

CONTRACT CHANGE ORDER MEMORANDUM

TO: Pete Siegenthaler, Prin. TE / Gary Pursell, P.E., Sup T.E.		FILE: E.A. 04 - 0120F4		
FROM: Gary Pursell, P.E., Sup.T.E.		CO-RTE-PM SF-80-13.2/13.9		
FED. NO.				
CCO#: 23	SUPPLEMENT#: 0	Category Code: CHPT	CONTINGENCY BALANCE (incl. this change) \$140,601,898.24	
COST: \$183,476.00	INCREASE <input checked="" type="checkbox"/> DECREASE <input 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		
CCO DESCRIPTION: Revise W2 Cross & E2 Cap Beams		PROJECT DESCRIPTION: CONSTRUCT SELF-ANCHORED SUSPENSION BRIDGE		
Original Contract Time: 2490 Day(s)	Time Adj. This Change: 0 Day(s)	Previously Approved CCO Time Adjustments: 30 Day(s)	Percentage Time Adjusted: (including this change) 1 %	Total # of Unreconciled Deferred Time CCO(s): (including this change) 0

THIS CHANGE ORDER PROVIDES FOR:

Modifying concrete details and embedded items (reinforcing steel, post-tensioning, drain pipes, etc.) at the W-2 Cap Beam & E-2 Cross Beam per revised and supplemental contract plan sheets.

Contract Change Order (CCO) plan sheets specifying the work at the W-2 Cap were issued to the Contractor, in contrasting colors to denote the rearrangement of thousands of reinforcing steel bars and to differentiate them from each other, the hundreds of horizontal (transverse & continuity) bars, and vertical post-tensioning tendon bars. Various components shall be individually named, alphanumerically, to further assist in differentiating the components.

The CCO work, at W-2, affects the weight of reinforcing steel to be placed. For example, non-contact lap splices are now permitted for certain bar types and configurations. Also, certain Post-Tension (P-T) bars and tendons have been slightly reduced in length. Various concrete forming details implemented primarily at the P-T block outs and at the jacking saddle frame location need to be modified. Drainage conduits at the tie down cable access chambers shall be rerouted to accommodate the modified bar and tendon.

This CCO also affects the weight of reinforcing steel to be placed at E-2. The additional shear keys (Addendum No. 5) atop this cross beam requires the addition of supporting rebar beneath them in what once had been void space by design. The net impact of the added shear keys also increases P-T tendon sizing. Allowance between existing main column (vertical) and hoop rebar will also be revised.

These changes had been prepared initially for incorporation into bid documents via Proposed Addendum No. 8. The Toll Bridge Project Oversight Committee directed on January 01, 2006, that Addendum No. 8 not be issued and that these changes be incorporated into the contract via change order. This CCO addresses the designer's Change Request Nos. 22 and 171.

W2 Cap Beam and cross beams, reinforcement and other embedments, were modeled in 3-D (AutoCAD) to generate Integrated Shop Drawing (ISD) models not required per the Special Provisions. These models have been analyzed with "clash-detection" software (NavisWorks) which identified interferences with the reinforcement / embed conflicts. These conflicts will be resolved by adjusting the location, sizing, number, etc. of the bar.

Executed Addendum No. 5 reduced the size and increased the number of shear keys. The intent was to allow smaller casting fabricators' to bid on the SAS contract, thereby promoting competition. Cross Beam supporting reinforced concrete design and related plan sheet details were not finalized in Addendum No. 5 and were to be inserted into Addendum No. 8. This CCO corrects conflicts that were intended to be addressed in Addendum No. 8.

This change modifies the plan sheets. There are no changes to the Special Provisions.

The Contractor will perform this work at Adjustment of Compensation at Lump Sum Price for the sum of \$183,476.00, which can be financed from the contingency fund. A detailed cost analysis is on file.

CONTRACT CHANGE ORDER MEMORANDUM

EA: 0120F4 CCO: 23 - 0

DATE: 12/21/2007 Page 2 of 2

No adjustment of contract time is warranted, as this change does not affect the controlling operation.

This change order has received concurrence from CT Oversight (Mike Whiteside and Reza Valizadeh), Structure Rep (Rick Morrow), Principal Bridge Engineer (Pete Siegenthaler), HQ Construction Coordinator (Rob Kobal), Resident Engineer (Gary Pursell), the Designer of Record (Marwan Nader) and Structure Maintenance (Bill Zanetich) for this change.

This change order also received an Issue and Approve from the Division of Construction on June 1, 2007 for \$453,297.66. Through further review with the Contractor, the final price was reduced to \$183,476.00. A copy is attached for your reference.

CONCURRED BY:		ESTIMATE OF COST																																	
Construction Engineer:	Res. Eng., Gary Pursell, Sup. TE	Date	2/22/07																																
Bridge Engineer:	Struct Rep, Rick Morrow, Sup TE	Date	2/15/07																																
Project Engineer:	CT Oversight, Reza Valizadeh, P.E	Date	3/14/07																																
Project Manager:	PCE, Pete Siegenthaler, Prin TE	Date	2/23/07																																
FHWA Rep.:		Date																																	
Environmental:	Design of Record, Marwan Nader,	Date	12/21/05																																
Other (specify):	HQ, Rob Kobal	Date	2/23/07																																
Other (specify):	CT Oversight, Michael Whiteside,	Date	12/21/05																																
District Prior Approval By:		Date																																	
HQ (Issue Approve) By:	HQ, Ken Darby	Date	6/1/07																																
Resident Engineer's Signature:	<i>Gary Pursell</i>	Date	12/21/07																																
		<table border="0"> <thead> <tr> <th colspan="2">ESTIMATE OF COST</th> <th>THIS REQUEST</th> <th>TOTAL TO DATE</th> </tr> </thead> <tbody> <tr> <td>ITEMS</td> <td></td> <td>\$0.00</td> <td>\$0.00</td> </tr> <tr> <td>FORCE ACCOUNT</td> <td></td> <td>\$0.00</td> <td>\$0.00</td> </tr> <tr> <td>AGREED PRICE</td> <td></td> <td>\$0.00</td> <td>\$0.00</td> </tr> <tr> <td>ADJUSTMENT</td> <td></td> <td>\$183,476.00</td> <td>\$183,476.00</td> </tr> <tr> <td>TOTAL</td> <td></td> <td>\$183,476.00</td> <td>\$183,476.00</td> </tr> </tbody> </table>		ESTIMATE OF COST		THIS REQUEST	TOTAL TO DATE	ITEMS		\$0.00	\$0.00	FORCE ACCOUNT		\$0.00	\$0.00	AGREED PRICE		\$0.00	\$0.00	ADJUSTMENT		\$183,476.00	\$183,476.00	TOTAL		\$183,476.00	\$183,476.00								
ESTIMATE OF COST		THIS REQUEST	TOTAL TO DATE																																
ITEMS		\$0.00	\$0.00																																
FORCE ACCOUNT		\$0.00	\$0.00																																
AGREED PRICE		\$0.00	\$0.00																																
ADJUSTMENT		\$183,476.00	\$183,476.00																																
TOTAL		\$183,476.00	\$183,476.00																																
		<table border="0"> <thead> <tr> <th colspan="4">FEDERAL PARTICIPATION</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td>PARTICIPATING</td> <td><input type="checkbox"/></td> <td>PARTICIPATING IN PART</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>NON-PARTICIPATING (MAINTENANCE)</td> <td><input type="checkbox"/></td> <td>NON-PARTICIPATING</td> </tr> <tr> <td colspan="4"> <input checked="" type="checkbox"/> FEDERAL SEGREGATION (if more than one Funding Source or P.I.P. type) </td> </tr> <tr> <td colspan="2"><input checked="" type="checkbox"/> CCO FUNDED PER CONTRACT</td> <td colspan="2"><input type="checkbox"/> CCO FUNDED AS FOLLOWS</td> </tr> <tr> <td colspan="2">FEDERAL FUNDING SOURCE</td> <td colspan="2">PERCENT</td> </tr> <tr> <td colspan="2">_____</td> <td colspan="2">_____</td> </tr> <tr> <td colspan="2">_____</td> <td colspan="2">_____</td> </tr> </tbody> </table>		FEDERAL PARTICIPATION				<input type="checkbox"/>	PARTICIPATING	<input type="checkbox"/>	PARTICIPATING IN PART	<input checked="" type="checkbox"/>	NON-PARTICIPATING (MAINTENANCE)	<input type="checkbox"/>	NON-PARTICIPATING	<input checked="" type="checkbox"/> FEDERAL SEGREGATION (if more than one Funding Source or P.I.P. type)				<input checked="" type="checkbox"/> CCO FUNDED PER CONTRACT		<input type="checkbox"/> CCO FUNDED AS FOLLOWS		FEDERAL FUNDING SOURCE		PERCENT		_____		_____		_____		_____	
FEDERAL PARTICIPATION																																			
<input type="checkbox"/>	PARTICIPATING	<input type="checkbox"/>	PARTICIPATING IN PART																																
<input checked="" type="checkbox"/>	NON-PARTICIPATING (MAINTENANCE)	<input type="checkbox"/>	NON-PARTICIPATING																																
<input checked="" type="checkbox"/> FEDERAL SEGREGATION (if more than one Funding Source or P.I.P. type)																																			
<input checked="" type="checkbox"/> CCO FUNDED PER CONTRACT		<input type="checkbox"/> CCO FUNDED AS FOLLOWS																																	
FEDERAL FUNDING SOURCE		PERCENT																																	
_____		_____																																	
_____		_____																																	