

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

MEMORANDUM

TO: CFX Board Members

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

DATE: January 19, 2017

SUBJECT: Consent Agenda
Construction Contract Modifications



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

Project No.	Contractor	Contract Description	Original Contract Amount (\$)	Previous Authorized Adjustments (\$)	Requested (\$) February 2017	Total Amount (\$) to Date*	Time Increase or Decrease
429-203	Superior Construction Co. SE, LLC	SR 429, North of Ponkan Rd. to North of Kelly Park Rd.	\$ 46,617,017.39	\$ (23,720.25)	\$ (867,177.58)	\$ 45,726,119.56	0
429-204	Southland Construction, Inc.	SR 429 Systems Interchange	\$ 79,625,302.60	\$ 1,669,387.41	\$ 261,562.16	\$ 81,556,252.17	0
429-206	GLF Construction Company	SR 453 Lake County Line to SR 46	\$ 49,482,671.93	\$ (251,575.38)	\$ 375,000.00	\$ 49,606,096.55	0
599-913	S. A. Casey Construction Co., Inc.	HQ Building 2nd Floor Renovation	\$ 547,299.00	\$ 69,683.37	\$ 113.30	\$ 617,095.67	0
417-304	Southland Construction, Inc.	SR 417/Turnpike Interchange	\$ 30,876,393.69	\$ (378,160.93)	\$ (32,730.33)	\$ 30,465,502.43	0
253F	Lane Construction Corp.	SR 408/SR 417 Interchange Improvements Phase I	\$ 36,744,623.00	\$ (558,326.33)	\$ 150,213.00	\$ 36,336,509.67	5
TOTAL					\$ (113,019.45)		

* Includes Requested Amount for this current month.

Reviewed By: _____
Joseph A. Berenis, P.E., Chief of Infrastructure

**Contract 429-203: SR 429, North of Ponkan Rd. to North of Kelly Park Rd.
 Superior Construction Co. SE, LLC
 SA 429-203-0217-02**

Retaining Wall System Plan Quantity Adjustment

A review of the contract plan quantity for the retaining wall system was conducted and it was determined that plan quantity was in error and required adjustment/correction. The additional quantity will be constructed at the established contract unit price.

INCREASE THE FOLLOWING ITEM:

Retaining Wall System - (Permanent) Excluding Sleeper	\$ 277,719.30
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Fuel Price Index Adjustment

The contract contains provisions for fuel price index adjustments. In accordance with the contract Specifications, the Engineer has calculated adjustments for the period of August 2015 - July 2016. 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 \$31,119,913.48 of construction was performed/produced.

ADD THE FOLLOWING ITEMS:

5/15 Gas Price = 1.9765; Diesel Base Price = 2.1583

Fuel Price Adjustment August 2015 (Gas Price= 1.792 /Diesel Price= 1.6478)	\$ (34.11)
Fuel Price Adjustment September 2015 (Gas Price= 1.5303 /Diesel Price= 1.6297)	\$ (1,460.60)
Fuel Price Adjustment October 2015 (Gas Price= 1.5420 /Diesel Price= 1.5847)	\$ (16,644.33)
Fuel Price Adjustment November 2015 (Gas Price= 1.4882 /Diesel Price= 1.5633)	\$ (50,242.54)
Fuel Price Adjustment December 2015 (Gas Price= 1.3555 /Diesel Price= 1.3852)	\$ (115,791.61)
Fuel Price Adjustment January 2016 (Gas Price= 1.3468 /Diesel Price= 1.2602)	\$ (228,382.17)
Fuel Price Adjustment February 2016 (Gas Price= 1.1907 /Diesel Price= 1.1750)	\$ (226,453.95)
Fuel Price Adjustment March 2016 (Gas Price= 1.1740 /Diesel Price= 1.1800)	\$ (66,722.06)
Fuel Price Adjustment April 2016 (Gas Price= 1.3762 /Diesel Price= 1.2755)	\$ (164,142.79)
Fuel Price Adjustment May 2016 (Gas Price= 1.5752 /Diesel Price= 1.4627)	\$ (109,134.24)
Fuel Price Adjustment June 2016 (Gas Price= 1.6565 /Diesel Price= 1.6045)	\$ (102,172.37)
Fuel Price Adjustment July 2016 (Gas Price= 1.5193 /Diesel Price= 1.5938)	\$ (63,716.11)
	\$ (1,144,896.88)

TOTAL AMOUNT FOR PROJECT 429-203

\$ (867,177.58)

Contract 429-204: SR 429 Systems Interchange
Southland Construction, Inc.
SA 429-204-0217-03

Upgrade to LED Roadway Lighting Fixtures

CFX desires to upgrade the type of roadway lighting luminaires specified on this contract from high pressure sodium to LED luminaires. CFX is making LED luminaires the standard on all new projects and desires to incorporate this upgrade as part of the current construction contract. This item represents the cost difference for the materials to implement this change. While LEDs are more expensive up front, the savings in electrical consumption and service life/maintenance has been determined to conservatively provide a break even return in seven (7) years.

DECREASE THE FOLLOWING ITEMS:

GE 250W HPS Light Fixture	\$ (45,902.94)
GE 400W HPS Light Fixture	\$ (69,102.24)
	<u>\$ (115,005.18)</u>

ADD THE FOLLOWING ITEM:

Phillips Lumec LED Light Fixture	\$ 222,962.82
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Sub-Total: Upgrade to LED Fixtures	\$ 107,957.64
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Well Abandonment (4" Diameter)

The contract plans identified thirteen (13) existing wells on the project site that required grout seal and abandonment. Since the contract was executed, twelve (12) additional wells have been found also requiring grout seal and abandonment. This item provides compensation for ten (10) of the additional 12 which are 4" diameter residential wells.

ADD THE FOLLOWING ITEM:

Grout Seal & Abandoned 4" Wells	\$ 20,097.00
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Well Abandonment (6" and 10" Diameter)

Two (2) of the twelve (12) wells not identified in the contract documents were larger in diameter. The work to grout seal and abandon was negotiated separately. After an initial amount was authorized by CFX staff, the compensation for the completed work was disputed. The matter was escalated to the Disputes Review Board (DRB) and a determination of entitlement for additional compensation was received. The following amount, as payment for the additional work performed, is recommended by staff.

ADD THE FOLLOWING ITEM:

Grout Seal & Abandoned, 6" and 10" Wells	\$ 133,507.52
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<u>TOTAL AMOUNT FOR PROJECT 429-204</u>	<u>\$ 261,562.16</u>
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Contract 429-206: SR 453, Lake County Line to SR 46
GLF Construction Corp.
SA 429-206-0217-02

Sinkhole at SR 429 and Coronado Somerset Dr.

On January 6, 2017 a sinkhole developed at the southeast corner of SR 429 bridges over Coronado Somerset Dr. The proximity of the sinkhole to the new south bridge abutment and the new retaining wall will require that additional work be performed. A Geotechnical investigation has been performed and a grouting program has been recommended. Because the sinkhole occurred within the reinforced earth portion of the retaining wall, it is necessary to: 1) remove a portion of the retaining wall panels and reinforced earth; 2) perform the grouting procedure; 3) reconstruct the wall and associated embankment. The actual cost to perform this work is yet to be determined, however, existing contract unit prices will be utilized where the character of work/rework remains unchanged. Other additional work will be negotiated or monitored and quantified as outlined in the contract for Extra Work. Indications are that this unforeseen sinkhole occurrence will not create a time impact to the completion of this project. CFX staff estimates this cost to be \$375,000.

ADD THE FOLLOWING ITEM:

Sinkhole at SR 429 and Coronado Somerset Dr. \$ 375,000.00

TOTAL AMOUNT FOR PROJECT 429-206 \$ **375,000.00**

Contract 599-913: HQ Building 2nd Floor Renovation
S.A. Casey Construction Co., Inc.
SA 599-913-0217-02

CFX HQ Second Floor Call Center Additional Flooring & Painting

To maintain consistency with the second floor call center offices, this change provides new flooring and paint for the additional offices, and provides vinyl flooring in lieu of carpet in the mailroom.

ADD THE FOLLOWING ITEM:

Additional Flooring and Painting at 2nd Floor Call Center	\$	42,243.92
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CFX HQ Rooms 239A, 239B and 236 Layout Modifications

To accommodate additional work space, CFX wishes to extend Rooms 239A and 239B, which requires the relocation of the existing HVAC diffuser. This item also includes bracing the ceiling grid to support the window roller shades in Room 239 along the entire south wall, and to revise the layout in Room 236.

ADD THE FOLLOWING ITEM:

Layout Revision to Rooms 236, 239A & 239B and Roller Shade Bracing at Room 239	\$	4,957.32
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Contract Pay Item Quantity Adjustment

This adjustment in contract pay items is requested to close out the allowance items contained in this contract.

MODIFY THE FOLLOWING ITEMS:

Work Order Allowance	\$	(44,087.94)
Allowance for Disputes Review Board	\$	(3,000.00)
	\$	(47,087.94)

<u>TOTAL AMOUNT FOR PROJECT 599-913</u>	\$	<u>113.30</u>
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Contract 417-304: SR 417 / Turnpike Interchange
Southland Construction, Inc.
SA 417-304-0217-07

SR 417 & Orange Avenue Load Center B

The work associated with this item is intended to improve conditions and comply with the National Electric Code (NEC) in a safe and responsible manner. As part of this project, Load Center B was changed from a 480 to ground service to a 240/480 phased service. The load center serves existing circuits. Conductor colors associated with existing circuits do not comply with the NEC. Service feeds to the SR 417 cantilever sign structure lighting and underdeck lighting at Orange Ave. required replacing to comply with NEC code requirements.

ADD THE FOLLOWING ITEM:

SR 417 & Orange Avenue/Load Center B Adjustments	\$	12,269.67
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Contract Pay Item Quantity Adjustment

This adjustment in contract pay item quantity is requested to close out the allowance items contained in this contract.

DECREASE THE FOLLOWING ITEM:

Work Order Allowance	\$	(45,000.00)
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<u>TOTAL AMOUNT FOR PROJECT 417-304</u>	\$	<u>(32,730.33)</u>
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Contract 253F: SR 408 / SR 417 Interchange Improvements Phase I
Lane Construction Corp.
SA 253F-0217-004

Time Extension - Hurricane Matthew

The Contractor's schedule was impacted on October 5, 2016 through October 9, 2016 due to impacts from Hurricane Matthew. Staff recommends granting 5 non-compensable calendar days for weather impacts from the storm in accordance with General Specification 6.7.3 of the Contract.

Increase Contract Time 5 Non-Compensable Calendar Days

Additional Steel Sheet Pile Walls (Critical - Temporary)

The Engineer of Record determined that additional critical temporary steel sheet pile walls need to be constructed in order to install proposed Mechanically Stabilized Earth (MSE) walls 4, 6 and 14. The cost for this work is to be paid at the existing contract pay item unit prices in accordance with Specification 455-12.6.2.

INCREASE THE FOLLOWING ITEM:

Steel Sheet Piling, Temporary, Critical

\$ 150,213.00

TOTAL AMOUNT FOR PROJECT 253F

\$ 150,213.00