

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

MEMORANDUM

TO: Members of the Board
Central Florida Expressway Authority
4974 ORL Tower Road
Orlando, Florida 32807

FROM: Ben Dreiling, P.E.
Director of Construction and Maintenance

DATE: October 28, 2014

RE: Consent Agenda Item
Construction Contract Modifications

Authorization is requested to execute the following Construction Contract Modifications. Supporting detailed information for each proposed Construction Contract Modification is attached.

Contract No.	Name	Contract Description	Original Contract Amount (\$)	Previous Authorized Adjustments (\$)	Requested (\$) November 2014	Total Amount (\$) to Date*	Time Increase or Decrease
417-304	Southland Construction, Inc.	SR 417 / Turnpike Interchange	30,876,393.69	437,176.82	21,012.76	31,334,583.27	0
417-110	Masci General Contractor, Inc.	SR 417 Widening from Curry Ford to Lake Underhill	10,109,586.09	106,842.21	36,406.85	10,252,835.15	0
TOTAL					\$57,419.61		

* Includes Requested Amount for current month.

BD/ek

cc: Joe Berenis, P.E.

The following is a proposed Construction Contract Modification along with the detailed information:

Contract 417-304: SR 417/Turnpike Interchange
Southland Construction, Inc.
SA 417-304-1114-04

Sign Luminaires, Remote Ballast Drivers

This change is as requested by the Authority. The Authority has adapted a new standard for sign lighting that requires the use of LED Sign Lighters with Remote Ballasts. This change is to adapt the standard established by the Authority on Project 429-621 which served as a template for this change. The 715 series Pay Items added by this document relate to adding work as described: Luminaires on Existing Structures, Luminaires on New Structures and Remote Ballast Driver Boxes. The Remote Ballast Sign Lighters Misc. Pay Item provides credit for LED Sign Lighters and disconnects that were incidental to new structures OC-4, OC-5, OC-6 and OT-1; less Prime Contractor markup on Subcontracted work.

ADD THE FOLLOWING ITEMS:

Luminaire (F&I) (Bracket Arm Relocate) (Exist Structure)	\$22,030.12
LED Driver Box (For Remote Ballast) (F&I)	\$40,095.90
Luminaires (F&I) (Sign) (Sign Mounted) (New Structure)	\$19,359.20
Remote Ballast Sign Lighters Misc.	<u>(\$ 4,214.55)</u>
	\$77,270.67

DECREASE THE FOLLOWING ITEM:

Luminaires (F&I) (Sign) (Sign Mounted)	(\$25,204.68)
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Subtotal: Sign Luminaires, Remote Ballast Drivers \$52,065.99

DDM 03, Bridge 750683 FIB 63 Girder B32 Serial JK3 Beam Crack

This change is as requested by the Authority. During fabrication a crack in the top flange of a FIB 63 was discovered. The beam related to Bridge 750638, Ramp B1 over Town Center, Beam B32, and Serial Number JK3. A DDM was processed wherein the fabricators specialty engineer analyzed the crack and presented a repair procedure. The analyses was reviewed by the EOR, Florida's Turnpike and Authority. The analysis was recommended for acceptance by each. Given the anticipated performance of the beam is realized without long term durability loss, only recuperation of review costs is warranted. The pay reduction relates to the costs of the Engineer of Record's review costs to the Authority.

ADD THE FOLLOWING ITEM:

Pre-Stressed Beams: FIB 63 – DDM 03 Pay Reduction	(\$ 1,669.75)
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Adjusted Quantities for Pay Items of Work to Date

This is as requested by the Authority. This adjusts pay items contract quantities to reflect the actual authorized quantities to date under the Contract.

DECREASE THE FOLLOWING ITEMS:

Test Piles, Pre-Stressed Concrete (18" SQ)	(\$ 6,299.20)
Piles, Polyethelene Sheeting	(\$ 1,182.41)
Bedding Stone	(\$21,127.39)
Temp. FO 6" BSP w/ 9 – 1" HDPE/SDR II (Direct Bore)	<u>(\$ 774.48)</u>
	(\$29,383.48)

TOTAL AMOUNT FOR PROJECT 417-304

\$ 21,012.76

Contract 417-110: SR 417 Widening from Curry Ford to Lake Underhill
Masci General Contractor, Inc.
SA 417-110-1114-002

Upgrade Sign Lights to LED Luminaires with Remote Ballast Boxes

This change is requested by the Authority. The Authority desires to upgrade the sign lighting on this project to be consistent with recent upgrades to the Authority's standards for sign lighting. The bid plans include LED sign lights that contain a ballast with each luminaire. When a ballast needs to be replaced, it is inconvenient because the work must take place over traffic which requires lane closures. The Authority's new standard is for all the ballasts for one sign to be contained in a remote driver box which is located on the sign upright and not over traffic. This provides a more convenient and safer location from which to service the ballasts.

ADD THE FOLLOWING ITEMS:

LED Remote Ballast Box	\$19,602.44
LED Remote Ballast Luminaire	\$4,563.24
LED Remote Ballast Luminaire w/ Adjustable Arm	<u>\$15,578.46</u>
	\$39,744.14

DELETE THE FOLLOWING ITEM:

Luminaire Sign Mount	(\$21,120.00)
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Subtotal: Upgrade Sign Lights to LED Luminaires with Remote Ballast Boxes \$ 18,624.14

Emergency Roadway Repair for Base Failure on 8/2/14

This change is requested by the Authority. Emergency roadway repairs were necessary due to base failures caused by high moisture content in the existing base and subgrade materials in the outside shoulder on northbound SR 417 from STA 377+75 to 380+29 which is carrying traffic in a temporary configuration in accordance with the traffic control plans. The scope of work under this contract includes only milling and resurfacing in the existing lanes and overbuild on the existing shoulder. Due to high moisture content in the existing base and subgrade, the existing base failed causing subsequent pavement failure in the new pavement following the milling and resurfacing operations in this area. Emergency repairs were made as directed by the CEI in a manner attempting to minimize the overall impact to Expressway customers. Permanent repairs included fully removing the base material and a portion of the compromised subgrade material and replacing with aggregate base and asphalt.

ADD THE FOLLOWING ITEM:

Emergency Roadway Repair for Base Failure on 8/2/14	\$17,782.71
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TOTAL AMOUNT FOR PROJECT 417-110

\$36,406.85