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CONTRACT MANAGEMENT

WORK AUTHORIZATION # CM1430-WA01  
NASSAU COUNTY 2012 JAN 12 PM 12:49  
BOARD OF COUNTY COMMISSIONERS  
RFQ/BID NO. NC08-016

<b>Consultant:</b>	Nodarse & Associates, Inc. a Terracon Company
<b>Contract Number:</b>	CM1430
<b>Contact Name:</b>	John B. Kimberly IV, P.E.
<b>Contact Number:</b>	904-296-0331
<b>Email:</b>	jbkimberly@terracon.com

CURRENT WORK AUTHORIZATION			
<b>Project Short Title: Geotechnical Exploration for the Loop Road Phase I Project</b>			
		CONTRACT OVERVIEW	
<b>Date Submitted</b>	01/05/2012	<b>Total of Previous Authorizations</b>	\$0.00
<b>Amount</b>	\$7,946.14	<b>This Work Authorization</b>	\$7,946.14
<b>Scheduled Completion</b>	2 Weeks from NTP	<b>Current Contract Total</b>	\$7,946.14

This Work Authorization is to the AGREEMENT between Nassau County and the Consultant known as the Continuing Contract for Professional Engineering Services for Nassau County, Florida, dated May 13, 2009. The services to be provided under this Work Authorization are as follows:

ARTICLE 1. Services Described as:

Nodarse & Associates, Inc., a Terracon Company (Nodarse) shall provide geotechnical engineering services for the proposed new roadway alignment of Loop Road Phase 1 between Christian Way and License Road in Nassau County, Florida pursuant to the proposal dated January 5, 2012, attached hereto as Attachment A.

ARTICLE 2. Time Schedule

Nodarse will generally begin the field exploration program within a few days after receipt of written notice to proceed, pending utility clearance and weather conditions. The geotechnical report is estimated to be completed within one to two weeks after the soil borings are completed.

ARTICLE 3. Budget

The estimated total fees are \$7,946.44, as detailed in the attached fee estimate, attached hereto as Attachment B.

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12 JAN 12 PM 3:08  
COUNTY COMMISSIONERS  
OFFICE

Article 4. Other Provisions

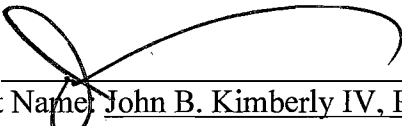
The Services covered by this Work Authorization will be performed in accordance with the provisions set forth in the AGREEMENT referenced above and any of its attachments or schedules. This Work Authorization will become a part of the referenced AGREEMENT when executed by both parties.

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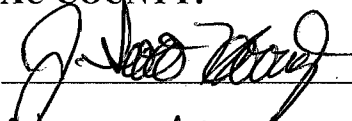


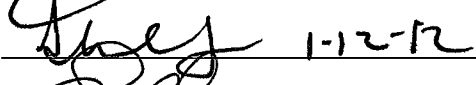

In presenting this Work Authorization, Consultant agrees that:

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 is attached.

AGREED TO BY:

BY:   
Print Name: John B. Kimberly IV, PE  
Title: Principal/Regional Manager  
Date: January 11, 2012

**RECOMMENDED AND APPROVED BY NASSAU COUNTY:**

Project Manager :   
Contract Manager :   
County Attorney:   
Director of Office of Management & Budget:  1-12-12  
County ~~Coordinator~~ <sup>MANAGER</sup>  1/12/12  
(as designee for the Nassau County Board of County Commissioners)

APPROVED by the BOARD OF COUNTY COMMISSIONERS, or designee, the 12<sup>th</sup> day of January, 2012.

January 5, 2012

Nassau County Engineering Services  
 96161 Nassau Place  
 Yulee, FL 32097



Attn: Mr. Jonathan Page, P.E.

Re: Proposal for Geotechnical Engineering Services  
 Loop Road Phase I  
 Nassau County, Florida  
 N&A Proposal No. PEQ120003

Dear Mr. Page:

Nodarse & Associates, Inc., a Terracon Company (N&A) appreciates the opportunity to submit this proposal to provide geotechnical engineering services for the above referenced project. The purpose of these services will be to provide Geotechnical Recommendations for the proposed new roadway alignment of Loop Road Phase I between Christian Way and License Road in Nassau County, Florida. Based on correspondence with Mr. Nick Gillette, P.E. and the exhibits presented to us, this proposal outlines our understanding of the project and scope of services and provides an estimated fee for our services.

## A. PROJECT INFORMATION

### Site Location

ITEM	DESCRIPTION
Location	Site is located south of SR200 (A1A) between Christian Way and License Road in Nassau County, Florida.
Current Ground Cover	Trees and vegetation.
Existing Topography	Based on our review of available information, the site is relatively flat, with approximately 5 feet of relief.

### Project Description

ITEM	DESCRIPTION
Proposed Services	Geotechnical subsurface exploration for the proposed new roadway, along with pavement coring of the 2 adjacent roadways.

Nodarse & Associates, A Terracon Company 6950 Phillips Highway - Suite 2 Jacksonville, Florida 32216

P [904] 296 0331 F [904] 296 0332 nodarse.com terracon.com

## SCOPE OF SERVICES

### GEOTECHNICAL SERVICES:

The services to be provided by N&A are summarized in the following paragraphs.

Field Program – We propose to explore the area of the proposed new roadway alignment with seven (7) Standard Penetration Test (SPT) borings to a depth of approximately 15 feet each; and 6 auger borings to a depth of approximately 5 feet each. Additionally, along the two existing paved roadways, Christian Way and License Road, we propose a total of 8 pavement cores and auger borings to a depth of approximately 5 feet each. Borings may be offset as necessary to avoid structures, trees, or other obstacles onsite. Sampling of the borings will be in general accordance with industry standard procedures. In addition, N&A personnel will observe and record groundwater levels during drilling. Once the samples have been collected and classified in the field, they will be placed in appropriate sample containers for transport to our laboratory.

Conditions/Items to be provided by Client: Items to be provided by the client include the right of entry to the property to conduct the exploration and an awareness and/or location of any private subsurface utilities existing in the area. N&A will contact Sunshine State One Call of Florida (SSOCOF) for location of utilities in public easements. Location of private lines on the property is not part of the SSOCOF or N&A scope. All private lines should be marked by others prior to commencement of drilling.

Our fee is based on the site being accessible to ATV drilling equipment. We have assumed some minimal clearing will be required to access the boring locations along the new alignment. This minimal clearing may include cutting small trees. This proposal assumes our personnel have the right to perform necessary clearing and does not include provisions for restoring the site to its original condition. This proposal assumes the centerline of the proposed alignment will be staked by others prior to our mobilization. We have assumed the pavement coring operations will require minimal Maintenance of Traffic (signs and cones) but will not require full lane closures. The borings will be backfilled upon completion. Excess soil cuttings would be disposed of on the site.

Laboratory Index Testing – Select samples will be tested in our laboratory to aid in determining physical engineering characteristics. Testing will be performed under the direction of a geotechnical engineer and will include visual classification; and may include moisture content, grain size analysis, Atterberg Limits, and/or organic content tests, as deemed appropriate by the geotechnical engineer.

Proposal for Geotechnical Engineering Services  
Loop Road Phase I in Nassau County, Florida  
January 5, 2012 in N&A Proposal No. PEQ120003



Geotechnical Engineering Analysis and Report – Based on the results of our field exploration and index testing, the report will contain the results of our findings and will include the following:

- Existing site conditions.
- Exploration, testing, and sampling methods.
- Subsurface soil conditions encountered and soil classifications.
- Laboratory index test results.
- Geotechnical recommendations for roadway construction.
- Asphalt core and base thickness.
- A Roadway Soil Survey Report of Tests for use in the Plans.

Schedule – We can generally begin the field exploration program within a few days after receipt of written notice to proceed, pending utility clearance and weather conditions. We estimate the geotechnical report can be completed within one to two weeks after the soil borings are completed. In situations where information is needed prior to submittal of our report, we can provide verbal information for specific project requirements after we have completed our field and laboratory programs.

## **B. COMPENSATION**

For the scope of geotechnical services outlined in this proposal, the estimated total fees would be \$7,946.44, as detailed in the attached fee estimate. Please note the rates are in accordance with our current Nassau County Contract.

## **C. AUTHORIZATION**

This proposal may be accepted by executing a Work Authorization. We appreciate the opportunity to provide this proposal and look forward to the opportunity of working with you.

Sincerely,  
Nodarse & Associates, Inc., a Terracon Company



John B. Kimberly IV, P.E.  
Principal/Regional Manager

Attachments: Fee Estimate

FEE ESTIMATE LOOP ROAD PHASE I NASSAU COUNTY				
DESCRIPTION OF WORK	QTY.	RATE	UNIT	AMOUNT
<b>I. FIELD EXPLORATION</b>				
Mudbug/ATV Mobilization	1	\$500.00	each	\$ 500.00
SPT - 0-50 Ft	105	\$12.50	L/F	\$ 1,312.50
Auger Borings	70	\$10.00	L/F	\$ 700.00
Pavement Coring Equipment Mobilization	1	\$500.00	each	\$ 500.00
Senior Engineering Technician	16	\$80.13	per hour	\$ 1,282.08
(2 personnel to perform pavement coring in lieu of the \$300 per core contract rate)				
<b>II. LABORATORY TESTING</b>				
Full Grad Grain Analysis	8	\$75.00	per test	\$ 600.00
Plastic Limit	4	\$40.00	per test	\$ 160.00
Liquid Limit	4	\$40.00	per test	\$ 160.00
Natural Moisture	8	\$15.00	per test	\$ 120.00
Organic Content	4	\$40.00	per test	\$ 160.00
<b>III. PROFESSIONAL SERVICES</b>				
Senior Engineer	2	\$208.29	per hour	\$ 416.58
Engineering Intern	12	\$96.32	per hour	\$ 1,155.84
CADD/Computer Technician	8	\$92.27	per hour	\$ 738.16
Secretary/Clerical	2	\$70.49	per hour	\$ 140.98
	24			
<b>TOTAL</b>				<b>\$ 7,946.14</b>