

WORK ORDER NUMBER 2

IRC-1707

Indian River Boulevard Resurfacing from 53rd Street to Merrill Barber Bridge

This Work Order Number 2 is entered into as of this _____ day _____, **20** pursuant to that certain Continuing Contract Agreement for Continuing Geotechnical Engineering dated December 4, 2018, renewed and amended as of December 7, 2021, collectively referred to as the "Agreement", by and between INDIAN RIVER COUNTY, a political subdivision of the State of Florida ("COUNTY") and GFA INTERNATIONAL, INC. ("CONSULTANT").

The COUNTY has selected the CONSULTANT to perform the professional services set forth on Exhibit A (Scope of Services), attached to this Work Order No. 2 and made part hereof by this reference. The professional services will be performed by the CONSULTANT for the fee schedule set forth in Exhibit A (Fee Schedule), attached to this Work Order and made a part hereof by this reference. The Consultant will perform the professional services within the timeframes more particularly set forth in Exhibit A, attached to this Work Order and made a part hereof by this reference all in accordance with the terms and provisions set forth in the Agreement. Nothing contained in any Work Order shall conflict with the terms of the Agreement and the terms of the Agreement shall be deemed to be incorporated in each individual Work Order as if fully set forth herein.

IN WITNESS WHEREOF, the parties hereto have executed this Work Order as of the date first written above.

CONSULTANT:
GFA INTERNATIONAL, INC.

**BOARD OF COUNTY COMMISSIONERS
OF INDIAN RIVER COUNTY**

By: _____

By: _____

Peter D. O'Bryan, Chairman

Title: _____

BCC Approved Date: _____

Attest: Jeffrey R. Smith, Clerk of Court and Comptroller

By: _____

Deputy Clerk

Approved: _____

Jason E. Brown, County Administrator

Approved as to form and legal sufficiency: _____

**William K. DeBraal, Deputy County
Attorney**

EXHIBIT A



**A Universal
Engineering
Sciences
Company**

Geotechnical Engineering | Construction Materials Testing and Inspections
Building Code Compliance | Environmental, Health & Safety | Facilities Consulting

LOCATIONS

Atlanta, GA	Hagerstown, MD	Pensacola, FL
Buford, GA	Irvine, CA	Port St. Lucie, FL
Chantilly, VA	Jacksonville, FL	Reno, NV
Charlotte, NC	Kennesaw, GA	Rockledge, FL
Clewiston, FL	Las Vegas, NV	Sarasota, FL
Daytona, FL	Miami, FL	St. Petersburg, FL
Delray Beach, FL	Ocala, FL	Tampa, FL
Douglasville, GA	Orlando, FL	Tifton, GA
Fort Myers, FL	Palm Coast, FL	West Palm Beach, FL
Fort Pierce, FL	Panama City, FL	
Gainesville, FL	Pelham, AL	

October 24, 2022

Richard Reichenbach, P.E.
Indian River County
1801 27th Street, Building 'A'
Vero Beach, Florida 32960
Phone: (772) 226-4340
Email: rreichenbach@ircgov.com

**RE: Proposal for Testing Services
Indian River Boulevard Resurfacing - IRC-1707 FM No. 441919-1-54-01
53rd Street to The Merrill Barber Bridge, Vero Beach, FL 32967
Proposal No. 18-7910.02 REVISED 3**

Dear Richard:

GFA International, Inc. (GFA) appreciates the opportunity to become a part of your project team. Our team of professionals are dedicated to making this project a success, both on schedule and within budget. We are proud of our commitment to maintaining the highest levels of customer service and client satisfaction, and respectfully submit the following for your consideration.

PROJECT DESCRIPTION

GFA understands that the project will consist of approximately 16,300 linear feet of roadway resurfacing along Indian River Boulevard, located in Vero Beach, Indian River County, Florida. Documents provided to UES were civil plans by Indian River County Department of Public Works, sealed May 13, 2022.

SCOPE OF SERVICES

GFA anticipates that the following services will be required for this project:

1. Construction Materials Testing

1. CONSTRUCTION MATERIALS TESTING

The services described herein will be performed as required by the construction documents and local jurisdictions. Please note that the overall cost of construction quality control programs is dependent upon the contractor's scheduling, weather and other factors beyond our control. In general, the scope of services will consist of the following:

1.1 Laboratory Soil Testing

Laboratory soil testing will be required to identify the properties and suitability of the soil to be used at the site. Proctor tests will be required to obtain material's maximum density and optimum moisture content, which would be used to verify that the degree of compaction in the field is achieved.

1.2 Field Density/Moisture Testing

GFA will provide a field technician to test the in-place density of the compacted fills. For this testing, GFA will use the Nuclear Method (ASTM D6938) in the field, which will be correlated with the corresponding laboratory proctor compaction tests.

1.3 Cast-in-Place Concrete

GFA will provide testing of the concrete delivered to the site. In accordance with the project specifications, the technician will mold a set of five compression cylinders per ASTM C-31 for every 50 cubic yards or fraction thereof placed per day. GFA will also determine the slump and temperature of the concrete each time a set of cylinders are cast

The cylinders will be cured in the laboratory, with one cylinder tested at seven days and three at 28 days. GFA can also assist in evaluating mix submittals and provide laboratory verifications, if necessary, although fees for this service are not included herein.

1.4 Schedule of Fees

The actual cost of our services will be highly dependent on the construction schedule. As we have not been provided with a precise construction schedule, it is not possible to make a precise estimate of the manpower and testing requirements. Therefore, GFA proposes to provide its services on a unit cost basis; based on the actual work performed and the unit fees shown on the attached Schedule of Fees. For your budget purposes, GFA has estimated quantities for these services based upon the anticipated scope of work.

GFA proposes the following estimated budget:

Description	Rate	Est. Qty.	Estimated Total
Pavement Area Soils			
Stabilized Subgrade Density - Pavement*	\$25.00 Each	56	\$1,400.00
Base Density*	\$25.00 Each	56	\$1,400.00
Back Scatter Asphalt Density*	\$25.00 Each	56	\$1,400.00
Asphalt Testing			
Box Samples Extraction Gradation Test	\$200.00 Each	16	\$3,200.00
Asphalt Cores for Density and Thickness	\$85.00 Each	16	\$1,360.00
Sampling Hot Asphalt At time Of Placement 16 Visits/2 hrs/Visit	\$63.00 Hour	32	\$2,016.00
Asphalt Lab Monitoring - Plant One Inspector	\$70.00 Hour	10	\$700.00
Laboratory Testing			
Stabilized Subgrade Limerock Bearing Ratio (LBR)	\$320.00 Each	28	\$8,960.00
Underground Utilities Below Pavement			
Fiber Optic Cable Backfill Density*	\$25.00 Each	160	\$4,000.00
Engineering Review of Test Results			
Review of Test Results by Professional Engineer	\$150.00 Hour	10	\$1,500.00
Technician Time			
Technician Time	\$63.00 Hour	52	\$3,276.00
Technician Time for Asphalt Temperature Monitoring	\$63.00 Hour	40	\$2,520.00
Project Manager / Quality Control Manager	\$130.00 Hour	6	\$780.00
Clerical	\$50.00 Hour	4	\$200.00
Full-Time Monitoring of Backfill (If Needed)	\$63.00 Hour		TBD
ESTIMATED TOTAL:			\$32,712.00

* Minimum 4 tests per trip and/or hour

** Minimum 1 set per trip and/or hour

GFA International will only invoice for actual services performed, potentially resulting in a lower final cost.

Billing will be for actual tests performed per the unit fee schedules presented above. The above unit rates and/or hourly rates do not include any overtime work. Overtime work (scheduled for before 7:00am or going past 4:00pm Monday through Friday, more than 8 hours in one day, more than 40 hours in one week, or anytime on Saturdays, Sundays, or Holidays), will be charged at the standard rate times 1.5. Technician Time will be charged in the event that the Contractor's work is not ready for testing/inspection upon arrival of GFA's representative, or if our minimum testing frequencies specified herein cannot be achieved.

A typed report signed and sealed by a State of Florida Registered Professional Engineer will be provided. In accordance with Florida Statutes Chapter 471 and the rules of the Florida Board of Professional Engineers (Chapter 61G15), a Professional Engineer is required to perform a thorough review of each report before affixing his/her seal and signing for certification for each report's validity.

CONDITIONS AND QUALIFICATIONS

Please note that GFA's services do not include supervision or direction of the actual work. Also, be aware that neither the presence of our field representative nor the observation and testing by our firm shall imply GFA's responsibility for defects discovered in the construction work. It is understood that GFA will not be responsible for job or site safety on this project. Job site safety will be the sole responsibility of the contractor.

In this proposal the words "inspection" and "verify" are used to mean observation of the work and the conducting of tests by GFA to determine substantial compliance with plans, specifications and design concepts.

These services include an engineering technician or inspector, field sampling, travel, test equipment and a typed report signed and sealed by a State of Florida Registered Professional Engineer. The rates for professional engineering services apply to report review, site visits and meetings, consultations, engineering letters, and letters of intent and certification.

The overall cost of construction quality control programs is dependent upon the contractor's scheduling, weather and other factors beyond our control. However, you will only be invoiced for services rendered. Hourly rates will be charged in whole hour increments with fractions of an hour rounded up to the next full hour. All hourly labor rates are portal to portal.

AUTHORIZATION

All services will be conducted in accordance with this proposal and attached Terms and Conditions. To initiate services, please complete and return the included Proposal Acceptance Agreement form. The Terms and Conditions are part of this agreement. **The signed proposal acceptance agreement form must be received by GFA via fax or email prior to any work being performed, and an original copy must be received before completed reports can be distributed.**

CLOSING

GFA appreciates the opportunity to submit this proposal and looks forward to working with you as a member of the project team. Please contact the undersigned at 561.347.0070 if you have any questions or comments.

From our team to yours,

GFA International, Inc.
CA#4930



Antonio Torres
Business Development



Karla Gabay
Business Manager



Thomas Montano, P.E.
Branch Manager