


CENTRAL FLORIDA EXPRESSWAY AUTHORITY

MEMORANDUM

TO: Members of the Board

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

DATE: February 22, 2016

RE: Consent Agenda
Construction Contract Modifications

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

Contract No.	Name	Contract Description	Original Contract Amount (\$)	Previous Authorized Adjustments (\$)	Requested (\$) March 2016	Total Amount (\$) to Date*	Time Increase or Decrease
429-202	Prince Contracting, LLC	SR 429, US 441 to North of Ponkan Rd.	\$56,152,429.00	\$0.00	\$12,078.42	\$56,164,507.42	0
528-405	Southland Construction, Inc.	SR 528 Airport Toll Plaza Demolition & Ramp Plaza Construction	\$38,708,813.52	\$295,440.35	(\$133,616.25)	\$38,870,637.62	+71
417-301C	SEMA Construction	SR 417/Boggy Creek Rd. Interchange Improvements Phase III	\$70,900,000.00	\$1,653,727.59	(\$29,385.74)	\$72,524,341.85	+11
599-738	Air Mechanical & Service Corp.	HQ Building Computer Room HVAC & UPS Upgrades	\$455,836.00	\$0.00	\$23,630.51	\$479,466.51	0
TOTAL					(\$127,293.06)		

* Includes Requested Amount for current month.

BD/ep

cc: Laura Kelley
Joe Berenis

Contract 429-202: SR 429, US 441 to North of Ponkan Rd.
Prince Contracting, LLC
SA 429-202-0316-01

Limerock Base Plan Quantity Adjustments

This change is requested by the Central Florida Expressway Authority (CFX). A review of the plan quantities associated with the Base Group Pay Items of work was conducted and concluded that plan quantity adjustments were required consistent with the provisions of Article 7.3.2.

INCREASE THE FOLLOWING ITEMS:

Base Group 6 (8" Limerock LBR 100)	\$	1,656.00
Base Group 11 (12" Limerock LBR 100)	\$	5,520.00
	\$	7,176.00

DECREASE THE FOLLOWING ITEMS:

Base Group 5 (7" Limerock LBR 100)	\$	(15,290.00)
Base Group 9 (10" Limerock LBR 100)	\$	(5,340.00)
	\$	(20,630.00)

Sub-Total: Limerock Base Plan Quantity Adjustments \$ (13,454.00)

Desilt Existing Pipe

This change is requested by CFX. The plans and SP-25 stipulates to desilt existing pipes to remain. The Contract mistakenly omitted a pay item to compensate the desilting work, consistent with the provisions of Article 430-10 and 430-12.5. The pay item is added to compensate for desilting existing drainage.

ADD THE FOLLOWING ITEM:

Desilt Existing Pipe	\$	12,811.76
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Retaining Wall System (Permanent) Plan Quantity Adjustment

This is requested by CFX. A review of the plan quantities associated with the Retaining Wall System (Permanent) work was conducted and concluded that plan quantity adjustments were required consistent with the provisions of Article 7.3.2.

DECREASE THE FOLLOWING ITEM:

Retaining Wall System (Permanent)	\$	(34,550.00)
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Trench Drain Connections to Drainage Structures (RK&K RFI 019)

This change is requested by CFX. During review of RK&K RFI 019 seeking clarification of connecting the trench drain to drainage structures, the Engineer provided adjustments to the trench drain configuration at Yothers which then accommodated an adjusted connection detail to the drainage structures.

INCREASE THE FOLLOWING ITEMS:

Pipe, PVC SCH40 (Not Encased)	\$ 2,156.00
Trench Drain, Standard	\$ 10,592.00
	<u>\$ 12,748.00</u>

Fencing Material (RK&K RFI 012)

This change is requested by CFX. The Project required all fencing to be Black Vinyl but should only include Black Vinyl Type B Fencing at the R/W line from Connector Rd. north to the south side of Southfork Dr. Additionally, in order to keep consistency along Southfork Dr., the east-west section of fence along the north side of Southfork Dr. should also be Black Vinyl. All other 6' Type B fencing should be galvanized. All gates within the Black Vinyl Fencing limits should be Black Vinyl. This change does not affect the 4' Type B Fencing. It remains Black Vinyl.

DECREASE THE FOLLOWING ITEMS:

Fencing (Type B) (6') (Black Vinyl)	\$ (296,458.50)
Fencing (Type B BV) (Double)	\$ (18,700.00)
Fencing (Type B BV) (Double)	<u>\$ (1,700.00)</u>
	\$ (316,858.50)

ADD THE FOLLOWING ITEMS:

Fencing (Type B) (5.1'-6.0') (Standard)	\$ 270,288.87
Fencing Gate (Type B) (Slide/Cant.) (18.1'-20') (Std. Galv.)	\$ 17,765.00
Fencing Gate (Type B) (Slide/Cant.) (24.1'-30') (Std. Galv.)	<u>\$ 1,485.00</u>
	\$ 289,538.87

Sub-Total: Fencing Material (RK&K RFI -12)	\$ (27,319.63)
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Connections of Existing to Utilities (RFI 030)

This change is requested by CFX. The plans depicted connection to existing mains that required extended shut down of the utility. Disruptions to existing utilities are reduced by the following adjustments: Add wet taps and line stops to connections of existing force main at Yothers and additional fittings and joint restraints to connections at existing water main and force main at Yothers. Duration of water main and reclaimed water main shutdown are reduced and the force main remains active throughout the duration; furthermore, the adjustments accommodated the traffic control depicted in the plans.

INCREASE THE FOLLOWING ITEMS:

Utility Fixtures (F&I) (8.0-19.9") (Valve Assembly)	\$ 2,209.90
Utility Fixtures (F&I) (8.0-19.9") (Line Stop Assembly)	\$ 31,000.00
Utility Fixtures (F&I) (8.0-19.9") (Valve Assembly)	<u>\$ 4,000.00</u>
	\$ 37,209.90

ADD THE FOLLOWING ITEMS:

Utility Fixtures (F&I) (8.0-19.9") (Tapping Saddle/Sleeve)	\$ 17,818.78
Utility Fixtures (F&I) (DI/CI) (Tee) (8.0-19.9")	\$ 2,849.40
Joint Restraints	\$ 1,056.96
	\$ 21,725.14

Sub-Total: Connections of Existing to Utilities (RFI 030)	\$ 58,935.04
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Wall and Ditch Evaluations (RFI 026)

This change is requested by CFX. RFI 026 was submitted seeking clarification to wall and ditch evaluations. As part of the response, the EOR provided clarifications and adjustments to the plans as follows: Median ditch grade was adjusted at Station 95+40.1 and from Station 102+00 to 105+00; Added DBI S-29A, and changed existing DBI S-29 to an MH.

INCREASE THE FOLLOWING ITEMS:

Embankment	\$ 47.25
Manhole (Type P-8) (<10')	\$ 2,400.00
	\$ 2,447.25

DECREASE THE FOLLOWING ITEM:

Pipe Culvert (Rnd) (18" Storm and Cross Drain)	\$ (140.00)
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ADD THE FOLLOWING ITEM:

RFI 026 Wall and Ditch Elev. - Mods to S-29	\$ 600.00
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Sub-Total: Wall and Ditch Evaluations (RFI 026)	\$ 2,907.25
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<u>TOTAL AMOUNT FOR PROJECT 429-202</u>	<u>\$ 12,078.42</u>
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Contract 528-405: SR 528 Airport Mainline Toll Plaza Demolition & Ramp Plaza Construction
Southland Construction, Inc.
SA 528-405-0316-03

Pond A Excavation

This change is a result of unforeseen unsuitable material encountered during planned excavation of Pond A. The Contractor is entitled to additional compensation for the excavation of the unsuitable material and for importing fill material. A total of 21 days is being added to the contract for this issue.

ADD THE FOLLOWING ITEM:

Pond A Excavation	\$	361,058.29
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DEDUCT THE FOLLOWING ITEM:

Regular Excavation	\$	(74,652.32)
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Increase Contract Time 21 Non-Compensable Calendar Days

Sub-Total: Pond A Excavation	\$	286,405.97
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Changeable Message Sign Revision Credit

At the request of the Central Florida Expressway Authority (CFX), the Contractor is furnishing and installing four static signs at the toll plazas in lieu of the planned changeable message signs. The Contractor is also providing a credit to CFX to account for the change.

ADD THE FOLLOWING ITEM:

CMS Sign Revision Credit	\$	(69,951.79)
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OUC Work Credit Due to Future Revision

CFX has elected to have the Engineer of Record revise planned work in the Frontage Rd. area. As a result of this planned revision, the items to be installed under the JPA Utility with OUC will not be required. This provides for a credit to the contract.

DELETE THE FOLLOWING ITEMS:

Mobilization (OUC)	\$	(4,018.73)
Utility Pipe 20" (OUC)	\$	(96,558.13)
Utility Fitting 20" (OUC)	\$	(5,742.07)
Utility Fixtures, Tapping Sleeve Complete (OUC)	\$	(17,427.32)
Utility Fixtures 20" Line Stop Assembly (OUC)	\$	(16,313.20)
Jumper Connection (OUC)	\$	(4,952.62)
Utility Fixtures 20" Valve Assembly	\$	(4,200.93)
Density Test (OUC)	\$	(1,491.92)
	\$	(150,704.92)

Lowering Elevation Pad and MSE Wall Sections Wall W-4

During the survey layout process for the leveling pad of MSE wall W-4 it became apparent that the leveling pad was approximately 1 foot above the existing sidewalk at Via Flora. This change in elevation of the leveling pad resulted in 8 special manufactured panels to not be able to be utilized as planned. Additionally, this change required the provision of 16 new panels and 2 corner columns.

ADD THE FOLLOWING ITEM:

Lowering Elevation Pad and MSE Wall Sections Wall W-4	\$	34,774.58
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INCREASE THE FOLLOWING ITEM:

Retaining Wall System (Permanent)	\$	7,317.24
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Sub-Total: Lowering Elevation Pad and MSE Wall Sections Wall W-4	\$	42,091.82
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Remove & Replace Electrical CT Cabinets for CFX Ramp Plazas

Based on changes in the Duke Energy and OUC Electric Metering Manuals, the installed CT Cabinets were not able to be utilized. The Contractor removed and replaced as required.

ADD THE FOLLOWING ITEM:

CT Cabinet Remove/Replace	\$	10,012.77
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Fuel Price Index Adjustments

The contract contains provisions for Fuel Price Index adjustments. In accordance with the contract specifications, the Engineer has calculated adjustments for the period of November 2014 - October 2015. Adjustments were made only if the current month fuel price is greater or less than 5% of Bid/Base Fuel Price. During this period of time \$26,089,784.41 of construction was performed/produced.

ADD THE FOLLOWING ITEMS:

03/14 Gas Base Price=2.7729; Diesel Base Price=3.3311

Nov. 2014 Fuel Adj. (Gas Price=2.1706; Diesel Price=2.6474)	\$	(41.78)
Dec. 2014 Fuel Adj. (Gas Price=1.9837; Diesel Price=2.4271)	\$	(9,046.89)
Jan. 2015 Fuel Adj. (Gas Price=1.5127; Diesel Price=1.9318)	\$	(19,188.14)
Feb. 2015 Fuel Adj. (Gas Price=1.5585; Diesel Price=1.9332)	\$	(14,422.87)
Mar. 2015 Fuel Adj. (Gas Price=1.8263; Diesel Price=2.1668)	\$	(14,867.37)
Apr. 2015 Fuel Adj. (Gas Price=1.7175; Diesel Price=1.9965)	\$	(27,956.66)
May 2015 Fuel Adj. (Gas Price=1.9765; Diesel Price=2.1583)	\$	(40,765.92)
Jun. 2015 Fuel Adj. (Gas Price=2.0510; Diesel Price=2.0772)	\$	(37,741.64)
Jul. 2015 Fuel Adj. (Gas Price=2.0297; Diesel Price=1.9660)	\$	(27,694.17)
Aug. 2015 Fuel Adj. (Gas Price=1.7920; Diesel Price=1.6478)	\$	(28,642.15)
Sep. 2015 Fuel Adj. (Gas Price=1.5303; Diesel Price=1.6297)	\$	(40,889.86)
Oct. 2015 Fuel Adj. (Gas Price=1.5420; Diesel Price=1.5847)	\$	(36,089.77)
	\$	(297,347.22)

Contract Time for Work Orders

There are nine previously executed work orders that are associated with work impacting the critical path of the project. The Contractor is entitled to 16 work days which translates to a total of 22 contract days.

Increase Contract Time 22 Non-Compensable Calendar Days

Contract Time for Delays Caused By Continuous Testing for Tolling

Continuous testing procedures performed for verification of tolling operations extended beyond the contract duration of 14 calendar days and subsequently the Contractor's schedule to proceed with planned traffic switches and demolition of the plaza. As a result, 28 days of delay occurred to which 8 days are compensable per GS 2.3.2.1 (d)(2).

Increase Contract Time 20 Non-Compensable Calendar Days

Increase Contract Time 8 Compensable Calendar Days

\$ 45,877.12

TOTAL AMOUNT FOR PROJECT 528-405

\$ (133,616.25)

Contract 417-301C: SR 417/Boggy Creek Rd. Interchange Improvements Phase III
SEMA Construction
SA 417-301C-0316-06

Remove and Replace Existing Concrete Ditch Pavement at Ramp J

The plans did not require work in the area of ditch pavement along Ramp J SR 417. The existing ditch pavement was cracked and deteriorated and required removal and replacement.

INCREASE THE FOLLOWING ITEM:

Concrete Ditch Pavement (Reinforced) (4")	\$	24,948.00
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ADD THE FOLLOWING ITEM:

Remove Existing Concrete Ditch Pavement	\$	5,345.83
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Sub-Total: Remove and Replace Existing Concrete Ditch Pavement at Ramp J	\$	30,293.83
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Ramp D-1 Plaza Fiber Optic Network (FON) Hardware

Additional equipment was required to make the FON operational.

INCREASE THE FOLLOWING ITEM:

Fiber Optic Fusion Splice	\$	2,880.00
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ADD THE FOLLOWING ITEMS:

Fiber Optic Patch Panel (72 Port) (F&I)	\$	10,440.78
Communication Rack (F&I)	\$	16,223.22
	\$	26,664.00

Sub-Total: Ramp D-1 Plaza Fiber Optic Network (FON) Hardware	\$	29,544.00
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Fuel Adjustments

Fuel adjustments are required in accordance with Article 7.2.1.1 of the General Specifications. Adjustments were made only if the current month fuel price is greater or less than 5% of Bid/Base Fuel Price. During this period of time \$3,348,272.93 of construction was performed/produced.

ADD THE FOLLOWING ITEMS:

<i>09/13 Gas Base Price=2.8715; Diesel Base Price=3.2633</i>		
Sep. 2015 Fuel Adj. (Gas Price=1.5303; Diesel Price=1.6297)	\$	(38,452.67)
Oct. 2015 Fuel Adj. (Gas Price=1.5420; Diesel Price=1.5847)	\$	(50,770.90)
	\$	(89,223.57)

Contract Time

The required removal and replacement of existing ditch pavement that was cracked and deteriorated was not in the original scope and, due to the timing of the request, a non-compensable time extension of 11 calendar days is recommended.

Increase Contract Time **11** Non-Compensable Calendar Days

<u>TOTAL AMOUNT FOR PROJECT 417-301C</u>	\$	<u>(29,385.74)</u>
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Contract 599-738: HQ Building Computer Room HVAC & UPS Upgrades
Air Mechanical & Service Corp.
SA 599-738-0316-01

Add Pay Items to Contract

The Central Florida Expressway Authority (CFX) wishes to add the following pay items to accommodate additional work and change in the contract. This will add the new items to reflect the changes made to the contract.

ADD THE FOLLOWING ITEMS:

Automatic UPS Transfer Switch (F&I)	\$ 5,785.45
Additional Bus Raceways (F&I)	\$ 10,182.46
Existing Fire Suppression Modification	\$ 7,662.60
	<u>\$ 23,630.51</u>

<u>TOTAL AMOUNT FOR PROJECT 599-738</u>	<u>\$ 23,630.51</u>
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