

**CONTRACT CHANGE ORDER MEMORANDUM**

|   |   |  |   |   |
|---|---|--|---|---|
| TO: Pete Siegenthaler, Prin TE /  |   |  | FILE: E.A. 04 - 0120F4  |   |
| FROM: Kannu Balan, Senior TE  |   |  | CO-RTE-PM SF-80-13.2/13.9   |   |
| FED. NO.  |   |  |   |   |
| CCO#: 173   | SUPPLEMENT#: 0                            | Category Code: DHPT  | CONTINGENCY BALANCE (incl. this change) <b>\$165,466,726.11</b>   |   |
| COST: (\$186,548.00) INCREASE <input type="checkbox"/> DECREASE <input checked="" type="checkbox"/> |   |  | HEADQUARTERS APPROVAL REQUIRED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO                             |   |
| SUPPLEMENTAL FUNDS PROVIDED: \$0.00   |   |  | IS THIS REQUEST IN ACCORDANCE WITH ENVIRONMENTAL DOCUMENTS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |   |
| <b>CCO DESCRIPTION:</b><br>Lifting Lugs Issue   |   |  | <b>PROJECT DESCRIPTION:</b><br>CONSTRUCT SELF-ANCHORED SUSPENSION BRIDGE  |   |
| Original Contract Time:<br><b>2490</b> Day(s)   | Time Adj. This Change:<br><b>0</b> Day(s) | Previously Approved CCO Time Adjustments:<br><b>501</b> Day(s) | Percentage Time Adjusted: (including this change)<br><b>20 %</b>  | Total # of Unreconciled Deferred Time CCO(s): (including this change)<br><b>3</b> |

**THIS CHANGE ORDER PROVIDES FOR:**

Allowing internal lifting lugs on Orthotropic Box Girder (OBG) Lifts 1 through 12 to remain in the permanent structure, except for 8 lifting lugs on Lift 1 that do not comply with AWS D1.5.

The Contractor has proposed to leave in place the temporary lifting lug attachments for the OBG. The Contractor submitted 1635R0 "OBG Lifting Lug Fatigue Analysis" to support that leaving the lugs in place would not lower the fatigue resistance of the affected members. Design has evaluated the proposal and determined that it is acceptable to leave the lugs in the permanent structure on a fit-for-purpose basis for Lifts 1 through 12. However, per the Departments joint inspection, eight OBG lifting lugs on Lift 1 were identified that do not comply with AWS D1.5 and will require removal. The noncompliant lifting lugs are located on the East side of the floorbeams at PP 8.5 and 9.5 (4 each - Eastbound and Westbound) at the W3, W4, E3 and E4 lines on the catwalk side of the longitudinal diaphragms. OBG Lifts 9 through 12 will be inspected after erection is complete, but it is not anticipated that any noncompliant lifting lugs will be identified. This change order provides a credit for the cost savings the Department receives from not removing these lifting lugs. No time is saved since the operation is not on the Schedule critical path.

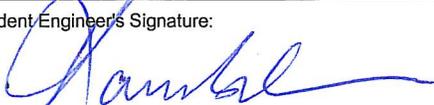
A separate analysis will be performed on OBG Lifts 13 & 14 lifting lugs, should the Contractor want to pursue leaving them in place, and that scope/credit would be covered in a supplemental CCO.

The total credit of this change order is (\$186,548.00), which can be returned to the contingency fund. A detailed cost analysis is on file. This is a change to the Contractor's means and methods of installation and not a bid item reduction.

No time adjustment is warranted as this change order does not affect the controlling operation.

This change order has concurrence from Peter Siegenthaler (Principal TE), William Casey (Sup. TE), Rich Foley (HQ Oversight), Ken Terpstra (Proj. Manager), Wenyi Long (Structure Design Oversight), Bill Zanetich (Maintenance), Jing Chen (District Design) March 16, 2011, and Patrick Lowry (METS) November 9, 2010.

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| CONCURRED BY:                  |   |              | ESTIMATE OF COST  |                       |                       |
|--------------------------------|---|--------------|---|-----------------------|-----------------------|
| Construction Engineer:         | PCE, Pete Siegenthaler, Prin TE   | Date 2/8/11  |   | THIS REQUEST          | TOTAL TO DATE         |
| Bridge Engineer:               | William Casey, Sup TE   | Date 2/8/11  | ITEMS   | \$0.00                | \$0.00                |
| Project Engineer:              | CT Oversight, Wenyi Long, P.E.  | Date 2/9/11  | FORCE ACCOUNT   | \$0.00                | \$0.00                |
| Project Manager:               | Proj Manager, Ken Terpstra  | Date 3/14/11 | AGREED PRICE  | \$0.00                | \$0.00                |
| FHWA Rep.:                     |   | Date         | ADJUSTMENT  | (\$186,548.00)        | (\$186,548.00)        |
| Environmental:                 |   | Date         | <b>TOTAL</b>  | <b>(\$186,548.00)</b> | <b>(\$186,548.00)</b> |
| Other (specify):               | Struct Maint, Bill Zanetich, P.E.   | Date 11/2/10 | <b>FEDERAL PARTICIPATION</b>  |                       |                       |
| Other (specify):               | HQ, Rich Foley  | Date 2/8/11  | <input type="checkbox"/> PARTICIPATING <input type="checkbox"/> PARTICIPATING IN PART <input checked="" type="checkbox"/> NONE<br><input type="checkbox"/> NON-PARTICIPATING (MAINTENANCE) <input type="checkbox"/> NON-PARTICIPATING |                       |                       |
| District Prior Approval By:    |   | Date         | FEDERAL SEGREGATION (if more than one Funding Source or P.I.P. type)<br><input type="checkbox"/> CCO FUNDED PER CONTRACT <input type="checkbox"/> CCO FUNDED AS FOLLOWS   |                       |                       |
| HQ (Issue Approve) By:         |   | Date         | FEDERAL FUNDING SOURCE  | PERCENT               |                       |
| Resident Engineer's Signature: |  | Date 8-24-11 | _____<br>_____<br>_____   |                       |                       |