

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

MEMORANDUM

TO: CFX Board Members

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

DATE: June 27, 2016

SUBJECT: 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 (\$) July 2016	Total Amount (\$) to Date*	Time Increase or Decrease
429-654C	Southland Construction, Inc.	SR 429/CR 535 South Off Ramp Improvements	\$ 2,042,198.88	\$ -	\$ (38,398.73)	\$ 2,003,800.15	0
253F	The Lane Construction Corp.	SR 408/SR 417 Interchange Improvements Phase I	\$ 36,744,623.00	\$ -	\$ (764,747.99)	\$ 35,979,875.01	0
417-733	Ranger Construction Industries, Inc.	SR 417 Milling & Resurfacing, International Dr. to Moss Park Rd.	\$ 18,513,580.17	\$ -	\$ 13,696.46	\$ 18,527,276.63	0
429-202	Prince Contracting, LLC	SR 429, US 441 to North of Ponkan Rd.	\$ 56,152,429.00	\$ 12,078.42	\$ 161,234.57	\$ 56,325,741.99	0
599-732	Kenyon & Partners, Inc.	SR 417 Air Conditioner Replacements	\$ 692,502.00	\$ -	\$ (30,809.34)	\$ 661,692.66	0
TOTAL					\$ (659,025.03)		

* Includes Requested Amount for current month.

Reviewed By:



Joseph A. Berenis, P.E., Chief of Infrastructure

Contract 429-654C: SR 429/CR 535 South Off Ramp Improvements
Southland Construction, Inc.
SA 429-654C-0716-01

Adjustments for Contract Items

This adjustment in contract pay item quantities is requested to accurately reflect the actual authorized quantities under the Contract to accomplish the intent of the project.

OVERRUN THE FOLLOWING ITEMS:

Portable Changeable Message Sign, Temporary	\$	3,240.00
Optional Base, Base Group 01 (4" Limerock LBR 100) w/ Prime	\$	1,155.00
Optional Base, Base Group 09 (10" Limerock LBR 100) w/ Prime	\$	1,573.20
Milling Existing Asphalt Pavement, 3/4" Avg Depth	\$	3,676.40
Asphalt Concrete Friction Course, Inc. Bit., FC-5, PG 76-22	\$	12,251.56
Asphalt Concrete Friction Course, Traffic C, FC-12.5, PG 76-22	\$	1,541.28
Misc. Asphalt Pavement	\$	517.40
Concrete Curb and Gutter, Type F	\$	104.80
Performance Turf, Sod	\$	36,373.05
Conduit, Furnish and Install, Directional Bore	\$	7,585.20
Fiber Optic Cable, SM, 12 Fiber, Furnish & Install	\$	1,054.17
Fiber Optic Cable, SM, 72 Fiber, Furnish & Install	\$	266.64
Fiber Optic Splice Enclosure, 72 Splice, Furnish & Install	\$	860.00
Fiber Optic Fusion Splice	\$	1,060.40
Fiber Optic Conduit, 9-1" HDPE/SDR 11, Trench or Plow	\$	142.40
Electric Service Disconnect, F&I, Pole	\$	1,320.00
Fiber Optic Patch Panel, 12 Port, Furnish & Install	\$	2,200.00
Thermoplastic, Standard, White, Arrow	\$	166.00
Preformed Tape, High Performance, White, Solid, 8"	\$	63.20
Preformed Tape, High Performance, Yellow, Solid, 6"	\$	82.00
Preformed Tape, High Performance, White/Black Contrast, Solid, 9"	\$	96.30
Lighting Conductors, F&I, Insulated, #8-6	\$	297.00
Conductors, F&I, Insulated, #6	\$	1,069.20
Conduit, F&I, UG, 2" Sch 40 PVC	\$	22.00
Light Pole Complete, Relocate	\$	5,400.00
	\$	82,117.20

UNDERRUN THE FOLLOWING ITEMS:

Maintenance of Traffic for Roadway Repair Contingency	\$ (900.00)
Type B Stabilization	\$ (98.00)
Milling Existing Asphalt Pavement, 1 1/2" Avg Depth	\$ (4,428.90)
Roadway Repair Contingency	\$ (1,000.00)
Superpave Asphalt Concrete, Traffic C, PG 76-22	\$ (11,534.76)
Shoulder Gutter, Concrete	\$ (1,165.65)
Inspector Training for Data Collection Sensors	\$ (5,500.00)
Conduit, Furnish & Install, Open Trench	\$ (851.00)
Fiber Optic Conduit HDPE/SDE 11 Outer Duct w/ Conduit 9-1" HDPE, Direct Bore	\$ (1,890.00)
Retro-Reflective Pavement Marker	\$ (115.20)
Thermoplastic, Standard, White, Message	\$ (1,540.00)
Pavement Markings, Preformed Tape, HP, White, Solid, 18"	\$ (106.40)
Lighting Conductors, F&I, Insulated, #4-2	\$ (107.10)
Allowance for Disputes Review Board	\$ (10,000.00)
Work Order Allowance	\$ (81,278.92)
	\$ (120,515.93)

<u>TOTAL AMOUNT FOR PROJECT 429-654C</u>	<u>\$ (38,398.73)</u>
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Contract 253F: SR 408/SR 417 Interchange Improvements Phase I
The Lane Construction Corp.
SA 253F-0716-001

Eliminate Reinforced Concrete Carrier Pipe Inside Steel Casing in Wall Zones

This change is requested by CFX. The plans call for proposed drainage runs to be installed within wall zones (as defined in the FDOT Drainage Manual) to utilize Reinforced Concrete Pipe (RCP) as the carrier pipe inside steel casing and the space in-between to be grout filled. The current drainage design manual allows for steel casing to be utilized as the carrier pipe if it meets Load Resistance Factor Design (LRFD) and 100-year service life requirements. This field change will eliminate the Reinforced Concrete Pipe and utilize steel casing as the carrier pipe for the drainage runs within the wall zones.

DECREASE THE FOLLOWING ITEMS:

Pipe Culvert (SRCP) (Storm & Cross Drain) (Round) (Incl. Sleeve) (18")	\$ (89,910.00)
Pipe Culvert (SRCP) (Storm & Cross Drain) (Round) (Incl. Sleeve) (24")	\$ (35,625.00)
Pipe Culvert (SRCP) (Storm & Cross Drain) (Round) (Incl. Sleeve) (48")	<u>\$ (129,500.00)</u>
	\$ (255,035.00)

ADD THE FOLLOWING ITEMS:

Pipe Culvert (Steel Casing)(Storm & Cross Drain)(Round)(Incl. Sleeve)(18")	\$ 59,040.90
Pipe Culvert (Steel Casing)(Storm & Cross Drain)(Round)(Incl. Sleeve)(24")	\$ 25,627.20
Pipe Culvert (Steel Casing)(Storm & Cross Drain)(Round)(Incl. Sleeve)(48")	<u>\$ 69,507.83</u>
	\$ 154,175.93

Subtotal: Eliminate Reinforced Concrete Carrier Pipe Inside Steel Casing in Wall Zones	\$ (100,859.07)
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Eliminate Reinforced Concrete Carrier Pipe Inside Steel Casing in Jack and Bore Runs

This change is requested by CFX. The plans call for proposed drainage runs to be installed by the jack and bore method to utilize Reinforced Concrete Pipe (RCP) as the carrier pipe inside steel casing and the space in-between to be grout filled. The current drainage design manual allows for steel casing to be utilized as the carrier pipe if it meets 100-year service life requirements. This field change will eliminate the Reinforced Concrete Pipe and utilize steel casing as the carrier pipe for the drainage runs installed by the jack and bore method.

INCREASE THE FOLLOWING ITEM:

Pipe Culvert (SRCP) (Storm & Cross Drain) (Round) (Jack & Bore) (42")	\$ 511,500.00
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DECREASE THE FOLLOWING ITEMS:

Pipe Culvert (SRCP) (Storm & Cross Drain) (Round) (18")	\$ (45,408.00)
Pipe Culvert (SRCP) (Storm & Cross Drain) (Round) (24")	\$ (24,552.00)
Pipe Culvert (SRCP) (Storm & Cross Drain) (Round) (42")	\$ (111,628.00)
Pipe Culvert (SRCP) (Storm & Cross Drain) (Round) (Jack & Bore) (30")	\$ (232,200.00)
Pipe Culvert (SRCP) (Storm & Cross Drain) (Round) (Jack & Bore) (66")	<u>\$ (1,087,900.00)</u>
	\$ (1,501,688.00)

ADD THE FOLLOWING ITEMS:

Pipe Culvert (SRCP) (Storm & Cross Drain) (Round) (Jack & Bore) (18")	\$ 210,223.56
Pipe Culvert (SRCP) (Storm & Cross Drain) (Round) (Jack & Bore) (24")	<u>\$ 116,075.52</u>
	\$ 326,299.08

Subtotal: Eliminate Reinforced Concrete Carrier Pipe Inside Steel Casing in Jack and Bore Runs	\$ (663,888.92)
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<u>TOTAL AMOUNT FOR PROJECT 253F</u>	<u>\$ (764,747.99)</u>
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**Contract 417-733: SR 417 Milling & Resurfacing, International Dr. to Moss Park Rd.
Ranger Construction Industries, Inc.
SA 417-733-0716-0001**

Added Work at Orange Avenue

It has been determined by CFX that this area needs to be added to the scope of work for this contract. This location was originally shown in the plans as one of the exception areas that would not be milled and resurfaced. Following a review, it was determined that this location was omitted from a previous project and will need to be completed as part of this project.

INCREASE THE FOLLOWING ITEMS:

Milling 2 1/4"	\$	6,840.84
Milling 2 3/4"	\$	6,448.08
Milling 1 1/2"	\$	4,467.97
Superpave TL-D PG 76-22	\$	41,841.41
Asphalt Rubber Membrane Interlayer	\$	10,746.80
Friction Course-5 PG 76-22 Black Granite	\$	27,131.00
Rumble Strips Ground In	\$	633.50
Sod (Shoulder Treatment)	\$	3,254.52
Solid Traffic Stripe PPRT 6" Yellow	\$	5,885.25
Solid Traffic Stripe PPRT Contrast 9"	\$	9,615.20
Skip Traffic Stripe PPRT Contrast 9"	\$	2,345.00
Retro-Reflective Pavement Markers (W/R)	\$	158.40
	\$	<u>119,367.97</u>

ADD THE FOLLOWING ITEM:

Superpave Asphaltic Concrete Traffic Level(TL)-C (Non-Polymer Asphalt Mix)	\$	13,692.64
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Subtotal: Added Work at Orange Avenue	\$	133,060.61
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Asphalt Mix Change Mainline Ramp Shoulder Resurfacing

The scope of work for this project includes resurfacing with superpave structural course Traffic Level-D with polymer for mainline shoulders and superpave structural course Traffic Level-C with polymer for ramp shoulders. After further review of the plans it was discovered that the polymer mix would not be necessary on project shoulders as originally identified in the plans. In the interest of material cost savings to this project, superpave structural course Traffic Level-C non-polymer mix will be used in lieu of superpave structural course (Traffic Level-C and D) polymer mix for mainline and ramp shoulders.

ADD THE FOLLOWING ITEMS:

Superpave Asphaltic Concrete, Traffic Level-C, Non-Polymer, Ramp Shoulder	\$	207,121.23
Superpave Asphaltic Concrete, Traffic Level-C, Non-Polymer, Mainline Shoulder	\$	<u>1,166,913.57</u>
	\$	1,374,034.80

DECREASE THE FOLLOWING ITEMS:

Superpave Asphaltic Concrete, Traffic Level-C, Polymer, Ramp Shoulder	\$	(219,885.48)
Superpave Asphaltic Concrete, Traffic Level-C, Polymer, Mainline Shoulder	\$	<u>(1,273,513.47)</u>
	\$	(1,493,398.95)

Subtotal: Asphalt Mix Change Mainline Ramp Shoulder Resurfacing	\$	(119,364.15)
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<u>TOTAL AMOUNT FOR PROJECT 417-733</u>	\$	<u>13,696.46</u>
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Contract 429-202: SR 429, US 441 to North of Ponkan Rd.
Prince Contracting, LLC
SA 429-202-0716-02

Maintenance of Traffic at Connector Rd.

This change is as requested by CFX. Third party complaints were being received regarding erratic or difficult truck maneuvering at the intersection of Connector Rd. and SR 429. Trucks utilizing the intersection were having difficulty navigating the turn radius provided. Trucks were sometimes encroaching into adjacent lanes, indicating that the turn radius was not adequate. The Engineer of Record was requested to review the conditions. Plan Revision 2 was issued as a result of that review.

ADD THE FOLLOWING ITEM:

Maintenance of Traffic at Connector Rd.	\$	12,874.15
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Sanitary Sewer in Stanton Ridge

The plans required construction of water, reclaim and sanitary utility service adjustments within the footprint of the abandoned Stanton Ridge subdivision. During pursuit of the work it was discovered that a portion of the existing sanitary served an existing subdivision located to the west. Additionally, the plans require existing utilities to remain, unless otherwise noted. A portion of the existing sewer required to remain in service was not depicted for removal, but was required to be removed to construct the new. This is full and complete settlement to issues related to the work required to maintain uninterrupted service

ADD THE FOLLOWING ITEM:

Sanitary Sewer in Stanton Ridge	\$	11,965.57
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Water Line at Plymouth Sorrento

The plans required construction of a water main by-pass around the existing water main at Plymouth Sorrento. The plan depicts the work to require two line stops. By coordination with the utility, a sequence was developed to reduce the required number of line stops. That sequence required the utility to manage the existing valves. At the time of initial attempt at the work, the utility could not locate the valve necessary to operate during the work. As a result, the work was rescheduled. The utility happened to locate the valve on the second attempt to the work. This is full and complete settlement for the additional costs associated with the first attempt of the work and subsequent second attempt. The additional costs were offset by the pay item quantity reduction to the work as a result of utilizing the existing valve as a line stop.

ADD THE FOLLOWING ITEM:

Water Line at Plymouth Sorrento - Settlement	\$	16,540.31
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DECREASE THE FOLLOWING ITEM:

Utility Fixtures, Furnished & Installed, 8.0-19.9" Line Stop Assembly	\$	(15,500.00)
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Subtotal: Water Line at Plymouth Sorrento	\$	1,040.31
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Drainage Adjustments

This change is as requested by CFX. East of the Belgian St. overpass, the plans require construction of the new Belgian St. to blend back into existing. New drainage is required from S-208 through S-209, which also was intended to drain into existing drainage pipe. There is an existing drainage structure not contemplated by the plans. In addition, the existing Apopka utilities are in conflict with the proposed and existing drainage. To minimize disruption to the utility, the CEI provided the Engineer recommended drainage adjustments given the discovery of the existing drainage structure. The Engineer reviewed the circumstances and conditions and concurred with the CEI's recommendation.

ADD THE FOLLOWING ITEM:

Drainage Adjustments	\$	16,169.37
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DECREASE THE FOLLOWING ITEM:

Inlet, Curb, Type P-1, <10	\$	(3,000.00)
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Subtotal: Drainage Adjustments	\$	13,169.37
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Connector Rd. Rebar Lists

This change is as requested by CFX. The Contractor discovered discrepancies on the Connector Rd. bridges (NB and SB) reinforcing bar list as they were performing work on Piers 2 and 3, and submitted Request for Information (RFI) 056 seeking clarification to the rebar lists. The Engineer of Record subsequently modified the rebar lists as part of Plan Revision 4. This document provided evaluation to the plan quantity changes to reinforcement steel as a result of Plan Revision 4, and costs related to reordering steel that was adjusted by the revision but delivered to the site prior to its issuance. CFX considers this to be a premium cost and is pursuing reimbursement from the Engineer.

ADD THE FOLLOWING ITEM:

Connector Rd. Rebar Lists, Plan Revision 4	\$	16,147.62
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INCREASE THE FOLLOWING ITEMS:

Reinforcing Steel, Superstructure	\$	1,816.80
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Reinforcing Steel, Substructure	\$	784.00
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	\$	2,600.80
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Subtotal: Connector Rd. Rebar Lists	\$	18,748.42
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Adjustments for Contract Items

This adjustment in contract pay item quantities is requested to accurately reflect the actual authorized quantities to date under the Contract.

INCREASE THE FOLLOWING ITEMS:

Regular Excavation	\$	22,380.00
Subsoil Excavation	\$	22,975.50
Subsurface Pressure Grouting, Sand Cement	\$	98,940.00
Single Post Sign, F&I, up to 12 SF	\$	870.00
Light Pole Comp., 1 Arm Shoulder, A1 45	\$	9,700.00
	\$	<u>154,865.50</u>

DECREASE THE FOLLOWING ITEMS:

Embankment	\$	(34,686.75)
Grout Pipe Installation	\$	(3,222.00)
Single Post Sign, F&I, BM up to 12 SF	\$	(4,300.00)
Sign Panel, F&I, BM up to 12 SF	\$	(2,920.00)
Light Pole Comp., 1 Arm Wall, A1 45"	\$	<u>(6,300.00)</u>
	\$	(51,428.75)

Subtotal: Adjustments for Contract Items	\$	103,436.75
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<u>TOTAL AMOUNT FOR PROJECT 429-202</u>	\$	<u>161,234.57</u>
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Contract 599-732: SR 417 Air Conditioner Replacements
Kenyon & Partners, Inc.
SA 599-732-0716-01

Adjustments for Contract Items

This adjustment in contract pay item quantities is requested to accurately reflect the actual authorized quantities to date under the Contract to accomplish the intent of the project..

UNDERRUN THE FOLLOWING ITEMS:

Work Order Allowance	\$ (25,809.34)
Disputes Review Board Allowance	<u>\$ (5,000.00)</u>
	\$ (30,809.34)

TOTAL AMOUNT FOR PROJECT 599-732 **\$ (30,809.34)**