


CENTRAL FLORIDA EXPRESSWAY AUTHORITY

MEMORANDUM

TO: Authority Board Members

FROM: Claude Miller 
Director of Procurement

DATE: April 28, 2015

RE: Supplemental Agreement No. 7B with Dewberry Engineers, Inc. d/b/a
Dewberry/Bowyer-Singleton (Dewberry) for Post Design Services
Project 417-301: Contract No. 000979, S.R. 417/Boggy Creek Road Interchange
Phase III

Board approval is requested for Supplemental Agreement No. 7B with Dewberry for post design services for Phase III of the referenced project. Services will include additional shop drawing reviews, attendance at construction meetings, site visits, and responding to the contractor's requests for information.

This Supplemental Agreement, for a fee of \$128,626.00, will be a continuation of an agreement previously approved by the Authority for this project.

Original Contract Amount	\$ 5,249,695.96
Amount of Previous Authorized Adjustments	\$ 3,698,727.34
Amount of This Adjustment	<u>\$ 128,626.00</u>
Total Revised Contract Amount	\$ 9,077,049.30

cc: Joe Berenis, Deputy Executive Director, Engineering, Operations, Construction and Maintenance
Laura Kelley, Deputy Executive Director, Finance and Administration
Glenn Pressimone, Director of Engineering

SUPPLEMENTAL AGREEMENT NO. 7B

TO

CONSULTANT AGREEMENT

POST DESIGN SERVICES (417-301C)

SR 417/BOGGY CREEK ROAD INTERCHANGE IMPROVEMENTS

THIS SUPPLEMENTAL AGREEMENT is made and entered into this _____ day of _____, 2015, by and between the CENTRAL FLORIDA EXPRESSWAY AUTHORITY (F/K/A ORLANDO-ORANGE COUNTY EXPRESSWAY AUTHORITY), an agency of the State of Florida, hereinafter called the "AUTHORITY" and the consulting firm of DEWBERRY ENGINEERS INC., hereinafter called the "SECTION ENGINEER."

WHEREAS, Section 4.20 of Exhibit "A" of the Consultant Agreement between the AUTHORITY and the SECTION ENGINEER, dated the 4th day of May 2006 provides that after completion of the services outlined in Exhibit "A" for Project Number 417-301 of the said Consultant Agreement, the AUTHORITY may negotiate with the SECTION ENGINEER a Supplemental Agreement for Post Design Services and whereas, Articles 2.00 and 12.00 of the Consultant

Agreement provide that in the event that the AUTHORITY shall change the amount of work of the said Consultant Agreement, the fees to be paid to the SECTION ENGINEER shall be subject to adjustment as shall be mutually agreed upon:

NOW, THEREFORE, BE IT RESOLVED THAT:

1. The AUTHORITY hereby authorizes the SECTION ENGINEER to proceed with additional Post Design Services required as outlined in the SECTION ENGINEER'S correspondence to the Authority dated April 30, 2015 attached hereto and made a part of this Supplemental Agreement.
2. The maximum fee for Post Design Services shall be adjusted upward by \$128,626.00 to a total of \$875,749.00.
3. Any supplemental agreements for Post Design Services shall be in accordance with the appropriate Articles within the original SECTION ENGINEER Agreement and the original Post Design Services Agreement (Supplemental Agreement No. 7).

All provisions of said Consultant Agreement, or any Supplements thereto, not modified by the above, shall remain in full force and effect, the same as if they had been set forth herein. In the event of a conflict between the provisions of this Supplemental Agreement and of the said Consultant Agreement, or any Supplements thereto, the provisions of this Supplemental

Agreement, to the extent such provision is reasonable, shall take precedence.

IN WITNESS WHEREOF, the parties hereto have caused these presents to be executed, in triplicate, the day and year first above written.

CENTRAL FLORIDA
EXPRESSWAY AUTHORITY

Witness: _____

Assistant Secretary

By: _____

Director of Procurement

DEWBERRY ENGINEERS INC.

Witness: _____

Print Name:

Title:

By: _____

Print Name:

Title:

Approved as to form and execution, only.

General Counsel for the AUTHORITY



Dewberry Engineers Inc.
520 South Magnolia Avenue
Orlando, FL 32801

407.843.5120
407.649.8664 fax
www.dewberry.com

April 30, 2015

Job No. 99254015 (EA9-3)

Mr. Glenn Pressimone, P.E.
Central Florida Expressway Authority
4974 ORL Tower Road
Orlando, Florida 32807

Subject: **SR 417 Boggy Creek Road Interchange Improvements, Post Design**
Project No. 417-301C
Contract No. 000979, SA#7A 78
Request for Additional Post Design

Dear Glenn,

We are requesting additional post design budget for both Dewberry and Parsons. Please find attached the estimated fee and back up sheets for the request. The manhour estimates include comments as to the differences between the estimated and actual Contractor submittals that are the basis for this request. The additional work items for Dewberry are summarized below. Parsons has provided the justification on the following page.

- The bridge bearings have been submitted 4 times for Ramp G and 5 times for Ramp J. The number of submittals were not anticipated during preparation of the original estimate.
- The Ramp J shoring towers were submitted two times. This submittal consisted of 160 sheets, including design calculations and plans. The size of the submittal and requirement to review more than once was not anticipated in the original estimate.
- The Ramp J girder fabrication drawings were submitted two times. The submittal consisted of 68 plan sheets. The size of the submittal and requirement to review more than once was not anticipated in the original estimate.

If you have any questions, or require any additional information, please contact me at 321.354.9626.

Sincerely,

Don Hammack, P.E.
Project Manager

DLH:cnp
EA9/J3/Corr/6010_Request for Additional Post Design
Enclosures

Project # 417-301C - SR 417/ Boggy Creek Road Int Phase III

January 17, 2014

Dewberry

TOTAL CONTRACT FEE COMPUTATIONS		Check Appropriate Box
Total Activity Salary Costs (Raw Labor)	\$17,882	<input type="checkbox"/> Initial Estimate Post Design
Post Design Multiplier	3.2087	
Field Survey (5 days @ \$1,455/day)	\$0	<input type="checkbox"/> Revised Estimate No. 1 Post Design
Dewberry Fee Total	\$57,377.97	<input checked="" type="checkbox"/> Revised Estimate No. 2 Post Design
		<input type="checkbox"/> Revised Estimate No. 3 Post Design
		<input type="checkbox"/> Revised Estimate No. 4 Post Design
		<input type="checkbox"/> Revised Estimate No. 5 Post Design
SUBCONSULTANTS		
Horizon	\$0.00	
Nadic	\$0.00	
Terracon (Nodarse)	\$0.00	
Parsons	\$71,248.00	
RS&H	\$0.00	
SUBCONSULTANT SUBTOTAL	\$71,248.00	
MAXIMUM FEE	\$128,626	

5/1/2015

Bowyer-Singleton Associates, Inc.

Dewberry
Activity Salary Costs Summary

Project # 417-301C - SR 417/ Boggy Creek Road Int
Phase III

ACTIVITY	Project Mgr.		Senior Engineer		Surveyor		Engineer		Eng. Technician		Clerical		Total M/H By Activity	Salary Costs By Activity
	M/H	Rate/Hr	M/H	Rate/Hr	M/H	Rate/Hr	M/H	Rate/Hr	M/H	Rate/Hr	M/H	Rate/Hr		
Requests for Information	8	\$72.65	36	\$53.55			34	\$33.99	0	\$34.00	8	\$17.75	60	\$3,807
Prebid Conference	0	\$72.65	0	\$53.55			0	\$33.99	0	\$34.00	0	\$17.75	0	\$0
Addenda	0	\$72.65	0	\$53.55			0	\$33.99	0	\$34.00	0	\$17.75	0	\$0
Field Visits	0	\$72.65	0	\$53.55			0	\$33.99	0	\$34.00	0	\$17.75	0	\$0
Shop Drawing Reviews	24	\$72.65	80	\$53.55			132	\$33.99	0	\$34.00	32	\$17.75	268	\$11,082
Plans Revisions	0	\$72.65	0	\$53.55			0	\$33.99	0	\$34.00	0	\$17.75	0	\$0
Coordination	24	\$72.65	22	\$53.55			0	\$33.99	0	\$34.00	4	\$17.75	16	\$2,993
Meetings	0	\$72.65	0	\$53.55			0	\$33.99	0	\$34.00	0	\$17.75	0	\$0
Partnering	0	\$72.65	0	\$53.55			0	\$33.99	0	\$34.00	0	\$17.75	0	\$0
Survey - Office Support					0	\$0.00			0	\$0.00			0	\$0
TOTALS	56	#REF!	603	7,390			782	5,642	144	0	44	781	344	\$17,882

TASK LIST

Consultant Name: Dewberry
OOCEA Project No.: 417-301C
Date: 10/25/2013

Project Name: SR 417/ Boggy Creek Road Interchange Improvements Phase III

ACTIVITY: POST DESIGN SERVICES

TASK	BASIS OF ESTIMATE	NO. OF UNITS	HOURS/ UNIT	NO. OF SHEETS	TOTAL HOURS	CADD HOURS	REMARKS
Requests for Information (RFI)							
Roadway	EA	0	0		0		Covered in Original PD
Drainage	EA				0		
SPM	EA	0	4		0		Covered in the Original PD
Structures	EA	20	3		60		Based on Ramp H and I, assume 1 RFI per week for 4 months and 1 RFI per month for the final 4 months (Bridge construction should be mainly completed after 4 months)
Toll Plaza	EA				0		
RFI Subtotal					60		
Prebid Conference	LS				0		
Addenda	LS				0		
Shop Drawing Reviews							
Roadway	LS				0		
Drainage	EA				0		
SPM	EA	0	0		0		0
Structures	EA				268		See Shop Drawing Worksheet
ITS	EA	0	0		0		0
Shop Drawing Subtotal					268		
Plans Revisions							
Roadway	EA				0		
Drainage	EA				0		
Structures	EA				0		
Toll Plaza	EA				0		
SPM	EA				0		
Plans Revisions Subtotal					0		
Coordination	EA	16	1		16		Estimate 1 additional hour per week for 4 Months of Ramp J construction
Field Visits	EA				0		
Meetings	EA				0		
Partnering	EA				0		
TOTAL					344		

Estimator: D. Hammack

SR 417/ Boggy Creek Road Interchange Improvements
417-301 Phase 3 Post Design

Task No.	Task	Scale	Units	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
1.0	RFI's		Each	0	0	0	0	See first sheet
1.1	Construction Assistance		LS	0	0	0	0	See first sheet
1.2	Precast Concrete U-Girder		EA	6	7.333	6	44	Review U-Girder Fabrication Drawings 6 Units Ramp J. Actual submittal = 68 sheets. Estimate 1 hour per sheet based on Parsons reviews. Original estimate was for 6 units at 4 hours each. Total = $68 - 24 = 44$ hours.
1.3	Material Certificates		LS	0	0	0	0	
1.4	Multi-Rotational Bearings		EA	4	9	4	36	Bearings for Ramp G were submitted 4 times and bearings for Ramp J were submitted 5 times. The first two submittals were 128 sheets each. The following revisions were 16, 9 and 59 sheets. Original estimate was 24 hours for both bridges. Estimate second review at 24 hours and subsequent reviews at 4 hours each. Additional hours = $24 + 3 \times 4 = 36$ hours.
1.5	Expansion Joints		EA	0	0	0	0	
1.6	Stay-in-Place Metal Forms		Sheet	0	0	0	0	
1.7	Shoring Towers		Each	2	94	2	188	Bridge G superstructure is in place. Remaining efforts are for Ramp J. Actual submittal = 160 sheets (including calculations and plans). There have been two submittals, one original and one revised per first review comments. Estimate 1 hour per sheet for initial review and .25 hours per sheet for second review = $1.25 \times 160 = 200$ hours. Original estimate was for 2 units at 6 hours per unit. Total = $200 - 12 = 188$ hours.
1.8	Temporary Beam Bracing		Sheet	0	0	0	0	
1.9	Pile Installation & Test Plans		LS	0	0	0	0	0
1.10	MSE Retaining Walls		Sheet	0	0	0	0	
1.11	Sign Structures		Sheet	0	0	0	0	
1.12	Lighting Structures		Sheet	0	0	0	0	
1.13	Signal Structures		Each	0	0	0	0	

1.14	Fencing		Sheet	0	0	0	0	
1.15	Drainage Structures		Sheet	0	0	0	0	
1.16	Lighting Non-Structural		Sheet	0	0	0	0	
1.17	Steel Plate Girders		Span	0	0	0	0	
1.18	Scupper Drains and Piping		Sheet	0	0	0	0	
1.19	Post-Tensioning Elongation Data		Units	0	0	0	0	
1.20	PT Anchorage Shop Drawings		Each	0	0	0	0	
1.21	PT Systems Shop Drawings		Units	0	0	0	0	
1.22	Access Door/Diaphragm Screening		Sheet	0	0	0	0	
1.23	Prestressed Soil Anchors		Sheet	0	0	0	0	
1.24			EA	0	0	0	0	
1.25			Sheet	0	0	0	0	
1.26			EA	0	0	0	0	
1.27			Sheet	0	0	0	0	
1.28			Sheet	0	0	0	0	
1.29			EA	0	0	0	0	
Post Design Subtotal						12	268	
1.40	Quality Assurance/Quality Control		LS	%	0%		0	
1.41	Processing		LS	%	0%		0	
Post Design Total						12	268	

PARSONS

201 E. Pine Street • Orlando, FL 32801 • (407) 702-6800 • Fax: (407) 702-6950 • www.parsons.com

March 4, 2015

Mr. Don Hammack, P.E.
Dewberry
520 South Magnolia Avenue
Orlando, FL 32801

**Re: SR 417/Boggy Creek Interchange
OOCEA Project Number 417-301
Supplemental for Additional Post Design Tasks**

Dear Mr. Hammack,

Please find attached a fee proposal for additional post design tasks. The additional tasks are due to receiving more contractor submittals than anticipated, with many contractor submittals having multiple revisions. The additional fee is based on the following:

1. Shop drawing revisions to the two remaining U-girder sections to be erected, Ramp H Unit 2 and Ramp I Unit 2, including revisions to the shoring towers for the two erected units. Approximately 200 sheets are anticipated.
2. Review of PT tendon elongation calculations for Ramp H Unit 2 & Ramp I Unit 2. Approximately 50 sheets are anticipated.
3. Review of up to four more sheets of contractor MOT changes for erection of Ramp H Unit 2 and Ramp I Unit 1.
4. The potential for updates to contractor change memos for Unit 2 Ramp H and Unit 2 Ramp I.
5. Additional RFI's, field visits, and coordination with the contractor and CEI related to potential contractor changes.

If you have any questions, please feel free to call.

Sincerely,
PARSONS



Ted Davidson, P.E.
Senior Project Manager
cc: file

P:\646663\PriceProposal\Phase3\PostDesign2\BoggyCreekPricePropSupPhase3Update.docx

Project # 417-301C - SR 417/ Boggy Creek Road Int Additional Post Design Budget Request 2/20/15		PARSONS
TOTAL CONTRACT FEE COMPUTATIONS		Check Appropriate Box
Total Activity Salary Costs (Raw Labor)	\$26,766	<input type="checkbox"/> Initial Estimate Post Design
Post Design Multiplier =	2.6619	<input checked="" type="checkbox"/> Revised Estimate No. 1 Post Design
PARSONS FEE	\$71,248	<input type="checkbox"/> Revised Estimate No. 2 Post Design
		<input type="checkbox"/> Revised Estimate No. 3 Post Design
		<input type="checkbox"/> Revised Estimate No. 4 Post Design
		<input type="checkbox"/> Revised Estimate No. 5 Post Design
SUBCONSULTANTS		
	\$0.00	
	\$0.00	
	\$0.00	
	\$0.00	
SUBCONSULTANT SUBTOTAL	\$0.00	
	MAXIMUM FEE	\$71,248

Project # 417-301C - SR 417/Boggy Creek Road Int

Project # 417-301C - SR 417/Boggy Creek Road Int

Activity Salary Costs Summary														
ACTIVITY	Project Mgr.		Senior Engineer		Surveyor		Engineer		Engineering Technician		Clerical		Total MH By Activity	Salary Costs By Activity
	MH	Rate/Hr	MH	Rate/Hr	MH	Rate/Hr	MH	Rate/Hr	MH	Rate/Hr	MH	Rate/Hr		
Requests for Information	18	\$ 69.13	36	\$ 52.72			18	\$ 42.07	9	\$ 36.06	9	\$ 17.93	90	\$4,386
Prebid Conferences	0	\$ 69.13	0	\$ 52.72			0	\$ 42.07	0	\$ 36.06	0	\$ 17.93	0	\$0
Attendia	0	\$ 69.13	0	\$ 52.72			0	\$ 42.07	0	\$ 36.06	0	\$ 17.93	0	\$0
Field Visits	1	\$ 69.13	2	\$ 52.72			1	\$ 42.07	0	\$ 36.06	0	\$ 17.93	4	\$217
Shop Drawing Reviews	81	\$ 69.13	163	\$ 52.72			81	\$ 42.07	41	\$ 36.06	41	\$ 17.93	407	\$19,815
Plans Revisions	0	\$ 69.13	0	\$ 52.72			0	\$ 42.07	0	\$ 36.06	0	\$ 17.93	0	\$0
Coordination	8	\$ 69.13	16	\$ 52.72			8	\$ 42.07	4	\$ 36.06	4	\$ 17.93	40	\$1,949
Meetings	2	\$ 69.13	3	\$ 52.72			2	\$ 42.07	0	\$ 36.06	1	\$ 17.93	8	\$399
Partnering	0	\$ 69.13	0	\$ 52.72			0	\$ 42.07	0	\$ 36.06	0	\$ 17.93	0	\$0
Survey - Office Support					0	\$0.00			0	\$0.00			0	\$0
								</						

TASK LIST

Consultant Name: **PARSONS** Project Name: SR 417/ Boggy Creek Road Interchange Improvements
OOCEA Project No.: 417-301C Phase 3 Post Design (Additional due to contractor changes and extent of shop drawings)
Date: 2/20/2015

ACTIVITY: POST DESIGN SERVICES

TASK	BASIS OF ESTIMATE	NO. OF UNITS	HOURS/ UNIT	NO. OF SHEETS	TOTAL HOURS	GADG HOURS	REMARKS
Requests for Information (RFI)							
Roadway	EA	10	3		30		Assume 1 per month for 10 months for MOT/Lighting
Drainage	EA				0		
SPM	EA				0		
Structures	EA	20	3		60		Assume 2 per month for 10 months
Toll Plaza	EA				0		
RFI Subtotal					90		
Prebid Conference	LS	0	0		0		
Addenda	LS	0	0		0		
Shop Drawing Reviews							
Roadway	EA	4	8		32		See Shop Drawing Worksheet
Drainage	EA				0		
SPM	EA				0		
Structures	EA	252	1.48809524		375		See Shop Drawing Worksheet
Toll Plaza	EA				0		
Shop Drawing Subtotal					407		
Plans Revisions							
Roadway	EA	0	0		0		
Drainage	EA				0		
Structures	EA	0	0		0		
Toll Plaza	EA				0		
SPM	EA				0		
Plans Revisions Subtotal					0		
Coordination	LS	1	40		40		Additional coordination related to contractor changes
Field Visits	EA	1	4		4		Assume one visit to review construction issue
Meetings	EA	2	4		8		Additional meetings for contractor change coordination
Partnering	EA	0	0		0		Assume 2 Partnering Meetings
TOTAL					549		

Estimator: T. Davidson

PARSONS

SR 417/ Boggy Creek Road Interchange Improvements

417-301C Phase 3 Post Design (Additional due to contractor changes and extent of shop drawings)

Task No.	Task	Scale	Units	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
1.2	Precast Concrete U-Girder		EA	200	1.5	200	300	Assume shop drawing revisions to the two remaining U-girder sections to be erected, Ramp H Unit 2 and Ramp I Unit 2. Assume revisions to the shoring towers for the two erected units.
1.3	Material Certificates		LS	0	0	0	0	Concrete Mix Designs
1.4	Multi-Rotational Bearings		EA	0	0	0	0	36 Ramp H - 18 Ramp I
1.5	Expansion Joints		EA	0	0	0	0	4 Ramp H - 3 Ramp I
1.6	Stay-in-Place Metal Forms		Sheet	0	0	0	0	Tangent and Radius for Two Bridges
1.7	Shoring Towers		Each	0	0	0	0	10 Tower Types for H - 8 For Ramp I
1.8	Temporary Beam Bracing		Sheet	0	0	0	0	Top Flange Bracing for H & I
1.9	Pile Installation & Test Plans		LS	0	0	0	0	Review for structural
1.10	MSE Retaining Walls		Sheet	0	0	0	0	10 Plans and 10 Detail Sheets
1.12	Lighting Structures		Sheet	0	0	0	0	Poles & Foundations Shop Drawings
1.16	Lighting Non-Structural		Sheet	0	0	0	0	Fixtures & Power Centers Data Sheets
1.18	Scupper Drains and Piping		Sheet	0	0	0	0	
1.19	Post-Tensioning Elongation Data		Units	50	0.5	50	25	Review elongation for Ramp H Unit 2 & Ramp I Unit 2
1.20	PT Anchorage Shop Drawings		Each	0	0	0	0	4 Basic Types
1.21	PT Systems Shop Drawings		Units	0	0	0	0	Duct, Layouts for 92 Units

1.22	Access Door/Diaphragm Screening		Sheet	0	0	0	0	
1.23	Prestressed Soil Anchors		Sheet	0	0	0	0	
1.24	MOT Changes by Contractor		EA	4	8	4	32	Assume 4 more reviews of contractor MOT changes for erection of Ramp H Unit 2 and Ramp I Unit 1.
1.25	Contractor change memos		EA Unit	2	25	2	50	Assume updates to contractor change memos for Unit 2 Ramp H and Unit 2 Ramp I.
1.26			EA	0	0	0	0	
1.27			Sheet	0	0	0	0	
1.28			Sheet	0	0	0	0	
1.29			EA	0	0	0	0	
1.30			Sheet	0	0	0	0	
1.31			EA	0	0	0	0	
1.32			Sheet	0	0	0	0	
1.33			Sheet	0	0	0	0	
1.34			Sheet	0	0	0	0	
1.35			Sheet	0	0	0	0	
1.36			Sheet	0	0	0	0	
1.37			Sheet	0	0	0	0	
1.38			LS	0	0	0	0	
1.39			Sheet	0	0	0	0	
Post Design Subtotal							256	407
1.40	Quality Assurance/Quality Control		LS	%	0%		0	0
1.41	Supervision		LS	%	0%		0	
Post Design Total							256	407