

**CONTRACT CHANGE ORDER**

Change Requested by: Engineer

CCO: 42    Suppl. No. 1    Contract No. 04 – 0120F4    Road SF-80-13.2/13.9    FED. AID LOC.:

To: **AMERICAN BRIDGE/FLUOR ENTERPRISES INC A JOINT VENTURE**

You are directed to make the following changes from the plans and specifications or do the following described work not included in the plans and specifications for this contract.

**NOTE: This change order is not effective until approved by the Engineer.**

Description of work to be done, estimate of quantities and prices to be paid. (Segregate between additional work at contract price, agreed price and force account.) Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time. This last percentage shown is the net accumulated increase or decrease from the original quantity in the Engineer's Estimate.

**Adjustment of Compensation at Lump Sum Price:**

## ITEM 1.

Revise the Special Provisions Section 10-3.08 " SUPPORT HARDWARE FOR CONDUITS, CABLE TRAYS AND WIREWAYS STAINLESS STEEL POWER-STUD ANCHOR-THREADED VERSION", as shown on sheet 3 of this change order.

Incorporate into the work the Cable Tray Changes shown on sheets 4 through 109 of this change order.

The following revised contract plan sheets and added supplemental plan sheets detail all changes: 77R1, 80R1, 81R1, 84R1, 85R1, 86R1, 86S1, 86S2, 86S3, 86S4, 86S5, 86S6, 86S7, 86S8, 86S9, 86S10, 86S11, 86S12, 86S13, 86S14, 86S15, 86S16, 93R2, 103R1, 103S1, 103S2, 103S3, 103S4, 103S5, 103S6, 104R1, 104S1, 104S2, 104S3, 104S4, 104S5, 104S6, 106R1, 140R1, 149R2, 154R2, 155R1, 174R1, 174S1, 175R1, 176R1, 176S1, 176S2, 176S3, 177R1, 178R1, 178S1, 178S2, 178S3, 179R1, 180R1, 181R1, 181S1, 183R1, 184R1, 187R1, 215R2, 216R1, 220R1, 221R1, 230R1, 230S1, 231R1, 232R1, 232S1, 232S2, 232S3, 232S4, 233R2, 234R1, 235R1, 235S1, 235S2, 235S3, 236R1, 237R1, 237S1, 239R1, 240R1, 243R1, 271R2, 357S1, 357S2, 357S3, 357S4, 361R3, 362R2, 363R2, 363S1, 364R2, 373R2, 374R2, 375R2, 376R2, 376S1, 407R2, 452R1, 452S1, 631S1, 706R1 and 964R1 (of 1204).

This change order resolves the costs associated with Contractor Request For Information (RFI) Nos. 375, 460R0, 460R1, 584R0, 584R1, 675, 790R0, 790R1, 793, 811R0, 811R1, 814, 845, 857R0, 857R1, 861, 919R0, 919R1, 1338R0, 1338R1, and 1439 with respect to changes listed above.

Adjustment of Compensation at Lump Sum ..... \$250,000.00

## ITEM 2.

The items identified above in this change order have been paid as part of CCO 108S1 resolution. Therefore, the amount due under this change order will be adjusted by the amount paid under CCO 108S1 to prevent a double payment. Total amount paid under CCO 108S1, and to be credited to this change, is \$250,000.00.

Adjustment of Compensation at Lump Sum ..... <\$250,000.00>

**CHANGE ORDER COST AND TIME SUMMARY**

(ITEM 1) Adjustment of Compensation for work pursuant to this change order	\$250,000.00
(ITEM 2) Amount paid under CCO 108S1 for this change order	<\$250,000.00>
Total net pay for this change order	\$0.00

Contract time is not addressed in CCO 108S1 for work identified in this change order. Therefore, consideration of a time adjustment will be deferred. 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.

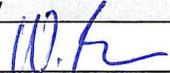
**CONTRACT CHANGE ORDER**

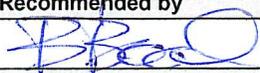
Change Requested by: Engineer

CCO: 42    Suppl. No. 1    Contract No. 04 - 0120F4    Road SF-80-13.2/13.9    FED. AID LOC.:

Estimated Cost:    Increase     Decrease     \$0

By reason of this order the time of completion will be adjusted as follows:    Deferred

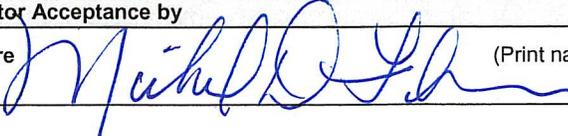
Submitted by			
Signature		Resident Engineer	Date 7-15-10
		William Shedd, Senior T.E.	

Approval Recommended by			
Signature		Supervising Bridge Engineer	Date 7/15/10
		Brian Boal, Sup. T.E.	

Engineer Approval by			
Signature		<del>Principal</del> Transportation Engineer	Date 8/9/10
		Gary Pursell, Sup. T.E.	

We the undersigned contractor, have given careful consideration to the change proposed and agree, if this proposal is approved, that we will provide all equipment, furnish the materials, except as otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above.

**NOTE: If you, the contractor, do not sign acceptance of this order, your attention is directed to the requirements of the specifications as to proceeding with the ordered work and filing a written protest within the time therein specified.**

Contractor Acceptance by			
Signature		(Print name and title)	Date 8-5-10
		Michael D. Flowers	
		Project Director	

CONTRACT CHANGE ORDER NO. 42 SUPPL. NO. 1  
ROAD 04-SF-80-13.2, 13.9 SHEET 3 OF 109 SHEETS  
FEDERAL NO.(S) \_\_\_\_\_ CONTRACT NO.: 04-0120F4

**Special Provisions changes:**

1. In the Special Provisions, Section 10-3.08 " SUPPORT HARDWARE FOR CONDUITS, CABLE TRAYS AND WIREWAYS STAINLESS STEEL POWER-STUD ANCHOR-THREADED VERSION", Subsection "CABLE TRAY LADDER TYPE" is revised as follows:

**CABLE TRAY LADDER TYPE**

Cable tray systems are defined to include, but are not limited to straight sections of ladder type cable trays, bends, tees, elbows, dropouts, supports and accessories or as shown on plans.

2. In the Special Provisions, Section 10-3.08 " SUPPORT HARDWARE FOR CONDUITS, CABLE TRAYS AND WIREWAYS STAINLESS STEEL POWER-STUD ANCHOR-THREADED VERSION", Subsection "CABLE TRAY LADDER TYPE", Subsection "Cable Tray Sections and Components" is revised as follows:

**Cable Tray Sections and Components**

Straight section and fitting side rails and rungs shall be made of ASTM Designation: A 570 and A 611 steel. The cable tray system shall be hot-dip galvanized after fabrication in conformance with the requirements in ASTM Designation: A 123. The cable tray side rails shall be stamped with the manufacturer's name, part number and material type. Transverse members (rungs) or corrugated bottoms shall be welded to the side rails with steel welding wire.

Ladder type trays shall consist of two longitudinal members (side rails) with transverse members (rungs) welded to the side rails. Rungs shall be spaced 229 mm on center. Rung spacing in fittings shall be 229 mm and measured at the center of the tray's width. Rungs shall have a minimum cable-bearing surface radius edge of 25 mm. Each rung must be capable of supporting 91 kg concentrated load above the cable load at the center of the cable tray with a safety factor of 1.5. Tray sizes shall have 127-mm minimum usable load depth or as noted on the plans.

Straight tray sections shall have side rails fabricated as ~~I-beams~~ C-Channels or as authorized by the Engineer. Tray widths shall be as shown on plans. Tray fittings shall include all reducers, and vertical and horizontal bends. All fittings must have a minimum radius of 610 mm. Splice plates shall be the bolted type made as indicated below for each tray type. The resistance of fixed splice connections between an adjacent section of tray shall not exceed 330  $\mu\Omega$ . Splice plate construction shall be such that a splice may be located anywhere within the support span without diminishing rated loading capacity of the cable tray. (The splice plate shall be able to support the full load of the tray). Splice plates shall be manufactured of high strength steel. All hardware shall be stainless steel. Cable tray shall be supported at intervals of not more than 4.74 m. All conduit terminating at trays shall provide a continuous cable route by using bushings specifically suited for attaching conduit to the tray rail and for providing ground continuity.

Cable trays shall meet NEMA Class Designations 16B. The cable trays shall be manufactured by B-Line Systems, Chalfant, or other approved manufacturer.

