFFIC CONTROL/STAGING                          | 5%          | of all roadway | \$ 760,750    |                | \$ 411,050    |                                        | \$ 87,700    |                                        | \$ 137,850   |
|                                              | CONTINGENCY FOR MISSING ITEMS                    | 20%         | of all roadway | \$ 3,043,000  |                | \$ 1,644,200  |                                        | \$ 350,800   |                                        | \$ 551,400   |
|                                              | Subtotal Percentage Items                        |             |                | \$ 11,030,000 |                | \$ 5,960,000  |                                        | \$ 1,272,000 |                                        | \$ 1,999,000 |
| Construction Cost (2026 Dollars)             |                                                  |             |                | \$ 33,370,000 |                | \$ 16,677,000 |                                        | \$ 6,666,000 |                                        | \$ 5,735,200 |
| Anticipated Right-of-Way Cost (2026 Dollars) |                                                  |             |                | \$ 700,000    |                | \$ 582,000    |                                        | \$ -         |                                        | \$ 126,000   |
| Engineering Cost (2026 Dollars)              |                                                  |             |                | \$ 6,650,000  |                | \$ 3,350,000  |                                        | \$ 1,350,000 |                                        | \$ 1,150,000 |
| Total Cost (2026 Dollars)                    |                                                  |             |                | \$ 40,720,000 |                | \$ 20,609,000 |                                        | \$ 8,016,000 |                                        | \$ 7,011,200 |

- Notes:
- Highway pavement section assumed is 6 inch bituminous pavement,12 inch aggregate base, and 12 inch sand.
  - Trail pavement section assumed is 3 inch bituminous pavement and 6 inch aggregate base
  - Muck Excavation assumes 5 feet of excavation in mitigated wetland areas

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| Item                                         |                                                  | Unit Price  | W Frontage Rd,<br>Calvary to Martin Road |            | E Frontage Rd,<br>Ridgeview to Calvary Road |              | Rice Lake Road,<br>South Trail -<br>Technology Drive to<br>Ridgeview Lane |            | Ridgeview Road, East of<br>Rice Lake Road |            | Northland Constructors<br>Driveway |              |
|----------------------------------------------|--------------------------------------------------|-------------|------------------------------------------|------------|---------------------------------------------|--------------|---------------------------------------------------------------------------|------------|-------------------------------------------|------------|------------------------------------|--------------|
|                                              |                                                  |             | Quantity                                 | Cost       | Quantity                                    | Cost         | Quantity                                                                  | Cost       | Quantity                                  | Cost       | Quantity                           | Cost         |
| MAJOR ROADWAY ITEMS                          |                                                  |             |                                          |            |                                             |              |                                                                           |            |                                           |            |                                    |              |
|                                              | REMOVE BITUMINOUS PAVEMENT                       | \$ 6.00     | 3,795                                    | \$ 22,770  | 9,095                                       | \$ 54,569    |                                                                           | \$ -       | 156                                       | \$ 937     |                                    | \$ -         |
|                                              | REMOVE CURB AND GUTTER                           | \$ 5.00     | 0                                        | \$ -       |                                             | \$ -         |                                                                           | \$ -       | 0                                         | \$ -       |                                    | \$ -         |
|                                              | MILL BITUMINOUS PAVEMENT                         | \$ 4.00     | 0                                        |            |                                             |              |                                                                           |            | 0                                         |            |                                    |              |
|                                              | EXCAVATION - COMMON                              | \$ 19.00    | 4,633                                    | \$ 88,031  | 12,971                                      | \$ 246,445   |                                                                           | \$ -       | 1,110                                     | \$ 21,090  | 3,520                              | \$ 66,872    |
|                                              | EXCAVATION - MUCK                                | \$ 19.00    | 0                                        | \$ -       |                                             | \$ -         |                                                                           | \$ -       | 0                                         | \$ -       | 8,888                              | \$ 168,880   |
|                                              | COMMON EMBANKMENT (CV)                           | \$ 14.00    | 0                                        | \$ -       |                                             | \$ -         |                                                                           | \$ -       | 0                                         | \$ -       | 8,888                              | \$ 124,438   |
|                                              | AGGREGATE SURFACING CLASS 2                      | \$ 57.00    | 11                                       | \$ 627     | 95                                          | \$ 5,392     |                                                                           | \$ -       | 17                                        | \$ 941     |                                    | \$ -         |
|                                              | AGGREGATE BASE (CV) CLASS 5                      | \$ 44.00    | 1,244                                    | \$ 54,740  | 3,210                                       | \$ 141,231   | 2,022                                                                     | \$ 88,959  | 213                                       | \$ 9,390   | 1,228                              | \$ 54,014    |
|                                              | SELECT GRANULAR EMBANKMENT (CV)                  | \$ 24.00    | 1,236                                    | \$ 29,674  | 3,064                                       | \$ 73,524    |                                                                           | \$ -       | 213                                       | \$ 5,122   | 987                                | \$ 23,681    |
|                                              | GEOTEXTILE FABRIC TYPE 7                         | \$ 5.00     | 4,247                                    | \$ 21,236  | 11,890                                      | \$ 59,450    |                                                                           | \$ -       | 1,018                                     | \$ 5,088   | 3,226                              | \$ 16,132    |
|                                              | CONCRETE PAVEMENT 8.0"                           | \$ 86.00    | 34                                       | \$ 2,933   | 657                                         | \$ 56,476    |                                                                           | \$ -       |                                           | \$ -       | 1,084                              | \$ 93,181    |
|                                              | TYPE SP 9.5 WEARING COURSE MIX (3,C) - MILL AREA | \$ 88.00    |                                          | \$ -       |                                             |              |                                                                           |            |                                           |            |                                    |              |
|                                              | TYPE SP 9.5 WEARING COURSE MIX (2,B) - TRAIL     | \$ 132.00   | 0                                        | \$ -       |                                             | \$ -         | 2,185                                                                     | \$ 288,367 |                                           | \$ -       |                                    | \$ -         |
|                                              | TYPE SP 12.5 WEARING COURSE MIX (3,C)            | \$ 88.00    | 1,335                                    | \$ 117,515 | 3,334                                       | \$ 293,401   |                                                                           | \$ -       | 237                                       | \$ 20,812  | 1,066                              | \$ 93,799    |
|                                              | CURB AND GUTTER B424                             | \$ 29.00    | 0                                        | \$ -       | 4,602                                       | \$ 133,470   | 0                                                                         | \$ -       | 0                                         | \$ -       | 0                                  | \$ -         |
|                                              | 4" CONCRETE WALK & MEDIAN                        | \$ 12.00    | 0                                        | \$ -       |                                             | \$ -         | 0                                                                         | \$ -       | 0                                         | \$ -       | 0                                  | \$ -         |
| All Roadway Construction Subtotal            |                                                  |             |                                          | \$ 338,000 |                                             | \$ 1,064,000 |                                                                           | \$ 377,000 |                                           | \$ 63,000  |                                    | \$ 641,000   |
| STRUCTURAL ITEMS                             |                                                  |             |                                          |            |                                             |              |                                                                           |            |                                           |            |                                    |              |
|                                              | TRAIL WETLAND CROSSING                           | \$ 1,600.00 |                                          |            |                                             |              |                                                                           |            |                                           |            |                                    |              |
| PERCENTAGE ITEMS                             |                                                  |             |                                          |            |                                             |              |                                                                           |            |                                           |            |                                    |              |
|                                              | MOBILIZATION                                     | 5%          |                                          | \$ 16,900  |                                             | \$ 53,200    |                                                                           | \$ 18,850  |                                           | \$ 3,150   |                                    | \$ 32,050    |
|                                              | MISC REMOVALS (CURB, SIGNS, TREES, ETC.)         | 2%          |                                          | \$ 6,760   |                                             | \$ 21,280    |                                                                           | \$ 7,540   |                                           | \$ 1,260   |                                    | \$ 12,820    |
|                                              | SIGNING & PAVEMENT MARKINGS                      | 3%          |                                          | \$ 10,140  |                                             | \$ 31,920    |                                                                           | \$ 11,310  |                                           | \$ 1,890   |                                    | \$ 19,230    |
|                                              | LIGHTING                                         | 5%          |                                          | \$ 16,900  |                                             | \$ 53,200    |                                                                           | \$ 18,850  |                                           | \$ 3,150   |                                    | \$ 32,050    |
|                                              | URBAN DRAINAGE (STORM SEWER)                     | 20%         |                                          | \$ 67,600  |                                             | \$ 212,800   |                                                                           | \$ 75,400  |                                           | \$ 12,600  |                                    | \$ 128,200   |
|                                              | STORMWATER MANAGEMENT (PONDS)                    | 5%          |                                          | \$ 16,900  |                                             | \$ 53,200    |                                                                           | \$ 18,850  |                                           | \$ 3,150   |                                    | \$ 32,050    |
|                                              | TURF ESTABLISHMENT AND EROSION CONTROL           | 5%          |                                          | \$ 16,900  |                                             | \$ 53,200    |                                                                           | \$ 18,850  |                                           | \$ 3,150   |                                    | \$ 32,050    |
|                                              | LANDSCAPING/STREETSCAPE                          | 3%          |                                          | \$ 8,450   |                                             | \$ 26,600    |                                                                           | \$ 9,425   |                                           | \$ 1,575   |                                    | \$ 16,025    |
|                                              | TRAFFIC CONTROL/STAGING                          | 5%          |                                          | \$ 16,900  |                                             | \$ 53,200    |                                                                           | \$ 18,850  |                                           | \$ 3,150   |                                    | \$ 32,050    |
|                                              | CONTINGENCY FOR MISSING ITEMS                    | 20%         |                                          | \$ 67,600  |                                             | \$ 212,800   |                                                                           | \$ 75,400  |                                           | \$ 12,600  |                                    | \$ 128,200   |
|                                              | Subtotal Percentage Items                        |             |                                          | \$ 245,000 |                                             | \$ 771,000   |                                                                           | \$ 273,000 |                                           | \$ 46,000  |                                    | \$ 465,000   |
| Construction Cost (2026 Dollars)             |                                                  |             |                                          | \$ 583,000 |                                             | \$ 1,835,000 |                                                                           | \$ 650,000 |                                           | \$ 109,000 |                                    | \$ 1,106,000 |
| Anticipated Right-of-Way Cost (2026 Dollars) |                                                  |             |                                          | \$ -       |                                             | \$ -         |                                                                           | \$ -       |                                           | \$ -       |                                    | \$ -         |
| Engineering Cost (2026 Dollars)              |                                                  |             |                                          | \$ 100,000 |                                             | \$ 350,000   |                                                                           | \$ 150,000 |                                           | \$ -       |                                    | \$ 200,000   |
| Total Cost (2026 Dollars)                    |                                                  |             |                                          | \$ 683,000 |                                             | \$ 2,185,000 |                                                                           | \$ 800,000 |                                           | \$ 109,000 |                                    | \$ 1,306,000 |

- Notes:
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