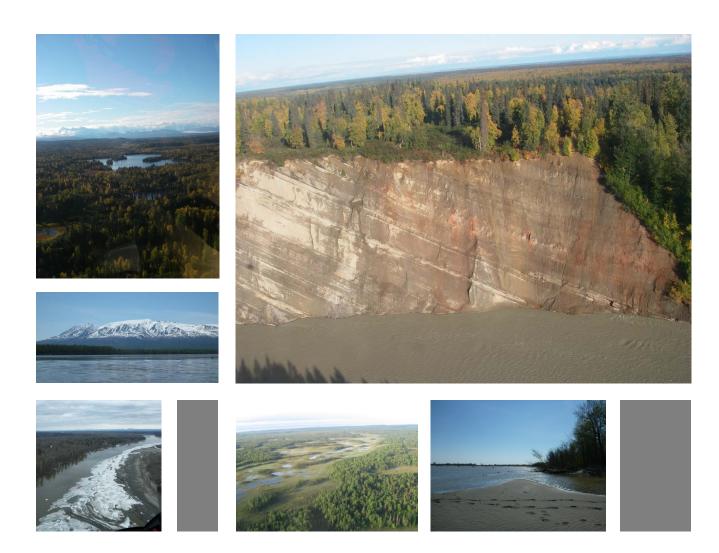
## West Susitna Access Reconnaissance Study West Susitna Access to Resource Development

## Transportation Analysis Report



Appendix D: Preliminary Cost Estimate

## WEST SUSITNA ACCESS TO RESOURCE DEVELOPMENT COST ESTIMATE for NEW ROADS

|                             |            | Terrain Summary |             |                 |  |  |  |  |  |  |  |
|-----------------------------|------------|-----------------|-------------|-----------------|--|--|--|--|--|--|--|
| Alternatives                | Length, mi | Level, mi       | Rolling, mi | Mountainous, mi |  |  |  |  |  |  |  |
| North Petersville           | 78.8       | 31.3            | 25.7        | 21.8            |  |  |  |  |  |  |  |
| South Peters Hills          | 27.5       |                 |             |                 |  |  |  |  |  |  |  |
| Yenlo Hills                 | 51.3       |                 |             |                 |  |  |  |  |  |  |  |
| North Skwentna              | 71.6       | 31.3            | 16.2        | 24.1            |  |  |  |  |  |  |  |
| Skwentna                    | 27.3       | 17.6            | 6.4         | 3.3             |  |  |  |  |  |  |  |
| Skwentna River              | 44.4       | 13.7            | 9.9         | 20.8            |  |  |  |  |  |  |  |
| Middle Susitna-Skwentna Riv | 108.0      | 62.8            | 29.3        | 15.8            |  |  |  |  |  |  |  |
| Susitna Crossing            | 26.1       | 22.0            | 2.9         | 1.3             |  |  |  |  |  |  |  |
| East Susitna                | 37.5       | 12.3            | 16.1        | 9.1             |  |  |  |  |  |  |  |
| Skwentna River              | 44.4       | 28.6            | 10.3        | 5.4             |  |  |  |  |  |  |  |
| Beluga                      | 63.8       | 42.6            | 18.3        | 2.9             |  |  |  |  |  |  |  |
| Susitna Crossing            | 26.1       | 22.0            | 2.9         | 1.3             |  |  |  |  |  |  |  |
| Beluga Alignment            | 37.6       | 20.6            | 15.3        | 1.7             |  |  |  |  |  |  |  |
| Deshka Variant              | 33.5       | 28.1            | 4.6         | 0.9             |  |  |  |  |  |  |  |
| Deshka                      | 33.5       | 28.1            | 4.6         | 0.9             |  |  |  |  |  |  |  |

 TYPICAL SECTION

 Roadway Width, ft =
 24

 STRUCTURAL SECTION, in

 Gravel Wearing Surface =
 4

 Borrow "A" =
 48

\$3,718,001 Subtotal for Guardrail and Miscellaneous \$16,384,054 \$16,593,728 \$17,031,580 \$7,573,255 \$29,257,971 \$26,394,389 \$9,962,400 \$3,713,824 Subtotal for Earthwork \$29,360,041 \$6,778,816 Subtotal for road Structural Section \$15,942,058 \$14,494,804 \$21,850,497 \$12,903,837 \$119,439,000 \$57,312,000 Subtotal for Stream and River Crossings \$83,664,000 \$125,925,000 \$74,980,000

ICAP(5%)

TOTAL

Cost Per Mile \$4,600,000

\$17,110,400

\$359,400,000 \$452,300,000

\$21,535,400

\$6,300,000

\$21,578,150

\$453,200,000

\$4,200,000

\$12,275,850

\$257,800,000

\$4,000,000

\$8,264,000

\$173,600,000

\$5,200,000

|  |   | A COLUMNICAL          |           |            |                      | Quantity Per Mile |         | Total Route Quantities |                   |                |  | COST   |  |  |  |  |  |  |
|--|---|-----------------------|-----------|------------|----------------------|-------------------|---------|------------------------|-------------------|----------------|--|--|--|--|--|--|--|--|
| DESCRIPTION  | ASSUMPTIONS   | ASSUMPTION<br>FACTORS | ITEM No   | Pay Unit   | Unit Price           | Level             | Rolling | Mountainous            | North Petersville | North Skwentna | Middle Susitna-<br>Skwentna River                          | Beluga   | Deshka Variant   | North Petersville  | North Skwentna   | Middle Susitna-<br>Skwentna River  | Beluga                                     | Deshka Variant                             |
| CLEARING   |   |                       | 201 (1A)  | ACRE       | \$3,092.40           | 6.4               | 9.7     | 12.1                   | 714               | 650            | 879  | 486  | 235  | \$2,208,993  | \$2,011,601  | \$2,719,736  | \$1,502,907                                | \$726,669                                  |
| EARTHWORK  |   |                       |           |            |                      |                   |         |                        |                   |                |  |  |  |  |  |  |  |  |
| UNCLASSIFIED EXCAVATION  | N   |                       | 203 (3)   | CY         | \$9.13               | 4,994             | 17,211  | 66,076                 | 2,040,557         | 2,028,279      | 1,862,453  | 720,319  | 275,858  | \$18,623,944   | \$18,511,884   | \$16,998,410   | \$6,574,279                                | \$2,517,729                                |
| EMBANKMENT BORROW O  |   |                       | 203 (6C)  | TON        | \$3.83               | 4.505             | 22,664  | 95,294                 | 2,803,159         | 2,805,767      | 2,453,258  | 884.627  | 312,296  | \$10,736,097   | \$10,746,087   | \$9,395,979  | \$3,388,121                                | \$1,196,095                                |
| STRUCTURAL SECTION   |   |                       |           |            |                      | /                 | /       |                        |                   | , ,            | ,                    | /-   | ,  | ., .,,   | , , , , , , ,  | 41,111,1   |  | , , ,                                      |
| BORROW A   | 4   |                       | 203 (6A)  | TON        | \$3.25               | 51,954            | 51,954  | 51,954                 | 4,091,867         | 3,720,398      | 5,608,393  | 3,312,043  | 1,739,927  | \$13,298,567   | \$12,091,295   | \$18,227,277   | \$10,764,140                               | \$5,654,761                                |
| AGGREGATE SURFACE COURSE   |   |                       | 301 (3)   | TON        | \$10.43              | 3.218             | 3,218   | 3.218                  | 253.435           | 230,428        | 347.363  | 205.136  | 107,765  | \$2,643,491  | \$2,403,509  | \$3,623,220  | \$2,139,697                                | \$1,124,054                                |
| STREAM AND RIVER CROSSINGS   |   |                       | 301 (3)   | TON        | ψ10.40               | 5,210             | 5,210   | 5,210                  | 200,100           | 200,120        | 017,000  | 200,100  | 107,700  | ΨΖ,040,431   | Ψ2,400,303   | ψ0,020,220   | Ψ2,103,037                                 | Ψ1,124,034                                 |
|  | Length of bridge multiplied by 26' width.               | 26                    |           | SF         | \$350.00             |                   |         |                        | 27,040            | 42,900         | 38,740   | 28,600   | 520  | \$9,464,000  | \$15,015,000   | \$13,559,000   | \$10,010,000                               | \$182,000                                  |
|  | Length of bridge multiplied by 26' width.               | 26                    |           | SF         | \$1,000.00           |                   |         |                        | 64.220            | 101.660        | 93.860   | 59.540   | 54.600   | \$64,220,000   | \$101,660,000  | \$93,860,000   | \$59,540,000                               | \$54,600,000                               |
|  | Culvert length approximately 50' to daylight on ei      | . 50                  | 603()     | LF         | \$150.00             |                   |         |                        | 15.800            | 14,600         | 22.000   | 13,000   | 6,800  | \$2,370,000  | \$2,190,000  | \$3,300,000  | \$1,950,000                                | \$1,020,000                                |
|  | Γ Culvert length approximately 50 to daylight on eight  | 50                    | 603()     | LF         | \$1,000.00           |                   |         |                        | 1,850             | 1,300          | 2,000  | 600  | 550  | \$1,850,000  | \$1,300,000  | \$2,000,000  | \$600,000                                  | \$550,000                                  |
|  | Γ Culvert length approximately 96' to daylight on eight | 96                    | 603()     | LF         | \$5,000.00           |                   |         |                        | 1,152             | 1,152          | 1.344  | 576  | 192  | \$5,760,000  | \$5,760,000  | \$6,720,000  | \$2,880,000                                | \$960,000                                  |
| GUARDRAIL  | Curvert length approximately 96 to daylight on el       | 90                    | 603()     | LF         | \$5,000.00           |                   |         |                        | 1,102             | 1,132          | 1,344  | 3/0  | 192  | \$5,760,000  | \$5,760,000  | \$6,720,000  | \$2,000,000                                | \$960,000                                  |
|  | S Walls are only used in mountainous terrain.           | 0.25                  | 30 636(1) | CY         | \$166.28             |                   |         | 1.467                  | 32,027            | 35,351         | 23,171   | 4,293  | 1,272  | \$5.325.418  | \$5.878.151  | \$3.852.854  | \$713,782                                  | \$211.587                                  |
|  |   | 0.23                  | 606(1)    | FT         | \$25.94              |                   |         | 2.640                  | 57,648            | 63,632         | 41.708   | 7,727  | 2,290  | \$1,495,521  | \$1,650,744  | \$1,081,985  | \$200,449                                  | \$59,419                                   |
|  | Guardrail are only used in mountainous terrain.         | 0.5                   |           | EACH       | \$3,239.47           |                   |         | 2,040                  | 231               | 255            | 167  |  |  | \$746,999  |  |  |  | \$29,679                                   |
| MISCELLANEOUS  | Average length of guardrail installation at 250', ter   | minais at either end. | 606(11)   | EACH       | <b></b> \$3,239.47   |                   |         |                        | 231               | 255            | 107  | 31   | 9  | \$740,999  | \$824,531  | \$540,442  | \$100,123                                  | \$29,079                                   |
| TOPSOIL  |   |                       | 000(4)    | CV         | <b>#</b> 1 00        | 10.000            | 00.751  | 101 500                | 2 600 202         | 3,520,604      | 3,649,699  | 1,628,930  | 713,505  | ₾4.0 <del>7</del> 0.400  | Φ4 0E0 404   | ΦE 000 F04   | £0.047.000                                 | <b>#004 007</b>                            |
| SEEDING  |   |                       | 620(1)    | SY<br>ACRE | \$1.38               | 16,808            | 33,751  | 101,522                | 3,608,282<br>746  | 727            | 754  | 337  | 147  | \$4,979,430  | \$4,858,434  | \$5,036,584<br>\$52,530  | \$2,247,923                                | \$984,637<br>\$10,270                      |
|  |   |                       | 618(1)    | SY         | \$69.66              | 3.47              | 6.97    | 20.98                  |                   |                |  |  |  | \$51,934   | \$50,672<br>\$3,187,976  | \$52,530<br>\$6,251,284  | \$23,445                                   |  |
| GEOTEXTILE TEXTILE<br>SIGNING  | E Level terrain = 25%, Rolling terrain = 15%            |                       | 685()     | LANE-MILE  | \$5.30<br>\$1.000.00 | 14,667            | 8,800   |                        | 684,383<br>158    | 601,505<br>143 | 1,179,487<br>216   | 784,912<br>128   | 451,762<br>56  | \$3,627,233<br>\$157,520   | \$3,187,976<br>\$143,220   | \$6,251,284<br>\$215.900   | \$4,160,033                                | \$2,394,338                                |
| SIGNING  | J   |                       |           | LAINE-WILE | \$1,000.00           |                   |         |                        | 136               | 143            | 210  | 120  | SUBTOTAL   | \$147,559,146  | \$188,283,104  | \$187,435,201  | \$127,500<br><b>\$106,922,399</b>          | \$28,071<br><b>\$72,249,309</b>            |
| DRAINAGE MEASURES (109 EROSION and POLLUTION (39 EVENTED TO THE PROPERTY OF TH |   |                       |           |            |                      |                   |         |                        |                   |                | and POLLUTION (3%)<br>SURVEYING (3%)<br>AFFIC CONTROL (5%) | \$14,800,000<br>\$4,500,000<br>\$4,500,000<br>\$7,400,000<br>\$1,500,000<br>\$14,800,000 | \$18,900,000<br>\$5,700,000<br>\$5,700,000<br>\$9,500,000<br>\$1,900,000<br>\$18,900,000 | \$18,800,000<br>\$5,700,000<br>\$5,700,000<br>\$9,400,000<br>\$1,900,000<br>\$18,800,000 | \$10,700,000<br>\$3,300,000<br>\$3,300,000<br>\$5,400,000<br>\$1,100,000<br>\$10,700,000 | \$7,300,000<br>\$2,200,000<br>\$2,200,000<br>\$3,700,000<br>\$800,000<br>\$7,300,000 |  |  |
|  |   |                       |           |            |                      |                   |         |                        |                   |                |  |  | SUBTOTAL   | \$195,059,146  | \$248,883,104  | \$247,735,201  | \$141,422,399                              | \$95,749,309                               |
|  |   |                       |           |            |                      |                   |         |                        |                   |                |  | (  | CONTINGENCY (30%)  | \$58,517,744   | \$74,664,931   | \$74,320,560   | \$42,426,720                               | \$28,724,793                               |
|  |   |                       |           |            |                      |                   |         |                        |                   |                |  | CONSTR   | UCTION SUBTOTAL  | \$253,600,000  | \$323,600,000  | \$322,100,000  | \$183,900,000                              | \$124,500,000                              |
|  |   |                       |           |            |                      |                   |         |                        |                   |                |  | CONSTRUCTION ADD   | DY & PERMITTING (3%)<br>MINISTRATION (15%)<br>PROJECT CAMP (2%)                          | \$7,608,000<br>\$38,100,000<br>\$5,100,000   | \$9,708,000<br>\$48,600,000<br>\$6,500,000   | \$9,663,000<br>\$48,400,000<br>\$6,500,000   | \$5,517,000<br>\$27,600,000<br>\$3,700,000 | \$3,735,000<br>\$18,700,000<br>\$2,500,000 |
|  |   |                       |           |            |                      |                   |         |                        |                   |                |  |  | SUBTOTAL   | \$304,408,000  | \$388,408,000  | \$386,663,000  | \$220,717,000                              | \$149,435,000                              |
|  | DESIGN (10%) UTILITIES (0.5%) RIGHT-of-WAY              |                       |           |            |                      |                   |         |                        |                   |                |  |  | \$30,500,000<br>\$1,600,000<br>\$5,700,000   | \$38,900,000<br>\$2,000,000<br>\$1,400,000   | \$38,700,000<br>\$2,000,000<br>\$4,200,000   | \$22,100,000<br>\$1,200,000<br>\$1,500,000   | \$15,000,000<br>\$800,000<br>\$45,000      |  |
| SUBTOTAL   |   |                       |           |            |                      |                   |         |                        |                   |                |  | \$342,208,000  | \$430,708,000  | \$431,563,000  | \$245,517,000  | \$165,280,000  |  |  |

## WEST SUSITNA ACCESS TO RESOURCE DEVELOPMENT COST ESTIMATE for UPGRADING EXISTING ROADS

|                           |            | Terrain Summary |             |                 |  |  |  |  |  |  |  |  |
|---------------------------|------------|-----------------|-------------|-----------------|--|--|--|--|--|--|--|--|
| Alternatives              | Length, mi | Level, mi       | Rolling, mi | Mountainous, mi |  |  |  |  |  |  |  |  |
| Petersville Road          | 8.5        | 6.4             | 2.1         | 0.0             |  |  |  |  |  |  |  |  |
| Oilwell Road 0-12.6       | 12.6       | 9.5             | 3.2         | 0.0             |  |  |  |  |  |  |  |  |
| Oilwell Road 12.6-16.76   | 4.2        | 3.1             | 1.0         | 0.0             |  |  |  |  |  |  |  |  |
| Oilwell Road Extension I  | 5.1        | 3.8             | 1.3         | 0.0             |  |  |  |  |  |  |  |  |
| Oilwell Road Extension II | 4.7        | 3.5             | 1.2         | 0.0             |  |  |  |  |  |  |  |  |

TYPICAL SECTION
Roadway Width, ft = 24

STRUCTURAL SECTION, in

Gravel Wearing Surface = 4

Borrow "A" = 48

\$467,857 Subtotal for Miscellaneous \$862,184 \$1,278,061 \$421,963 \$517,311 Subtotal for Earthwork \$282,018 \$1,254,163 \$414,073 \$507,637 \$464,837 \$1,127,427 \$1,020,075 \$1,145,132 Subtotal for road Structural Section \$3,089,649 \$1,250,572 Subtotal for Stream and River Crossings \$1,838,000 \$2,133,500 \$623,250 \$1,289,500 \$1,170,150

|                                 |   |                       |           |                    |                      |         |                |                  |                             |                                 | Oub                                   | total for otroum al                    | id thire or occomig                                    | ψ1,000,000                          | Ψ2,100,000                     | ψ020,200                                 | ψ1,200,000                                | 41,170,100             |
|---------------------------------|---|-----------------------|-----------|--------------------|----------------------|---------|----------------|------------------|-----------------------------|---------------------------------|---------------------------------------|--|--|-------------------------------------|--------------------------------|--|---|------------------------|
|                                 |   |                       |           |                    |                      |         | Quantity Per M | ile              |                             |                                 | Total Route Quantit                   | ies                                    |  | COST                                |                                |  |   |                        |
| DESCRIPTION ASSUMPTIONS         | ASSUMPTION<br>FACTORS                                 | ITEM No               | Pay Unit  | ay Unit Unit Price | Level                | Rolling | Mountainous    | Petersville Road | Oilwell Road<br>MP0 to 12.6 | Oilwell Road<br>MP12.6 to 16.76 | Oilwell Rd<br>Extension I<br>5.1miles | Oilwell Rd<br>Extension II<br>4.7miles | Petersville Road                                       | Oilwell Road<br>MP0 to 12.6         | Oilwell Road<br>MP12.6 to16.76 | Oilwell Road<br>Extension I<br>5.1 miles | Oilwell Road<br>Extension II<br>4.7 miles |                        |
| CLEARING                        |   |                       | 201 (1A)  | ACRE               | \$3,092.40           | 6.4     | 9.7            | 0.0              | 0                           | 23                              | 15                                    | 18                                     | 17   | \$0                                 | \$70,549                       | \$46,585                                 | \$57,111                                  | \$52,296               |
| EARTHWORK                       |   |                       | ` '       |                    |                      |         |                |                  |                             |                                 |                                       |  |  |                                     |                                |  |   |                        |
| UNCLASSIFIED EXCAVATION         |   |                       | 203 (3)   | CY                 | \$8.06               | 4,994   | 17,211         | 0                | 22,804                      | 101,412                         | 33,482                                | 41,048                                 | 37,587   | \$183,865                           | \$817,667                      | \$269,960                                | \$330,961                                 | \$303,056              |
| EMBANKMENT BORROW C             |   |                       | 203 (6C)  | TON                | \$3.83               | 4,505   | 22,664         | 0                | 25,627                      | 113,967                         | 37,627                                | 46,130                                 | 42,240   | \$98,153                            | \$436,495                      | \$144,113                                | \$176,677                                 | \$161,78               |
| STRUCTURAL SECTION              |   |                       |           |                    |                      |         |                |                  |                             |                                 |                                       |  |  |                                     |                                |  |   | 1                      |
| BORROW A                        |   |                       | 203 (6A)  | TON                | \$3.25               | 51,954  | 51,954         | 0                | 147,187<br>27,351           | 654,616                         | 216,127                               | 264,963                                | 242,623  | \$478,358                           | \$2,127,501                    | \$702,413                                | \$861,131                                 | \$788,520              |
| AGGREGATE SURFACE COURSE        |   |                       | 301 (3)   | TON                | \$23.73              | 3,218   | 3,218          | 0                | 27,351                      | 40,544                          | 13,386                                | 16,411                                 | 15,027   | \$649,069                           | \$962,149                      | \$317,662                                | \$389,441                                 | \$356,60               |
| STREAM AND RIVER CROSSINGS      |   |                       | ` '       |                    |                      |         |                |                  |                             |                                 |                                       |  |  |                                     |                                |  |   |                        |
|                                 | Length of bridge multiplied by 26' width.             | 26                    |           | SF                 | \$350.00             |         |                |                  | 2,730                       | 1,010                           | 1,245                                 | 0                                      | 0  | \$955,500                           | \$353,500                      | \$435,750                                | \$0                                       | \$0                    |
|                                 | Length of bridge multiplied by 26' width.             | 26                    |           | SF                 | \$1,000.00           |         |                |                  | 0                           |                                 | 0                                     | 0                                      | 0  | \$0                                 | \$0                            | \$0                                      | \$0                                       | \$0                    |
|                                 | Culvert length approximately 50' to daylight on eit   |                       | 603()     | LF                 | \$150.00             |         |                |                  | 2,550                       | 3,800                           | 1,250                                 | 1,530                                  | 1,401  | \$382,500                           | \$570,000                      | \$187,500                                | \$229,500                                 | \$210,150              |
|                                 | Culvert length approximately 50' to daylight on eit   |                       | 603()     | LF                 | \$1,000.00           |         |                |                  | 500                         | 250                             | 0                                     | 100                                    | 0  | \$500,000                           |                                | \$0                                      | \$100,000                                 | \$0                    |
|                                 | Culvert length approximately 96' to daylight on eit   | 96                    | 603()     | LF                 | \$5,000.00           |         |                |                  | 0                           | 192                             | 0                                     | 192                                    | 192  | \$0                                 | \$960,000                      | \$0                                      | \$960,000                                 | \$960,000              |
| GUARDRAIL                       |   |                       |           |                    |                      |         |                |                  |                             |                                 |                                       |  |  |                                     |                                |  |   |                        |
|                                 | Walls are only used in mountainous terrain.           | 0.25                  | 30 636(1) | CY                 | \$0.00               |         |                | 0                | 0                           | 0                               | 0                                     | 0                                      | 0  | \$0                                 | \$0                            | \$0                                      | \$0                                       | \$0                    |
|                                 | Guardrail are only used in mountainous terrain.       | 0.5                   | 606(1)    | FT                 | \$0.00               |         |                | 0                | 0                           | 0                               | 0                                     | 0                                      | 0  | \$0                                 | \$0                            | \$0                                      | \$0                                       | \$0                    |
|                                 | Average length of guardrail installation at 250', ter | minals at either end. | 606(11)   | EACH               | \$0.00               |         |                |                  | 0                           | 0                               | 0                                     | 0                                      | 0  | \$0                                 | \$0                            | \$0                                      | \$0                                       | \$0                    |
| MISCELLANEOUS                   |   |                       |           |                    |                      |         |                | _                | 170.071                     | 005.150                         | 07.540                                | 407.000                                | 00.074   |                                     |                                |  |   |                        |
| TOPSOIL                         |   |                       | 620(1)    | SY                 | \$1.38               | 16,808  | 33,751         | 0                | 178,871                     | 265,150                         | 87,542                                | 107,323                                | 98,274   | \$246,842                           | \$365,907                      | \$120,807                                | \$148,105                                 | \$135,618              |
| SEEDING                         |   |                       | 618(1)    | ACRE               | \$99.63              | 3.47    | 6.97           | 0.00             | 37                          | 55                              | 18                                    | 22                                     | 20   | \$3,682                             |                                | \$1,802                                  | \$2,209                                   | \$2,023                |
| GEOTEXTILE TEXTILE I<br>SIGNING | Level terrain = 25%, Rolling terrain = 15%            |                       | 685()     | SY<br>LANE-MILE    | \$5.30<br>\$1.000.00 | 14,667  | 8,800          |                  | 112,200                     | 166,320<br>25                   | 54,912                                | 67,320<br>10                           | 61,644   | \$594,660<br>\$17,000               |                                | \$291,034<br>\$8.320                     | \$356,796<br>\$10,200                     | \$326,713<br>\$3.503   |
| SIGNING                         |   | ļ                     |           | LANE-MILE          | \$1,000.00           |         |                |                  | 17                          | 23                              | 0                                     | 10                                     | (LIDEOTA)  | ψινίουσ                             |                                |  |   |                        |
|                                 |   |                       |           |                    |                      |         |                |                  |                             |                                 |                                       |  | SUBTOTAL   | L \$4,109,629                       | \$7,825,922                    | \$2,525,945                              | \$3,622,131                               | \$3,300,271            |
|                                 |   |                       |           |                    |                      |         |                |                  |                             |                                 |                                       | EROSION                                | GE MEASURES (10%<br>and POLLUTION (3%<br>SURVEYING (3% | \$500,000<br>\$200,000<br>\$200,000 | \$300,000<br>\$300,000         | \$300,000<br>\$100,000<br>\$100,000      | \$400,000<br>\$200,000<br>\$200,000       | \$100,000<br>\$100,000 |
|                                 |   |                       |           |                    |                      |         |                |                  |                             |                                 | C                                     | CONSTRUCTION TRA                       | AFFIC CONTROL (5%                                      | \$300,000                           | \$400,000                      | \$200,000                                | \$200,000                                 | \$200,00               |

\$100,000 \$100,000 \$100,000 \$100,000 \$100,000 CONTRACTOR FURNISHED (1%) MOBILIZATION (10%) \$300,000 \$400,000 \$500,000 \$800,000 \$400,000 \$5,909,629 \$10,525,922 \$3,625,945 \$5,122,131 \$4,600,271 SUBTOTAL CONTINGENCY (30%) \$1,772,889 \$3,157,777 \$1,087,784 \$1,536,639 \$1,380,081 CONSTRUCTION SUBTOTAL \$7,700,000 \$13,700,000 \$4,800,000 \$6,700,000 \$6,000,000 \$231,000 \$411,000 \$144,000 \$201,000 \$180,000 ENVIRONMENTAL STUDY & PERMITTING (3%) \$1,200,000 \$200,000 \$1,100,000 \$200,000 \$2,100,000 \$800,000 \$900,000 CONSTRUCTION ADMINISTRATION (15%) PROJECT CAMP (2%) \$300,000 \$100,000 \$200,000 \$5,844,000 \$7,280,000 SUBTOTAL \$9,331,000 \$16,511,000 \$8,201,000 DESIGN (10%) \$1,000,000 \$1,700,000 \$600,000 \$900.000 \$800,000 UTILITIES (0.5%) \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$4,200,000 \$5,700,000 \$1,400,000 \$1,500,000 RIGHT-of-WAY \$45,000 \$10,744,000 \$10,701,000 SUBTOTAL \$19,711,000 \$8,225,000 \$16,131,000 ICAP(5%) \$806,550 \$985,550 \$537,200 \$535,050 \$411,250 \$17,000,000 \$20,700,000 \$11,300,000 \$11,300,000 \$8,700,000 TOTAL Cost Per Mile \$2,000,000 \$1,600,000 \$2,700,000 \$2,200,000 \$1,800,000