

**CONTRACT CHANGE ORDER MEMORANDUM**

TO: Tony Anziano, Program Manager /		FILE: E.A. 04 - 0120F4		
FROM: Darryl Schram, Senior TE		CO-RTE-PM SF-80-13.2/13.9		
FED. NO. No				
CCO#: 353	SUPPLEMENT#: 0	Category Code: CBPC	CONTINGENCY BALANCE (incl. this change) <b>\$13,454,548.86</b>	
COST: <b>\$893,912.00</b>		INCREASE <input checked="" type="checkbox"/>	DECREASE <input type="checkbox"/>	HEADQUARTERS APPROVAL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
SUPPLEMENTAL FUNDS PROVIDED: <b>\$0.00</b>		IS THIS REQUEST IN ACCORDANCE WITH ENVIRONMENTAL DOCUMENTS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
<b>CCO DESCRIPTION:</b> CIC Electrical Impacts - Bleyco		<b>PROJECT DESCRIPTION:</b> CONSTRUCT SELF-ANCHORED SUSPENSION BRIDGE		
Original Contract Time: <b>2490</b> Day(s)	Time Adj. This Change: <b>0</b> Day(s)	Previously Approved CCO Time Adjustments: <b>501</b> Day(s)	Percentage Time Adjusted: (including this change) <b>20</b> %	Total # of Unreconciled Deferred Time CCO(s): (including this change) <b>42</b>

**THIS CHANGE ORDER PROVIDES FOR:**

Providing compensation for electrical installation operations revised access and working hours due to changes in the character of work resulting after achieving Seismic Safety Opening (SSO) of the bridge.

Contract Change Order (CCO) 160 "East End Delay Impacts", Section 3 "Readiness for Seismic Safety Opening" established a Readiness for Seismic Safety Opening (SSO) date for opening the bridge to traffic of August 28, 2013. This section (Section 3) provides for and compensates the Contractor for the minimum amount of work required to be completed in order to achieve SSO while Section 4 "Post Readiness for Seismic Safety Opening Work" provides for the remaining work to be completed after SSO. The Contractor met the SSO requirement and traffic was placed on the SAS Structure on September 3, 2013 as planned.

In completing the remainder of the Contract work, Section 4 recognized that the Order of Work specified for in Section 3 would have an effect on the post SSO work as well as recognized the potential changes in the character of the work associated with amongst other things the changed condition of having to complete the work under live traffic conditions. While Section 4 identified this concern, the inefficiencies and additional costs associated with the completion of the work under the changed conditions were deferred to a separate change order.

To address the post SSO changes in character of the work, additional costs, and inefficiencies for the remaining work multiple CCO's will be established to provided compensation to the Prime Contractor and each of the affected Subcontractor's. The following CCO's have been identified:

- CCO 342 "Traffic Lane Closures" includes the revised traffic lane and shoulder closure specifications
- CCO 349 "Traffic Control/Construction Access" will address the additional costs associated with implementing traffic control and construction measures,
- CCO 351 "Insurance" will address the Prime Contractor's additional insurance costs associated with the completion of the work under the changed condition,
- CCO 352 "Certified Coatings" will address the additional costs in completing painting the following items of remaining work: tower above elevation 13m, behind barriers, inside and on the underside of the Orthotropic Box Girder (OBG), and the bikepath.
- CCO 353 "Bleyco" will address the additional costs in completing the electrical work,
- CCO 354 "FW Spencer" will address the additional costs in completing the piping work,
- CCO 355 "USA Hoist" will address the additional costs in completing the tower elevator installation,
- CCO 356 "ABF" will address the additional costs incurred by the Prime Contractor to support all the remaining work.
- CCO 365 "Dehumidification Systems" will address the additional costs to complete the dehumidification system.
- CCO 384 "Paint Repair Behind Barrier" will repair paint damaged behind the barrier rails.
- CCO 388 "Service Platform Paint Repair" will repair damaged paint on the service platforms.

This change order (CCO 353) will provide for post SSO impacts to electrical installation operations due to working at night, loss of elevator access to Tower elevations, and extended travel to and from interior OBG locations. Working at night will require premium labor time, lighting, daily mobilizations, and will result in inefficiencies. Since the temporary tower elevator has been dismantled, the electricians will need to climb the tower ladders to reach their work locations. Before the bridge was opened to traffic, workers could drive to access points for the interior of the bridge, however most of these access points have been closed and workers will now need to walk through the interior of the bridge to reach their work locations. Any Change in

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Character impacts to BASE work at E2, W2, and T1 or reinstallation of equipment on Service Platform 4 will be included in a separate change order.

The SAS risk register (1st Quarter 2014) includes a risk to address the change in character of work performed after the SSO. The risk ID No. EEndM3 "Compensation for POST SSO" is carrying a range of \$2.6M to \$13M (50% Prob = \$6.8M). Schedule impacts resulting from this are included in a separate risk. Risk ID No. 1 "Schedule: Potential delay during construction - Post Seismic Safety Opening (SSO)" carries a range of \$11M to \$17M (50% Prob = \$14M) to address all risks to the schedule including these changes in character.

The total cost of this change order is \$433,912.00 lump sum and \$460,000.00 force account for a total of \$893,912.00, which can be financed from the contingency fund. A detailed cost analysis is on file.

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

This change order has concurrence from William Casey (Supervising TE) and Rich Foley (HQ Oversight).

CONCURRED BY:			ESTIMATE OF COST				
Construction Engineer:	William Casey, Sup TE	Date 11/17/13		THIS REQUEST	TOTAL TO DATE		
Bridge Engineer:		Date	ITEMS	\$0.00	\$0.00		
Project Engineer:		Date	FORCE ACCOUNT	\$460,000.00	\$460,000.00		
Project Manager:		Date	AGREED PRICE	\$433,912.00	\$433,912.00		
FHWA Rep.:		Date	ADJUSTMENT	\$0.00	\$0.00		
Environmental:		Date	TOTAL	\$893,912.00	\$893,912.00		
Other (specify):	HQ, Rich Foley	Date 11/19/13	FEDERAL PARTICIPATION				
Other (specify):		Date	<input type="checkbox"/> PARTICIPATING <input type="checkbox"/> PARTICIPATING IN PART <input checked="" type="checkbox"/> NONE <input type="checkbox"/> NON-PARTICIPATING (MAINTENANCE) <input type="checkbox"/> NON-PARTICIPATING				
District Prior Approval By:	HQ, Sey Hossnieh	Date 3/5/14	FEDERAL SEGREGATION (if more than one Funding Source or P.I.P. type)				
HQ (Issue Approve) By:		Date	<input type="checkbox"/> CCO FUNDED PER CONTRACT <input type="checkbox"/> CCO FUNDED AS FOLLOWS				
Resident Engineer's Signature:		Date	FEDERAL FUNDING SOURCE	PERCENT			
							
			_____			_____	
			_____			_____	