

CS-18-194

**CHANGE ORDER APPROVAL FORM**

PROJECT: S. 14<sup>th</sup> Street Improvements (Sadler Road to Amelia Island Parkway) – CEI Services Extension Request

CHANGE ORDER NUMBER: 1

DATE: 4/1/19

CONTRACT NUMBER: CM2418-WA04

TO CONTRACTOR: CDM Smith

Reason for Change Order: Time and CEI Service Extension for Completion of Project

Detail: The Consultant will perform CEI services for an additional one (1) month (upon NTP through May 15, 2019) which will cover the consultant through the completion of the project, attached hereto as Exhibit A, including a Fee Proposal reflecting the additional month.

Original Work Authorization Sum.....	\$	<u>97,547.24</u>
Net Change by Previous Change Orders.....	\$	<u>0.00</u>
Contract Sum Prior to This Change Order.....	\$	<u>97,547.24</u>
Amount of This Change Order (Add).....	\$	<u>24,977.16</u>
New Work Authorization Sum Including this Change Order.....	\$	<u>122,524.40</u>

RCVD OMB  
'19 APR 5 AM 11:13

APPROVED BY: [Signature]  
Michael Mullin, Interim Public Works Director

DATE: 4/4/19

APPROVED BY: [Signature]  
Grayson Hagins, Contract/Purchasing Manager

DATE: 4/3/19

APPROVED BY: [Signature]  
Megan Diehl, Interim Director, Office of Management & Budget

DATE: 4/10/19

APPROVED BY: [Signature]  
Michael Mullin, County Manager

DATE: 4/24/19

@ 4.5.19



**14<sup>th</sup> Street Improvements**

**March 25, 2019**

**Mr. Robert Companion  
Transportation  
Engineer  
Engineering Services  
Department Nassau County  
Florida  
96161 Nassau Place  
Yulee, FL 32097**

**Re: 14<sup>th</sup> Street Improvements (Amelia Island Parkway to Sadler Road) – CEI Services  
Extension Request**

**Dear Mr. Companion,**

**Due to current project needs and projected completion date, CDM Smith respectfully submits this CEI Services extension request for the referenced project. CDM Smith requests an additional one- (1) month of services be added to the agreement; bringing the total contract amount to \$122,524.40, an increase of \$24,977.16. This extension request will cover CEI services through the current estimated completion of the 14<sup>th</sup> Street Improvements project. We have attached to this letter, the Fee Proposal reflecting the additional month. Compensation will be via contract billing rates for hours authorized by the County and all unused funds will belong to Nassau County.**

**We look forward to providing the County continued quality support. Thank you for your confidence in CDM Smith.**

**Sincerely,  
CDM Smith**

A handwritten signature in blue ink, appearing to read "Will Glennon".

**William M. Glennon, P.E.  
Senior Project Engineer**

**Attachments: Fee Proposal**

*TZC  
04/01/2019*



14<sup>th</sup> Street Improvements

Exhibit "B"

Construction Engineering and Inspection  
Estimated Fee Schedule & Staffing For Man-Hours

Project Description: 14<sup>th</sup> Street Improvements

Project No.: 434588-1-54-01

Personnel Classifications	2018		2019				Construction	
	Dec	Jan	Feb	Mar	April	May	Estimated Start Date	Estimated End Date
	1	2	3	4	5	6		
Nassau County 14th Street Improvements	Pre	Construction				Post	01-Jan-19	15-May-19
							Months	Hours
Sr. Project Engineer	0.00	0.00	0.00	0.00	0.01	0.00	0.01	2
Project Administrator	0.00	0.00	0.00	0.00	0.20	0.00	0.20	33
Sr. Inspector	0.00	0.00	0.00	0.00	1.00	0.00	1.00	165
Inspector		0.00	0.00	0.00	0.20	0.00	0.20	33
CSS	0.00	0.00	0.00	0.00	0.20	0.00	0.20	33

Estimated Construction Start Jan 2019, Pre-Construction Conference Dec 2018

Estimated 100 Calendar Days to Substantial Completion + 20 Calendar Days to Final Completion





**March 13, 2019**  
**CEI Support**  
**Nassau County 14th Street Improvements**  
**Full CEI Services**  
**Consultant Cost Estimate**  
**FPN: 434588-1-54-01**

Employee Classification	OT Allowed			
		Manhours	Billing Rate	Cost
Sr. Project Engineer	N	2.00	\$ 169.02	\$ 338.04
Project Administrator	N	33.00	\$ 111.26	\$ 3,671.58
Sr. Inspector	Y	165.00	\$ 98.84	\$ 16,275.60
Sr. Inspector OT	Y	0.00	\$ 115.57	\$ -
Inspector	Y	33.00	\$ 71.66	\$ 2,364.78
Inspector OT	Y	0.00	\$ 83.95	\$ -
CSS	Y	33.00	\$ 70.52	\$ 2,327.16
Lab Testing (CSI) (Estimated)	N			\$ -
<b>TOTAL LIMITING AMOUNT</b>				<b>\$ 24,977.16</b>

**CEI Support**

1. Consultant to provide full CEI Services including Contract Administration, On-Site Inspection, LAB Testing and Compliance
2. Inspector provided to supplement full time Senior Inspector for potential day/night time operation conflicts and to mitigate overtime.

**WORK AUTHORIZATION # CM2418-WA04  
NASSAU COUNTY  
BOARD OF COUNTY COMMISSIONERS  
RFQ/BID NO. NC16-029**

<b>Consultant:</b>	CDM Smith
<b>Contract Number:</b>	CM2418-WA04
<b>Contact Name:</b>	Virgil Rook
<b>Contact Number:</b>	407-468-6240
<b>Email:</b>	rookve@cdmsmith.com

<b>CURRENT WORK AUTHORIZATION</b>			
<b>Project Short Title: CEI Services for 14<sup>th</sup> Street Improvements</b>			
		<b>CONTRACT OVERVIEW</b>	
<b>Date Submitted</b>	8/21/18	<b>Total of Previous Authorizations</b>	\$167,866.34
<b>Amount</b>	\$97,547.24	<b>This Work Authorization</b>	\$97,547.24
<b>Scheduled Completion</b>	90 Days	<b>Current Contract Total</b>	\$265,413.58

This Work Authorization is to the AGREEMENT between Nassau County and the Consultant known as the Continuing Contract for Construction Engineering Inspection (CEI) Services for Nassau County, Florida, dated June 12, 2017. The services to be provided under this Work Authorization are as follows:

**ARTICLE 1. Services Described as:**

CDM Smith, Inc. shall provide Construction Engineering Inspection Services in accordance with the proposal date August 21, 2018, attached hereto as Exhibit "A".

**ARTICLE 2. Time Schedule**

CDM Smith, Inc. shall begin upon written notification to proceed by County and will continue through completion of project which will be 70 days to substantial completion and 20 days to final completion for a total of 90 calendar days.

**ARTICLE 3. Budget**

CDM Smith, Inc. will perform scope of services outlined herein for the amount of \$97,547.24. The Performed services will be paid on an hourly rate basis per contract, attached hereto as Exhibit "B".

**Article 4. Other Provisions**

The Services covered by this Work Authorization will be performed in accordance with the provisions set forth in the AGREEMENT referenced above and any of its attachments or schedules. Additional terms or contract provisions whether submitted purposely or inadvertently, shall have no force or effect. This Work Authorization will become a part of the referenced AGREEMENT when executed by both parties.

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In presenting this Work Authorization, Consultant agrees that:

Unless detailed herein, all drawings, data, electronic files and other information required for this Work Authorization has been accepted by Consultant. Specifically, all electronic files have been reviewed and accepted for the purposes of this Work assignment. Any additional information, including detailed scope of services are attached.

AGREED TO BY:

BY: Amelia H. Davies  
Print Name: Amelia H. Davies  
Title: Associate  
Date: 10-16-18

**RECOMMENDED AND APPROVED BY NASSAU COUNTY:**

Director of Engineering Services:

Rosemary Pryor

Board of County Commissioners, Chair:

John A. Crawford

Ex-Officio Clerk:

See Signature Below

County Attorney:

[Signature]

APPROVED by the BOARD OF COUNTY COMMISSIONERS, the 9th day of November, 20 18

ACCOUNT NO.:

ATTESTATION: Only to Authenticity as to  
Chairman's Signature:

[Signature]  
John A. Crawford, Ex-Officio Clerk

MES  
11-13-18



7029-1 Commonwealth Avenue  
Jacksonville, FL 32220  
Tel: 904-781-8131

August 21, 2018

**Ms. Josephine Craver**  
Engineer II  
Engineering Services Department  
Nassau County Florida  
96161 Nassau Place  
Yulee, FL 32097

Re: Continuing CEI Services Work Authorization – 14<sup>th</sup> Street Improvements (Amelia Island Parkway to Sadler Road)

Dear Ms. Craver,

CDM Smith respectfully submits this Scope and Fee Proposal to provide Nassau County with CEI inspection services for the referenced project in the amount of \$ 97,547.24. We have attached to this letter the Scope of Services and Fee Proposal, based on our understanding of the County's present needs and information provided by the County. Compensation will be via contract billing rates for hours authorized by the County and all unused funds will belong to Nassau County.

Again, we look forward to providing the County with quality support. Thank you for your confidence in CDM Smith.

Sincerely,  
CDM Smith

Virgil E. Rook, P.E.  
Vice President

Attachments: Scope of Services  
Fee Proposal





14<sup>th</sup> Street Improvements  
August 21, 2018  
Page 2

Exhibit "A"

Construction Engineering and Inspection  
Scope of Services

For

Project Description: 14<sup>th</sup> Street Improvements

FDOT Project No.: 434588-1-54-01

S.C.R.A.P. Funding



**Scope of Services**  
Construction Engineering and Inspection

14<sup>th</sup> Street Improvements

**1.0 Purpose:**

This scope of services describes and defines the Construction Engineering and Inspection (CEI) services which are required for contract administration, inspection, and materials sampling and testing for the construction project(s) listed below.

**2.0 Scope:**

The Consultant shall be responsible for providing services as defined in this Scope of Services, the referenced Contract Documents. The projects for which the services are required are:

Description(s): **14<sup>th</sup> Street Improvements**  
County: **Nassau**

The Consultant shall exercise their independent professional judgment in performing their obligations and responsibilities under this Agreement.

Other projects developing within geographical area of Nassau County may be added at the County's discretion.

**3.0 Length of Services:**

The Consultant's services for each Construction Contract shall begin upon written notification to proceed by County.

For estimating purposes, the Consultant will be allowed an accumulation of seven (7) calendar days to perform preliminary administrative services prior to the issuance of the Contractor's notice to proceed on the project and fourteen (14) calendar days to demobilize after final acceptance of the Contract.

**4.1 Items to be Furnished by the County to Consultant**



The County, on an as-needed basis, will furnish the following Construction Contract documents for each project. These documents may be provided in either paper or electronic format.

1. Construction Plans,
2. Specification Package,
3. Copy of the Executed Construction Contract, and
4. Utility Agency's Approved Material List (if applicable).

**5.1 Items Furnished by the Consultant:**

**5.2 Vehicles:**

Vehicles will be equipped with appropriate safety equipment and must be able to effectively carry out requirements of this Agreement.

**5.3 Field Equipment:**

The Consultant shall supply survey, inspection and testing equipment, essential in order to carry out the work under this Agreement. Such equipment includes those non-consumable and non-expendable items, which are normally needed for a CEI project and are essential in order to carry out the work under this Agreement.

Hard hats shall have the name of the consulting firm visibly displayed.

Equipment described herein and expendable materials under this Agreement will remain the property of the Consultant and shall be removed at completion of the work. Field office equipment shall be maintained and in operational condition at all times.

**6.0 Liaison:**

The Consultant shall keep the Construction Project Manager informed of all significant activities, decisions, correspondence, reports, and other communications related to its responsibilities under this Agreement, and seek input from the Construction Project Manager in order for the Construction Project Manager to oversee the Consultant's performance.

Agreement administrative duties relating to invoice Approval Requests, Personnel Approval Requests, Time Extension Requests, and Supplemental Amendment Requests shall be reviewed and approved by the County Construction Manager.

**7.0 Performance of the Consultant:**

During the term of this Agreement and all supplemental thereof, the County will review various phases of the Consultant operations, such as construction inspection, materials sampling and testing, and administrative activities, to determine compliance with this Agreement. The Consultant shall cooperate and assist County representatives in conducting the reviews.

**8.1 Requirements:**

**8.2 General:**

It shall be the responsibility of the Consultant to administer, monitor, and inspect the Construction Contract such that the project is constructed in reasonable conformity with the plans, specifications, and special provisions for the Construction Contract.

The Consultant shall observe the Contractor's work to determine the progress and quality of work, identify discrepancies, report significant discrepancies to the County, and direct the Contractor to correct such observed discrepancies.

The Consultant shall advise the Construction Project Manager of any significant omissions, substitutions, defects and deficiencies noted in the work of the Contractor and the corrective action that has been directed to be performed by the Contractor. Work provided by the Consultant shall not relieve the Contractor of responsibility for the satisfactory performance of the Construction Contract.

**8.3 On-site Inspection:**

The Consultant shall monitor the Contractor's on-site construction activities and inspect materials entering into the work in accordance with the plans, specifications, and special provisions for the Construction Contract to determine that the projects are constructed in reasonable conformity with such documents. The Consultant will monitor all off-site activities and fabrication as applicable. The Consultant shall keep detailed accurate records of the Contractor's daily operations and of significant events that affect the work.

**8.4 Sampling and Testing:**

The Consultant shall provide daily surveillance of the Contractor's Quality Control activities at the project site and perform the sampling and testing of materials, and completed work items that are normally done in the vicinity of the project for verification and acceptance including Asphalt Plant Verification testing.

The Consultant will perform inspection and sampling of materials and components at locations remote from the vicinity of the project and the Consultant will perform testing of materials normally done in a laboratory remote from the project site, as required.

The Consultant shall be specifically responsible for job control samples determining the acceptability of all materials and completed work items on the basis of either test results or verification of a certification, certified mill analysis, DOT label, DOT stamp, etc. The County will monitor the effectiveness of the Consultant's testing procedures through surveillance and obtaining and testing independent assurance samples.

Documentation reports on sampling and testing performed by the Consultant shall be submitted to responsible parties during the same week that the construction work is done.

The Consultant shall be responsible for transporting samples to be tested in an approved laboratory.

The Consultant will input verification testing information and data into the Consultant's database.

#### **8.5 Engineering Services:**

The Consultant shall coordinate the Construction Contract administration activities of all parties other than the Contractor involved in completing the construction project. Notwithstanding the above, the Consultant is not liable to the County for failure of such parties to follow written direction issued by the Consultant.

Services include maintaining the required level of surveillance of Contractor activities, interpreting plans, specifications, and special provisions for the Construction Contract, maintaining complete, accurate records of all activities and events relating to the project, and properly documenting all significant project changes. The Consultant shall perform the following services:

- A. Verify that the Contractor is conducting inspections, preparing reports and monitoring all storm water pollution prevention and MOT measures associated with the project. Provide at least one inspector who has successfully completed the "Florida Storm water, Erosion, and Sedimentation Control Training and Certification Program for Inspectors and Contractors".
- B. Analyze the Contractor's schedule(s) (i.e. baseline(s), revised baseline(s), updates, as-built, etc.) for compliance with the contract documents. Elements including, but not limited to, completeness, logic, durations, activity flow,

milestone dates, concurrency, resource allotment, and delays will be reviewed. Verify the schedule conforms with the construction phasing and MOT sequences, includes all contract modifications, and the Contractor's plan for completing the project within the allowed contract time is reasonable. Provide a written review of the schedule identifying significant omissions, improbable or unreasonable activity durations, errors in logic, and any other concerns.

- C. Analyze problems that arise on a project and proposals submitted by the Contractor, work to resolve such issues, and process the necessary paperwork.
- D. Monitor, inspect and document utility construction for conformance with Utility Agency's Water and Sewer Standards and the Utility Agency's Approved Materials List. Facilitate coordination and communication between Utility Agency's representatives, County's staff and contractors in execution of the work. Identify potential utility conflicts and assist in the resolution of utility issues.
- E. Produce reports, verify quantity calculations and field measure for payment purposes as needed to prevent delays in Contractor operations and to facilitate processing of such information in order for the County to make timely payment to the Contractor.
- F. Provide Public Information services as required to manage inquiries from the public, public officials, and the news media. Prepare newsletters for distribution to adjacent property owners. The County Construction Project Manager shall approve all notices, brochures, responses to news media, etc., prior to release.
- G. Video tape the pre-construction conditions throughout the project limits. Provide a digital photo log or video of project activities, with heavy emphasis on potential claim items/issues and on areas of real/potential public controversy.

The Consultant shall have a digital camera for photographic documentation of pre-construction state and of noteworthy incidents or events during construction. These photographs will be filed and maintained on the Consultant's computer.

The taking of the photographs shall begin the day prior to the start of construction and continue regularly throughout this project. Photographs shall be taken the days of Conditional, Partial and Final Acceptance.

**9.1 Personnel:**

**9.2 General Requirements:**

The Consultant shall staff the project with the qualified personnel necessary to efficiently and effectively carry out its responsibilities under this Agreement. Method of compensation for personnel assigned to this project is outlined in Exhibit "B.". To meet requirements of potential day and nighttime operations, an Inspector was provided to supplement our full time Senior Inspector. The Inspector will also provide relief for the Senior Inspector to prevent overtime costs, while maintaining appropriate field staffing.

**9.3 Personnel Qualifications:**

Considering the project's State funding, through the "FDOT Small County Road Assistance Agreement" program, Consultant personnel shall conform with FDOT requirements, holding all relevant CTQP qualifications. The Consultant shall utilize only competent personnel, qualified by experience, and education. The Consultant shall submit in writing to the Construction Project Manager the names of personnel proposed for assignment to the project. Personnel changes will require written approval from the County. Staff that has been removed shall be replaced by the Consultant within one week of County notification.

**9.4 Staffing:**

Once authorized, the Consultant shall establish and maintain an appropriate staff through the duration of construction and completion of the final estimate. Responsible personnel, thoroughly familiar with all aspects of construction and final measurements of various pay items, shall be available to resolve disputed final pay quantities until the appropriate Construction Contract has been paid off.

Construction engineering and inspection forces will be required of the Consultant while the Contractor is working.

**10.0 Offer of Final Payment:**

Consultant shall make a pre-final inspection to determine if the Project is substantially complete, and a final inspection to determine if the Project has been fully completed in substantial accordance with the Contract Documents and whether the contractor has fulfilled all of its obligations there under so that the Consultant may recommend approval, in writing, of final payment to the Contractor.

**11.0 Invoicing:**

Monthly invoices shall be submitted to the County in a format and distribution schedule defined by the County.

**12.1 Other Services:**





14<sup>th</sup> Street Improvements

August 21, 2018

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Upon written authorization by the County Project Manager, the Consultant will perform additional services in connection with the project not otherwise identified in this Agreement. The following items are not included as part of this Agreement, but may be required by the County to supplement the Consultant services under this Agreement.



- A. Assist in preparing for arbitration hearings or litigation that occurs during the Agreement time in connection with the construction project covered by this Agreement.
- B. Provide qualified engineering witnesses and exhibits for arbitration hearings or litigation in connection with this Agreement.
- C. Provide on- and off-site inspection services in addition to those provided for in this Agreement.

**13.0 Post Construction Claims Review:**

In the event the Contractor submits a claim for additional compensation and /or time after the Consultant has completed this Agreement, the Consultant shall, upon execution by the County and the Consultant of an Amendment to this Agreement providing for compensation for such services, analyze the claim, engage in negotiations leading to settlement of the claim, and prepare and process the required documentation to close out the claim. Compensation for such services will be negotiated and effected through a Supplement to this Agreement.

**14.1 Other Considerations:**

- A. Consultant will not assume responsibility for the Contractor's means, methods, techniques, sequences or procedures of construction and it is understood that field services provided by Consultant will not relieve the Contractor of his responsibilities for performing the work in accordance with the plans and specifications.
- B. The words "supervision", "inspection", or "control" are used to mean periodic observation of the work and the conducting of tests by Consultant to verify substantial compliance with the plans, specifications and design concepts.
- C. Continuous inspections by Consultant's employees do not mean that Consultant is observing placement of all materials.
- D. Full-time inspection means that an employee of Consultant has been assigned for 40 hours per week.
- E. A certification that the project was built according to the plans, specifications and relevant portions of the contract documents.
- F. All time material and manpower necessary to certify the work. IMSA inspector or others as required.

- G. Coordination with the FDOT in the field and responsibility for close out package submittal to FDOT and one original copy of the same to Nassau County.
- H. Perform as the contract administrator and collect RFI's and distribute in accordance with provisions of the contract to the owner and/or EOR as required.
- I. Recommendation and preparation of any field changes and cost analysis and concurrence with the contractor prices.
- J. Recommendation of all change orders (including weather days) and analysis and concurrence with contractor prices proposed.
- K. Bi-weekly status reports, field meetings, etc.
- L. Analysis of the QC plan for compliance (coordination with EOR as applicable)
- M. Submittal of shop drawings to EOR and County as applicable.
- N. Keep daily reports and provide to County as necessary.
- O. Review submittals, (schedule of values, project schedules)
- P. Review of As-builts for needed corrections.
- Q. Ensure the contractor is doing proper MOT, NPDES and other required reporting.
- R. Conduct pre-con meeting.
- S. Work with County and/or FDOT when appropriate to schedule and conduct inspection at substantial and Final Completion.
- T. Review and approve each pay request by Contractor (quantities and dollars) and confirm or deny for payment.
- U. Conduct a pre-pave meeting.
- V. Prepare notes and summaries of all meetings.
- W. Know the Contract and represent the County in the execution thereof.
- X. Collect and retain all asphalt, concrete and limerock "tickets".
- Y. Ensure testing is done per the contract documents. Collect and retain all test results and inform County of any issues.



14<sup>th</sup> Street Improvements  
August 21, 2018  
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Z. Inform the County when approaching plan quantities so as to not overrun pay items.

**15.0 Services Excluded:**

The Consultant shall not be responsible for the following services: performance of materials testing with the exception of asphalt plant verification testing, review of MBE participation, management of project through warranty period/claims, geotechnical services or investigations (including underdrain evaluations), engineering design services, OSHA or other Regulatory Safety Inspections, Survey or Construction Stakeout, permitting or permit fees and Asbuilt Survey and Certifications.





14<sup>th</sup> Street Improvements  
August 21, 2018  
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Exhibit "B"

Construction Engineering and Inspection  
Estimated Fee Schedule & Staffing For Man-Hours

Project Description: 14<sup>th</sup> Street Improvements

Project No.: 434588-1-54-01



Personnel Classifications	2018		2019			Construction	
	Dec	Jan	Feb	Mar	Apr	Estimated Start Date	Estimated End Date
	1	2	3	4	5		
Nassau County 14th Street Improvements	Pre	Construction			Post	07-Jan-19	07-Apr-19
						Months	Hours
Sr. Project Engineer	0.01	0.01	0.01	0.01	0.01	0.05	8
Project Administrator	0.20	0.20	0.20	0.20	0.20	1.00	165
Sr. Inspector	0.20	1.00	1.00	1.00	0.20	3.40	561
Inspector		0.20	0.20	0.20		0.60	99
CSS	0.20	0.20	0.20	0.20	0.20	1.00	165

Estimated Construction Start Jan 2019, Pre-Construction Conference Dec 2018

Estimated 70 Calendar Days to Substantial Completion + 20 Calendar Days to Final Completion

# CDM Smith



August 21, 2018  
 CEI Support  
 Nassau County 14th Street Improvements  
 Full CEI Services  
 Consultant Cost Estimate  
 FPN: 434588-1-54-01

Employee Classification	OT Allowed	Manhours	Billing Rate		Cost
Sr. Project Engineer	N	8.00	\$ 169.02	\$	1,352.16
Project Administrator	N	165.00	\$ 111.26	\$	18,357.90
Sr. Inspector	Y	561.00	\$ 98.64	\$	55,337.04
Sr. Inspector OT	Y	0.00	\$ 115.57	\$	-
Inspector	Y	88.00	\$ 71.66	\$	7,094.34
Inspector OT	Y	0.00	\$ 83.95	\$	-
CSS	Y	165.00	\$ 70.62	\$	11,635.80
Lab Testing (CSI) (Estimated)	N			\$	3,770.00
<b>TOTAL LIMITING AMOUNT</b>					<b>\$ 97,547.24</b>

**CEI Support**

1. Consultant to provide full CEI Services including Contract Administration, On-Site Inspection, LAB Testing and Compliance
2. Inspector provided to supplement full time Senior Inspector for potential day/night time operation conflicts and to mitigate overtime.
3. With respect to FDOT funding through the "Small County Roads Assistance Program" Agreement, all personnel shall hold proper CTQP qualifications.



August 21, 2018  
**Materials LAB TESTING**  
**Nassau County 14th Street Improvements**  
**Consultant Cost Estimate**  
**FPN: 434588-1-54-01**

Employee Classification	Number of Tests	Manhours	Billing Rate	Cost
Modified Proctor FM T-180	1		\$ 135.00	\$ 135.00
Standard Proctor AASHTO T-99			\$ 135.00	
Sieve Analysis			\$ 65.00	-
Organic Content Testing			\$ 37.00	-
LBR's (FM 5-515)	1		\$ 335.00	335.00
Asphalt Coring Equipment Mobilization	1		\$ 390.00	390.00
Extraction and Gradations (ASTM D-2172, ASTM C-138)	5		\$ 300.00	1,500.00
Asphalt Technician (Certified FDOT) - Plant		18.00	\$ 75.00	1,200.00
6" Asphalt Core	2		\$ 105.00	210.00
			<b>LAB TESTING LIMITING AMOUNT</b>	<b>\$ 3,770.00</b>