

## Preliminary Cost Estimate

|   |  |    |   |                       |                          |
|---|--|----|---|-----------------------|--------------------------|
| <b>PROJECT:</b>   | Brunswick-Topsham, F.J. Wood Bridge #2016  |    |   |                       | <b>WIN:</b> 22603.00     |
| Alternative 1:  | Bridge Replacement. Five Span (137.5'-175'-175'-175'-137.5') Steel Girder on Existing Alignment.<br>Deck Area: 803' x 45.33' = 36,400 SF |    |   |                       | <b>ESTIMATED BY:</b> RMH |
| <b>SUPERSTRUCTURE:</b>  |  |    |   |                       |                          |
|   | <u>36,400</u>  | SF | x | <u>\$155.00</u>       | <u>\$5,642,000</u>       |
| <b>ABUTMENTS:</b>   | <u>36,400</u>  | SF | x | <u>\$17.50</u>        | <u>\$637,000</u>         |
| <b>PIERS:</b>   | <u>4</u>   | EA | x | <u>\$281,000.00</u>   | <u>\$1,124,000</u>       |
| <b>COFFERDAMS:</b>  | <u>3</u>   | EA | x | <u>\$200,000.00</u>   | <u>\$600,000</u>         |
| <b>STRUCTURAL EXCAVATION &amp; BORROW:</b>  | <u>1,500</u>   | CY | x | <u>\$40.00</u>        | <u>\$60,000</u>          |
| <b>RIPRAP:</b>  | <u>300</u>   | CY | x | <u>\$80.00</u>        | <u>\$24,000</u>          |
| <b>EXISTING BRIDGE REMOVAL:</b>   | <u>1</u>   | LS | x | <u>\$1,000,000.00</u> | <u>\$1,000,000</u>       |
| <b>DETOUR AND/OR TEMPORARY BRIDGE:</b>  | <u>1</u>   | LS | x | <u>\$4,000,000.00</u> | <u>\$4,000,000</u>       |
| <b>REHABILITATION CONTINGENCIES:</b>  |  |    |   | <u>N/A</u>            | <u>\$0</u>               |
| <b>MISCELLANEOUS (TCP'S, FIELD OFFICE, ETC.): (7%+\$1M cost premium for work trestle)</b> |  |    |   | <u>7%</u>             | <u>\$1,942,000</u>       |
| <b>MOBILIZATION:</b>  |  |    |   | <u>6%</u>             | <u>\$786,000</u>         |
| <b>STRUCTURE SUBTOTAL</b>   |  |    |   |                       | <b>\$15,820,000</b>      |
| <b>APPROACHES:</b>  |  |    |   |                       |                          |
|   | <u>150</u>   | LF | x | <u>\$750.00</u>       | <u>\$113,000</u>         |
| <b>MISCELLANEOUS:</b>   |  |    |   | <u>10%</u>            | <u>\$12,000</u>          |
| <b>MOBILIZATION:</b>  |  |    |   | <u>10%</u>            | <u>\$12,000</u>          |
| <b>APPROACHES SUBTOTAL</b>  |  |    |   |                       | <b>\$140,000</b>         |
| <b>TOTAL CONSTRUCTION COST</b>  |  |    |   |                       | <b>\$16,000,000</b>      |
| <b>PRELIMINARY ENGINEERING:</b>   |  |    |   |                       |                          |
|   |  |    |   | <u>6%</u>             | <u>\$950,000</u>         |
| <b>RIGHT OF WAY:</b>  |  |    |   |                       |                          |
|   |  |    |   |                       | <u>\$0</u>               |
| <b>CONSTRUCTION ENGINEERING:</b>  |  |    |   |                       |                          |
|   |  |    |   | <u>5%</u>             | <u>\$850,000</u>         |
| <b>OTHER:</b>   |  |    |   |                       |                          |
|   |  |    |   |                       | <u>\$0</u>               |
| <b>TOTAL PROJECT COST</b>   |  |    |   |                       | <b>\$18,000,000</b>      |

## Preliminary Cost Estimate

|   |  |    |   |                       |                      |                     |
|---|--|----|---|-----------------------|----------------------|---------------------|
| <b>PROJECT:</b>   | Brunswick-Topsham, F.J. Wood Bridge #2016  |    |   |                       | <b>WIN:</b>          | 22603.00            |
| Alternative 2:  | Bridge Replacement. Five Span (80', 200'-205'-205'-145') Steel Girder on Upstream Curved Alignment. Deck Area: 838' x 45.33' = 37,990 SF |    |   |                       | <b>ESTIMATED BY:</b> | RMH                 |
| <b>SUPERSTRUCTURE:</b>  |  |    |   |                       |                      |                     |
|   | <u>37,990</u>  | SF | x | <u>\$170.00</u>       | =                    | <u>\$6,459,000</u>  |
| <b>ABUTMENTS:</b>   | <u>37,990</u>  | SF | x | <u>\$18.00</u>        | =                    | <u>\$684,000</u>    |
| <b>PIERS:</b>   | <u>4</u>   | EA | x | <u>\$264,000.00</u>   | =                    | <u>\$1,056,000</u>  |
| <b>COFFERDAMS:</b>  | <u>2</u>   | EA | x | <u>\$200,000.00</u>   | =                    | <u>\$400,000</u>    |
| <b>COFFERDAMS:</b>  | <u>2</u>   | EA | x | <u>\$100,000.00</u>   | =                    | <u>\$200,000</u>    |
| <b>STRUCTURAL EXCAVATION &amp; BORROW:</b>  | <u>1,500</u>   | CY | x | <u>\$40.00</u>        | =                    | <u>\$60,000</u>     |
| <b>RIPRAP:</b>  | <u>300</u>   | CY | x | <u>\$80.00</u>        | =                    | <u>\$24,000</u>     |
| <b>EXISTING BRIDGE REMOVAL:</b>   | <u>1</u>   | LS | x | <u>\$1,000,000.00</u> | =                    | <u>\$1,000,000</u>  |
| <b>DETOUR AND/OR TEMPORARY BRIDGE:</b>  | <u>0</u>   | LS | x | <u>\$0.00</u>         | =                    | <u>\$0</u>          |
| <b>REHABILITATION CONTINGENCIES:</b>  |  |    |   | <u>N/A</u>            | =                    | <u>\$0</u>          |
| <b>MISCELLANEOUS (TCP'S, FIELD OFFICE, ETC.): (7%+\$1M cost premium for work trestle)</b> |  |    |   | <u>7%</u>             | =                    | <u>\$1,717,000</u>  |
| <b>MOBILIZATION:</b>  |  |    |   | <u>7%</u>             | =                    | <u>\$692,000</u>    |
| <b>STRUCTURE SUBTOTAL</b>   |  |    |   |                       | =                    | <b>\$12,300,000</b> |
| <b>APPROACHES:</b>  |  |    |   |                       |                      |                     |
| <b>APPROACHES: (inc. add of \$175K for walls)</b>   | <u>500</u>   | LF | x | <u>\$550.00</u>       | =                    | <u>\$450,000</u>    |
| <b>MISCELLANEOUS:</b>   |  |    |   | <u>10%</u>            | =                    | <u>\$45,000</u>     |
| <b>MOBILIZATION:</b>  |  |    |   | <u>10%</u>            | =                    | <u>\$45,000</u>     |
| <b>APPROACHES SUBTOTAL</b>  |  |    |   |                       | =                    | <b>\$540,000</b>    |
| <b>TOTAL CONSTRUCTION COST</b>  |  |    |   |                       | =                    | <b>\$13,000,000</b> |
| <b>PRELIMINARY ENGINEERING:</b>   |  |    |   | <u>7%</u>             | =                    | <u>\$950,000</u>    |
| <b>RIGHT OF WAY:</b>  |  |    |   |                       | =                    | <u>\$50,000</u>     |
| <b>CONSTRUCTION ENGINEERING:</b>  |  |    |   | <u>7%</u>             | =                    | <u>\$850,000</u>    |
| <b>OTHER:</b>   |  |    |   |                       | =                    | <u>\$0</u>          |
| <b>TOTAL PROJECT COST</b>   |  |    |   |                       | =                    | <b>\$15,000,000</b> |

## Preliminary Cost Estimate

|  |  |    |   |                       |                      |                     |
|--|--|----|---|-----------------------|----------------------|---------------------|
| <b>PROJECT:</b>  | Brunswick-Topsham, F.J. Wood Bridge #2016                                    |    |   |                       | <b>WIN:</b>          | 22603.00            |
| Alternative 3:   | Existing Truss Bridge Rehabilitation. Deck Area:<br>808' x 39.9' = 32,240 SF |    |   |                       | <b>ESTIMATED BY:</b> | RMH                 |
| <hr/>  |  |    |   |                       |                      |                     |
| <b>SUPERSTRUCTURE:</b>                                 | <u>32,240</u>  | SF | x | <u>\$226.00</u>       | =                    | <u>\$7,287,000</u>  |
| <b>ABUTMENTS:</b>                                      | <u>32,240</u>  | SF | x | <u>\$3.70</u>         | =                    | <u>\$120,000</u>    |
| <b>PIERS:</b>  | <u>1</u>   | EA | x | <u>\$100,000.00</u>   | =                    | <u>\$100,000</u>    |
| <b>COFFERDAMS:</b>                                     | <u>0</u>   | EA | x | <u>\$0.00</u>         | =                    | <u>\$0</u>          |
| <b>STRUCTURAL EXCAVATION &amp; BORROW:</b>             | <u>0</u>   | CY | x | <u>\$0.00</u>         | =                    | <u>\$0</u>          |
| <b>RIPRAP:</b>   | <u>0</u>   | CY | x | <u>\$0.00</u>         | =                    | <u>\$0</u>          |
| <b>EXISTING BRIDGE DECK REMOVAL:</b>                   | <u>1</u>   | LS | x | <u>\$175,000.00</u>   | =                    | <u>\$175,000</u>    |
| <b>DETOUR AND/OR TEMPORARY BRIDGE:</b>                 | <u>1</u>   | LS | x | <u>\$4,000,000.00</u> | =                    | <u>\$4,000,000</u>  |
| <b>REHABILITATION CONTINGENCIES (w/o Temp Bridge):</b> |  |    |   | <u>15%</u>            | =                    | <u>\$1,153,000</u>  |
| <b>MISCELLANEOUS (TCP'S, FIELD OFFICE, ETC.):</b>      |  |    |   | <u>7%</u>             | =                    | <u>\$843,000</u>    |
| <b>MOBILIZATION:</b>                                   |  |    |   | <u>10%</u>            | =                    | <u>\$1,169,000</u>  |
| <b>STRUCTURE SUBTOTAL</b>                              |  |    |   |                       | =                    | <b>\$14,850,000</b> |
| <hr/>  |  |    |   |                       |                      |                     |
| <b>APPROACHES:</b>                                     | <u>50</u>  | LF | x | <u>\$1,000.00</u>     | =                    | <u>\$50,000</u>     |
| <b>MISCELLANEOUS:</b>                                  |  |    |   | <u>10%</u>            | =                    | <u>\$5,000</u>      |
| <b>MOBILIZATION:</b>                                   |  |    |   | <u>10%</u>            | =                    | <u>\$5,000</u>      |
| <b>APPROACHES SUBTOTAL</b>                             |  |    |   |                       | =                    | <b>\$60,000</b>     |
| <b>TOTAL CONSTRUCTION COST</b>                         |  |    |   |                       | =                    | <b>\$15,000,000</b> |
| <hr/>  |  |    |   |                       |                      |                     |
| <b>PRELIMINARY ENGINEERING:</b>                        |  |    |   | <u>8%</u>             | =                    | <u>\$1,200,000</u>  |
| <b>RIGHT OF WAY:</b>                                   |  |    |   |                       | =                    | <u>\$0</u>          |
| <b>CONSTRUCTION ENGINEERING:</b>                       |  |    |   | <u>7%</u>             | =                    | <u>\$1,100,000</u>  |
| <b>OTHER:</b>  |  |    |   |                       | =                    | <u>\$0</u>          |
| <b>TOTAL PROJECT COST</b>                              |  |    |   |                       | =                    | <b>\$17,500,000</b> |

## Preliminary Cost Estimate

|  |  |    |   |                       |                          |
|--|--|----|---|-----------------------|--------------------------|
| <b>PROJECT:</b>  | Brunswick-Topsham, F.J. Wood Bridge #2016  |    |   |                       | <b>WIN:</b> 22603.00     |
| Alternative 4:   | Existing Truss Bridge Rehabilitation with Exodermic Deck and Added D/S Sidewalk. Deck Area: 808' x 47' = 37,980 SF |    |   |                       | <b>ESTIMATED BY:</b> RMH |
| <b>SUPERSTRUCTURE:</b>                                 |  |    |   |                       |                          |
|  | <u>37,980</u>  | SF | x | <u>\$227.00</u>       | <u>\$8,622,000</u>       |
| <b>ABUTMENTS:</b>                                      | <u>37,980</u>  | SF | x | <u>\$3.20</u>         | <u>\$122,000</u>         |
| <b>PIERS:</b>  | <u>1</u>   | EA | x | <u>\$100,000.00</u>   | <u>\$100,000</u>         |
| <b>COFFERDAMS:</b>                                     | <u>0</u>   | EA | x | <u>\$0.00</u>         | <u>\$0</u>               |
| <b>STRUCTURAL EXCAVATION &amp; BORROW:</b>             | <u>0</u>   | CY | x | <u>\$0.00</u>         | <u>\$0</u>               |
| <b>RIPRAP:</b>   | <u>0</u>   | CY | x | <u>\$0.00</u>         | <u>\$0</u>               |
| <b>EXISTING BRIDGE DECK REMOVAL:</b>                   | <u>1</u>   | LS | x | <u>\$175,000.00</u>   | <u>\$175,000</u>         |
| <b>DETOUR AND/OR TEMPORARY BRIDGE:</b>                 | <u>1</u>   | LS | x | <u>\$4,000,000.00</u> | <u>\$4,000,000</u>       |
| <b>REHABILITATION CONTINGENCIES (w/o Temp Bridge):</b> |  |    |   | <u>15%</u>            | <u>\$1,353,000</u>       |
| <b>MISCELLANEOUS (TCP'S, FIELD OFFICE, ETC.):</b>      |  |    |   | <u>7%</u>             | <u>\$937,000</u>         |
| <b>MOBILIZATION:</b>                                   |  |    |   | <u>10%</u>            | <u>\$1,302,000</u>       |
| <b>STRUCTURE SUBTOTAL</b>                              |  |    |   |                       | <b>\$16,620,000</b>      |
| <b>APPROACHES:</b>                                     |  |    |   |                       |                          |
|  | <u>100</u>   | LF | x | <u>\$1,000.00</u>     | <u>\$100,000</u>         |
| <b>MISCELLANEOUS:</b>                                  |  |    |   | <u>10%</u>            | <u>\$10,000</u>          |
| <b>MOBILIZATION:</b>                                   |  |    |   | <u>10%</u>            | <u>\$10,000</u>          |
| <b>APPROACHES SUBTOTAL</b>                             |  |    |   |                       | <b>\$120,000</b>         |
| <b>TOTAL CONSTRUCTION COST</b>                         |  |    |   |                       | <b>\$17,000,000</b>      |
| <b>PRELIMINARY ENGINEERING:</b>                        |  |    |   |                       |                          |
|  |  |    |   | <u>7%</u>             | <u>\$1,200,000</u>       |
| <b>RIGHT OF WAY:</b>                                   |  |    |   |                       |                          |
|  |  |    |   |                       | <u>\$0</u>               |
| <b>CONSTRUCTION ENGINEERING:</b>                       |  |    |   |                       |                          |
|  |  |    |   | <u>6%</u>             | <u>\$1,100,000</u>       |
| <b>OTHER:</b>  |  |    |   |                       |                          |
|  |  |    |   |                       | <u>\$0</u>               |
| <b>TOTAL PROJECT COST</b>                              |  |    |   |                       | <b>\$19,500,000</b>      |