

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#: 361	SUPPLEMENT#: 0	Category Code: CFMX	CONTINGENCY BALANCE (incl. this change) \$22,887,718.42	
COST: \$70,000.00		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: Type 2 Suspender Cable Samples		PROJECT DESCRIPTION: CONSTRUCT SELF-ANCHORED SUSPENSION BRIDGE		
Original Contract Time: 2490 Day(s)	Time Adj. This Change: DEF Day(s)	Previously Approved CCO Time Adjustments: 501 Day(s)	Percentage Time Adjusted: (including this change) 20 %	Total # of Unreconciled Deferred Time CCO(s): (including this change) 33

THIS CHANGE ORDER PROVIDES FOR:

As directed by the Engineer, supply a written procedure detailing the fabrication of test samples and fabricate six prestretched Type 2 suspender rope samples.

The suspender cables were fabricated and installed per Special Provisions Section 10-1.60 "Cable System"; however during suspender painting operations it was discovered that four of the installed Type 2 suspender ropes had a total of five broken wires (1 rope with 2 broken wires at East Panel Point (PP) 36 and 3 ropes with 1 broken wire at West PP 38, East PP 40, and East PP 46). Metallurgical testing determined that the broken wires had sustained mechanical damage at or near the fractures. Prestretching of the cables at the fabricator's facility, as required by Special Provisions Section 10-1.60, is suspected to have caused the wire damage/impressions and fractures. Testing and investigation performed at the fabrication facility determined that the instrument used to grip the ropes during prestretching operations created deformations on the wires causing five individual wires to fracture. The prestretching procedure was approved in Submittal 1221 "Wire Rope Prestretching Procedures" and the use of grips is common practice in cable fabrication.

The fabricator, at their own expense, and at the direction of the engineer, performed ultimate tensile tests on cable samples and individual wires containing these contact points. All met or exceeded the performance criteria of the Contract.

This change order will fabricate suspender rope test samples and Contract Change Order 369 will perform fatigue testing on the samples to investigate the potential long-term effect on service life of Type 2 suspenders from broken wires or indentations of the suspender ropes. Special Provisions Section 10-1.60 does not require fatigue testing.

The Department estimates an additional cost of \$70,000.00 extra work at force account for this change, which can be financed from the contingency fund. A detailed cost analysis is on file.

Consideration of a time adjustment will be deferred until completion of the work specified herein. Determination of a commensurate time adjustment will be made in accordance with Section 10-1.13, "PROGRESS SCHEDULE (CRITICAL PATH METHOD)" and Section 10-1.14, "TIME-RELATED OVERHEAD" of the Special Provisions, as well as Section 8-1.07, "LIQUIDATED DAMAGES", of the Standard Specifications.

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

