

## APPENDIX B: PLANNING LEVEL COST ESTIMATES

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**US 31 South PEL Study**

**Level 3 Screening**

**Miami Central**

**Package 1**

| Item No   | Description                                  | Qty   | Unit | Unit Cost | Construction Cost |
|---|--|-------|------|-----------|-------------------|
| 203-0200  | Excavation Common                            | 22313 | CYS  | \$ 36     | \$ 803,000        |
| 303-01180   | Compacted Aggregate No. 53                   | 9672  | TON  | \$ 81     | \$ 783,000        |
| 203-02070   | Borrow                                       | 17721 | CYS  | \$ 35     | \$ 620,000        |
| 207-12635   | Subgrade Treatment Type IBC                  | 39607 | SYS  | \$ 35     | \$ 1,386,000      |
| 401-000009  | QC/QA-HMA, 4 58E, Surface, 9.5 mm            | 6615  | TON  | \$ 144    | \$ 953,000        |
| 401-000045  | QC/QA-HMA, 4 58E, Intermediate, 19.0 mm      | 5447  | TON  | \$ 166    | \$ 904,000        |
| 401-000048  | QC/QA-HMA, 4 58S, Base, 25.0 mm              | 26142 | TON  | \$ 113    | \$ 2,954,000      |
| 401-000067  | QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm | 5942  | TON  | \$ 110    | \$ 654,000        |
| 618-06192   | Wall   | 0     | LFT  | \$ 793    | \$ -              |
| n/a   | BRIDGES                                      | 18264 | SF   | \$ 175    | \$ 3,196,000      |
| Unquantified Items (as percentage of items above) |  | 52%   |      |           | \$ 6,372,000      |

|  |  |  |           |                   |                         |
|--|--|--|-----------|-------------------|-------------------------|
| <b>Sub-Total</b>                                     |  |  |           | <b>\$</b>         | <b>18,625,000</b>       |
| <b>Contingency</b>                                   |  |  | <b>0%</b> |                   | <b>35%</b>              |
| <b>Expected Range of Construction Cost Sub-Total</b> |  |  | <b>\$</b> | <b>18,625,000</b> | <b>to \$ 25,144,000</b> |

|                          |    |    |         |       |           |
|--------------------------|----|----|---------|-------|-----------|
| Construction Engineering | 2% | \$ | 373,000 | to \$ | 503,000   |
| Mob/Demob                | 5% | \$ | 931,000 | to \$ | 1,257,000 |
| Clearing Right of Way    | 2% | \$ | 373,000 | to \$ | 503,000   |
| MOT                      | 5% | \$ | 931,000 | to \$ | 1,257,000 |

| Additional construction costs not accounted for above: | Qty | Unit | Unit Cost     | Construction Cost |
|--|-----|------|---------------|-------------------|
|  |     |      |               | \$ -              |
|  |     |      |               | \$ -              |
|  |     |      |               | \$ -              |
| Opinion of Probable Construction Cost                  |     |      | \$ 21,233,000 | to \$ 28,664,000  |

|                         |      |    |           |       |           |
|-------------------------|------|----|-----------|-------|-----------|
| UT Cost                 | 7.0% | \$ | 1,486,000 | to \$ | 2,006,000 |
| Preliminary Engineering | 15%  | \$ | 3,185,000 | to \$ | 4,300,000 |
| RW Cost                 |      | \$ | 199,000   | \$    | 269,000   |

| Additional items not accounted for at this stage in design | Qty | Unit | Unit Cost | Construction Cost |
|--|-----|------|-----------|-------------------|
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |

|   |  |  |           |                   |                         |
|---|--|--|-----------|-------------------|-------------------------|
| <b>Opinion of Probable Cost in 2024 Dollars</b> |  |  | <b>\$</b> | <b>26,103,000</b> | <b>to \$ 35,239,000</b> |
|---|--|--|-----------|-------------------|-------------------------|

*\* The opinion of probable costs represented should be considered conceptual in nature and is not a guarantee of actual submitted contractor quotes at time of procurement. Market conditions, economic conditions, and contract delivery mechanisms will have an influence on construction cost at time of procurement. Although these conditions are considered, cost cannot be guaranteed.*

US 31 South PEL Study  
Level 3 Screening

Miami Central  
Package 2

| Item No  | Description                                  | Qty   | Unit | Unit Cost |            | Construction Cost |            |
|--|--|-------|------|-----------|------------|-------------------|------------|
| 203-0200   | Excavation Common                            | 19435 | CYS  | \$        | 36         | \$                | 700,000    |
| 303-01180  | Compacted Aggregate No. 53                   | 7593  | TON  | \$        | 81         | \$                | 615,000    |
| 203-02070  | Borrow                                       | 29719 | CYS  | \$        | 35         | \$                | 1,040,000  |
| 207-12635  | Subgrade Treatment Type IBC                  | 45949 | SYS  | \$        | 35         | \$                | 1,608,000  |
| 401-000009   | QC/QA-HMA, 4 58E, Surface, 9.5 mm            | 5368  | TON  | \$        | 144        | \$                | 773,000    |
| 401-000045   | QC/QA-HMA, 4 58E, Intermediate, 19.0 mm      | 6320  | TON  | \$        | 166        | \$                | 1,049,000  |
| 401-000048   | QC/QA-HMA, 4 58S, Base, 25.0 mm              | 30328 | TON  | \$        | 113        | \$                | 3,427,000  |
| 401-000067   | QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm | 6895  | TON  | \$        | 110        | \$                | 758,000    |
| 618-06192  | Wall   | 0     | LFT  | \$        | 793        | \$                | -          |
| n/a  | BRIDGES                                      | 15026 | SF   | \$        | 175        | \$                | 2,630,000  |
| Unquantified Items (as percentage of items above)          |  | 52%   |      |           |            | \$                | 6,552,000  |
| Sub-Total  |  |       |      |           |            | \$                | 19,152,000 |
| Contingency  |  |       |      |           | 0%         |                   | 35%        |
| Expected Range of Construction Cost Sub-Total              |  |       |      | \$        | 19,152,000 | to \$             | 25,855,000 |
|  |  |       |      |           |            |                   |            |
| Construction Engineering                                   |  | 2%    |      | \$        | 383,000    | to \$             | 517,000    |
| Mob/Demob  |  | 5%    |      | \$        | 958,000    | to \$             | 1,293,000  |
| Clearing Right of Way                                      |  | 2%    |      | \$        | 383,000    | to \$             | 517,000    |
| MOT  |  | 5%    |      | \$        | 958,000    | to \$             | 1,293,000  |
| Additional construction costs not accounted for above:     |  | Qty   | Unit | Unit Cost |            | Construction Cost |            |
|  |  |       |      |           |            | \$                | -          |
|  |  |       |      |           |            | \$                | -          |
|  |  |       |      |           |            | \$                | -          |
| Opinion of Probable Construction Cost                      |  |       |      | \$        | 21,834,000 | to \$             | 29,475,000 |
|  |  |       |      |           |            |                   |            |
| UT Cost  |  | 7.0%  |      | \$        | 1,528,000  | to \$             | 2,063,000  |
| Preliminary Engineering                                    |  | 15%   |      | \$        | 3,275,000  | to \$             | 4,421,000  |
| RW Cost  |  |       |      | \$        | 558,000    | \$                | 753,000    |
| Additional items not accounted for at this stage in design |  | Qty   | Unit | Unit Cost |            | Construction Cost |            |
|  |  |       |      |           |            | \$                | -          |
|  |  |       |      |           |            | \$                | -          |
|  |  |       |      |           |            | \$                | -          |
|  |  |       |      |           |            | \$                | -          |
| Opinion of Probable Cost in 2024 Dollars                   |  |       |      | \$        | 27,195,000 | to \$             | 36,712,000 |

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**US 31 South PEL Study**

**Level 3 Screening**

**Miami Central**

**Package 3**

| Item No   | Description                                  | Qty   | Unit | Unit Cost | Construction Cost |
|---|--|-------|------|-----------|-------------------|
| 203-0200  | Excavation Common                            | 19425 | CYS  | \$ 36     | \$ 699,000        |
| 303-01180   | Compacted Aggregate No. 53                   | 6455  | TON  | \$ 81     | \$ 523,000        |
| 203-02070   | Borrow                                       | 11619 | CYS  | \$ 35     | \$ 407,000        |
| 207-12635   | Subgrade Treatment Type IBC                  | 33516 | SYS  | \$ 35     | \$ 1,173,000      |
| 401-000009  | QC/QA-HMA, 4 58E, Surface, 9.5 mm            | 5289  | TON  | \$ 144    | \$ 762,000        |
| 401-000045  | QC/QA-HMA, 4 58E, Intermediate, 19.0 mm      | 4610  | TON  | \$ 166    | \$ 765,000        |
| 401-000048  | QC/QA-HMA, 4 58S, Base, 25.0 mm              | 22122 | TON  | \$ 113    | \$ 2,500,000      |
| 401-000067  | QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm | 5029  | TON  | \$ 110    | \$ 553,000        |
| 618-06192   | Wall   | 0     | LFT  | \$ 793    | \$ -              |
| n/a   | BRIDGES                                      | 0     | SF   | \$ 175    | \$ -              |
| Unquantified Items (as percentage of items above) |  | 52%   |      |           | \$ 3,839,000      |

|  |  |                      |              |                      |
|--|--|----------------------|--------------|----------------------|
| <b>Sub-Total</b>                                     |  |                      |              | <b>\$ 11,221,000</b> |
| <b>Contingency</b>                                   |  | <b>0%</b>            |              | <b>35%</b>           |
| <b>Expected Range of Construction Cost Sub-Total</b> |  | <b>\$ 11,221,000</b> | <b>to \$</b> | <b>15,148,000</b>    |

|                          |    |            |       |         |
|--------------------------|----|------------|-------|---------|
| Construction Engineering | 2% | \$ 224,000 | to \$ | 303,000 |
| Mob/Demob                | 5% | \$ 561,000 | to \$ | 757,000 |
| Clearing Right of Way    | 2% | \$ 224,000 | to \$ | 303,000 |
| MOT                      | 5% | \$ 561,000 | to \$ | 757,000 |

| Additional construction costs not accounted for above: | Qty | Unit | Unit Cost            | Construction Cost       |
|--|-----|------|----------------------|-------------------------|
|  |     |      |                      | \$ -                    |
|  |     |      |                      | \$ -                    |
|  |     |      |                      | \$ -                    |
| <b>Opinion of Probable Construction Cost</b>           |     |      | <b>\$ 12,791,000</b> | <b>to \$ 17,268,000</b> |

|                         |      |              |       |           |
|-------------------------|------|--------------|-------|-----------|
| UT Cost                 | 7.0% | \$ 895,000   | to \$ | 1,209,000 |
| Preliminary Engineering | 15%  | \$ 1,919,000 | to \$ | 2,590,000 |
| RW Cost                 |      | \$ 221,000   | \$    | 298,000   |

| Additional items not accounted for at this stage in design | Qty | Unit | Unit Cost | Construction Cost |
|--|-----|------|-----------|-------------------|
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |

|   |  |  |                      |                         |
|---|--|--|----------------------|-------------------------|
| <b>Opinion of Probable Cost in 2024 Dollars</b> |  |  | <b>\$ 15,826,000</b> | <b>to \$ 21,365,000</b> |
|---|--|--|----------------------|-------------------------|

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US 31 South PEL Study  
Level 3 Screening

Miami Central  
Package 4

| Item No  | Description                                  | Qty   | Unit | Unit Cost |            | Construction Cost |            |
|--|--|-------|------|-----------|------------|-------------------|------------|
| 203-0200   | Excavation Common                            | 2412  | CYS  | \$        | 36         | \$                | 87,000     |
| 303-01180  | Compacted Aggregate No. 53                   | 3891  | TON  | \$        | 81         | \$                | 315,000    |
| 203-02070  | Borrow                                       | 27081 | CYS  | \$        | 35         | \$                | 948,000    |
| 207-12635  | Subgrade Treatment Type IBC                  | 29844 | SYS  | \$        | 35         | \$                | 1,045,000  |
| 401-000009   | QC/QA-HMA, 4 58E, Surface, 9.5 mm            | 2463  | TON  | \$        | 144        | \$                | 355,000    |
| 401-000045   | QC/QA-HMA, 4 58E, Intermediate, 19.0 mm      | 4036  | TON  | \$        | 166        | \$                | 670,000    |
| 401-000048   | QC/QA-HMA, 4 58S, Base, 25.0 mm              | 19038 | TON  | \$        | 113        | \$                | 2,151,000  |
| 401-000067   | QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm | 5124  | TON  | \$        | 110        | \$                | 564,000    |
| 618-06192  | Wall   | 0     | LFT  | \$        | 793        | \$                | -          |
| n/a  | BRIDGES                                      | 15026 | SF   | \$        | 175        | \$                | 2,630,000  |
| Unquantified Items (as percentage of items above)          |  | 52%   |      |           |            | \$                | 4,558,000  |
| Sub-Total  |  |       |      |           |            | \$                | 13,323,000 |
| Contingency  |  |       |      |           | 0%         |                   | 35%        |
| Expected Range of Construction Cost Sub-Total              |  |       |      | \$        | 13,323,000 | to \$             | 17,986,000 |
|  |  |       |      |           |            |                   |            |
| Construction Engineering                                   |  | 2%    |      | \$        | 266,000    | to \$             | 360,000    |
| Mob/Demob  |  | 5%    |      | \$        | 666,000    | to \$             | 899,000    |
| Clearing Right of Way                                      |  | 2%    |      | \$        | 266,000    | to \$             | 360,000    |
| MOT  |  | 5%    |      | \$        | 666,000    | to \$             | 899,000    |
|  |  |       |      |           |            |                   |            |
| Additional construction costs not accounted for above:     |  | Qty   | Unit | Unit Cost |            | Construction Cost |            |
|  |  |       |      |           |            | \$                | -          |
|  |  |       |      |           |            | \$                | -          |
|  |  |       |      |           |            | \$                | -          |
| Opinion of Probable Construction Cost                      |  |       |      | \$        | 15,187,000 | to \$             | 20,504,000 |
|  |  |       |      |           |            |                   |            |
| UT Cost  |  | 7.0%  |      | \$        | 1,063,000  | to \$             | 1,435,000  |
| Preliminary Engineering                                    |  | 15%   |      | \$        | 2,278,000  | to \$             | 3,076,000  |
| RW Cost  |  |       |      | \$        | 276,000    | \$                | 373,000    |
|  |  |       |      |           |            |                   |            |
| Additional items not accounted for at this stage in design |  | Qty   | Unit | Unit Cost |            | Construction Cost |            |
|  |  |       |      |           |            | \$                | -          |
|  |  |       |      |           |            | \$                | -          |
|  |  |       |      |           |            | \$                | -          |
|  |  |       |      |           |            | \$                | -          |
| Opinion of Probable Cost in 2024 Dollars                   |  |       |      | \$        | 18,804,000 | to \$             | 25,388,000 |

\* The opinion of probable costs represented should be considered conceptual in nature and is not a guarantee of actual submitted contractor quotes at time of procurement. Market conditions, economic conditions, and contract delivery mechanisms will have an influence on construction cost at time of procurement. Although these conditions are considered, cost cannot be guaranteed.

**US 31 South PEL Study**

**Level 3 Screening**

**Peru**

**Package 1**

| Item No   | Description                                  | Qty    | Unit | Unit Cost | Construction Cost |
|---|--|--------|------|-----------|-------------------|
| 203-0200  | Excavation Common                            | 11476  | CYS  | \$ 36     | \$ 413,000        |
| 303-01180   | Compacted Aggregate No. 53                   | 9983   | TON  | \$ 81     | \$ 809,000        |
| 203-02070   | Borrow                                       | 151229 | CYS  | \$ 35     | \$ 5,293,000      |
| 207-12635   | Subgrade Treatment Type IBC                  | 52404  | SYS  | \$ 35     | \$ 1,834,000      |
| 401-000009  | QC/QA-HMA, 4 58E, Surface, 9.5 mm            | 9233   | TON  | \$ 144    | \$ 1,330,000      |
| 401-000045  | QC/QA-HMA, 4 58E, Intermediate, 19.0 mm      | 7209   | TON  | \$ 166    | \$ 1,197,000      |
| 401-000048  | QC/QA-HMA, 4 58S, Base, 25.0 mm              | 34590  | TON  | \$ 113    | \$ 3,909,000      |
| 401-000067  | QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm | 7864   | TON  | \$ 110    | \$ 865,000        |
| 618-06192   | Wall   | 3157   | LFT  | \$ 793    | \$ 2,504,000      |
| n/a   | BRIDGES                                      | 14571  | SF   | \$ 175    | \$ 2,550,000      |
| Unquantified Items (as percentage of items above) |  | 52%    |      |           | \$ 10,766,000     |

|  |                                       |
|--|---------------------------------------|
| <b>Sub-Total</b>                                     | <b>\$ 31,470,000</b>                  |
| <b>Contingency</b>                                   | <b>0% 35%</b>                         |
| <b>Expected Range of Construction Cost Sub-Total</b> | <b>\$ 31,470,000 to \$ 42,485,000</b> |

|                          |    |              |                 |
|--------------------------|----|--------------|-----------------|
| Construction Engineering | 2% | \$ 629,000   | to \$ 850,000   |
| Mob/Demob                | 5% | \$ 1,574,000 | to \$ 2,124,000 |
| Clearing Right of Way    | 2% | \$ 629,000   | to \$ 850,000   |
| MOT                      | 5% | \$ 1,574,000 | to \$ 2,124,000 |

| Additional construction costs not accounted for above: | Qty | Unit | Unit Cost            | Construction Cost       |
|--|-----|------|----------------------|-------------------------|
|  |     |      |                      |                         |
|  |     |      |                      | \$ -                    |
|  |     |      |                      | \$ -                    |
| <b>Opinion of Probable Construction Cost</b>           |     |      | <b>\$ 35,876,000</b> | <b>to \$ 48,433,000</b> |

|                         |      |              |                 |
|-------------------------|------|--------------|-----------------|
| UT Cost                 | 7.0% | \$ 2,511,000 | to \$ 3,390,000 |
| Preliminary Engineering | 15%  | \$ 5,381,000 | to \$ 7,265,000 |
| RW Cost                 |      | \$ 1,051,000 | to \$ 1,419,000 |

| Additional items not accounted for at this stage in design: | Qty | Unit | Unit Cost | Construction Cost |
|---|-----|------|-----------|-------------------|
|   |     |      |           |                   |
|   |     |      |           | \$ -              |
|   |     |      |           | \$ -              |
|   |     |      |           | \$ -              |

|   |                      |                         |
|---|----------------------|-------------------------|
| <b>Opinion of Probable Cost in 2024 Dollars</b> | <b>\$ 44,819,000</b> | <b>to \$ 60,507,000</b> |
|---|----------------------|-------------------------|

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US 31 South PEL Study

Level 3 Screening

Peru

Package 2

| Item No   | Description                                  | Qty    | Unit | Unit Cost | Construction Cost |
|---|--|--------|------|-----------|-------------------|
| 203-0200  | Excavation Common                            | 10122  | CYS  | \$ 36     | \$ 364,000        |
| 303-01180   | Compacted Aggregate No. 53                   | 10381  | TON  | \$ 81     | \$ 841,000        |
| 203-02070   | Borrow                                       | 154238 | CYS  | \$ 35     | \$ 5,398,000      |
| 207-12635   | Subgrade Treatment Type IBC                  | 54644  | SYS  | \$ 35     | \$ 1,913,000      |
| 401-000009  | QC/QA-HMA, 4 58E, Surface, 9.5 mm            | 9383   | TON  | \$ 144    | \$ 1,351,000      |
| 401-000045  | QC/QA-HMA, 4 58E, Intermediate, 19.0 mm      | 7518   | TON  | \$ 166    | \$ 1,248,000      |
| 401-000048  | QC/QA-HMA, 4 58S, Base, 25.0 mm              | 36068  | TON  | \$ 113    | \$ 4,076,000      |
| 401-000067  | QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm | 8199   | TON  | \$ 110    | \$ 902,000        |
| 618-06192   | Wall   | 3157   | LFT  | \$ 793    | \$ 2,504,000      |
| n/a   | BRIDGES                                      | 76281  | SF   | \$ 175    | \$ 13,349,000     |
| Unquantified Items (as percentage of items above) |  | 52%    |      |           | \$ 16,612,000     |

|  |  |                      |              |                      |
|--|--|----------------------|--------------|----------------------|
| <b>Sub-Total</b>                                     |  |                      |              | <b>\$ 48,558,000</b> |
| <b>Contingency</b>                                   |  | <b>0%</b>            |              | <b>35%</b>           |
| <b>Expected Range of Construction Cost Sub-Total</b> |  | <b>\$ 48,558,000</b> | <b>to \$</b> | <b>65,553,000</b>    |

|                          |    |              |       |           |
|--------------------------|----|--------------|-------|-----------|
| Construction Engineering | 2% | \$ 971,000   | to \$ | 1,311,000 |
| Mob/Demob                | 5% | \$ 2,428,000 | to \$ | 3,278,000 |
| Clearing Right of Way    | 2% | \$ 971,000   | to \$ | 1,311,000 |
| MOT                      | 5% | \$ 2,428,000 | to \$ | 3,278,000 |

| Additional construction costs not accounted for above: | Qty | Unit | Unit Cost            | Construction Cost       |
|--|-----|------|----------------------|-------------------------|
|  |     |      |                      |                         |
|  |     |      |                      | \$ -                    |
|  |     |      |                      | \$ -                    |
| <b>Opinion of Probable Construction Cost</b>           |     |      | <b>\$ 55,356,000</b> | <b>to \$ 74,731,000</b> |

|                         |      |              |       |            |
|-------------------------|------|--------------|-------|------------|
| UT Cost                 | 7.0% | \$ 3,875,000 | to \$ | 5,231,000  |
| Preliminary Engineering | 15%  | \$ 8,303,000 | to \$ | 11,210,000 |
| RW Cost                 |      | \$ 1,051,000 | to \$ | 1,419,000  |

| Additional items not accounted for at this stage in design: | Qty | Unit | Unit Cost | Construction Cost |
|---|-----|------|-----------|-------------------|
|   |     |      |           |                   |
|   |     |      |           | \$ -              |
|   |     |      |           | \$ -              |
|   |     |      |           | \$ -              |

|   |  |  |                      |                         |
|---|--|--|----------------------|-------------------------|
| <b>Opinion of Probable Cost in 2024 Dollars</b> |  |  | <b>\$ 68,585,000</b> | <b>to \$ 92,591,000</b> |
|---|--|--|----------------------|-------------------------|

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US 31 South PEL Study  
Level 3 Screening

Peru  
Package 3

| Item No   | Description                                  | Qty     | Unit | Unit Cost |             | Construction Cost |             |
|---|--|---------|------|-----------|-------------|-------------------|-------------|
| 203-0200  | Excavation Common                            | 18599   | CYS  | \$        | 36          | \$                | 670,000     |
| 303-01180   | Compacted Aggregate No. 53                   | 11725   | TON  | \$        | 81          | \$                | 950,000     |
| 203-02070   | Borrow                                       | 1030928 | CYS  | \$        | 35          | \$                | 36,082,000  |
| 207-12635   | Subgrade Treatment Type IBC                  | 87632   | SYS  | \$        | 35          | \$                | 3,067,000   |
| 401-000009  | QC/QA-HMA, 4 58E, Surface, 9.5 mm            | 11947   | TON  | \$        | 144         | \$                | 1,720,000   |
| 401-000045  | QC/QA-HMA, 4 58E, Intermediate, 19.0 mm      | 12052   | TON  | \$        | 166         | \$                | 2,001,000   |
| 401-000048  | QC/QA-HMA, 4 58S, Base, 25.0 mm              | 57840   | TON  | \$        | 113         | \$                | 6,536,000   |
| 401-000067  | QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm | 13149   | TON  | \$        | 110         | \$                | 1,446,000   |
| 618-06192   | Wall   | 0       | LFT  | \$        | 793         | \$                | -           |
| n/a   | BRIDGES                                      | 147200  | SF   | \$        | 175         | \$                | 25,760,000  |
| Unquantified Items (as percentage of items above)           |  | 52%     |      |           |             | \$                | 40,681,000  |
| Sub-Total   |  |         |      |           |             | \$                | 118,913,000 |
| Contingency   |  |         |      | 0%        |             | 35%               |             |
| Expected Range of Construction Cost Sub-Total               |  |         |      | \$        | 118,913,000 | to \$             | 160,533,000 |
|   |  |         |      |           |             |                   |             |
| Construction Engineering                                    |  | 2%      |      | \$        | 2,378,000   | to \$             | 3,211,000   |
| Mob/Demob   |  | 5%      |      | \$        | 5,946,000   | to \$             | 8,027,000   |
| Clearing Right of Way                                       |  | 2%      |      | \$        | 2,378,000   | to \$             | 3,211,000   |
| MOT   |  | 5%      |      | \$        | 5,946,000   | to \$             | 8,027,000   |
|   |  |         |      |           |             |                   |             |
| Additional construction costs not accounted for above:      |  | Qty     | Unit | Unit Cost |             | Construction Cost |             |
|   |  |         |      |           |             |                   |             |
|   |  |         |      |           |             | \$                | -           |
|   |  |         |      |           |             | \$                | -           |
| Opinion of Probable Construction Cost                       |  |         |      | \$        | 135,561,000 | to \$             | 183,009,000 |
|   |  |         |      |           |             |                   |             |
| UT Cost   |  | 7.0%    |      | \$        | 9,489,000   | to \$             | 12,811,000  |
| Preliminary Engineering                                     |  | 15%     |      | \$        | 20,334,000  | to \$             | 27,451,000  |
| RW Cost   |  |         |      | \$        | 4,223,000   | to \$             | 5,700,000   |
|   |  |         |      |           |             |                   |             |
| Additional items not accounted for at this stage in design: |  | Qty     | Unit | Unit Cost |             | Construction Cost |             |
|   |  |         |      |           |             |                   |             |
|   |  |         |      |           |             | \$                | -           |
|   |  |         |      |           |             | \$                | -           |
|   |  |         |      |           |             | \$                | -           |
| Opinion of Probable Cost in 2024 Dollars                    |  |         |      | \$        | 169,607,000 | to \$             | 228,971,000 |

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US 31 South PEL Study  
Level 3 Screening

Peru  
Package 4

| Item No   | Description                                  | Qty     | Unit | Unit Cost |             | Construction Cost |             |
|---|--|---------|------|-----------|-------------|-------------------|-------------|
| 203-0200  | Excavation Common                            | 18916   | CYS  | \$        | 36          | \$                | 681,000     |
| 303-01180   | Compacted Aggregate No. 53                   | 9873    | TON  | \$        | 81          | \$                | 800,000     |
| 203-02070   | Borrow                                       | 1037276 | CYS  | \$        | 35          | \$                | 36,305,000  |
| 207-12635   | Subgrade Treatment Type IBC                  | 83789   | SYS  | \$        | 35          | \$                | 2,933,000   |
| 401-000009  | QC/QA-HMA, 4 58E, Surface, 9.5 mm            | 10194   | TON  | \$        | 144         | \$                | 1,468,000   |
| 401-000045  | QC/QA-HMA, 4 58E, Intermediate, 19.0 mm      | 11524   | TON  | \$        | 166         | \$                | 1,913,000   |
| 401-000048  | QC/QA-HMA, 4 58S, Base, 25.0 mm              | 55304   | TON  | \$        | 113         | \$                | 6,249,000   |
| 401-000067  | QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm | 12572   | TON  | \$        | 110         | \$                | 1,383,000   |
| 618-06192   | Wall   | 0       | LFT  | \$        | 793         | \$                | -           |
| n/a   | BRIDGES                                      | 134702  | SF   | \$        | 175         | \$                | 23,573,000  |
| Unquantified Items (as percentage of items above)           |  | 52%     |      |           |             | \$                | 39,159,000  |
| Sub-Total   |  |         |      |           |             | \$                | 114,464,000 |
| Contingency   |  |         |      | 0%        |             | 35%               |             |
| Expected Range of Construction Cost Sub-Total               |  |         |      | \$        | 114,464,000 | to \$             | 154,526,000 |
|   |  |         |      |           |             |                   |             |
| Construction Engineering                                    |  | 2%      |      | \$        | 2,289,000   | to \$             | 3,091,000   |
| Mob/Demob   |  | 5%      |      | \$        | 5,723,000   | to \$             | 7,726,000   |
| Clearing Right of Way                                       |  | 2%      |      | \$        | 2,289,000   | to \$             | 3,091,000   |
| MOT   |  | 5%      |      | \$        | 5,723,000   | to \$             | 7,726,000   |
|   |  |         |      |           |             |                   |             |
| Additional construction costs not accounted for above:      |  | Qty     | Unit | Unit Cost |             | Construction Cost |             |
|   |  |         |      |           |             |                   |             |
|   |  |         |      |           |             | \$                | -           |
|   |  |         |      |           |             | \$                | -           |
| Opinion of Probable Construction Cost                       |  |         |      | \$        | 130,488,000 | to \$             | 176,160,000 |
|   |  |         |      |           |             |                   |             |
| UT Cost   |  | 7.0%    |      | \$        | 9,134,000   | to \$             | 12,331,000  |
| Preliminary Engineering                                     |  | 15%     |      | \$        | 19,573,000  | to \$             | 26,424,000  |
| RW Cost   |  |         |      | \$        | 7,397,000   | to \$             | 9,990,000   |
|   |  |         |      |           |             |                   |             |
| Additional items not accounted for at this stage in design: |  | Qty     | Unit | Unit Cost |             | Construction Cost |             |
|   |  |         |      |           |             |                   |             |
|   |  |         |      |           |             | \$                | -           |
|   |  |         |      |           |             | \$                | -           |
|   |  |         |      |           |             | \$                | -           |
| Opinion of Probable Cost in 2024 Dollars                    |  |         |      | \$        | 166,592,000 | to \$             | 224,905,000 |

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US 31 South PEL Study  
Level 3 Screening

Peru  
Package 5

| Item No   | Description                                  | Qty     | Unit | Unit Cost |             | Construction Cost |             |
|---|--|---------|------|-----------|-------------|-------------------|-------------|
| 203-0200  | Excavation Common                            | 18916   | CYS  | \$        | 36          | \$                | 681,000     |
| 303-01180   | Compacted Aggregate No. 53                   | 9873    | TON  | \$        | 81          | \$                | 800,000     |
| 203-02070   | Borrow                                       | 1037276 | CYS  | \$        | 35          | \$                | 36,305,000  |
| 207-12635   | Subgrade Treatment Type IBC                  | 83789   | SYS  | \$        | 35          | \$                | 2,933,000   |
| 401-000009  | QC/QA-HMA, 4 58E, Surface, 9.5 mm            | 10194   | TON  | \$        | 144         | \$                | 1,468,000   |
| 401-000045  | QC/QA-HMA, 4 58E, Intermediate, 19.0 mm      | 11524   | TON  | \$        | 166         | \$                | 1,913,000   |
| 401-000048  | QC/QA-HMA, 4 58S, Base, 25.0 mm              | 55304   | TON  | \$        | 113         | \$                | 6,249,000   |
| 401-000067  | QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm | 12572   | TON  | \$        | 110         | \$                | 1,383,000   |
| 618-06192   | Wall   | 0       | LFT  | \$        | 793         | \$                | -           |
| n/a   | BRIDGES                                      | 134702  | SF   | \$        | 175         | \$                | 23,573,000  |
| Unquantified Items (as percentage of items above)           |  | 52%     |      |           |             | \$                | 39,159,000  |
| Sub-Total   |  |         |      |           |             | \$                | 114,464,000 |
| Contingency   |  |         |      | 0%        |             | 35%               |             |
| Expected Range of Construction Cost Sub-Total               |  |         |      | \$        | 114,464,000 | to \$             | 154,526,000 |
|   |  |         |      |           |             |                   |             |
| Construction Engineering                                    |  | 2%      |      | \$        | 2,289,000   | to \$             | 3,091,000   |
| Mob/Demob   |  | 5%      |      | \$        | 5,723,000   | to \$             | 7,726,000   |
| Clearing Right of Way                                       |  | 2%      |      | \$        | 2,289,000   | to \$             | 3,091,000   |
| MOT   |  | 5%      |      | \$        | 5,723,000   | to \$             | 7,726,000   |
|   |  |         |      |           |             |                   |             |
| Additional construction costs not accounted for above:      |  | Qty     | Unit | Unit Cost |             | Construction Cost |             |
|   |  |         |      |           |             |                   |             |
|   |  |         |      |           |             | \$                | -           |
|   |  |         |      |           |             | \$                | -           |
| Opinion of Probable Construction Cost                       |  |         |      | \$        | 130,488,000 | to \$             | 176,160,000 |
|   |  |         |      |           |             |                   |             |
| UT Cost   |  | 7.0%    |      | \$        | 9,134,000   | to \$             | 12,331,000  |
| Preliminary Engineering                                     |  | 15%     |      | \$        | 19,573,000  | to \$             | 26,424,000  |
| RW Cost   |  |         |      | \$        | 15,161,000  | to \$             | 20,470,000  |
|   |  |         |      |           |             |                   |             |
| Additional items not accounted for at this stage in design: |  | Qty     | Unit | Unit Cost |             | Construction Cost |             |
|   |  |         |      |           |             |                   |             |
|   |  |         |      |           |             | \$                | -           |
|   |  |         |      |           |             | \$                | -           |
|   |  |         |      |           |             | \$                | -           |
| Opinion of Probable Cost in 2024 Dollars                    |  |         |      | \$        | 174,356,000 | to \$             | 235,385,000 |

\* The opinion of probable costs represented should be considered conceptual in nature and is not a guarantee of actual submitted contractor quotes at time of procurement. Market conditions, economic conditions, and contract delivery mechanisms will have an influence on construction cost at time of procurement. Although these conditions are considered, cost cannot be guaranteed.

**US 31 South PEL Study**

**Level 3 Screening**

**Grissom Package 1**

| Item No   | Description                                  | Qty    | Unit | Unit Cost | Construction Cost |
|---|--|--------|------|-----------|-------------------|
| 203-02000   | Excavation Common                            | 30,169 | CYS  | \$ 36     | \$ 1,086,000      |
| 303-01180   | Compacted Aggregate No. 53                   | 15,575 | TON  | \$ 81     | \$ 1,262,000      |
| 203-02070   | Borrow                                       | 14,086 | CYS  | \$ 35     | \$ 493,000        |
| 207-12635   | Subgrade Treatment Type IBC                  | 59,958 | SYS  | \$ 35     | \$ 2,099,000      |
| 401-000009  | QC/QA-HMA, 4 58E, Surface, 9.5 mm            | 11,757 | TON  | \$ 144    | \$ 1,693,000      |
| 401-000045  | QC/QA-HMA, 4 58E, Intermediate, 19.0 mm      | 8,249  | TON  | \$ 166    | \$ 1,369,000      |
| 401-000048  | QC/QA-HMA, 4 58S, Base, 25.0 mm              | 39,577 | TON  | \$ 113    | \$ 4,472,000      |
| 401-000067  | QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm | 9,000  | TON  | \$ 110    | \$ 990,000        |
| 618-06192   | Wall   | 0      | LFT  | \$ 793    | \$ -              |
| n/a   | BRIDGES                                      | 27,734 | SF   | \$ 175    | \$ 4,853,000      |
| Unquantified Items (as percentage of items above) |  | 52%    |      |           | \$ 9,525,000      |

|  |  |  |                                       |                      |
|--|--|--|---------------------------------------|----------------------|
| <b>Sub-Total</b>                                     |  |  |                                       | <b>\$ 27,842,000</b> |
| <b>Contingency</b>                                   |  |  | <b>0%</b>                             | <b>35%</b>           |
| <b>Expected Range of Construction Cost Sub-Total</b> |  |  | <b>\$ 27,842,000 to \$ 37,587,000</b> |                      |

|                          |    |              |                 |
|--------------------------|----|--------------|-----------------|
| Construction Engineering | 2% | \$ 557,000   | to \$ 752,000   |
| Mob/Demob                | 5% | \$ 1,392,000 | to \$ 1,879,000 |
| Clearing Right of Way    | 2% | \$ 557,000   | to \$ 752,000   |
| MOT                      | 5% | \$ 1,392,000 | to \$ 1,879,000 |

| Additional construction costs not accounted for above: | Qty | Unit | Unit Cost                             | Construction Cost |
|--|-----|------|---------------------------------------|-------------------|
|  |     |      |                                       |                   |
|  |     |      |                                       | \$ -              |
|  |     |      |                                       | \$ -              |
|  |     |      |                                       | \$ -              |
| <b>Opinion of Probable Construction Cost</b>           |     |      | <b>\$ 31,740,000 to \$ 42,849,000</b> |                   |

|                         |      |              |                 |
|-------------------------|------|--------------|-----------------|
| UT Cost                 | 7.0% | \$ 2,222,000 | to \$ 2,999,000 |
| Preliminary Engineering | 15%  | \$ 4,761,000 | to \$ 6,427,000 |
| RW Cost                 |      | \$ 376,000   | to \$ 508,000   |

| Additional items not accounted for at this stage in design | Qty | Unit | Unit Cost | Construction Cost |
|--|-----|------|-----------|-------------------|
|  |     |      |           |                   |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |

|   |  |  |  |  |
|---|--|--|--|--|
| <b>Opinion of Probable Cost in 2024 Dollars</b> |  |  | <b>to \$ 39,099,000 to \$ 52,783,000</b> |  |
|---|--|--|--|--|

*\* The opinion of probable costs represented should be considered conceptual in nature and is not a guarantee of actual submitted contractor quotes at time of procurement. Market conditions, economic conditions, and contract delivery mechanisms will have an influence on construction cost at time of procurement. Although these conditions are considered, cost cannot be guaranteed.*

**US 31 South PEL Study**

**Level 3 Screening**

**Grissom Package 2**

| Item No   | Description                                  | Qty    | Unit | Unit Cost | Construction Cost |
|---|--|--------|------|-----------|-------------------|
| 203-02000   | Excavation Common                            | 29,260 | CYS  | \$ 36     | \$ 1,053,000      |
| 303-01180   | Compacted Aggregate No. 53                   | 16,267 | TON  | \$ 81     | \$ 1,318,000      |
| 211-02070   | Borrow                                       | 12,868 | CYS  | \$ 35     | \$ 450,000        |
| 207-12635   | Subgrade Treatment Type IBC                  | 73,752 | SYS  | \$ 35     | \$ 2,581,000      |
| 401-000009  | QC/QA-HMA, 4 58E, Surface, 9.5 mm            | 13,095 | TON  | \$ 144    | \$ 1,886,000      |
| 401-000045  | QC/QA-HMA, 4 58E, Intermediate, 19.0 mm      | 10,146 | TON  | \$ 166    | \$ 1,684,000      |
| 401-000048  | QC/QA-HMA, 4 58S, Base, 25.0 mm              | 48,681 | TON  | \$ 113    | \$ 5,501,000      |
| 401-000067  | QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm | 11,069 | TON  | \$ 110    | \$ 1,218,000      |
| 618-06192   | Wall   | 0      | LFT  | \$ 793    | \$ -              |
| n/a   | BRIDGES                                      | 27,734 | SF   | \$ 175    | \$ 4,853,000      |
| Unquantified Items (as percentage of items above) |  | 52%    |      |           | \$ 10,683,000     |

|  |  |  |           |                   |                         |
|--|--|--|-----------|-------------------|-------------------------|
| <b>Sub-Total</b>                                     |  |  |           | <b>\$</b>         | <b>31,227,000</b>       |
| <b>Contingency</b>                                   |  |  | <b>0%</b> |                   | <b>35%</b>              |
| <b>Expected Range of Construction Cost Sub-Total</b> |  |  | <b>\$</b> | <b>31,227,000</b> | <b>to \$ 42,156,000</b> |

|                          |    |    |           |       |           |
|--------------------------|----|----|-----------|-------|-----------|
| Construction Engineering | 2% | \$ | 625,000   | to \$ | 843,000   |
| Mob/Demob                | 5% | \$ | 1,561,000 | to \$ | 2,108,000 |
| Clearing Right of Way    | 2% | \$ | 625,000   | to \$ | 843,000   |
| MOT                      | 5% | \$ | 1,561,000 | to \$ | 2,108,000 |

| Additional construction costs not accounted for above: | Qty | Unit | Unit Cost            | Construction Cost       |
|--|-----|------|----------------------|-------------------------|
|  |     |      |                      |                         |
|  |     |      |                      | \$ -                    |
|  |     |      |                      | \$ -                    |
|  |     |      |                      | \$ -                    |
| <b>Opinion of Probable Construction Cost</b>           |     |      | <b>\$ 35,599,000</b> | <b>to \$ 48,058,000</b> |

|                         |      |    |           |       |           |
|-------------------------|------|----|-----------|-------|-----------|
| UT Cost                 | 7.0% | \$ | 2,492,000 | to \$ | 3,364,000 |
| Preliminary Engineering | 15%  | \$ | 5,340,000 | to \$ | 7,209,000 |
| RW Cost                 |      | \$ | 364,000   | to \$ | 491,000   |

| Additional items not accounted for at this stage in design | Qty | Unit | Unit Cost | Construction Cost |
|--|-----|------|-----------|-------------------|
|  |     |      |           |                   |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |

|   |  |  |                      |                         |
|---|--|--|----------------------|-------------------------|
| <b>Opinion of Probable Cost in 2024 Dollars</b> |  |  | <b>\$ 43,795,000</b> | <b>to \$ 59,122,000</b> |
|---|--|--|----------------------|-------------------------|

*\* The opinion of probable costs represented should be considered conceptual in nature and is not a guarantee of actual submitted contractor quotes at time of procurement. Market conditions, economic conditions, and contract delivery mechanisms will have an influence on construction cost at time of procurement. Although these conditions are considered, cost cannot be guaranteed.*

**US 31 South PEL Study**

**Level 3 Screening**

**Grissom Package 3**

| Item No   | Description                                  | Qty    | Unit | Unit Cost | Construction Cost |
|---|--|--------|------|-----------|-------------------|
| 203-02000   | Excavation Common                            | 34,558 | CYS  | \$ 36     | \$ 1,244,000      |
| 303-01180   | Compacted Aggregate No. 53                   | 15,822 | TON  | \$ 81     | \$ 1,282,000      |
| 211-020570  | Borrow                                       | 15,120 | CYS  | \$ 35     | \$ 529,000        |
| 207-12635   | Subgrade Treatment Type IBC                  | 62,318 | SYS  | \$ 35     | \$ 2,181,000      |
| 401-000009  | QC/QA-HMA, 4 58E, Surface, 9.5 mm            | 12,145 | TON  | \$ 144    | \$ 1,749,000      |
| 401-000045  | QC/QA-HMA, 4 58E, Intermediate, 19.0 mm      | 8,574  | TON  | \$ 166    | \$ 1,423,000      |
| 401-000048  | QC/QA-HMA, 4 58S, Base, 25.0 mm              | 41,136 | TON  | \$ 113    | \$ 4,648,000      |
| 401-000067  | QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm | 9,353  | TON  | \$ 110    | \$ 1,029,000      |
| 618-06192   | Wall   | 0      | LFT  | \$ 793    | \$ -              |
| n/a   | BRIDGES                                      | 33,550 | SF   | \$ 175    | \$ 5,871,000      |
| Unquantified Items (as percentage of items above) |  | 52%    |      |           | \$ 10,377,000     |

|  |  |                      |              |                      |
|--|--|----------------------|--------------|----------------------|
| <b>Sub-Total</b>                                     |  |                      |              | <b>\$ 30,333,000</b> |
| <b>Contingency</b>                                   |  | <b>0%</b>            |              | <b>35%</b>           |
| <b>Expected Range of Construction Cost Sub-Total</b> |  | <b>\$ 30,333,000</b> | <b>to \$</b> | <b>40,950,000</b>    |

|                          |    |              |       |           |
|--------------------------|----|--------------|-------|-----------|
| Construction Engineering | 2% | \$ 607,000   | to \$ | 819,000   |
| Mob/Demob                | 5% | \$ 1,517,000 | to \$ | 2,048,000 |
| Clearing Right of Way    | 2% | \$ 607,000   | to \$ | 819,000   |
| MOT                      | 5% | \$ 1,517,000 | to \$ | 2,048,000 |

| Additional construction costs not accounted for above: | Qty | Unit | Unit Cost            | Construction Cost       |
|--|-----|------|----------------------|-------------------------|
|  |     |      |                      |                         |
|  |     |      |                      | \$ -                    |
|  |     |      |                      | \$ -                    |
|  |     |      |                      | \$ -                    |
| <b>Opinion of Probable Construction Cost</b>           |     |      | <b>\$ 34,581,000</b> | <b>to \$ 46,684,000</b> |

|                         |      |              |       |           |
|-------------------------|------|--------------|-------|-----------|
| UT Cost                 | 7.0% | \$ 2,421,000 | to \$ | 3,268,000 |
| Preliminary Engineering | 15%  | \$ 5,187,000 | to \$ | 7,003,000 |
| RW Cost                 |      | \$ 434,000   | to \$ | 586,000   |

| Additional items not accounted for at this stage in design | Qty | Unit | Unit Cost | Construction Cost |
|--|-----|------|-----------|-------------------|
|  |     |      |           |                   |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |

|   |  |  |                      |                         |
|---|--|--|----------------------|-------------------------|
| <b>Opinion of Probable Cost in 2023 Dollars</b> |  |  | <b>\$ 42,623,000</b> | <b>to \$ 57,541,000</b> |
|---|--|--|----------------------|-------------------------|

*\* The opinion of probable costs represented should be considered conceptual in nature and is not a guarantee of actual submitted contractor quotes at time of procurement. Market conditions, economic conditions, and contract delivery mechanisms will have an influence on construction cost at time of procurement. Although these conditions are considered, cost cannot be guaranteed.*

**US 31 South PEL Study**

**Level 3 Screening**

**Grissom Package 4**

| Item No    | Description                                       | Qty     | Unit | Unit Cost | Construction Cost |
|------------|---|---------|------|-----------|-------------------|
| 203-02000  | Excavation Common                                 | 117,058 | CYS  | \$ 36     | \$ 4,214,000      |
| 303-01180  | Compacted Aggregate No. 53                        | 11,349  | TON  | \$ 81     | \$ 919,000        |
| 211-02070  | Borrow  | 502,599 | CYS  | \$ 35     | \$ 17,591,000     |
| 207-12635  | Subgrade Treatment Type IBC                       | 156,491 | SYS  | \$ 35     | \$ 5,477,000      |
| 401-000009 | QC/QA-HMA, 4 58E, Surface, 9.5 mm                 | 15,727  | TON  | \$ 144    | \$ 2,265,000      |
| 401-000045 | QC/QA-HMA, 4 58E, Intermediate, 19.0 mm           | 21,521  | TON  | \$ 166    | \$ 3,572,000      |
| 401-000048 | QC/QA-HMA, 4 58S, Base, 25.0 mm                   | 103,287 | TON  | \$ 113    | \$ 11,671,000     |
| 401-000067 | QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm      | 23,478  | TON  | \$ 110    | \$ 2,583,000      |
| 618-06192  | Wall  | 1,362   | LFT  | \$ 793    | \$ 1,080,000      |
| n/a        | BRIDGES   | 47,028  | SF   | \$ 175    | \$ 8,230,000      |
|            | Unquantified Items (as percentage of items above) | 52%     |      |           | \$ 29,953,000     |

|  |  |                      |              |                      |
|--|--|----------------------|--------------|----------------------|
| <b>Sub-Total</b>                                     |  |                      |              | <b>\$ 87,555,000</b> |
| <b>Contingency</b>                                   |  |                      | <b>0%</b>    | <b>35%</b>           |
| <b>Expected Range of Construction Cost Sub-Total</b> |  | <b>\$ 87,555,000</b> | <b>to \$</b> | <b>118,199,000</b>   |

|                          |    |              |       |           |
|--------------------------|----|--------------|-------|-----------|
| Construction Engineering | 2% | \$ 1,751,000 | to \$ | 2,364,000 |
| Mob/Demob                | 5% | \$ 4,378,000 | to \$ | 5,910,000 |
| Clearing Right of Way    | 2% | \$ 1,751,000 | to \$ | 2,364,000 |
| MOT                      | 5% | \$ 4,378,000 | to \$ | 5,910,000 |

| Additional construction costs not accounted for above: | Qty | Unit | Unit Cost            | Construction Cost        |
|--|-----|------|----------------------|--------------------------|
|  |     |      |                      |                          |
|  |     |      |                      | \$ -                     |
|  |     |      |                      | \$ -                     |
|  |     |      |                      | \$ -                     |
| <b>Opinion of Probable Construction Cost</b>           |     |      | <b>\$ 99,813,000</b> | <b>to \$ 134,747,000</b> |

|                         |      |               |       |            |
|-------------------------|------|---------------|-------|------------|
| UT Cost                 | 7.0% | \$ 6,987,000  | to \$ | 9,432,000  |
| Preliminary Engineering | 15%  | \$ 14,972,000 | to \$ | 20,212,000 |
| RW Cost                 |      | \$ 2,434,000  | to \$ | 3,286,000  |

| Additional items not accounted for at this stage in design | Qty | Unit | Unit Cost | Construction Cost |
|--|-----|------|-----------|-------------------|
|  |     |      |           |                   |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |

|  |  |  |                       |                          |
|--|--|--|-----------------------|--------------------------|
| <b>Opinion of Probable Cost in 202 Dollars</b> |  |  | <b>\$ 124,206,000</b> | <b>to \$ 167,677,000</b> |
|--|--|--|-----------------------|--------------------------|

*\* The opinion of probable costs represented should be considered conceptual in nature and is not a guarantee of actual submitted contractor quotes at time of procurement. Market conditions, economic conditions, and contract delivery mechanisms will have an influence on construction cost at time of procurement. Although these conditions are considered, cost cannot be guaranteed.*

**US 31 South PEL Study**

**Level 3 Screening**

**Grissom Package 5 Summary**

| Item No   | Description                                  | Qty     | Unit | Unit Cost | Construction Cost |
|---|--|---------|------|-----------|-------------------|
| 203-02000   | Excavation Common                            | 35,535  | CYS  | \$ 36     | \$ 1,279,000      |
| 303-01180   | Compacted Aggregate No. 53                   | 10,274  | TON  | \$ 81     | \$ 832,000        |
| 211-02070   | Borrow                                       | 380,024 | CYS  | \$ 35     | \$ 13,301,000     |
| 207-12635   | Subgrade Treatment Type IBC                  | 140,127 | SYS  | \$ 35     | \$ 4,904,000      |
| 401-000009  | QC/QA-HMA, 4 58E, Surface, 9.5 mm            | 13,776  | TON  | \$ 144    | \$ 1,984,000      |
| 401-000045  | QC/QA-HMA, 4 58E, Intermediate, 19.0 mm      | 19,272  | TON  | \$ 166    | \$ 3,199,000      |
| 401-000048  | QC/QA-HMA, 4 58S, Base, 25.0 mm              | 92,486  | TON  | \$ 113    | \$ 10,451,000     |
| 401-000067  | QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm | 21,023  | TON  | \$ 110    | \$ 2,313,000      |
| 618-06192   | Wall   | 1,362   | LFT  | \$ 793    | \$ 1,080,000      |
| n/a   | BRIDGES                                      | 45,776  | SF   | \$ 175    | \$ 8,011,000      |
| Unquantified Items (as percentage of items above) |  | 52%     |      |           | \$ 24,624,000     |

|  |  |  |                                       |                      |
|--|--|--|---------------------------------------|----------------------|
| <b>Sub-Total</b>                                     |  |  |                                       | <b>\$ 71,978,000</b> |
| <b>Contingency</b>                                   |  |  | <b>0%</b>                             | <b>35%</b>           |
| <b>Expected Range of Construction Cost Sub-Total</b> |  |  | <b>\$ 71,978,000 to \$ 97,170,000</b> |                      |

|                          |    |              |                 |
|--------------------------|----|--------------|-----------------|
| Construction Engineering | 2% | \$ 1,440,000 | to \$ 1,943,000 |
| Mob/Demob                | 5% | \$ 3,599,000 | to \$ 4,859,000 |
| Clearing Right of Way    | 2% | \$ 1,440,000 | to \$ 1,943,000 |
| MOT                      | 5% | \$ 3,599,000 | to \$ 4,859,000 |

| Additional construction costs not accounted for above: | Qty | Unit | Unit Cost                              | Construction Cost |
|--|-----|------|--|-------------------|
|  |     |      |  |                   |
|  |     |      |  | \$ -              |
|  |     |      |  | \$ -              |
|  |     |      |  | \$ -              |
| <b>Opinion of Probable Construction Cost</b>           |     |      | <b>\$ 82,056,000 to \$ 110,774,000</b> |                   |

|                         |      |               |                  |
|-------------------------|------|---------------|------------------|
| UT Cost                 | 7.0% | \$ 5,744,000  | to \$ 7,754,000  |
| Preliminary Engineering | 15%  | \$ 12,308,000 | to \$ 16,616,000 |
| RW Cost                 |      | \$ 6,367,000  | to \$ 8,595,000  |

| Additional items not accounted for at this stage in design | Qty | Unit | Unit Cost | Construction Cost |
|--|-----|------|-----------|-------------------|
|  |     |      |           |                   |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |

|   |  |  |   |  |
|---|--|--|---|--|
| <b>Opinion of Probable Cost in 2024 Dollars</b> |  |  | <b>\$ 106,475,000 to \$ 143,739,000</b> |  |
|---|--|--|---|--|

*\* The opinion of probable costs represented should be considered conceptual in nature and is not a guarantee of actual submitted contractor quotes at time of procurement. Market conditions, economic conditions, and contract delivery mechanisms will have an influence on construction cost at time of procurement. Although these conditions are considered, cost cannot be guaranteed.*

**US 31 South PEL Study**

**Level 3 Screening**

**Package 6 Summary**

| Item No   | Description                                  | Qty     | Unit | Unit Cost | Construction Cost |
|---|--|---------|------|-----------|-------------------|
| 203-02000   | Excavation Common                            | 161,417 | CYS  | \$ 36     | \$ 5,811,000      |
| 303-01180   | Compacted Aggregate No. 53                   | 17,900  | TON  | \$ 81     | \$ 1,450,000      |
| 211-02070   | Borrow                                       | 899,088 | CYS  | \$ 35     | \$ 31,468,000     |
| 207-12635   | Subgrade Treatment Type IBC                  | 185,159 | SYS  | \$ 35     | \$ 6,481,000      |
| 401-000009  | QC/QA-HMA, 4 58E, Surface, 9.5 mm            | 16,238  | TON  | \$ 144    | \$ 2,338,000      |
| 401-000045  | QC/QA-HMA, 4 58E, Intermediate, 19.0 mm      | 25,462  | TON  | \$ 166    | \$ 4,227,000      |
| 401-000048  | QC/QA-HMA, 4 58S, Base, 25.0 mm              | 122,210 | TON  | \$ 113    | \$ 13,810,000     |
| 401-000067  | QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm | 27,777  | TON  | \$ 110    | \$ 3,055,000      |
| 618-06192   | Wall   | 0       | LFT  | \$ 793    | \$ -              |
| n/a   | BRIDGES                                      | 74,509  | SF   | \$ 175    | \$ 13,039,000     |
| Unquantified Items (as percentage of items above) |  | 52%     |      |           | \$ 42,473,000     |

|  |  |                       |              |                       |
|--|--|-----------------------|--------------|-----------------------|
| <b>Sub-Total</b>                                     |  |                       |              | <b>\$ 124,152,000</b> |
| <b>Contingency</b>                                   |  |                       | <b>0%</b>    | <b>35%</b>            |
| <b>Expected Range of Construction Cost Sub-Total</b> |  | <b>\$ 124,152,000</b> | <b>to \$</b> | <b>167,605,000</b>    |

|                          |    |              |       |           |
|--------------------------|----|--------------|-------|-----------|
| Construction Engineering | 2% | \$ 2,483,000 | to \$ | 3,352,000 |
| Mob/Demob                | 5% | \$ 6,208,000 | to \$ | 8,380,000 |
| Clearing Right of Way    | 2% | \$ 2,483,000 | to \$ | 3,352,000 |
| MOT                      | 5% | \$ 6,208,000 | to \$ | 8,380,000 |

| Additional construction costs not accounted for above: | Qty | Unit | Unit Cost             | Construction Cost        |
|--|-----|------|-----------------------|--------------------------|
|  |     |      |                       |                          |
|  |     |      |                       | \$ -                     |
|  |     |      |                       | \$ -                     |
|  |     |      |                       | \$ -                     |
| <b>Opinion of Probable Construction Cost</b>           |     |      | <b>\$ 141,534,000</b> | <b>to \$ 191,069,000</b> |

|                         |      |               |       |            |
|-------------------------|------|---------------|-------|------------|
| UT Cost                 | 7.0% | \$ 9,907,000  | to \$ | 13,375,000 |
| Preliminary Engineering | 15%  | \$ 21,230,000 | to \$ | 28,660,000 |
| RW Cost                 |      | \$ 13,805,000 | to \$ | 18,637,000 |

| Additional items not accounted for at this stage in design | Qty | Unit | Unit Cost | Construction Cost |
|--|-----|------|-----------|-------------------|
|  |     |      |           |                   |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |

|   |  |                       |              |                    |
|---|--|-----------------------|--------------|--------------------|
| <b>Opinion of Probable Cost in 2024 Dollars</b> |  | <b>\$ 186,476,000</b> | <b>to \$</b> | <b>251,741,000</b> |
|---|--|-----------------------|--------------|--------------------|

*\* The opinion of probable costs represented should be considered conceptual in nature and is not a guarantee of actual submitted contractor quotes at time of procurement. Market conditions, economic conditions, and contract delivery mechanisms will have an influence on construction cost at time of procurement. Although these conditions are considered, cost cannot be guaranteed.*



**US 31 South PEL Study**

**Level 3 Screening**

**Miami South Package 1**

| Item No   | Description                                  | Qty   | Unit | Unit Cost | Construction Cost |
|---|--|-------|------|-----------|-------------------|
| 203-0200  | Excavation Common                            | 12989 | CYS  | \$ 36     | \$ 468,000        |
| 303-01180   | Compacted Aggregate No. 53                   | 12143 | TON  | \$ 81     | \$ 984,000        |
| 203-02070   | Borrow                                       | 2111  | CYS  | \$ 35     | \$ 74,000         |
| 207-12635   | Subgrade Treatment Type IBC                  | 44586 | SYS  | \$ 35     | \$ 1,560,000      |
| 401-000009  | QC/QA-HMA, 4 58E, Surface, 9.5 mm            | 9645  | TON  | \$ 144    | \$ 1,389,000      |
| 401-000045  | QC/QA-HMA, 4 58E, Intermediate, 19.0 mm      | 6137  | TON  | \$ 166    | \$ 1,019,000      |
| 401-000048  | QC/QA-HMA, 4 58S, Base, 25.0 mm              | 29433 | TON  | \$ 113    | \$ 3,326,000      |
| 401-000067  | QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm | 6693  | TON  | \$ 110    | \$ 736,000        |
| 618-06192   | Wall   | 0     | LFT  | \$ 793    | \$ -              |
| n/a   | BRIDGES                                      | 0     | SF   | \$ 175    | \$ -              |
| Unquantified Items (as percentage of items above) |  | 52%   |      |           | \$ 4,969,000      |

|  |  |                      |                         |                      |
|--|--|----------------------|-------------------------|----------------------|
| <b>Sub-Total</b>                                     |  |                      |                         | <b>\$ 14,525,000</b> |
| <b>Contingency</b>                                   |  | <b>0%</b>            |                         | <b>35%</b>           |
| <b>Expected Range of Construction Cost Sub-Total</b> |  | <b>\$ 14,525,000</b> | <b>to \$ 19,609,000</b> |                      |

|                          |    |            |               |
|--------------------------|----|------------|---------------|
| Construction Engineering | 2% | \$ 291,000 | to \$ 392,000 |
| Mob/Demob                | 5% | \$ 726,000 | to \$ 980,000 |
| Clearing Right of Way    | 2% | \$ 291,000 | to \$ 392,000 |
| MOT                      | 5% | \$ 726,000 | to \$ 980,000 |

| Additional construction costs not accounted for above: | Qty | Unit | Unit Cost            | Construction Cost       |
|--|-----|------|----------------------|-------------------------|
|  |     |      |                      |                         |
|  |     |      |                      | \$ -                    |
|  |     |      |                      | \$ -                    |
|  |     |      |                      | \$ -                    |
| <b>Opinion of Probable Construction Cost</b>           |     |      | <b>\$ 16,559,000</b> | <b>to \$ 22,353,000</b> |

|                         |      |              |                 |
|-------------------------|------|--------------|-----------------|
| UT Cost                 | 7.0% | \$ 1,159,000 | to \$ 1,565,000 |
| Preliminary Engineering | 15%  | \$ 2,484,000 | to \$ 3,353,000 |
| RW Cost                 |      | \$ 117,000   | to \$ 158,000   |

| Additional items not accounted for at this stage in design | Qty | Unit | Unit Cost | Construction Cost |
|--|-----|------|-----------|-------------------|
|  |     |      |           |                   |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |

|   |  |  |                      |                         |
|---|--|--|----------------------|-------------------------|
| <b>Opinion of Probable Cost in 2024 Dollars</b> |  |  | <b>\$ 20,319,000</b> | <b>to \$ 27,429,000</b> |
|---|--|--|----------------------|-------------------------|

*\* The opinion of probable costs represented should be considered conceptual in nature and is not a guarantee of actual submitted contractor quotes at time of procurement. Market conditions, economic conditions, and contract delivery mechanisms will have an influence on construction cost at time of procurement. Although these conditions are considered, cost cannot be guaranteed.*

**US 31 South PEL Study**

**Level 3 Screening**

**Miami South Package 2**

| Item No   | Description                                  | Qty   | Unit | Unit Cost | Construction Cost |
|---|--|-------|------|-----------|-------------------|
| 203-0200  | Excavation Common                            | 17228 | CYS  | \$ 36     | \$ 620,000        |
| 303-01180   | Compacted Aggregate No. 53                   | 14164 | TON  | \$ 81     | \$ 1,147,000      |
| 203-02070   | Borrow                                       | 5099  | CYS  | \$ 35     | \$ 178,000        |
| 207-12635   | Subgrade Treatment Type IBC                  | 42227 | SYS  | \$ 35     | \$ 1,478,000      |
| 401-000009  | QC/QA-HMA, 4 58E, Surface, 9.5 mm            | 10426 | TON  | \$ 144    | \$ 1,501,000      |
| 401-000045  | QC/QA-HMA, 4 58E, Intermediate, 19.0 mm      | 6406  | TON  | \$ 166    | \$ 1,063,000      |
| 401-000048  | QC/QA-HMA, 4 58S, Base, 25.0 mm              | 27875 | TON  | \$ 113    | \$ 3,150,000      |
| 401-000067  | QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm | 6339  | TON  | \$ 110    | \$ 697,000        |
| 618-06192   | Wall   | 0     | LFT  | \$ 793    | \$ -              |
| n/a   | BRIDGES                                      | 0     | SF   | \$ 175    | \$ -              |
| Unquantified Items (as percentage of items above) |  | 52%   |      |           | \$ 5,114,000      |

|  |  |  |                                       |                      |
|--|--|--|---------------------------------------|----------------------|
| <b>Sub-Total</b>                                     |  |  |                                       | <b>\$ 14,948,000</b> |
| <b>Contingency</b>                                   |  |  | <b>0%</b>                             | <b>35%</b>           |
| <b>Expected Range of Construction Cost Sub-Total</b> |  |  | <b>\$ 14,948,000 to \$ 20,180,000</b> |                      |

|                          |    |  |                            |
|--------------------------|----|--|----------------------------|
| Construction Engineering | 2% |  | \$ 299,000 to \$ 404,000   |
| Mob/Demob                | 5% |  | \$ 747,000 to \$ 1,009,000 |
| Clearing Right of Way    | 2% |  | \$ 299,000 to \$ 404,000   |
| MOT                      | 5% |  | \$ 747,000 to \$ 1,009,000 |

| Additional construction costs not accounted for above: | Qty | Unit | Unit Cost                             | Construction Cost |
|--|-----|------|---------------------------------------|-------------------|
|  |     |      |                                       |                   |
|  |     |      |                                       | \$ -              |
|  |     |      |                                       | \$ -              |
|  |     |      |                                       | \$ -              |
| <b>Opinion of Probable Construction Cost</b>           |     |      | <b>\$ 17,040,000 to \$ 23,006,000</b> |                   |

|                         |      |  |                              |
|-------------------------|------|--|------------------------------|
| UT Cost                 | 7.0% |  | \$ 1,193,000 to \$ 1,610,000 |
| Preliminary Engineering | 15%  |  | \$ 2,556,000 to \$ 3,451,000 |
| RW Cost                 |      |  | \$ 143,000 to \$ 193,000     |

| Additional items not accounted for at this stage in design: | Qty | Unit | Unit Cost | Construction Cost |
|---|-----|------|-----------|-------------------|
|   |     |      |           |                   |
|   |     |      |           | \$ -              |
|   |     |      |           | \$ -              |
|   |     |      |           | \$ -              |

|   |  |  |                                       |  |
|---|--|--|---------------------------------------|--|
| <b>Opinion of Probable Cost in 2024 Dollars</b> |  |  | <b>\$ 20,932,000 to \$ 28,260,000</b> |  |
|---|--|--|---------------------------------------|--|

*\* The opinion of probable costs represented should be considered conceptual in nature and is not a guarantee of actual submitted contractor quotes at time of procurement. Market conditions, economic conditions, and contract delivery mechanisms will have an influence on construction cost at time of procurement. Although these conditions are considered, cost cannot be guaranteed.*

**US 31 South PEL Study**

**Level 3 Screening**

**Miami South Package 3**

| Item No   | Description                                  | Qty    | Unit | Unit Cost | Construction Cost |
|---|--|--------|------|-----------|-------------------|
| 203-0200  | Excavation Common                            | 26548  | CYS  | \$ 36     | \$ 956,000        |
| 303-01180   | Compacted Aggregate No. 53                   | 11682  | TON  | \$ 81     | \$ 946,000        |
| 203-02070   | Borrow                                       | 485301 | CYS  | \$ 35     | \$ 16,986,000     |
| 207-12635   | Subgrade Treatment Type IBC                  | 110310 | SYS  | \$ 35     | \$ 3,861,000      |
| 401-000009  | QC/QA-HMA, 4 58E, Surface, 9.5 mm            | 11499  | TON  | \$ 144    | \$ 1,656,000      |
| 401-000045  | QC/QA-HMA, 4 58E, Intermediate, 19.0 mm      | 15173  | TON  | \$ 166    | \$ 2,519,000      |
| 401-000048  | QC/QA-HMA, 4 58S, Base, 25.0 mm              | 72811  | TON  | \$ 113    | \$ 8,228,000      |
| 401-000067  | QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm | 16551  | TON  | \$ 110    | \$ 1,821,000      |
| 618-06192   | Wall   | 1151   | LFT  | \$ 793    | \$ 913,000        |
| n/a   | BRIDGES                                      | 36194  | SF   | \$ 175    | \$ 6,334,000      |
| Unquantified Items (as percentage of items above) |  | 52%    |      |           | \$ 22,994,000     |

|  |  |  |                                       |                      |
|--|--|--|---------------------------------------|----------------------|
| <b>Sub-Total</b>                                     |  |  |                                       | <b>\$ 67,214,000</b> |
| <b>Contingency</b>                                   |  |  | <b>0%</b>                             | <b>35%</b>           |
| <b>Expected Range of Construction Cost Sub-Total</b> |  |  | <b>\$ 67,214,000 to \$ 90,739,000</b> |                      |

|                          |    |  |                              |
|--------------------------|----|--|------------------------------|
| Construction Engineering | 2% |  | \$ 1,344,000 to \$ 1,815,000 |
| Mob/Demob                | 5% |  | \$ 3,361,000 to \$ 4,537,000 |
| Clearing Right of Way    | 2% |  | \$ 1,344,000 to \$ 1,815,000 |
| MOT                      | 5% |  | \$ 3,361,000 to \$ 4,537,000 |

| Additional construction costs not accounted for above: | Qty | Unit | Unit Cost                              | Construction Cost |
|--|-----|------|--|-------------------|
|  |     |      |  | \$ -              |
|  |     |      |  | \$ -              |
|  |     |      |  | \$ -              |
|  |     |      |  | \$ -              |
| <b>Opinion of Probable Construction Cost</b>           |     |      | <b>\$ 76,624,000 to \$ 103,443,000</b> |                   |

|                         |      |  |                                |
|-------------------------|------|--|--------------------------------|
| UT Cost                 | 7.0% |  | \$ 5,364,000 to \$ 7,241,000   |
| Preliminary Engineering | 15%  |  | \$ 11,494,000 to \$ 15,516,000 |
| RW Cost                 |      |  | \$ 1,004,000 to \$ 1,355,000   |

| Additional items not accounted for at this stage in design: | Qty | Unit | Unit Cost | Construction Cost |
|---|-----|------|-----------|-------------------|
|   |     |      |           | \$ -              |
|   |     |      |           | \$ -              |
|   |     |      |           | \$ -              |
|   |     |      |           | \$ -              |

|   |  |  |  |  |
|---|--|--|--|--|
| <b>Opinion of Probable Cost in 2024 Dollars</b> |  |  | <b>\$ 94,486,000 to \$ 127,555,000</b> |  |
|---|--|--|--|--|

*\* The opinion of probable costs represented should be considered conceptual in nature and is not a guarantee of actual submitted contractor quotes at time of procurement. Market conditions, economic conditions, and contract delivery mechanisms will have an influence on construction cost at time of procurement. Although these conditions are considered, cost cannot be guaranteed.*

**US 31 South PEL Study**

**Level 3 Screening**

**Miami South Package 4**

| Item No   | Description                                  | Qty    | Unit | Unit Cost | Construction Cost |
|---|--|--------|------|-----------|-------------------|
| 203-0200  | Excavation Common                            | 26548  | CYS  | \$ 36     | \$ 956,000        |
| 303-01180   | Compacted Aggregate No. 53                   | 11682  | TON  | \$ 81     | \$ 946,000        |
| 203-02070   | Borrow                                       | 485301 | CYS  | \$ 35     | \$ 16,986,000     |
| 207-12635   | Subgrade Treatment Type IBC                  | 110310 | SYS  | \$ 35     | \$ 3,861,000      |
| 401-000009  | QC/QA-HMA, 4 58E, Surface, 9.5 mm            | 11499  | TON  | \$ 144    | \$ 1,656,000      |
| 401-000045  | QC/QA-HMA, 4 58E, Intermediate, 19.0 mm      | 15173  | TON  | \$ 166    | \$ 2,519,000      |
| 401-000048  | QC/QA-HMA, 4 58S, Base, 25.0 mm              | 72811  | TON  | \$ 113    | \$ 8,228,000      |
| 401-000067  | QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm | 16551  | TON  | \$ 110    | \$ 1,821,000      |
| 618-06192   | Wall   | 1151   | LFT  | \$ 793    | \$ 913,000        |
| n/a   | BRIDGES                                      | 36194  | SF   | \$ 175    | \$ 6,334,000      |
| Unquantified Items (as percentage of items above) |  | 52%    |      |           | \$ 22,994,000     |

|  |  |                      |                         |                      |
|--|--|----------------------|-------------------------|----------------------|
| <b>Sub-Total</b>                                     |  |                      |                         | <b>\$ 67,214,000</b> |
| <b>Contingency</b>                                   |  | <b>0%</b>            |                         | <b>35%</b>           |
| <b>Expected Range of Construction Cost Sub-Total</b> |  | <b>\$ 67,214,000</b> | <b>to \$ 90,739,000</b> |                      |

|                          |    |              |                 |
|--------------------------|----|--------------|-----------------|
| Construction Engineering | 2% | \$ 1,344,000 | to \$ 1,815,000 |
| Mob/Demob                | 5% | \$ 3,361,000 | to \$ 4,537,000 |
| Clearing Right of Way    | 2% | \$ 1,344,000 | to \$ 1,815,000 |
| MOT                      | 5% | \$ 3,361,000 | to \$ 4,537,000 |

| Additional construction costs not accounted for above: | Qty | Unit | Unit Cost            | Construction Cost        |
|--|-----|------|----------------------|--------------------------|
|  |     |      |                      | \$ -                     |
|  |     |      |                      | \$ -                     |
|  |     |      |                      | \$ -                     |
|  |     |      |                      | \$ -                     |
| <b>Opinion of Probable Construction Cost</b>           |     |      | <b>\$ 76,624,000</b> | <b>to \$ 103,443,000</b> |

|                         |      |               |                  |
|-------------------------|------|---------------|------------------|
| UT Cost                 | 7.0% | \$ 5,364,000  | to \$ 7,241,000  |
| Preliminary Engineering | 15%  | \$ 11,494,000 | to \$ 15,516,000 |
| RW Cost                 |      | \$ 7,455,000  | to \$ 10,064,000 |

| Additional items not accounted for at this stage in design | Qty | Unit | Unit Cost | Construction Cost |
|--|-----|------|-----------|-------------------|
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |

|   |  |  |                       |                          |
|---|--|--|-----------------------|--------------------------|
| <b>Opinion of Probable Cost in 2024 Dollars</b> |  |  | <b>\$ 100,937,000</b> | <b>to \$ 136,264,000</b> |
|---|--|--|-----------------------|--------------------------|

*\* The opinion of probable costs represented should be considered conceptual in nature and is not a guarantee of actual submitted contractor quotes at time of procurement. Market conditions, economic conditions, and contract delivery mechanisms will have an influence on construction cost at time of procurement. Although these conditions are considered, cost cannot be guaranteed.*

**US 31 South PEL Study**

**Level 3 Screening**

**Miami South Package 5**

| Item No   | Description                                  | Qty    | Unit | Unit Cost | Construction Cost |
|---|--|--------|------|-----------|-------------------|
| 203-0200  | Excavation Common                            | 30702  | CYS  | \$ 36     | \$ 1,105,000      |
| 303-01180   | Compacted Aggregate No. 53                   | 9830   | TON  | \$ 81     | \$ 796,000        |
| 203-02070   | Borrow                                       | 492902 | CYS  | \$ 35     | \$ 17,252,000     |
| 207-12635   | Subgrade Treatment Type IBC                  | 116705 | SYS  | \$ 35     | \$ 4,085,000      |
| 401-000009  | QC/QA-HMA, 4 58E, Surface, 9.5 mm            | 10010  | TON  | \$ 144    | \$ 1,441,000      |
| 401-000045  | QC/QA-HMA, 4 58E, Intermediate, 19.0 mm      | 14518  | TON  | \$ 166    | \$ 2,410,000      |
| 401-000048  | QC/QA-HMA, 4 58S, Base, 25.0 mm              | 69674  | TON  | \$ 113    | \$ 7,873,000      |
| 401-000067  | QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm | 15838  | TON  | \$ 110    | \$ 1,742,000      |
| 618-06192   | Wall   | 0      | LFT  | \$ 793    | \$ -              |
| n/a   | BRIDGES                                      | 36194  | SF   | \$ 175    | \$ 6,334,000      |
| Unquantified Items (as percentage of items above) |  | 52%    |      |           | \$ 22,380,000     |

|  |  |                      |                         |                      |
|--|--|----------------------|-------------------------|----------------------|
| <b>Sub-Total</b>                                     |  |                      |                         | <b>\$ 65,418,000</b> |
| <b>Contingency</b>                                   |  | <b>0%</b>            |                         | <b>35%</b>           |
| <b>Expected Range of Construction Cost Sub-Total</b> |  | <b>\$ 65,418,000</b> | <b>to \$ 88,314,000</b> |                      |

|                          |    |              |                 |
|--------------------------|----|--------------|-----------------|
| Construction Engineering | 2% | \$ 1,308,000 | to \$ 1,766,000 |
| Mob/Demob                | 5% | \$ 3,271,000 | to \$ 4,416,000 |
| Clearing Right of Way    | 2% | \$ 1,308,000 | to \$ 1,766,000 |
| MOT                      | 5% | \$ 3,271,000 | to \$ 4,416,000 |

| Additional construction costs not accounted for above: | Qty | Unit | Unit Cost            | Construction Cost        |
|--|-----|------|----------------------|--------------------------|
|  |     |      |                      | \$ -                     |
|  |     |      |                      | \$ -                     |
|  |     |      |                      | \$ -                     |
|  |     |      |                      | \$ -                     |
| <b>Opinion of Probable Construction Cost</b>           |     |      | <b>\$ 74,576,000</b> | <b>to \$ 100,678,000</b> |

|                         |      |               |                  |
|-------------------------|------|---------------|------------------|
| UT Cost                 | 7.0% | \$ 5,220,000  | to \$ 7,047,000  |
| Preliminary Engineering | 15%  | \$ 11,186,000 | to \$ 15,102,000 |
| RW Cost                 |      | \$ 12,280,000 | to \$ 16,578,000 |

| Additional items not accounted for at this stage in design | Qty | Unit | Unit Cost | Construction Cost |
|--|-----|------|-----------|-------------------|
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |

|   |  |  |                       |                          |
|---|--|--|-----------------------|--------------------------|
| <b>Opinion of Probable Cost in 2024 Dollars</b> |  |  | <b>\$ 103,262,000</b> | <b>to \$ 139,405,000</b> |
|---|--|--|-----------------------|--------------------------|

*\* The opinion of probable costs represented should be considered conceptual in nature and is not a guarantee of actual submitted contractor quotes at time of procurement. Market conditions, economic conditions, and contract delivery mechanisms will have an influence on construction cost at time of procurement. Although these conditions are considered, cost cannot be guaranteed.*

**US 31 South PEL Study**

**Level 3 Screening**

**Sharpsville Package 1**

| Item No   | Description                                  | Qty      | Unit | Unit Cost | Construction Cost |
|---|--|----------|------|-----------|-------------------|
| 203-0200  | Excavation Common                            | 7529     | CYS  | \$ 36     | \$ 271,000        |
| 303-01180   | Compacted Aggregate No. 53                   | 11498.67 | TON  | \$ 81     | \$ 931,000        |
| 203-02070   | Borrow                                       | 37025    | CYS  | \$ 35     | \$ 1,296,000      |
| 207-12635   | Subgrade Treatment Type IBC                  | 48783.44 | SYS  | \$ 35     | \$ 1,707,000      |
| 401-000009  | QC/QA-HMA, 4 58E, Surface, 9.5 mm            | 6584     | TON  | \$ 144    | \$ 948,000        |
| 401-000045  | QC/QA-HMA, 4 58E, Intermediate, 19.0 mm      | 6711     | TON  | \$ 166    | \$ 1,114,000      |
| 401-000048  | QC/QA-HMA, 4 58S, Base, 25.0 mm              | 32200    | TON  | \$ 113    | \$ 3,639,000      |
| 401-000067  | QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm | 7319     | TON  | \$ 110    | \$ 805,000        |
| 618-06192   | Wall   | 0        | LFT  | \$ 793    | \$ -              |
| n/a   | BRIDGES                                      | 12183    | SF   | \$ 175    | \$ 2,132,000      |
| Unquantified Items (as percentage of items above) |  | 52%      |      |           | \$ 6,678,000      |

|  |  |  |                                       |                      |
|--|--|--|---------------------------------------|----------------------|
| <b>Sub-Total</b>                                     |  |  |                                       | <b>\$ 19,521,000</b> |
| <b>Contingency</b>                                   |  |  | <b>0%</b>                             | <b>35%</b>           |
| <b>Expected Range of Construction Cost Sub-Total</b> |  |  | <b>\$ 19,521,000 to \$ 26,353,000</b> |                      |

|                          |    |  |                            |
|--------------------------|----|--|----------------------------|
| Construction Engineering | 2% |  | \$ 390,000 to \$ 527,000   |
| Mob/Demob                | 5% |  | \$ 976,000 to \$ 1,318,000 |
| Clearing Right of Way    | 2% |  | \$ 390,000 to \$ 527,000   |
| MOT                      | 5% |  | \$ 976,000 to \$ 1,318,000 |

| Additional construction costs not accounted for above: | Qty | Unit | Unit Cost                             | Construction Cost |
|--|-----|------|---------------------------------------|-------------------|
|  |     |      |                                       | \$ -              |
|  |     |      |                                       | \$ -              |
|  |     |      |                                       | \$ -              |
|  |     |      |                                       | \$ -              |
| <b>Opinion of Probable Construction Cost</b>           |     |      | <b>\$ 22,253,000 to \$ 30,043,000</b> |                   |

|                         |      |  |                              |
|-------------------------|------|--|------------------------------|
| UT Cost                 | 7.0% |  | \$ 1,558,000 to \$ 2,103,000 |
| Preliminary Engineering | 15%  |  | \$ 3,338,000 to \$ 4,506,000 |
| RW Cost                 |      |  | \$ 178,000 to \$ 240,000     |

| Additional items not accounted for at this stage in design: | Qty | Unit | Unit Cost | Construction Cost |
|---|-----|------|-----------|-------------------|
|   |     |      |           | \$ -              |
|   |     |      |           | \$ -              |
|   |     |      |           | \$ -              |
|   |     |      |           | \$ -              |

|   |  |  |                                       |  |
|---|--|--|---------------------------------------|--|
| <b>Opinion of Probable Cost in 2024 Dollars</b> |  |  | <b>\$ 27,327,000 to \$ 36,892,000</b> |  |
|---|--|--|---------------------------------------|--|

*\* The opinion of probable costs represented should be considered conceptual in nature and is not a guarantee of actual submitted contractor quotes at time of procurement. Market conditions, economic conditions, and contract delivery mechanisms will have an influence on construction cost at time of procurement. Although these conditions are considered, cost cannot be guaranteed.*

**US 31 South PEL Study**

**Level 3 Screening**

**Sharpsville Package 2**

| Item No   | Description                                  | Qty      | Unit | Unit Cost | Construction Cost |
|---|--|----------|------|-----------|-------------------|
| 203-0200  | Excavation Common                            | 7529     | CYS  | \$ 36     | \$ 271,000        |
| 303-01180   | Compacted Aggregate No. 53                   | 11498.67 | TON  | \$ 81     | \$ 931,000        |
| 203-02070   | Borrow                                       | 37025    | CYS  | \$ 35     | \$ 1,296,000      |
| 207-12635   | Subgrade Treatment Type IBC                  | 48783.44 | SYS  | \$ 35     | \$ 1,707,000      |
| 401-000009  | QC/QA-HMA, 4 58E, Surface, 9.5 mm            | 6584     | TON  | \$ 144    | \$ 948,000        |
| 401-000045  | QC/QA-HMA, 4 58E, Intermediate, 19.0 mm      | 6711     | TON  | \$ 166    | \$ 1,114,000      |
| 401-000048  | QC/QA-HMA, 4 58S, Base, 25.0 mm              | 32200    | TON  | \$ 113    | \$ 3,639,000      |
| 401-000067  | QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm | 7319     | TON  | \$ 110    | \$ 805,000        |
| 618-06192   | Wall   | 0        | LFT  | \$ 793    | \$ -              |
| n/a   | BRIDGES                                      | 12183    | SF   | \$ 175    | \$ 2,132,000      |
| Unquantified Items (as percentage of items above) |  | 52%      |      |           | \$ 6,678,000      |

|  |  |  |                                       |                      |
|--|--|--|---------------------------------------|----------------------|
| <b>Sub-Total</b>                                     |  |  |                                       | <b>\$ 19,521,000</b> |
| <b>Contingency</b>                                   |  |  | <b>0%</b>                             | <b>35%</b>           |
| <b>Expected Range of Construction Cost Sub-Total</b> |  |  | <b>\$ 19,521,000 to \$ 26,353,000</b> |                      |

|                          |    |  |                            |
|--------------------------|----|--|----------------------------|
| Construction Engineering | 2% |  | \$ 390,000 to \$ 527,000   |
| Mob/Demob                | 5% |  | \$ 976,000 to \$ 1,318,000 |
| Clearing Right of Way    | 2% |  | \$ 390,000 to \$ 527,000   |
| MOT                      | 5% |  | \$ 976,000 to \$ 1,318,000 |

| Additional construction costs not accounted for above: | Qty | Unit | Unit Cost                             | Construction Cost |
|--|-----|------|---------------------------------------|-------------------|
|  |     |      |                                       | \$ -              |
|  |     |      |                                       | \$ -              |
|  |     |      |                                       | \$ -              |
|  |     |      |                                       | \$ -              |
| <b>Opinion of Probable Construction Cost</b>           |     |      | <b>\$ 22,253,000 to \$ 30,043,000</b> |                   |

|                         |      |  |                              |
|-------------------------|------|--|------------------------------|
| UT Cost                 | 7.0% |  | \$ 1,558,000 to \$ 2,103,000 |
| Preliminary Engineering | 15%  |  | \$ 3,338,000 to \$ 4,506,000 |
| RW Cost                 |      |  | \$ 1,929,000 to \$ 2,604,000 |

| Additional items not accounted for at this stage in design: | Qty | Unit | Unit Cost | Construction Cost |
|---|-----|------|-----------|-------------------|
|   |     |      |           | \$ -              |
|   |     |      |           | \$ -              |
|   |     |      |           | \$ -              |
|   |     |      |           | \$ -              |

|   |  |  |                                       |  |
|---|--|--|---------------------------------------|--|
| <b>Opinion of Probable Cost in 2024 Dollars</b> |  |  | <b>\$ 29,078,000 to \$ 39,256,000</b> |  |
|---|--|--|---------------------------------------|--|

*\* The opinion of probable costs represented should be considered conceptual in nature and is not a guarantee of actual submitted contractor quotes at time of procurement. Market conditions, economic conditions, and contract delivery mechanisms will have an influence on construction cost at time of procurement. Although these conditions are considered, cost cannot be guaranteed.*

**US 31 South PEL Study**

**Level 3 Screening**

**Sharpsville Package 3**

| Item No   | Description                                  | Qty   | Unit | Unit Cost | Construction Cost |
|---|--|-------|------|-----------|-------------------|
| 203-0200  | Excavation Common                            | 3424  | CYS  | \$ 36     | \$ 123,000        |
| 303-01180   | Compacted Aggregate No. 53                   | 8427  | TON  | \$ 81     | \$ 683,000        |
| 203-02070   | Borrow                                       | 40100 | CYS  | \$ 35     | \$ 1,404,000      |
| 207-12635   | Subgrade Treatment Type IBC                  | 35631 | SYS  | \$ 35     | \$ 1,247,000      |
| 401-000009  | QC/QA-HMA, 4 58E, Surface, 9.5 mm            | 6125  | TON  | \$ 144    | \$ 882,000        |
| 401-000045  | QC/QA-HMA, 4 58E, Intermediate, 19.0 mm      | 4901  | TON  | \$ 166    | \$ 814,000        |
| 401-000048  | QC/QA-HMA, 4 58S, Base, 25.0 mm              | 23519 | TON  | \$ 113    | \$ 2,658,000      |
| 401-000067  | QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm | 5347  | TON  | \$ 110    | \$ 588,000        |
| 618-06192   | Wall   | 0     | LFT  | \$ 793    | \$ -              |
| n/a   | BRIDGES                                      | 12183 | SF   | \$ 175    | \$ 2,132,000      |
| Unquantified Items (as percentage of items above) |  | 52%   |      |           | \$ 5,476,000      |

|  |  |                      |              |                      |
|--|--|----------------------|--------------|----------------------|
| <b>Sub-Total</b>                                     |  |                      |              | <b>\$ 16,007,000</b> |
| <b>Contingency</b>                                   |  | <b>0%</b>            |              | <b>35%</b>           |
| <b>Expected Range of Construction Cost Sub-Total</b> |  | <b>\$ 16,007,000</b> | <b>to \$</b> | <b>21,609,000</b>    |

|                          |    |            |       |           |
|--------------------------|----|------------|-------|-----------|
| Construction Engineering | 2% | \$ 320,000 | to \$ | 432,000   |
| Mob/Demob                | 5% | \$ 800,000 | to \$ | 1,080,000 |
| Clearing Right of Way    | 2% | \$ 320,000 | to \$ | 432,000   |
| MOT                      | 5% | \$ 800,000 | to \$ | 1,080,000 |

| Additional construction costs not accounted for above: | Qty | Unit | Unit Cost            | Construction Cost       |
|--|-----|------|----------------------|-------------------------|
|  |     |      |                      | \$ -                    |
|  |     |      |                      | \$ -                    |
|  |     |      |                      | \$ -                    |
|  |     |      |                      | \$ -                    |
| <b>Opinion of Probable Construction Cost</b>           |     |      | <b>\$ 18,247,000</b> | <b>to \$ 24,633,000</b> |

|                         |      |              |       |           |
|-------------------------|------|--------------|-------|-----------|
| UT Cost                 | 7.0% | \$ 1,277,000 | to \$ | 1,724,000 |
| Preliminary Engineering | 15%  | \$ 2,737,000 | to \$ | 3,695,000 |
| RW Cost                 |      | \$ 1,929,000 | to \$ | 2,604,000 |

| Additional items not accounted for at this stage in design: | Qty | Unit | Unit Cost | Construction Cost |
|---|-----|------|-----------|-------------------|
|   |     |      |           | \$ -              |
|   |     |      |           | \$ -              |
|   |     |      |           | \$ -              |
|   |     |      |           | \$ -              |

|   |  |  |                      |                         |
|---|--|--|----------------------|-------------------------|
| <b>Opinion of Probable Cost in 2024 Dollars</b> |  |  | <b>\$ 24,190,000</b> | <b>to \$ 32,656,000</b> |
|---|--|--|----------------------|-------------------------|

*\* The opinion of probable costs represented should be considered conceptual in nature and is not a guarantee of actual submitted contractor quotes at time of procurement. Market conditions, economic conditions, and contract delivery mechanisms will have an influence on construction cost at time of procurement. Although these conditions are considered, cost cannot be guaranteed.*



US 31 South PEL Study

Level 3 Screening

Sharpsville Package 4

| Item No    | Description                                       | Qty   | Unit | Unit Cost | Construction Cost |
|------------|---|-------|------|-----------|-------------------|
| 203-0200   | Excavation Common                                 | 5843  | CYS  | \$ 36     | \$ 210,000        |
| 303-01180  | Compacted Aggregate No. 53                        | 6655  | TON  | \$ 81     | \$ 539,000        |
| 203-02070  | Borrow  | 36804 | CYS  | \$ 35     | \$ 1,288,000      |
| 207-12635  | Subgrade Treatment Type IBC                       | 38864 | SYS  | \$ 35     | \$ 1,360,000      |
| 401-000009 | QC/QA-HMA, 4 58E, Surface, 9.5 mm                 | 4694  | TON  | \$ 144    | \$ 676,000        |
| 401-000045 | QC/QA-HMA, 4 58E, Intermediate, 19.0 mm           | 5346  | TON  | \$ 166    | \$ 887,000        |
| 401-000048 | QC/QA-HMA, 4 58S, Base, 25.0 mm                   | 25653 | TON  | \$ 113    | \$ 2,899,000      |
| 401-000067 | QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm      | 5832  | TON  | \$ 110    | \$ 642,000        |
| 618-06192  | Wall  | 0     | LFT  | \$ 793    | \$ -              |
| n/a        | BRIDGES   | 12183 | SF   | \$ 175    | \$ 2,132,000      |
|            | Unquantified Items (as percentage of items above) | 52%   |      |           | \$ 5,529,000      |

|  |  |                      |              |                      |
|--|--|----------------------|--------------|----------------------|
| <b>Sub-Total</b>                                     |  |                      |              | <b>\$ 16,162,000</b> |
| <b>Contingency</b>                                   |  |                      | <b>0%</b>    | <b>35%</b>           |
| <b>Expected Range of Construction Cost Sub-Total</b> |  | <b>\$ 16,162,000</b> | <b>to \$</b> | <b>21,819,000</b>    |

|                          |    |            |       |           |
|--------------------------|----|------------|-------|-----------|
| Construction Engineering | 2% | \$ 323,000 | to \$ | 436,000   |
| Mob/Demob                | 5% | \$ 808,000 | to \$ | 1,091,000 |
| Clearing Right of Way    | 2% | \$ 323,000 | to \$ | 436,000   |
| MOT                      | 5% | \$ 808,000 | to \$ | 1,091,000 |

| Additional construction costs not accounted for above: | Qty | Unit | Unit Cost            | Construction Cost       |
|--|-----|------|----------------------|-------------------------|
|  |     |      |                      | \$ -                    |
|  |     |      |                      | \$ -                    |
|  |     |      |                      | \$ -                    |
|  |     |      |                      | \$ -                    |
| <b>Opinion of Probable Construction Cost</b>           |     |      | <b>\$ 18,424,000</b> | <b>to \$ 24,873,000</b> |

|                         |      |              |       |           |
|-------------------------|------|--------------|-------|-----------|
| UT Cost                 | 7.0% | \$ 1,290,000 | to \$ | 1,741,000 |
| Preliminary Engineering | 15%  | \$ 2,764,000 | to \$ | 3,731,000 |
| RW Cost                 |      | \$ 4,069,000 | to \$ | 5,493,000 |

| Additional items not accounted for at this stage in design | Qty | Unit | Unit Cost | Construction Cost |
|--|-----|------|-----------|-------------------|
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |

|   |  |  |                      |                         |
|---|--|--|----------------------|-------------------------|
| <b>Opinion of Probable Cost in 2024 Dollars</b> |  |  | <b>\$ 26,547,000</b> | <b>to \$ 35,838,000</b> |
|---|--|--|----------------------|-------------------------|

\* The opinion of probable costs represented should be considered conceptual in nature and is not a guarantee of actual submitted contractor quotes at time of procurement. Market conditions, economic conditions, and contract delivery mechanisms will have an influence on construction cost at time of procurement. Although these conditions are considered, cost cannot be guaranteed.

**US 31 South PEL Study**  
**Level 3 Screening**

**Sharpsville Package 5**

| Item No   | Description                                  | Qty   | Unit | Unit Cost | Construction Cost |
|---|--|-------|------|-----------|-------------------|
| 203-0200  | Excavation Common                            | 4508  | CYS  | \$ 36     | \$ 162,000        |
| 303-01180   | Compacted Aggregate No. 53                   | 3368  | TON  | \$ 81     | \$ 273,000        |
| 203-02070   | Borrow                                       | 37349 | CYS  | \$ 35     | \$ 1,307,000      |
| 207-12635   | Subgrade Treatment Type IBC                  | 27041 | SYS  | \$ 35     | \$ 946,000        |
| 401-000009  | QC/QA-HMA, 4 58E, Surface, 9.5 mm            | 2233  | TON  | \$ 144    | \$ 322,000        |
| 401-000045  | QC/QA-HMA, 4 58E, Intermediate, 19.0 mm      | 3721  | TON  | \$ 166    | \$ 618,000        |
| 401-000048  | QC/QA-HMA, 4 58S, Base, 25.0 mm              | 17851 | TON  | \$ 113    | \$ 2,017,000      |
| 401-000067  | QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm | 4058  | TON  | \$ 110    | \$ 446,000        |
| 618-06192   | Wall   | 0     | LFT  | \$ 793    | \$ -              |
| n/a   | BRIDGES                                      | 12183 | SF   | \$ 175    | \$ 2,132,000      |
| Unquantified Items (as percentage of items above) |  | 52%   |      |           | \$ 4,276,000      |

|  |  |  |                                       |                      |
|--|--|--|---------------------------------------|----------------------|
| <b>Sub-Total</b>                                     |  |  |                                       | <b>\$ 12,499,000</b> |
| <b>Contingency</b>                                   |  |  | <b>0%</b>                             | <b>35%</b>           |
| <b>Expected Range of Construction Cost Sub-Total</b> |  |  | <b>\$ 12,499,000 to \$ 16,874,000</b> |                      |

|                          |    |                          |
|--------------------------|----|--------------------------|
| Construction Engineering | 2% | \$ 250,000 to \$ 337,000 |
| Mob/Demob                | 5% | \$ 625,000 to \$ 844,000 |
| Clearing Right of Way    | 2% | \$ 250,000 to \$ 337,000 |
| MOT                      | 5% | \$ 625,000 to \$ 844,000 |

| Additional construction costs not accounted for above: | Qty | Unit | Unit Cost                             | Construction Cost |
|--|-----|------|---------------------------------------|-------------------|
|  |     |      |                                       | \$ -              |
|  |     |      |                                       | \$ -              |
|  |     |      |                                       | \$ -              |
|  |     |      |                                       | \$ -              |
| <b>Opinion of Probable Construction Cost</b>           |     |      | <b>\$ 14,249,000 to \$ 19,236,000</b> |                   |

|                         |      |                              |
|-------------------------|------|------------------------------|
| UT Cost                 | 7.0% | \$ 997,000 to \$ 1,347,000   |
| Preliminary Engineering | 15%  | \$ 2,137,000 to \$ 2,885,000 |
| RW Cost                 |      | \$ 4,170,000 to \$ 5,630,000 |

| Additional items not accounted for at this stage in design: | Qty | Unit | Unit Cost | Construction Cost |
|---|-----|------|-----------|-------------------|
|   |     |      |           | \$ -              |
|   |     |      |           | \$ -              |
|   |     |      |           | \$ -              |
|   |     |      |           | \$ -              |

|   |  |  |                                       |  |
|---|--|--|---------------------------------------|--|
| <b>Opinion of Probable Cost in 2024 Dollars</b> |  |  | <b>\$ 21,553,000 to \$ 29,098,000</b> |  |
|---|--|--|---------------------------------------|--|

*\* The opinion of probable costs represented should be considered conceptual in nature and is not a guarantee of actual submitted contractor quotes at time of procurement. Market conditions, economic conditions, and contract delivery mechanisms will have an influence on construction cost at time of procurement. Although these conditions are considered, cost cannot be guaranteed.*

**US 31 South PEL Study**

**Level 3 Screening**

**Tipton Package 1**

| Item No   | Description                                  | Qty      | Unit | Unit Cost | Construction Cost |
|---|--|----------|------|-----------|-------------------|
| 203-02000   | Excavation Common                            | 7055     | CYS  | \$ 36     | \$ 254,000        |
| 303-01180   | Compacted Aggregate No. 53                   | 4957.784 | TON  | \$ 81     | \$ 402,000        |
| 203-02070   | Borrow                                       | 975      | CYS  | \$ 35     | \$ 34,000         |
| 207-12635   | Subgrade Treatment Type IBC                  | 20281.22 | SYS  | \$ 35     | \$ 710,000        |
| 401-000009  | QC/QA-HMA, 4 58E, Surface, 9.5 mm            | 3642     | TON  | \$ 144    | \$ 524,000        |
| 401-000045  | QC/QA-HMA, 4 58E, Intermediate, 19.0 mm      | 2791     | TON  | \$ 166    | \$ 463,000        |
| 401-000048  | QC/QA-HMA, 4 58S, Base, 25.0 mm              | 13387    | TON  | \$ 113    | \$ 1,513,000      |
| 401-000067  | QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm | 3043     | TON  | \$ 110    | \$ 335,000        |
| 618-06192   | Wall   | 0        | LFT  | \$ 793    | \$ -              |
| n/a   | BRIDGES                                      | 0        | SF   | \$ 175    | \$ -              |
| Unquantified Items (as percentage of items above) |  | 52%      |      |           | \$ 2,202,000      |

|  |  |                     |                        |                     |
|--|--|---------------------|------------------------|---------------------|
| <b>Sub-Total</b>                                     |  |                     |                        | <b>\$ 6,437,000</b> |
| <b>Contingency</b>                                   |  | <b>0%</b>           |                        | <b>35%</b>          |
| <b>Expected Range of Construction Cost Sub-Total</b> |  | <b>\$ 6,437,000</b> | <b>to \$ 8,690,000</b> |                     |

|                          |    |            |               |
|--------------------------|----|------------|---------------|
| Construction Engineering | 2% | \$ 129,000 | to \$ 174,000 |
| Mob/Demob                | 5% | \$ 322,000 | to \$ 435,000 |
| Clearing Right of Way    | 2% | \$ 129,000 | to \$ 174,000 |
| MOT                      | 5% | \$ 322,000 | to \$ 435,000 |

| Additional construction costs not accounted for above: | Qty | Unit | Unit Cost           | Construction Cost      |
|--|-----|------|---------------------|------------------------|
|  |     |      |                     | \$ -                   |
|  |     |      |                     | \$ -                   |
|  |     |      |                     | \$ -                   |
|  |     |      |                     | \$ -                   |
| <b>Opinion of Probable Construction Cost</b>           |     |      | <b>\$ 7,339,000</b> | <b>to \$ 9,908,000</b> |

|                         |      |              |                 |
|-------------------------|------|--------------|-----------------|
| UT Cost                 | 7.0% | \$ 514,000   | to \$ 694,000   |
| Preliminary Engineering | 15%  | \$ 1,101,000 | to \$ 1,486,000 |
| RW Cost                 |      | \$ 315,000   | to \$ 425,000   |

| Additional items not accounted for at this stage in design | Qty | Unit | Unit Cost | Construction Cost |
|--|-----|------|-----------|-------------------|
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |

|   |  |  |                     |                         |
|---|--|--|---------------------|-------------------------|
| <b>Opinion of Probable Cost in 2024 Dollars</b> |  |  | <b>\$ 9,269,000</b> | <b>to \$ 12,513,000</b> |
|---|--|--|---------------------|-------------------------|

*\* The opinion of probable costs represented should be considered conceptual in nature and is not a guarantee of actual submitted contractor quotes at time of procurement. Market conditions, economic conditions, and contract delivery mechanisms will have an influence on construction cost at time of procurement. Although these conditions are considered, cost cannot be guaranteed.*

**US 31 South PEL Study**

**Level 3 Screening**

**Tipton Package 2**

| Item No   | Description                                  | Qty   | Unit | Unit Cost | Construction Cost |
|---|--|-------|------|-----------|-------------------|
| 203-02000   | Excavation Common                            | 7055  | CYS  | \$ 36     | \$ 254,000        |
| 303-01180   | Compacted Aggregate No. 53                   | 4958  | TON  | \$ 81     | \$ 402,000        |
| 203-02070   | Borrow                                       | 975   | CYS  | \$ 35     | \$ 34,000         |
| 207-12635   | Subgrade Treatment Type IBC                  | 20281 | SYS  | \$ 35     | \$ 710,000        |
| 401-000009  | QC/QA-HMA, 4 58E, Surface, 9.5 mm            | 3642  | TON  | \$ 144    | \$ 524,000        |
| 401-000045  | QC/QA-HMA, 4 58E, Intermediate, 19.0 mm      | 2791  | TON  | \$ 166    | \$ 463,000        |
| 401-000048  | QC/QA-HMA, 4 58S, Base, 25.0 mm              | 13387 | TON  | \$ 113    | \$ 1,513,000      |
| 401-000067  | QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm | 3043  | TON  | \$ 110    | \$ 335,000        |
| 618-06192   | Wall   | 0     | LFT  | \$ 793    | \$ -              |
| n/a   | BRIDGES                                      | 0     | SF   | \$ 175    | \$ -              |
| Unquantified Items (as percentage of items above) |  | 52%   |      |           | \$ 2,202,000      |

|  |  |  |                                     |                     |
|--|--|--|-------------------------------------|---------------------|
| <b>Sub-Total</b>                                     |  |  |                                     | <b>\$ 6,437,000</b> |
| <b>Contingency</b>                                   |  |  | <b>0%</b>                           | <b>35%</b>          |
| <b>Expected Range of Construction Cost Sub-Total</b> |  |  | <b>\$ 6,437,000 to \$ 8,690,000</b> |                     |

|                          |    |            |               |
|--------------------------|----|------------|---------------|
| Construction Engineering | 2% | \$ 129,000 | to \$ 174,000 |
| Mob/Demob                | 5% | \$ 322,000 | to \$ 435,000 |
| Clearing Right of Way    | 2% | \$ 129,000 | to \$ 174,000 |
| MOT                      | 5% | \$ 322,000 | to \$ 435,000 |

| Additional construction costs not accounted for above: | Qty | Unit | Unit Cost                           | Construction Cost |
|--|-----|------|-------------------------------------|-------------------|
|  |     |      |                                     | \$ -              |
|  |     |      |                                     | \$ -              |
|  |     |      |                                     | \$ -              |
|  |     |      |                                     | \$ -              |
| <b>Opinion of Probable Construction Cost</b>           |     |      | <b>\$ 7,339,000 to \$ 9,908,000</b> |                   |

|                         |      |              |                 |
|-------------------------|------|--------------|-----------------|
| UT Cost                 | 7.0% | \$ 514,000   | to \$ 694,000   |
| Preliminary Engineering | 15%  | \$ 1,101,000 | to \$ 1,486,000 |
| RW Cost                 |      | \$ 225,000   | to \$ 304,000   |

| Additional items not accounted for at this stage in design | Qty | Unit | Unit Cost | Construction Cost |
|--|-----|------|-----------|-------------------|
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |

|   |  |  |                                      |  |
|---|--|--|--------------------------------------|--|
| <b>Opinion of Probable Cost in 2024 Dollars</b> |  |  | <b>\$ 9,179,000 to \$ 12,392,000</b> |  |
|---|--|--|--------------------------------------|--|

*\* The opinion of probable costs represented should be considered conceptual in nature and is not a guarantee of actual submitted contractor quotes at time of procurement. Market conditions, economic conditions, and contract delivery mechanisms will have an influence on construction cost at time of procurement. Although these conditions are considered, cost cannot be guaranteed.*

**US 31 South PEL Study**

**Level 3 Screening**

**Tipton Package 3**

| Item No   | Description                                  | Qty   | Unit | Unit Cost | Construction Cost |
|---|--|-------|------|-----------|-------------------|
| 203-02000   | Excavation Common                            | 7100  | CYS  | \$ 36     | \$ 256,000        |
| 303-01180   | Compacted Aggregate No. 53                   | 5735  | TON  | \$ 81     | \$ 465,000        |
| 203-02070   | Borrow                                       | 975   | CYS  | \$ 35     | \$ 34,000         |
| 207-12635   | Subgrade Treatment Type IBC                  | 19225 | SYS  | \$ 35     | \$ 673,000        |
| 401-000009  | QC/QA-HMA, 4 58E, Surface, 9.5 mm            | 3613  | TON  | \$ 144    | \$ 520,000        |
| 401-000045  | QC/QA-HMA, 4 58E, Intermediate, 19.0 mm      | 2646  | TON  | \$ 166    | \$ 439,000        |
| 401-000048  | QC/QA-HMA, 4 58S, Base, 25.0 mm              | 12690 | TON  | \$ 113    | \$ 1,434,000      |
| 401-000067  | QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm | 2885  | TON  | \$ 110    | \$ 317,000        |
| 618-06192   | Wall   | 0     | LFT  | \$ 793    | \$ -              |
| n/a   | BRIDGES                                      | 0     | SF   | \$ 175    | \$ -              |
| Unquantified Items (as percentage of items above) |  | 52%   |      |           | \$ 2,152,000      |

|  |  |                     |              |                     |
|--|--|---------------------|--------------|---------------------|
| <b>Sub-Total</b>                                     |  |                     |              | <b>\$ 6,290,000</b> |
| <b>Contingency</b>                                   |  | <b>0%</b>           |              | <b>35%</b>          |
| <b>Expected Range of Construction Cost Sub-Total</b> |  | <b>\$ 6,290,000</b> | <b>to \$</b> | <b>8,492,000</b>    |

|                          |    |            |       |         |
|--------------------------|----|------------|-------|---------|
| Construction Engineering | 2% | \$ 126,000 | to \$ | 170,000 |
| Mob/Demob                | 5% | \$ 315,000 | to \$ | 425,000 |
| Clearing Right of Way    | 2% | \$ 126,000 | to \$ | 170,000 |
| MOT                      | 5% | \$ 315,000 | to \$ | 425,000 |

| Additional construction costs not accounted for above: | Qty | Unit | Unit Cost           | Construction Cost      |
|--|-----|------|---------------------|------------------------|
|  |     |      |                     | \$ -                   |
|  |     |      |                     | \$ -                   |
|  |     |      |                     | \$ -                   |
|  |     |      |                     | \$ -                   |
| <b>Opinion of Probable Construction Cost</b>           |     |      | <b>\$ 7,172,000</b> | <b>to \$ 9,682,000</b> |

|                         |      |              |       |           |
|-------------------------|------|--------------|-------|-----------|
| UT Cost                 | 7.0% | \$ 502,000   | to \$ | 678,000   |
| Preliminary Engineering | 15%  | \$ 1,076,000 | to \$ | 1,452,000 |
| RW Cost                 |      | \$ 220,000   | to \$ | 297,000   |

| Additional items not accounted for at this stage in design | Qty | Unit | Unit Cost | Construction Cost |
|--|-----|------|-----------|-------------------|
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |

|   |  |  |                     |                         |
|---|--|--|---------------------|-------------------------|
| <b>Opinion of Probable Cost in 2024 Dollars</b> |  |  | <b>\$ 8,970,000</b> | <b>to \$ 12,109,000</b> |
|---|--|--|---------------------|-------------------------|

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US 31 South PEL Study

Level 3 Screening

Tipton Package 4

| Item No   | Description                                  | Qty    | Unit | Unit Cost | Construction Cost |
|---|--|--------|------|-----------|-------------------|
| 203-02000   | Excavation Common                            | 17765  | CYS  | \$ 36     | \$ 640,000        |
| 303-01180   | Compacted Aggregate No. 53                   | 4016   | TON  | \$ 81     | \$ 325,000        |
| 203-02070   | Borrow                                       | 128678 | CYS  | \$ 35     | \$ 4,504,000      |
| 207-12635   | Subgrade Treatment Type IBC                  | 47197  | SYS  | \$ 35     | \$ 1,652,000      |
| 401-000009  | QC/QA-HMA, 4 58E, Surface, 9.5 mm            | 5405   | TON  | \$ 144    | \$ 778,000        |
| 401-000045  | QC/QA-HMA, 4 58E, Intermediate, 19.0 mm      | 6491   | TON  | \$ 166    | \$ 1,078,000      |
| 401-000048  | QC/QA-HMA, 4 58S, Base, 25.0 mm              | 31151  | TON  | \$ 113    | \$ 3,520,000      |
| 401-000067  | QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm | 7081   | TON  | \$ 110    | \$ 779,000        |
| 618-06192   | Wall   | 0      | LFT  | \$ 793    | \$ -              |
| n/a   | BRIDGES                                      | 15532  | SF   | \$ 175    | \$ 2,718,000      |
| Unquantified Items (as percentage of items above) |  | 52%    |      |           | \$ 8,317,000      |

|  |  |                      |              |                      |
|--|--|----------------------|--------------|----------------------|
| <b>Sub-Total</b>                                     |  |                      |              | <b>\$ 24,311,000</b> |
| <b>Contingency</b>                                   |  | <b>0%</b>            |              | <b>35%</b>           |
| <b>Expected Range of Construction Cost Sub-Total</b> |  | <b>\$ 24,311,000</b> | <b>to \$</b> | <b>32,820,000</b>    |

|                          |    |              |       |           |
|--------------------------|----|--------------|-------|-----------|
| Construction Engineering | 2% | \$ 486,000   | to \$ | 656,000   |
| Mob/Demob                | 5% | \$ 1,216,000 | to \$ | 1,641,000 |
| Clearing Right of Way    | 2% | \$ 486,000   | to \$ | 656,000   |
| MOT                      | 5% | \$ 1,216,000 | to \$ | 1,641,000 |

| Additional construction costs not accounted for above: | Qty | Unit | Unit Cost            | Construction Cost       |
|--|-----|------|----------------------|-------------------------|
|  |     |      |                      | \$ -                    |
|  |     |      |                      | \$ -                    |
|  |     |      |                      | \$ -                    |
|  |     |      |                      | \$ -                    |
| <b>Opinion of Probable Construction Cost</b>           |     |      | <b>\$ 27,715,000</b> | <b>to \$ 37,414,000</b> |

|                         |      |              |       |           |
|-------------------------|------|--------------|-------|-----------|
| UT Cost                 | 7.0% | \$ 1,940,000 | to \$ | 2,619,000 |
| Preliminary Engineering | 15%  | \$ 4,157,000 | to \$ | 5,612,000 |
| RW Cost                 |      | \$ 2,584,000 | to \$ | 3,488,000 |

| Additional items not accounted for at this stage in design | Qty | Unit | Unit Cost | Construction Cost |
|--|-----|------|-----------|-------------------|
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |

|   |  |  |                      |                         |
|---|--|--|----------------------|-------------------------|
| <b>Opinion of Probable Cost in 2024 Dollars</b> |  |  | <b>\$ 36,396,000</b> | <b>to \$ 49,133,000</b> |
|---|--|--|----------------------|-------------------------|

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**US 31 South PEL Study**

**Level 3 Screening**

**Tipton Package 5**

| Item No   | Description                                  | Qty    | Unit | Unit Cost | Construction Cost |
|---|--|--------|------|-----------|-------------------|
| 203-02000   | Excavation Common                            | 17765  | CYS  | \$ 36     | \$ 640,000        |
| 303-01180   | Compacted Aggregate No. 53                   | 4016   | TON  | \$ 81     | \$ 325,000        |
| 203-02070   | Borrow                                       | 128678 | CYS  | \$ 35     | \$ 4,504,000      |
| 207-12635   | Subgrade Treatment Type IBC                  | 47197  | SYS  | \$ 35     | \$ 1,652,000      |
| 401-000009  | QC/QA-HMA, 4 58E, Surface, 9.5 mm            | 5405   | TON  | \$ 144    | \$ 778,000        |
| 401-000045  | QC/QA-HMA, 4 58E, Intermediate, 19.0 mm      | 6491   | TON  | \$ 166    | \$ 1,078,000      |
| 401-000048  | QC/QA-HMA, 4 58S, Base, 25.0 mm              | 31151  | TON  | \$ 113    | \$ 3,520,000      |
| 401-000067  | QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm | 7081   | TON  | \$ 110    | \$ 779,000        |
| 618-06192   | Wall   | 0      | LFT  | \$ 793    | \$ -              |
| n/a   | BRIDGES                                      | 15532  | SF   | \$ 175    | \$ 2,718,000      |
| Unquantified Items (as percentage of items above) |  | 52%    |      |           | \$ 8,317,000      |

|  |  |                      |              |                      |
|--|--|----------------------|--------------|----------------------|
| <b>Sub-Total</b>                                     |  |                      |              | <b>\$ 24,311,000</b> |
| <b>Contingency</b>                                   |  | <b>0%</b>            |              | <b>35%</b>           |
| <b>Expected Range of Construction Cost Sub-Total</b> |  | <b>\$ 24,311,000</b> | <b>to \$</b> | <b>32,820,000</b>    |

|                          |    |              |       |           |
|--------------------------|----|--------------|-------|-----------|
| Construction Engineering | 2% | \$ 486,000   | to \$ | 656,000   |
| Mob/Demob                | 5% | \$ 1,216,000 | to \$ | 1,641,000 |
| Clearing Right of Way    | 2% | \$ 486,000   | to \$ | 656,000   |
| MOT                      | 5% | \$ 1,216,000 | to \$ | 1,641,000 |

| Additional construction costs not accounted for above: | Qty | Unit | Unit Cost            | Construction Cost       |
|--|-----|------|----------------------|-------------------------|
|  |     |      |                      | \$ -                    |
|  |     |      |                      | \$ -                    |
|  |     |      |                      | \$ -                    |
|  |     |      |                      | \$ -                    |
| <b>Opinion of Probable Construction Cost</b>           |     |      | <b>\$ 27,715,000</b> | <b>to \$ 37,414,000</b> |

|                         |      |              |       |            |
|-------------------------|------|--------------|-------|------------|
| UT Cost                 | 7.0% | \$ 1,940,000 | to \$ | 2,619,000  |
| Preliminary Engineering | 15%  | \$ 4,157,000 | to \$ | 5,612,000  |
| RW Cost                 |      | \$ 7,504,000 | to \$ | 10,130,000 |

| Additional items not accounted for at this stage in design | Qty | Unit | Unit Cost | Construction Cost |
|--|-----|------|-----------|-------------------|
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |

|   |  |  |                      |                         |
|---|--|--|----------------------|-------------------------|
| <b>Opinion of Probable Cost in 2024 Dollars</b> |  |  | <b>\$ 41,316,000</b> | <b>to \$ 55,775,000</b> |
|---|--|--|----------------------|-------------------------|

*\* The opinion of probable costs represented should be considered conceptual in nature and is not a guarantee of actual submitted contractor quotes at time of procurement. Market conditions, economic conditions, and contract delivery mechanisms will have an influence on construction cost at time of procurement. Although these conditions are considered, cost cannot be guaranteed.*

**US 31 South PEL Study**

**Level 3 Screening**

**Tipton Package 6**

| Item No   | Description                                  | Qty    | Unit | Unit Cost | Construction Cost |
|---|--|--------|------|-----------|-------------------|
| 203-02000   | Excavation Common                            | 18849  | CYS  | \$ 36     | \$ 679,000        |
| 303-01180   | Compacted Aggregate No. 53                   | 3742   | TON  | \$ 81     | \$ 303,000        |
| 203-02070   | Borrow                                       | 128644 | CYS  | \$ 35     | \$ 4,503,000      |
| 207-12635   | Subgrade Treatment Type IBC                  | 54223  | SYS  | \$ 35     | \$ 1,898,000      |
| 401-000009  | QC/QA-HMA, 4 58E, Surface, 9.5 mm            | 5185   | TON  | \$ 144    | \$ 747,000        |
| 401-000045  | QC/QA-HMA, 4 58E, Intermediate, 19.0 mm      | 6406   | TON  | \$ 166    | \$ 1,063,000      |
| 401-000048  | QC/QA-HMA, 4 58S, Base, 25.0 mm              | 30744  | TON  | \$ 113    | \$ 3,474,000      |
| 401-000067  | QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm | 6989   | TON  | \$ 110    | \$ 769,000        |
| 618-06192   | Wall   | 0      | LFT  | \$ 793    | \$ -              |
| n/a   | BRIDGES                                      | 15532  | SF   | \$ 175    | \$ 2,718,000      |
| Unquantified Items (as percentage of items above) |  | 52%    |      |           | \$ 8,400,000      |

|  |  |                      |              |                      |
|--|--|----------------------|--------------|----------------------|
| <b>Sub-Total</b>                                     |  |                      |              | <b>\$ 24,554,000</b> |
| <b>Contingency</b>                                   |  | <b>0%</b>            |              | <b>35%</b>           |
| <b>Expected Range of Construction Cost Sub-Total</b> |  | <b>\$ 24,554,000</b> | <b>to \$</b> | <b>33,148,000</b>    |

|                          |    |              |       |           |
|--------------------------|----|--------------|-------|-----------|
| Construction Engineering | 2% | \$ 491,000   | to \$ | 663,000   |
| Mob/Demob                | 5% | \$ 1,228,000 | to \$ | 1,657,000 |
| Clearing Right of Way    | 2% | \$ 491,000   | to \$ | 663,000   |
| MOT                      | 5% | \$ 1,228,000 | to \$ | 1,657,000 |

| Additional construction costs not accounted for above: | Qty | Unit | Unit Cost            | Construction Cost       |
|--|-----|------|----------------------|-------------------------|
|  |     |      |                      | \$ -                    |
|  |     |      |                      | \$ -                    |
|  |     |      |                      | \$ -                    |
|  |     |      |                      | \$ -                    |
| <b>Opinion of Probable Construction Cost</b>           |     |      | <b>\$ 27,992,000</b> | <b>to \$ 37,788,000</b> |

|                         |      |              |       |            |
|-------------------------|------|--------------|-------|------------|
| UT Cost                 | 7.0% | \$ 1,959,000 | to \$ | 2,645,000  |
| Preliminary Engineering | 15%  | \$ 4,199,000 | to \$ | 5,668,000  |
| RW Cost                 |      | \$ 7,516,000 | to \$ | 10,147,000 |

| Additional items not accounted for at this stage in design | Qty | Unit | Unit Cost | Construction Cost |
|--|-----|------|-----------|-------------------|
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |

|   |  |  |                      |                         |
|---|--|--|----------------------|-------------------------|
| <b>Opinion of Probable Cost in 2024 Dollars</b> |  |  | <b>\$ 41,666,000</b> | <b>to \$ 56,248,000</b> |
|---|--|--|----------------------|-------------------------|

\* The opinion of probable costs represented should be considered conceptual in nature and is not a guarantee of actual submitted contractor quotes at time of procurement. Market conditions, economic conditions, and contract delivery mechanisms will have an influence on construction cost at time of procurement. Although these conditions are considered, cost cannot be guaranteed.



**US 31 South PEL Study**

**Level 3 Screening**

**East Union**

**Package 1**

| Item No   | Description                                  | Qty        | Unit        | Unit Cost        |                   | Construction Cost        |                   |
|---|--|------------|-------------|------------------|-------------------|--------------------------|-------------------|
| 203-0200  | Excavation Common                            | 3904       | CYS         | \$               | 36                | \$                       | 141,000           |
| 303-01180   | Compacted Aggregate No. 53                   | 7535       | TON         | \$               | 81                | \$                       | 610,000           |
| 203-02070   | Borrow                                       | 875        | CYS         | \$               | 35                | \$                       | 31,000            |
| 207-12635   | Subgrade Treatment Type IBC                  | 23469      | SYS         | \$               | 35                | \$                       | 821,000           |
| 401-000009  | QC/QA-HMA, 4 58E, Surface, 9.5 mm            | 4194       | TON         | \$               | 144               | \$                       | 604,000           |
| 401-000045  | QC/QA-HMA, 4 58E, Intermediate, 19.0 mm      | 3230       | TON         | \$               | 166               | \$                       | 536,000           |
| 401-000048  | QC/QA-HMA, 4 58S, Base, 25.0 mm              | 15492      | TON         | \$               | 113               | \$                       | 1,751,000         |
| 401-000067  | QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm | 3525       | TON         | \$               | 110               | \$                       | 388,000           |
| 618-06192   | Wall   | 0          | LFT         | \$               | 793               | \$                       | -                 |
| n/a   | BRIDGES                                      | 12364      | SF          | \$               | 175               | \$                       | 2,164,000         |
| Unquantified Items (as percentage of items above)                 |  | 52%        |             |                  |                   | \$                       | 3,664,000         |
| <b>Sub-Total</b>  |  |            |             |                  |                   | <b>\$</b>                | <b>10,710,000</b> |
| <b>Contingency</b>  |  |            |             | <b>0%</b>        |                   | <b>35%</b>               |                   |
| <b>Expected Range of Construction Cost Sub-Total</b>              |  |            |             | <b>\$</b>        | <b>10,710,000</b> | <b>to \$</b>             | <b>14,459,000</b> |
|   |  |            |             |                  |                   |                          |                   |
| Construction Engineering  | 2%   |            | \$          | 214,000          | to \$             |                          | 289,000           |
| Mob/Demob   | 5%   |            | \$          | 536,000          | to \$             |                          | 723,000           |
| Clearing Right of Way   | 2%   |            | \$          | 214,000          | to \$             |                          | 289,000           |
| MOT   | 5%   |            | \$          | 536,000          | to \$             |                          | 723,000           |
| <b>Additional construction costs not accounted for above:</b>     |  | <b>Qty</b> | <b>Unit</b> | <b>Unit Cost</b> |                   | <b>Construction Cost</b> |                   |
|   |  |            |             |                  |                   | \$                       | -                 |
|   |  |            |             |                  |                   | \$                       | -                 |
|   |  |            |             |                  |                   | \$                       | -                 |
| <b>Opinion of Probable Construction Cost</b>                      |  |            |             | <b>\$</b>        | <b>12,210,000</b> | <b>to \$</b>             | <b>16,483,000</b> |
|   |  |            |             |                  |                   |                          |                   |
| UT Cost   | 7.0%   |            | \$          | 855,000          | to \$             |                          | 1,154,000         |
| Preliminary Engineering   | 15%  |            | \$          | 367,000          | to \$             |                          | 2,472,000         |
| RW Cost   |  |            | \$          | 367,000          | to \$             |                          | 495,000           |
| <b>Additional items not accounted for at this stage in design</b> |  | <b>Qty</b> | <b>Unit</b> | <b>Unit Cost</b> |                   | <b>Construction Cost</b> |                   |
|   |  |            |             |                  |                   | \$                       | -                 |
|   |  |            |             |                  |                   | \$                       | -                 |
|   |  |            |             |                  |                   | \$                       | -                 |
|   |  |            |             |                  |                   | \$                       | -                 |
| <b>Opinion of Probable Cost in 2024 Dollars</b>                   |  |            |             | <b>\$</b>        | <b>13,799,000</b> | <b>to \$</b>             | <b>20,604,000</b> |

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**US 31 South PEL Study**

**Level 3 Screening**

**Package 2**

| Item No   | Description                                  | Qty   | Unit | Unit Cost | Construction Cost |
|---|--|-------|------|-----------|-------------------|
| 203-0200  | Excavation Common                            | 2783  | CYS  | \$ 36     | \$ 100,000        |
| 303-01180   | Compacted Aggregate No. 53                   | 8285  | TON  | \$ 81     | \$ 671,000        |
| 203-02070   | Borrow                                       | 37971 | CYS  | \$ 35     | \$ 1,329,000      |
| 207-12635   | Subgrade Treatment Type IBC                  | 24488 | SYS  | \$ 35     | \$ 857,000        |
| 401-000009  | QC/QA-HMA, 4 58E, Surface, 9.5 mm            | 3871  | TON  | \$ 144    | \$ 557,000        |
| 401-000045  | QC/QA-HMA, 4 58E, Intermediate, 19.0 mm      | 3371  | TON  | \$ 166    | \$ 560,000        |
| 401-000048  | QC/QA-HMA, 4 58S, Base, 25.0 mm              | 16166 | TON  | \$ 113    | \$ 1,827,000      |
| 401-000067  | QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm | 3677  | TON  | \$ 110    | \$ 404,000        |
| 618-06192   | Wall   | 0     | LFT  | \$ 793    | \$ -              |
| n/a   | BRIDGES                                      | 19508 | SF   | \$ 175    | \$ 3,414,000      |
| Unquantified Items (as percentage of items above) |  | 52%   |      |           | \$ 5,054,000      |

|  |  |                      |                         |                      |
|--|--|----------------------|-------------------------|----------------------|
| <b>Sub-Total</b>                                     |  |                      |                         | <b>\$ 14,773,000</b> |
| <b>Contingency</b>                                   |  |                      | <b>0%</b>               | <b>135%</b>          |
| <b>Expected Range of Construction Cost Sub-Total</b> |  | <b>\$ 14,773,000</b> | <b>to \$ 19,944,000</b> |                      |

|                          |    |            |               |
|--------------------------|----|------------|---------------|
| Construction Engineering | 2% | \$ 295,000 | to \$ 399,000 |
| Mob/Demob                | 5% | \$ 739,000 | to \$ 997,000 |
| Clearing Right of Way    | 2% | \$ 295,000 | to \$ 399,000 |
| MOT                      | 5% | \$ 739,000 | to \$ 997,000 |

| Additional construction costs not accounted for above: | Qty | Unit | Unit Cost            | Construction Cost       |
|--|-----|------|----------------------|-------------------------|
|  |     |      |                      | \$ -                    |
|  |     |      |                      | \$ -                    |
|  |     |      |                      | \$ -                    |
|  |     |      |                      | \$ -                    |
| <b>Opinion of Probable Construction Cost</b>           |     |      | <b>\$ 16,841,000</b> | <b>to \$ 22,736,000</b> |

|                         |      |              |                 |
|-------------------------|------|--------------|-----------------|
| UT Cost                 | 7.0% | \$ 1,179,000 | to \$ 1,592,000 |
| Preliminary Engineering | 15%  | \$ 2,526,000 | to \$ 3,410,000 |
| RW Cost                 |      | \$ 981,000   | to \$ 1,324,000 |

| Additional items not accounted for at this stage in design | Qty | Unit | Unit Cost | Construction Cost |
|--|-----|------|-----------|-------------------|
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |
|  |     |      |           | \$ -              |

|   |  |                      |                         |
|---|--|----------------------|-------------------------|
| <b>Opinion of Probable Cost in 2023 Dollars</b> |  | <b>\$ 21,527,000</b> | <b>to \$ 29,062,000</b> |
|---|--|----------------------|-------------------------|

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**US 31 South PEL Study**

**Level 3 Screening**

**East Union**

**Package 3**

| Item No   | Description                                  | Qty        | Unit        | Unit Cost                  | Construction Cost        |
|---|--|------------|-------------|----------------------------|--------------------------|
| 203-0200  | Excavation Common                            | 1768       | CYS         | \$ 36                      | \$ 64,000                |
| 303-01180   | Compacted Aggregate No. 53                   | 8023       | TON         | \$ 81                      | \$ 650,000               |
| 203-02070   | Borrow                                       | 37925      | CYS         | \$ 35                      | \$ 1,327,000             |
| 207-12635   | Subgrade Treatment Type IBC                  | 18957      | SYS         | \$ 35                      | \$ 664,000               |
| 401-000009  | QC/QA-HMA, 4 58E, Surface, 9.5 mm            | 3762       | TON         | \$ 144                     | \$ 542,000               |
| 401-000045  | QC/QA-HMA, 4 58E, Intermediate, 19.0 mm      | 2610       | TON         | \$ 166                     | \$ 433,000               |
| 401-000048  | QC/QA-HMA, 4 58S, Base, 25.0 mm              | 12515      | TON         | \$ 113                     | \$ 1,414,000             |
| 401-000067  | QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm | 2846       | TON         | \$ 110                     | \$ 313,000               |
| 618-06192   | Wall   | 0          | LFT         | \$ 793                     | \$ -                     |
| n/a   | BRIDGES                                      | 7144       | SF          | \$ 175                     | \$ 1,250,000             |
| Unquantified Items (as percentage of items above)                 |  | 52%        |             |                            | \$ 3,462,000             |
| <b>Sub-Total</b>  |  |            |             |                            | <b>\$ 10,119,000</b>     |
| <b>Contingency</b>  |  |            |             | <b>0%</b>                  | <b>35%</b>               |
| <b>Expected Range of Construction Cost Sub-Total</b>              |  |            |             | <b>\$ 10,119,000 to \$</b> | <b>13,661,000</b>        |
|   |  |            |             |                            |                          |
| Construction Engineering  | 2%   |            | \$          | 202,000 to \$              | 273,000                  |
| Mob/Demob   | 5%   |            | \$          | 506,000 to \$              | 683,000                  |
| Clearing Right of Way   | 2%   |            | \$          | 202,000 to \$              | 273,000                  |
| MOT   | 5%   |            | \$          | 506,000 to \$              | 683,000                  |
| <b>Additional construction costs not accounted for above:</b>     |  | <b>Qty</b> | <b>Unit</b> | <b>Unit Cost</b>           | <b>Construction Cost</b> |
|   |  |            |             |                            | \$ -                     |
|   |  |            |             |                            | \$ -                     |
|   |  |            |             |                            | \$ -                     |
|   |  |            |             |                            | \$ -                     |
| <b>Opinion of Probable Construction Cost</b>                      |  |            |             | <b>\$ 11,535,000 to \$</b> | <b>15,573,000</b>        |
|   |  |            |             |                            |                          |
| UT Cost   | 7.0%   |            | \$          | 807,000 to \$              | 1,090,000                |
| Preliminary Engineering   | 15%  |            | \$          | 1,730,000 to \$            | 2,336,000                |
| RW Cost   |  |            | \$          | 945,000 to \$              | 1,276,000                |
| <b>Additional items not accounted for at this stage in design</b> |  | <b>Qty</b> | <b>Unit</b> | <b>Unit Cost</b>           | <b>Construction Cost</b> |
|   |  |            |             |                            | \$ -                     |
|   |  |            |             |                            | \$ -                     |
|   |  |            |             |                            | \$ -                     |
|   |  |            |             |                            | \$ -                     |
| <b>Opinion of Probable Cost in 2024 Dollars</b>                   |  |            |             | <b>\$ 15,017,000 to \$</b> | <b>20,275,000</b>        |

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US 31 South PEL Study  
Level 3 Screening

East Union  
Package 4

| Item No  | Description                                  | Qty   | Unit | Unit Cost |            | Construction Cost |            |
|--|--|-------|------|-----------|------------|-------------------|------------|
| 203-0200   | Excavation Common                            | 2124  | CYS  | \$        | 36         | \$                | 76,000     |
| 303-01180  | Compacted Aggregate No. 53                   | 4603  | TON  | \$        | 81         | \$                | 373,000    |
| 203-02070  | Borrow                                       | 703   | CYS  | \$        | 35         | \$                | 25,000     |
| 207-12635  | Subgrade Treatment Type IBC                  | 13483 | SYS  | \$        | 35         | \$                | 472,000    |
| 401-000009   | QC/QA-HMA, 4 58E, Surface, 9.5 mm            | 2256  | TON  | \$        | 144        | \$                | 325,000    |
| 401-000045   | QC/QA-HMA, 4 58E, Intermediate, 19.0 mm      | 1858  | TON  | \$        | 166        | \$                | 308,000    |
| 401-000048   | QC/QA-HMA, 4 58S, Base, 25.0 mm              | 8902  | TON  | \$        | 113        | \$                | 1,006,000  |
| 401-000067   | QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm | 2025  | TON  | \$        | 110        | \$                | 223,000    |
| 618-06192  | Wall   | 0     | LFT  | \$        | 793        | \$                | -          |
| n/a  | BRIDGES                                      | 0     | SF   | \$        | 175        | \$                | -          |
| Unquantified Items (as percentage of items above)          |  | 52%   |      |           |            | \$                | 1,460,000  |
| Sub-Total  |  |       |      |           |            | \$                | 4,268,000  |
| Compacted Aggregate No. 53                                 |  |       |      | 0%        |            | 35%               |            |
| Expected Range of Construction Cost Sub-Total              |  |       |      | \$        | 4,268,000  | to \$             | 5,762,000  |
|  |  |       |      |           |            |                   |            |
| Construction Engineering                                   |  | 2%    |      | \$        | 85,000     | to \$             | 115,000    |
| Mob/Demob  |  | 5%    |      | \$        | 213,000    | to \$             | 288,000    |
| Clearing Right of Way                                      |  | 2%    |      | \$        | 85,000     | to \$             | 115,000    |
| MOT  |  | 5%    |      | \$        | 213,000    | to \$             | 288,000    |
|  |  |       |      |           |            |                   |            |
| Additional construction costs not accounted for above:     |  | Qty   | Unit | Unit Cost |            | Construction Cost |            |
|  |  |       |      |           |            | \$                | -          |
|  |  |       |      |           |            | \$                | -          |
|  |  |       |      |           |            | \$                | -          |
|  |  |       |      |           |            | \$                | -          |
| Opinion of Probable Cost                                   |  | 3     |      | \$        | 4,864,000  | to \$             | 6,568,000  |
|  |  |       |      |           |            |                   |            |
| UT Cost  |  | 7.0%  |      | \$        | 340,000    | to \$             | 460,000    |
| Preliminary Engineering                                    |  | 15%   |      | \$        | 730,000    | to \$             | 985,000    |
| RW Cost  |  |       |      | \$        | 5,295,000  | to \$             | 7,148,000  |
|  |  |       |      |           |            |                   |            |
| Additional items not accounted for at this stage in design |  | Qty   | Unit | Unit Cost |            | Construction Cost |            |
|  |  |       |      |           |            | \$                | -          |
|  |  |       |      |           |            | \$                | -          |
|  |  |       |      |           |            | \$                | -          |
|  |  |       |      |           |            | \$                | -          |
| Opinion of Probable Cost in 2024 Dollars                   |  |       |      | \$        | 11,229,000 | to \$             | 15,161,000 |

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**US 31 South PEL Study**

**Level 3 Screening**

**East Union**

**Package 5**

| Item No   | Description                                  | Qty   | Unit | Unit Cost | Construction Cost |
|---|--|-------|------|-----------|-------------------|
| 203-0200  | Excavation Common                            | 5360  | CYS  | \$ 36     | \$ 193,000        |
| 303-01180   | Compacted Aggregate No. 53                   | 4917  | TON  | \$ 81     | \$ 398,000        |
| 203-02070   | Borrow                                       | 37774 | CYS  | \$ 35     | \$ 1,322,000      |
| 207-12635   | Subgrade Treatment Type 2                    | 13690 | SYS  | \$ 35     | \$ 479,000        |
| 401-000009  | QC/QA HMA 3 76 Surface 9.5 mm                | 1134  | TON  | \$ 144    | \$ 163,000        |
| 401-000045  | QC/QA HMA 3 76 Intermediate 19.0 mm          | 1887  | TON  | \$ 166    | \$ 313,000        |
| 401-000048  | QC/QA HMA 3 76 Base 25.0 mm                  | 9039  | TON  | \$ 113    | \$ 1,021,000      |
| 401-000067  | QC/QA-HMA, 4 58E, Intermediate , OG, 19.0 mm | 2057  | TON  | \$ 110    | \$ 226,000        |
| 618-06192   | Wall   | 0     | LFT  | \$ 793    | \$ -              |
| n/a   | BRIDGES                                      | 0     | SF   | \$ 175    | \$ -              |
| Unquantified Items (as percentage of items above) |  | 52%   |      |           | \$ 2,140,000      |

|  |  |                     |              |                     |
|--|--|---------------------|--------------|---------------------|
| <b>Sub-Total</b>                                     |  |                     |              | <b>\$ 6,255,000</b> |
| <b>Contingency</b>                                   |  | <b>0%</b>           |              | <b>35%</b>          |
| <b>Expected Range of Construction Cost Sub-Total</b> |  | <b>\$ 6,255,000</b> | <b>to \$</b> | <b>8,444,000</b>    |

|                          |    |            |       |         |
|--------------------------|----|------------|-------|---------|
| Construction Engineering | 2% | \$ 125,000 | to \$ | 169,000 |
| Mob/Demob                | 5% | \$ 313,000 | to \$ | 422,000 |
| Clearing Right of Way    | 2% | \$ 125,000 | to \$ | 169,000 |
| MOT                      | 5% | \$ 313,000 | to \$ | 422,000 |

| Additional construction costs not accounted for above: | Qty | Unit | Unit Cost           | Construction Cost      |
|--|-----|------|---------------------|------------------------|
|  |     |      |                     | \$ -                   |
|  |     |      |                     | \$ -                   |
|  |     |      |                     | \$ -                   |
|  |     |      |                     | \$ -                   |
| <b>Opinion of Probable Construction Cost</b>           |     |      | <b>\$ 7,131,000</b> | <b>to \$ 9,626,000</b> |

|                         |      |              |       |           |
|-------------------------|------|--------------|-------|-----------|
| UT Cost                 | 7.0% | \$ 499,000   | to \$ | 674,000   |
| Preliminary Engineering | 15%  | \$ 1,070,000 | to \$ | 1,444,000 |
| RW Cost                 |      | \$ 6,068,000 | to \$ | 8,192,000 |

| Additional items not accounted for at this stage in design: | Qty | Unit | Unit Cost | Construction Cost |
|---|-----|------|-----------|-------------------|
|   |     |      |           | \$ -              |
|   |     |      |           | \$ -              |
|   |     |      |           | \$ -              |
|   |     |      |           | \$ -              |

|   |  |  |                      |                         |
|---|--|--|----------------------|-------------------------|
| <b>Opinion of Probable Cost in 2024 Dollars</b> |  |  | <b>\$ 14,768,000</b> | <b>to \$ 19,936,000</b> |
|---|--|--|----------------------|-------------------------|

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