

**AGREEMENT FOR PROFESSIONAL ENGINEERING DESIGN SERVICES
FOR WILLIAM BURGESS EXTENSION
FOR NASSAU COUNTY, FLORIDA**

THIS AGREEMENT made and entered into this 9th day of December 2019, by and between the **NASSAU COUNTY BOARD OF COUNTY COMMISSIONERS**, a political subdivision of the State of Florida, hereinafter referred to as "County", and **GAI CONSULTANTS, INC.**, a Pennsylvania Profit Corporation, whose Jacksonville, Florida office address is located at 1301 Riverplace Blvd., Suite 900 Jacksonville, FL 32207, hereinafter referred to as "Consultant":

WHEREAS, the County desires to obtain professional engineering design services for the design of William Burgess Extension; and

WHEREAS, said services are more fully described in the *Scope of Services*, Attachment "A", which is attached hereto and made a part hereof; and

WHEREAS, the Consultant desires to render certain professional engineering design services as described in the *Scope of Services*, and has the qualifications, experience, staff and resources to perform those services; and

WHEREAS, the County, through a competitive selection process conducted in accordance with the requirements of law and County policy has determined that it would be in the best interest of the County to award a contract to Consultant for the rendering of those services described in the *Scope of Services*.

NOW THEREFORE, in consideration of the mutual covenants and agreements hereinafter contained, the parties hereto agree as follows:

ARTICLE 1 - EMPLOYMENT OF CONSULTANT

1.1 The County hereby agrees to engage Consultant, and Consultant hereby agrees to perform the services set forth in the *Scope of Services*.

ARTICLE 2 - SCOPE OF SERVICES

2.1 Consultant shall provide professional engineering design services in accordance with the *Scope of Services* and any additional services as may be specifically designated and additionally authorized by the parties. Such additional authorizations will be in the form of an written amendment agreed upon by the parties.

ARTICLE 3 - THE COUNTY'S RESPONSIBILITY

3.1 Except as provided in the *Scope of Service*, the County's responsibilities are to furnish required information, services, render approvals and decisions as necessary for the orderly progress of Consultant's services. The County hereby designates Engineering Services to act on the County's behalf with respect to the Scope of Services. The County Engineer, under the supervision of the County Manager, shall have complete authority to transmit instructions, receive information, interpret and define County's policies and decisions with respect to materials, elements and systems pertinent to Consultant's services.

ARTICLE 4 - TERM OF AGREEMENT

4.1 The term of this Agreement shall begin on its complete execution and end eighteen (18) months from the execution date. The performance period of this Agreement may be extended upon mutual agreement between both parties. Any extension of performance period under this provision shall be in the County's best interest and sole discretion. Any Agreement or amendment to the Agreement shall be subject to fund availability and mutual written agreement between the County and Consultant.

ARTICLE 5 - COMPENSATION

5.1 The County shall pay Consultant in accordance with the provisions contained in the "Contract Fee Summary", which is attached hereto as Attachment "B", and incorporated herein as if set forth in full.

5.2 Consultant shall prepare and submit to the County Engineer, for approval, a monthly invoice for the services rendered under this Agreement. Invoices for services shall be paid in accordance with the Florida Prompt Payment Act. All invoices shall be accompanied by a report identifying the nature and progress of the work performed. The statement shall show a summary of fees with an accrual of the total fees billed and credits for portions paid previously. The County reserves the right to withhold payment to Consultant for failure to perform the work in accordance with the provisions of this Agreement, and the County shall promptly notify Consultant if any invoice or report is found to be unacceptable and will specify the reasons therefor.

5.3 All representation, indemnifications, warranties and guaranties made in, required by or given in accordance with this Agreement, as well as all continuing obligations indicated in this Agreement, will survive final payment and termination or completion of this Agreement.

5.4 Final Invoice: In order for both parties herein to close their books and records, the Consultant will clearly state "Final Invoice" on the Consultant's final/last billing to the County. This indicates that all services have been performed and all charges and costs have been invoiced to the County and that there is no further work to be performed on the specific project.

ARTICLE 6 - STANDARD OF CARE

6.1 Consultant shall exercise the same degree of care, skill, and diligence in the performance of the Services as is ordinarily provided by a professional under similar circumstances and Consultant shall, at no additional cost to the County, re-perform services which fail to satisfy the foregoing standard of care.

ARTICLE 7 - DOCUMENTS

7.1 The documents which comprise this Agreement between the County and the Consultant are attached hereto and made a part hereof and consist of the following:

7.2 This Agreement;

7.3 The Scope of Services attached hereto Attachment "A";

7.4 Contract Fee Summary attached hereto as Attachment "B";

7.5 Any work authorizations, written amendments, modifications or addenda to this Agreement.

ARTICLE 8 - EQUAL OPPORTUNITY EMPLOYMENT

8.1 In connection with the work to be performed under this Agreement, Consultant agrees to comply with the applicable provisions of State and Federal Equal Employment Opportunity statutes and regulations.

ARTICLE 9 - TRUTH-IN-NEGOTIATION/PUBLIC ENTITY CRIMES AFFIDAVIT

9.1 Consultant certifies that wage rates and other factual unit costs supporting the compensation are accurate, complete, and current at the time of contracting. The original contract price and any additions thereto shall be adjusted to exclude any significant sums by which the county determines the contract price was increased due to inaccurate, incomplete, or non-current wage rates and other factual unit costs.

Consultant represents that it has furnished a Public Entity Crimes Affidavit pursuant to Section 287.133, Florida Statutes.

ARTICLE 10 - INDEMNIFICATION

10.1 Consultant shall indemnify and hold harmless the County and its officers and employees from liabilities, damages, losses, and costs, including but not limited to, reasonable attorneys' fees, to the extent caused by the negligence, recklessness, or intentionally wrongful conduct of the Consultant and other persons employed or utilized by the consultant, in the performance of the contract.

10.2 Disclaimer of Consequential Damages – Notwithstanding anything to the contrary in these Terms and Conditions, neither party shall have any liability to the other party for indirect, consequential or special damages including, but not limited to, liability or damages for delays of any nature, loss of anticipated revenues or profits, increased cost of operations or costs of shutdown or startup whether such damages are based on contract, tort including negligence, strict liability or otherwise.

ARTICLE 11 - INDEPENDENT CONTRACTOR

11.1 Consultant undertakes performance of the services as an independent contractor under this Agreement and shall be wholly responsible for the methods of performance. The County shall have no right to supervise the methods used, but the County shall have the right to observe such performance. Consultant shall work closely with the County in performing services under this Agreement.

ARTICLE 12 – EXTENT OF AGREEMENT

12.1 This Agreement represents the entire and integrated agreement between the County and Consultant and supersedes all prior negotiations, representations, or agreement, either written or oral.

12.2 This Agreement may only be amended, supplemented, modified, changed

or canceled by a duly executed written instrument.

ARTICLE 13 - COMPLIANCE WITH LAWS

13.1 In performance of the services, Consultant will comply with applicable regulatory requirements including federal, state, and local laws, rules regulations, orders, codes, criteria and standards.

ARTICLE 14 - INSURANCE

14.1 The Consultant shall purchase and maintain such commercial (occurrence form) or comprehensive general liability, workers compensation, professional liability, and other insurance as is appropriate for the services being performed hereunder by Consultant, its employees or agents. The amounts and types of insurance shall conform to the requirements set forth in Exhibit "1".

ARTICLE 15 – ACCESS TO PREMISES

15.1 The County shall be responsible for providing access to all project sites, and for providing project-specific information.

ARTICLE 16 - TERMINATION OF AGREEMENT

16.1 Termination for Convenience: This Agreement may be terminated by the County for convenience, upon thirty (30) days of written notice to Consultant. In such event, the Consultant shall be paid its compensation for services performed prior to the termination date. In the event that the Consultant abandons this Agreement or causes it to be terminated, Consultant is liable to the County for any and all loss pertaining to this termination.

16.2 Default by Consultant: In addition to all other remedies available to the County, the County may terminate this Agreement for cause should the Consultant neglect, fail to perform, or observe any of the terms, provisions, conditions, or requirements herein contained. Prior to termination the County shall provide written

notice of the specific conditions warranting default, and the County shall allow thirty (30) days for Consultant to cure.

ARTICLE 17 - NONDISCLOSURE OF PROPRIETARY INFORMATION

17.1 Consultant shall consider all information provided by County and all reports, studies, calculations, and other documentation resulting from the Consultant's performance of the Services to be proprietary unless such information is available from public sources. Consultant shall not publish or disclose proprietary information for any purpose other than the performance of the services without the prior written authorization of County or in response to legal process.

ARTICLE 18 - UNCONTROLLABLE FORCES

18.1 Neither the County nor Consultant shall be considered to be in default of this Agreement if delays in or failure of performance shall be due to Uncontrollable Forces, the effect of which, by the exercise of reasonable diligence, the non-performing party could not avoid. The term "Uncontrollable Forces" shall mean any event which results in the prevention or delay of performance by a party of its obligations under this Agreement and which is beyond the reasonable control of the nonperforming party. It includes, but is not limited to fire, flood, earthquakes, storms, lightning, epidemic, war, riot, civil disturbance, sabotage, and governmental actions.

18.2 Neither party shall, however, be excused from performance if nonperformance is due to forces, which are preventable, removable, or remediable, and which the nonperforming party could have, with the exercise of reasonable diligence, prevented, removed, or remedied with reasonable dispatch. The nonperforming party shall, within a reasonable time of being prevented or delayed from performance by an uncontrollable force, give written notice to the other party describing the circumstances and uncontrollable forces preventing continued performance of the obligations of this

Agreement.

ARTICLE 19 - GOVERNING LAW AND VENUE

19.1 This Agreement shall be governed by the laws of the State of Florida. Any and all legal action necessary to enforce the Agreement will be held in Nassau County.

ARTICLE 20 - MISCELLANEOUS

20.1 Non-waiver: A waiver by either County or Consultant of any breach of this Agreement shall not be binding upon the waiving party unless such waiver is in writing. In the event of a written waiver, such a waiver shall not affect the waiving party's rights with respect to any other or further breach. The making or acceptance of a payment by either party with knowledge of the existence of a default or breach shall not operate or be construed to operate as a waiver of any subsequent default or breach.

20.2 Severability: Any provision in this Agreement that is prohibited or unenforceable in any jurisdiction shall, as to such jurisdiction, be ineffective to the extent of such prohibition or unenforceability without invalidating the remaining provisions hereof or affecting the validity or enforceability of such provisions in any other jurisdiction. The non-enforcement of any provision by either party shall not constitute a waiver of that provision nor shall it affect the enforceability of that provision or of the remainder of this Agreement.

20.3 PUBLIC RECORDS:

The County is a public agency subject to Chapter 119, Florida Statutes. IF THE CONSULTANT HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONSULTANT'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT (904) 530-6250, DMOODY@NASSAUCOUNTYFL.COM, 96161 NASSAU PLACE, YULEE, FLORIDA 32097. Under this Agreement, to the extent that the Consultant is providing services to the County, and pursuant to section 119.0701, Florida Statutes, the Consultant shall:

- a. Keep and maintain public records required by the public agency to perform the service.
- b. Upon request from the public agency's custodian of public records, provide the public agency with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in this chapter or as otherwise provided by law.
- c. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of the Agreement if the consultant does not transfer the records to the public agency.
- d. Upon completion of the Agreement, transfer, at no cost, to the public agency all public records in possession of the contractor or keep and maintain public records required by the public agency to perform the service. If the Consultant transfers all public records to the public agency upon completion of the Agreement, the Consultant shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Consultant keeps and maintains public records upon completion of the Agreement, the Consultant shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the public agency, upon request from the public agency's custodian of public records, in a format that is compatible with the information technology systems of the public agency.

20.4 The provisions of this section shall not prevent the entire Agreement from being void should a provision, which is of the essence of the Agreement, be determined to be void.

ARTICLE 21 - SUCCESSORS AND ASSIGNS

21.1 The County and Consultant each binds itself and its director, officers, partners, successors, executors, administrators, assigns and legal representatives to the other party to this Agreement and to the partners, successors, executors, administrators, assigns, and legal representatives.

ARTICLE 22 - CONTINGENT FEES

22.1 The Consultant warrants that it has not employed or retained any company or person, other than a bona fide employee working solely for the Consultant to solicit or secure this Agreement and that it has not paid or agreed to pay any person, company, corporation, individual or firm, other than a bona fide employee working solely for the Consultant, any fee, commission, percentage, gift or any other consideration contingent upon or resulting from the award or making of this Agreement.

ARTICLE 23 - OWNERSHIP OF DOCUMENTS

23.1 Consultant shall be required to work in harmony with other consultants relative to providing information requested in a timely manner and in the specified form. Any and all documents, records, disks, original drawings, or other information shall become the property of the County upon completion for its use and distribution as may be deemed appropriate by the County. Any reuse of the work product described above without written verification or adaptation by Consultant, as appropriate for the specific purpose intended, will be at County's sole risk and without liability or legal exposure to Consultant.

ARTICLE 24 - FUNDING

24.1 This Agreement shall remain in full force and effect only as long as the expenditures provided for in the Agreement have been appropriated by the Nassau County Board of County Commissioners in the annual budget for each fiscal year of this Agreement and is subject to termination based on lack of funding.

ARTICLE 25 - NOTICE

25.1 Whenever either party desires or is required under this Agreement to give notice to any other party, it must be given by written notice either delivered in person, sent by U.S. Certified Mail, U.S. Express Mail, air or ground courier services, or by messenger service, as follows:

COUNTY:

Nassau County Contract Management
96135 Nassau Place, Suite 2
Yulee, Florida 32097
904-530-6040
ghagins@nassaucountyfl.com

With a copy to the County Attorney at:

96135 Nassau Place, Suite 6
Yulee, Florida 32097

CONSULTANT:

Ron Hoogland, P.E.
GAI Consultants, Inc.
1301 Riverplace Blvd.
Jacksonville, FL 32207
904-363-1110
r.hoogland@gaiconsultants.com

25.2 Notices shall be effective when received at the address specified above. Changes in the respective addresses to which such notice may be directed may be made from time to time by any party by written notice to the other party. Email and facsimile are acceptable notice effective when received, however, notices received (i.e.; printed) after 5:00 p.m. or on weekends or holidays, will be deemed received on the next business day. The original of the notice must additionally be mailed as required herein.

25.3 Nothing contained in this Article shall be construed to restrict the transmission of routine communications between representatives of Consultant and County.

ARTICLE 26-DISPUTE RESOLUTION

26.1 The County may utilize this section, at their discretion, as to disputes regarding agreement interpretation. The County may send a written communication to the Consultant by email, overnight mail, UPS, FedEx, or certified mail. The written

notification shall set forth the County's interpretation of the agreement. A response shall be provided in the same manner prior to the initial meeting with the County Manager. This initial meeting shall take place no more than twenty (20) days from the written notification of the dispute addressed to the Consultant. The Consultant should have a representative, at the meeting that can render a decision on behalf of the Consultant.

If there is no satisfactory resolution as to the interpretation of the Agreement, the dispute may be submitted to mediation in accordance with mediation rules as established by the Florida Supreme Court. Mediators shall be chosen by the County and the cost of mediation shall be borne by the Consultant. Consultant shall not stop work during the pendency of mediation or dispute resolution.

Personal Liability of Personnel Disclaimer—Pursuant to Florida Statutes §§558.0035, (Supp. 2013) to the fullest extent permitted by law, CLIENT agrees that pursuant to Section (c) an individual employee or agent may not be held personally liable for negligence.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the day
and year first written above.

**Nassau County,
Board of County Commissioners**


Justin M. Taylor
Its: Chair

Date: December 9, 2019

ATTEST TO CHAIR
SIGNATURE


JOHN A. CRAWFORD
Its: Ex-Officio Clerk

MES
12-10-19

Approved as to form and legal
sufficiency:


MICHAEL MULLIN



November 18, 2019

Mr. Robert Companion, PE
County Engineer
Nassau County Engineering Services
96161 Nassau Place
Yulee, FL 32097

Subject: Bid No. NC19-016 Design Services for the William Burgess Extension

Dear Mr. Companion,

GAI Consultants, Inc. (GAI) respectfully submits the following Scope of Services and Fee Proposal to complete the Design Services for the William Burgess Extension (WBE) in Nassau County, Fl., as described in the RFQ and as detailed below.

Project Understanding

Based on the RFQ, the project will create a two (2) lane extension of William Burgess Boulevard (WBB) from US Highway 17 (US 17) to Miner Road and include the following: Signalization and improvements at the intersection of US 17, intersection improvements at the intersection of Miner Rd., Construction of approximately 1.5 miles of new roadway, construction of drainage facilities and construction of a new 8 ft to 10 ft wide multi-use path. It is also noted that the WBE is being partially funded by the Florida Department of Transportation (FDOT) and will require a separate (or component) set of plans and specifications so that design, construction and construction engineering and inspection (CEI) costs can be accounted for appropriately.

The RFQ further defines the "Scope of Project" under Section 2.0 and subsections 2.1 through 2.8. To better define the details requested, GAI attended a Scope of services meeting on November 6th with Nassau County (County) to review the anticipated consulting services for initial contract negotiations. In this meeting, it was agreed that under subsection 2.8 of the Scope of Services, Post design services would not be included in the initial proposal, however, it can be added later by a change order once the level of work and project complexities are better understood.

Scope of Work

This consulting services are for the engineering, design, permitting and bid documents to construct the William Burgess Extension project described above. GAI will provide the following services:

Task 1 – Project Management, Meetings and Coordination

GAI will provide project management and coordination with the County, FDOT and utility stakeholders through the duration of the project. The following tasks are included:

- Kick-off meeting, progress meetings, Field meetings and project reviews.
- Progress Reports to be included with monthly invoices.
- Contract Administration
- Assist the County with one open house public information meeting. Provide project board displays and power point.

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- Utility Coordination to include a field meeting with each utility and then formal meeting with all utilities after the 60% plan submittal. GAI will create a conflict utility matrix to use for utility work schedules. The Utility work schedules signed by the respective utilities will be included in the contract specifications. Utilities anticipated within the project limits include JEA, AT&T, Comcast, Broadband CTI and Peninsula Gas Co.
- An FDOT permit submittal will be required for work impacting the US 17 intersection. GAI will meet with FDOT prior to plan submittal to review intended permit requirements and then submit for a permit using the 60% progress plans. Approved permit will be included in the contract specifications.
- The County is currently coordinating some of the ROW acquisitions in advance, primarily with the Hideaway Development. GAI is not anticipating ROW change at this location. GAI will assist the County with investigations for the remaining parcels that will affect the JEA and Yulee School. It is anticipated that the parcels will include two ponds and the corridor width along these two properties. GAI will assist the County with FDOT coordination on ROW as needed.

Task 2 – Concept Refinement

The objective of this task is to refine the concept alignment to verify ROW requirements:

- Data Collection: Collect existing plans from the County, FDOT, St. Johns River Water Management District (SJRWMD) and existing utilities.
- Establish roadway typical sections for approval.
- Roadway 15% line and grade determined from approved typical sections and survey.
- Preliminary Cross Sections
- Provide preliminary drainage design requirements (pond locations and anticipated conveyance).
- Provide an estimated ROW corridor and boundary width.
- Provide an engineer's estimate of concept developed to date.
- Signing and Marking Concept plan.
- Route and Topographic Survey for proposed alignment as defined below.
- Geotechnical Borings and Engineering Report for the new alignment as detailed below.
- Environmental Assessments as detailed below.
- GAI will conduct a preapplication meeting with SJRWMD on the proposed alignment.
- Subsequent to performing the next stage in design, GAI to obtain consensus from the County on the 15% line and grade plan. The summary of findings will serve as the basis for final engineering.

Task 3 – Engineering, Permitting, Costs, Plan Production and Specifications

GAI will progress plans to the 60%, 90%, and 100% phase. Upon the conclusion of each phase, a progress set of plans will be provided. All reports, calculations and plan submittal will go through the GAI QaQc process. All engineering design tasks will be developed in accordance with the Nassau County, then Florida Greenbook and then Florida Department of Transportation (FDOT) standards and requirements in that order. Understanding that the County is receiving partial funding from the FDOT,

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those relevant items associated with FDOT criteria will be followed (i.e. ROW mapping, and Environmental Clearances).

The following list of plans sheets is anticipated but is not limited to:

- Key Sheet
- Roadway typical sections and pavement design (Nassau County standard). Note: Four typical urban roadway sections are anticipated. Prepare typical for US17 to show future FDOT widening template and match existing pavement thickness per geotechnical cores (reference straight line diagram)
- General Notes
- Drainage Map
- Summary of Drainage Structures
- Project Layout
- Plan and Profile Roadway Sheets
- US 17 Signalization Plans. Note: Three Mast Arm structures are anticipated and Traffic Signal Warrant Analysis to justify proposed installation.
- Miner Road Roundabout sheets. Note: Design will require operational modeling (capacity analysis using HCM methodology, LOS and lane configurations, am/pm peak volumes and growth factors). Design documentation including exhibits for design vehicle turning paths, fastest path analysis, and sight distance.
- Also, the installation of this roundabout will require Miner Road Reconstruction due to re-alignment needed to minimize ROW outside the County School property limits. The design will also include additional street lighting with pedestrian crossings.
- Two wet detention ponds and control details (estimated at 2-acres each).
- Drainage Structure Cross Sections
- Roadway and Pond Cross Sections
- County Standard Details
- Maintenance of Traffic Phasing Sections, Plan Sheets and a detour plan.
- Utility Adjustment Sheets. Note: GAI will provide utility coordination
- SWPPP/Erosion Control standard detail sheets
- Signing and pavement Marking Plans. Note: Requirement to also meet Manual of Uniform Traffic Control Devices (MUTCD).
- Signalization Plans and details
- Pedestrian Lighting details for US 17 and Miner Road.
- Landscape plans to include drought tolerant trees and no irrigation along the proposed roadway.

Permits: GAI will provide for the following permitting services to include permitting with the County, FDOT, SJRWMD and/or the US Army Corps of Engineers (USACOE). Costs for permitting fees are included as a reimbursable not to exceed item.

Costs: An Engineers Opinion of Probable Cost (OPC) will be submitted at each of the plan submittal milestones. GAI will prepare a project specifications package and bid form in accordance with the County Standards.

Specs: The Specification package will be developed to meet County requirements. Reference FDOT standard/spec requirements on US17.

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Task 4 – Survey (task 4.1) / ROW Mapping (task 4.2)

Project Description: Corridor route will begin 200 feet west of William Burgess intersection with US 17, then continue along the preliminary alignment that maintains west and north of the JEA powerline right-of-way to connecting intersection of Miner Road and the Yulee High School entrance road. Also, assuming 200 feet of tie-ins north and south of US 17 and Miner Road provides an approximate corridor length of 1.92 miles or 10,140 feet. New and existing road will extend in width by 20 feet past anticipated right-of-way. The 3D Route, topographic, tree & utility survey will include the route centerline of road and right-of-way lines, located from available property corners. GAI will not be verifying private boundary lines.

GAI will locate utilities from above ground indicators to the underground utilities along with any hand holes or manholes that can be opened. The survey will include 3D topography of the route with any buildings, driveways, sidewalks, above ground utility indicators to underground utilities, signs, light poles, drainage, fences, parking, curbing and other topography features along route. The survey may extend past right-of-way to include adjacent significant property features. Work will also produce topographic survey for ponds or ditches running from road. Task to include the following:

- Add a horizontal control (NAD83 state plane datum) by Survey grade GPS Trimble R-8 receivers through a networked control station with accuracies of 0.02' and benchmarks will be set coming off benchmarks on State Road 100 and will be on a NAVD88 datum and per professional standards run closed traverse to 2 different control and benchmarks for Quality check.
- Locate available monumentation along the right-of-way lines to determine alignment and create Right-of-way Lines.
- Locate 3D topography along the route and may extend beyond the right-of-way to connect adjacent topographic features to the project route. The topographic survey will include any buildings, driveways, sidewalks, fences, walls, signs, light poles, drainage, parking, and other topographic features within the route and may locate topographic features within adjacent Right-of-way. All topography will have elevations and contours plotted into Survey Map and CAD files.
- Locate any utility tops, markers, cuts in pavement, signs of utilities, or sunshine utility painted locations along the road. Also review any as-builts for any information they may have and show on survey.
- Survey the flagged wetland limits, once completed.
- A new Right-of-way Map, Route, 3D Topographic, & Utility Survey map will be produced from the above information. The surveyor will show all information and produce this survey in CAD format with 1-foot contours and to a scaled relation to the existing ground conditions depicting as much information on the survey as per scope for an urban project. The Survey map will be professionally printed with the Surveyor signing and sealing as many prints as requested.

Task 5 – Traffic Modeling

Traffic Counts and modeling scope of work detail is attached under the Ossiris9 fee proposal for subconsultant.

Bid No. NC19-016 Scope and Fee Proposal**Task 6 –Environmental/Permit****Task 6.1 Ecological Assessment/Wetland Delineation and Permitting**

- Research existing published literature and available documents pertinent to the project area, particularly prior wetland delineations and wildlife surveys.
- Review existing databases from the US Fish and Wildlife Service and the Florida Fish and Wildlife Conservation Commission for the presence of federal and state listed plant and animal species, including requesting a database search from the FWC for the presence of the Southern Bald Eagle on-site or within a one-mile radius of the project area.
- Conduct one site assessment to evaluate the presence of threatened and endangered species, critical habitat, natural communities, and the location, landward extent, and quality of potentially jurisdictional wetlands.
- Field flag the landward extent of wetlands potentially within the jurisdiction of governmental agencies with statutory permitting authority following the 2010 Final Supplement to the Corps of Engineers Wetlands Delineations Manual (1987) and the Unified Wetland Delineation Methodology for the State of Florida dated 1 July 1994.
- Coordinate with surveyors and/or engineers to locate the field flags as previously placed.
- Prepare an Ecological Assessment Report for inclusion in the Environmental Resource Permit application which will include the following information pertinent to the project site:
 - Existing site conditions (including a FLUCCS map).
 - Approximate landward extent of wetlands.
 - Potential for occurrence of listed plant and animal species, including wetland dependent animal species.
 - Projected wetland impacts and analysis of proposed wetland impacts utilizing the Unified Mitigation Assessment Methodology (UMAM) and/or Wetland Rapid Assessment Process (WRAP).
 - A discussion of secondary and cumulative impacts associated with the project.
 - A discussion of avoidance and minimization of wetland impacts associated with the project (alternate site plans must be prepared by others if required by the agencies).
 - Proposed use of an approved mitigation bank to off-set projected wetland impacts.
- Participate in a pre-application conference with the SJRWMD.
- Assist EOR with preparing Environmental Resource Permit (ERP) application for submittal to SJRWMD and a Federal Dredge and Fill Permit application for submittal to the US Army Corps of Engineers (Corps).
- Schedule and conduct site reviews with representatives of SJRWMD and/or the Corps for verification of the landward extent of jurisdictional wetland limits.
- Prepare responses to Requests for Additional Information (RAI's).

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- **Task 6.2 Archaeological Phase I Site Assessment** (Environmental Clearance for ROW acquisition only)
 - Conduct background research to determine the extent of previously-recorded cultural resources in the vicinity of the proposed pond sites and to characterize the potential of the Area of Potential Effect (APE) to contain unrecorded cultural resources.
 - Includes submittal of a Florida Master Site File (FMSF) Township, Range, and Section (TRS) Data Request Form to the Florida Division of Historical Resources (FDHR) to receive information for both architectural and archaeological resources in the project vicinity including the completion of previously-completed Cultural Resources Assessment Surveys.
 - It is assumed that neither a visit to the FDHR's office nor on-site fieldwork will be required for this study.
 - To the extent feasible, consult the county's GIS website, historic-period maps, and any historic aerials.
 - Prepare a brief summary of the results of this effort and any recommendations.
 - Additional services to conducting archaeological and architectural fieldwork to determine if there are any potential historic resources in the areas are to be affected by the proposed work can be added as a supplement to the current scope of work.

Task 6.3 Contamination Phase I Site Assessment (Environmental Clearance for ROW acquisition only):

The detail scope of work detail is attached under the NDN Companies fee proposal for subconsultant.

Task 7 - Geotechnical Engineering

- Geotechnical exploration and investigation to include field explorations and report. The detail scope of work detail is attached under CSI-geo fee proposal for subconsultant.

Task 8 - Subsurface Utility Exploration (SUE)

- SUE within the existing roadway is expected at the US 17 and Miner Road intersections, and along School driveway. The work effort will include designation and approximately thirty (40) locates. The detail scope of work detail is attached under FR Aleman fee proposal for subconsultant.

Task 9 –Bidding Assistance

- Assist the County during the bidding phase, including attending a pre-bid meeting, addressing bid questions, addendums and in the award process by analyzing unit bids versus cost calculated.

ASSUMPTIONS

- ROW needs are limited to those described
- Environmental assessments or other planning requirements are not required outside those proposed.
- The County will provide coordination with property owners should driveways, and encroachments be required.
- Mitigation impacts to be paid by the County from local mitigation bank.

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- Modification of the Yulee School permit will not require separate plan submittals that would require another other plan set. (i.e. If adjacent pond to school driveway is impacted, these changes are including in the William Burgess Extension plan set.
- Assume that the US17 intersection can be widened and not reconstructed (affects MOT complexity)
- The cost of reproduction for Bidding (plans and specs), to be paid by each bidder.

EXCLUSIONS

- No post design services including review of shop drawings, response to RFI's or field reviews are included in this scope
- No construction engineering inspection services are included in this scope of services
- No utility designs
- No ITS system design
- No ROW Acquisition Services
- Changes to the Yulee School site plan (changes to parking area, ingress/egress).
- RR Coordination not anticipated in signalization design, due to distance from US17 intersection (approximately 900 feet).

DELIVERABLES/ Schedule

- Provide the County with electronic progress submittals for review, final plans and specifications as well as quantities, permits outlines and bid form for bidding a unit price contract.
- A detailed schedule will be submitted within 10 days of receiving an NTP.

Fee Breakdown (Refer to Fee Summary Exhibits attached):

GAI Design (LS)	\$516,340
GAI Expenses (LS)	\$ 3,100
GAI Field Survey (LS)	\$ 88,465
GAI ROW Mapping (LS)	\$ 22,405
Osiris9/ PMA (Traffic) (LS)	\$ 41,615
NDN (Contamination Phase I) (LS)	\$ 2,400
CSI-Geo (Geotech) (Reimbursable)	\$91,085
FR Aleman and Assoc. (SUE) (Reimbursable)	<u>\$24,825</u>
Total Fee	\$790,235

Thank you for giving us the opportunity to submit this proposal and providing you with the above services. I trust that this proposal meets with your expectations. Please if you have any questions or need additional information related to this proposal, do not hesitate to contact me.

Sincerely,



Ronald Hoogland, P.E.
Project Manager

**Contract Fee Summary for
Professional Design Services for William Burgess Extension**

PART I - GENERAL				
1. Project - Prof. Design Svcs. WBE			2. Project Number NC19-016	
3. Name of Consultant GAI Consultants, Inc.			4. Date of Proposal 11/18/2018	
PART II - LABOR RELATED COSTS				
5. DIRECT LABOR	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Project Manager (E09)	\$ 280.00	218	\$ 61,040.00	
Chief Engineer (E08)	\$ 240.00	146	\$ 35,040.00	
Senior Engineering Manager	\$ 195.00	104	\$ 20,280.00	
Drainage Engineer/ Roundabout Eng (E07)	\$ 195.00	376	\$ 73,320.00	
FDOT/Lead Engineer/ Structural (E06)	\$ 170.00	321	\$ 54,570.00	
Senior Project Engineer/ LA (E05)	\$ 150.00	607	\$ 91,050.00	
Project Engineer (E04)	\$ 125.00	527	\$ 65,875.00	
EI (E03)	\$ 105.00	334	\$ 35,070.00	
Cadd (N03)	\$ 95.00	597	\$ 56,715.00	
Environmental Manager E06)	\$ 170.00	10	\$ 1,700.00	
Senior Specialist (E05)	\$ 150.00	80	\$ 12,000.00	
Archaeol. (03)	\$ 105.00	10	\$ 1,050.00	
Environmental / GIS/ Arch (E02)	\$ 90.00	56	\$ 5,040.00	
Cultural Resources (E01)	\$ 75.00	8	600.00	
clerical	\$ 65.00	46	2,990.00	
		3,440		
SUB-TOTAL SALARY RELATED COSTS				\$ 516,340.00
PART III - OTHER COSTS				
6. MISCELLANEOUS DIRECT COSTS (LS) SJRWMD General Permit, misc copies, public meeting boards				\$ 3,100.00
MISCELLANEOUS DIRECT COSTS SUB-TOTAL				\$ 3,100.00
7. Survey and Subconsultant (LS) GAI Field Survey (Task 3.1) GAI Mapping (Task 3.2) Osiris9/Peggy Malone (Task 4) NDN (Task 5.3)				\$ 88,465.00 \$ 22,405.00 \$ 41,615.00 \$ 2,400.00
SUB-CONTRACT SUB-TOTAL				\$ 154,885.00
8. SUBCONTRACTS (Reimbursable/ Not to Exceed) CSI-Geo (Task 7) FR Aleman (Task 8)				\$ 91,085.00 \$ 24,825.00
SUB-CONTRACT SUB-TOTAL				\$ 115,910.00
PART IV - SUMMARY				
TOTAL LUMP SUM AMOUNT (Items 5, 6, 7 and 8)				\$ 790,235.00

Initials *KC*

27. Survey

Estimator: Joe Lek

William Burgess Road Survey

0

Representing	Print Name	Signature / Date
William Burgess		
GAI Consultants		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Field Crew Days/Unit	Crew Days	Field Support Hours / Crew Days	Field Support Hours	Office Support Hours / Crew Days	Office Support Hours	Comments
27.1	Horizontal Project Control (HPC)									Set Horizontal Control
	2-Lane Roadway	Mile	2.50	1.00	2.50	1.50	3.75	3.00	7.50	
	Multi-lane Roadway	Mile			0.00		0.00		0.00	
	Interstate	Mile			0.00		0.00		0.00	
27.2	Vertical PC / Bench Line									Set Vertical Control
	2-Lane Roadway	Mile	2.50	1.00	2.50	1.50	3.75	3.00	7.50	
	Multi-lane Roadway	Mile			0.00		0.00		0.00	
	Interstate	Mile			0.00		0.00		0.00	
27.3	Alignment and Existing R/W Lines									Determine existing ROW and alignment
		Mile	2.50	2.00	5.00	1.50	7.50	3.00	15.00	
27.4	Aerial Targets			Units/Day						
	2-Lane Roadway	EA			0.00		0.00		0.00	
	Multi-lane Roadway	EA			0.00		0.00		0.00	
	Interstate	EA			0.00		0.00		0.00	
27.5	Reference Points	"A"		Units/Day						
	2-Lane Roadway	EA			0.00		0.00		0.00	
	Multi-lane Roadway	EA			0.00		0.00		0.00	
	Interstate	EA			0.00		0.00		0.00	
	Reference Points	"B"		Units/Day						
	Non Alignment Points/Approximate	EA			0.00		0.00		0.00	
27.6	Topography/DTM (3D)									Topo, trees, an dabove ground utilities
		Mile	2.50	10.00	25.00	1.50	37.50	3.00	75.00	
27.7	Planimetric (2D)									
		Mile			0.00		0.00		0.00	
27.8	Roadway Cross-Sections/Profiles									
		Mile			0.00		0.00		0.00	
27.9	Side Street Surveys									
		Mile			0.00		0.00		0.00	
27.10	Underground Utilities									
	Designates	Mile/Site			0.00		0.00		0.00	
	Locales	Point			0.00		0.00		0.00	
	Survey		0%	0.00	0.00		0.00		0.00	
27.11	Outfall Survey									
		Mile			0.00		0.00		0.00	
27.12	Drainage Survey			Units/Day						
		EA			0.00		0.00		0.00	
27.13	Bridge Survey									
	Minor / Major	EA			0.00		0.00		0.00	
27.14	Channel Survey									
		EA			0.00		0.00		0.00	
27.15	Pond Site Survey									Pond surveys
		EA	3.00	1.50	4.50	1.50	6.75	3.00	13.50	
27.16	Mitigation Survey									
		Mile			0.00		0.00		0.00	
27.17	Jurisdiction Line Survey									

27. Survey

Task No.	Task	Units	No of Units	Field Crew Days/Unit	Crew Days	Field Support Hours / Crew Days	Field Support Hours	Office Support Hours / Crew Days	Office Support Hours	Comments
		Mile			0.00		0.00		0.00	
27.18	Geotechnical Support			Units/Day						
		EA			0.00		0.00		0.00	
27.19	Sectional / Grant Survey									
		Corner			0.00		0.00		0.00	
		Mile			0.00		0.00		0.00	
27.20	Subdivision Location									
		Block			0.00		0.00		0.00	
27.21	Maintained RW									
		Mile			0.00		0.00		0.00	
27.22	Boundary Survey									
		EA			0.00		0.00		0.00	
27.23	Water Boundary Survey									
		EA			0.00		0.00		0.00	
27.24	R/W Staking / R/W Line									Parcels will have to be re-staked due to ROW changes
		EA	30	0.10	3.00	2.00	6.00	2.00	6.00	
		Mile			0.00		0.00		0.00	
27.25	R/W Monumentation									
		Point			0.00		0.00		0.00	
27.26	Line Cutting									
		Mile	1.00	2.00	2.00					
27.27	Work Zone Safety									
					0.00					
27.28	Miscellaneous Surveys									
					0.00		0.00		0.00	
Survey Subtotal				Crew Days	45	Field Support Hours	65	Office Support Hours	125	
27.29	Supplemental Surveys									THE % FOR SUPPLEMENTAL WILL BE DETERMINED AT NEGOTIATIONS. THIS ITEM CAN ONLY BE USED IF AUTHORIZED IN WRITING BY THE DISTRICT SURVEYOR
				45	0		0		0	
27.30	Document Research	Units								Research ROW
			16.00						16	
27.31	Field Reviews	Units								Check survey
			16.00						16	
27.32	Technical Meetings	LS								Meetings
			4.00						4	
27.33	Quality Assurance / Quality Control	LS						5%	6	
27.34	Supervision	LS						5%	11	
27.35	Coordination	LS						3%	4	
27. Survey Total				Crew Days	45	Field Support Hours	65	Office Support Hours	182	

29. Mapping

Estimator:

William Burgess Road Survey
0

Representing	Print Name	Signature / Date
William Burgess		
GAI Consultants		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
Master CADD File							
29.1	Alignment	Mile	0	0		0	
29.2	Section and 1/4 Section Lines	Section	0	0		0	
29.3	Subdivisions / Property Lines	EA	0	0		0	
29.4	Existing RW	Mile	0	0		0	
29.5	Topography	Mile	0	0		0	
29.6	Parent Tract Properties/Existing Easements	Parcel	0	0		0	
29.7	Proposed RW Requirements	Parcel	0	0		0	
29.8	Limits of Construction	Mile	0	0		0	
29.9	Jurisdictional/Agency Lines	Linear Mile	0	0		0	
Sheet Files							
29.10	Control Survey Cover Sheet	Sheet	0	0		0	
29.11	Control Survey Key Sheet	Sheet	0	0		0	
29.12	Control Survey Detail Sheet	Sheet	0	0		0	
29.13	R/W Map Cover Sheet	Sheet	1	8		8	
29.14	R/W Map Key Sheet	Sheet	1	12		12	
29.15	R/W Map Detail Sheet	Sheet	9	16		144	
29.16	Maintenance Map Cover Sheet	Sheet	0	0		0	
29.17	Maintenance Map Key Sheet	Sheet	0	0		0	
29.18	Maintenance Map Detail Sheet	Sheet	0	0		0	
29.19	Reference Point Sheet	Sheet	0	0		0	
29.20	Project Network Control Sheet	Sheet	0	0		0	
29.21	Table of Ownerships Sheet	Sheet	0	0		0	
Miscellaneous							
29.22	Parcel Sketches	Parcel	0	0.00		0	
29.23	TWTF Sketches	Parcel	0	0.00		0	
29.24	Other Specific Purpose Survey Map	EA	0	0.00		0	
29.25	Boundary Survey(s) Map	EA	0	0.00		0	
29.26	R/W Monumentation Map	Sheet	0	0.00		0	
29.27	Title Search Map	LS	0	0.00		0	
29.28	Title Search Report	LS	0	0.00		0	
29.29	Legal Descriptions	Parcel	0	0.00		0	
29.30	Final Maps/Plans Comparison	Sheet	0	0.00		0	
Mapping Technical Subtotal						0	164
29.31	Field Reviews	EA	1	0		0	
29.32	Technical Meetings	LS	1	0		0	
29.33	Quality Assurance/Quality Control	EA	%	3%		5	
29.34	Supervision	EA	%	3%		5	
Mapping Nontechnical Subtotal						10	
29.35	Coordination	LS	%	3%		5	
29.36	Supplemental Mapping	LA	%	0%		0	
29. Mapping Total						0	179



10199 Southside Boulevard, Suite 104
Jacksonville, FL 32256
www.osiris9.com

November 15, 2019

Ronald Hoogland
GAI Associates
Riverplace Tower, Suite 900
Jacksonville, FL 32207

Osiris 9 Consulting is please to submit the following fee estimate and scope of services for the William Burgess Project in Nassau County.

Fee Estimate

Data Collection = \$1,318.00 (see attached quote from Peggy Malone & Associate)

Traffic Analysis = \$40,296.80

Position	Corporate Fee	Hours	Total
Project Manager	225	60	\$13,500.00
Senior Planner	114.21	80	\$9,136.80
Planner	66.75	80	\$5,340.00
Engineering Technician	80.25	80	\$6,420.00
Engineering Intern	73.75	80	\$5,900.00

TOTAL \$ 40,296.80

Scope of Services

The CONSULTANT will review existing traffic data from previous planning studies to carry out traffic analysis for this Project and determine whether additional data may be needed. The CONSULTANT must collect additional data for the Study Area if the data gaps are identified.

1.1 Traffic Analysis Methodology

The CONSULTANT will perform traffic analysis in accordance with guidance from the **FDOT PD&E Manual, Traffic Analysis Handbook, and Project Traffic Forecasting**

Initials



Handbook. The CONSULTANT will prepare a forecast and analysis methodology which must be agreed upon by COUNTY prior to beginning any analysis. The methodology must state the type of documentation, Project Study Area to be analyzed, and method and assumptions that will be used to analyze existing and future traffic conditions. The development of future forecast data must use the currently adopted version of the Metropolitan Planning Organization (MPO) Long Range Transportation Plan (LRTP) travel demand model: North East Regional Planning Model
Capacity analysis will be based on the latest Highway Capacity Manual procedures. The need to conduct microsimulation traffic analysis using software packages such as SimTraffic will be determined by the CONSULTANT based on coordination with the COUNTY.

All traffic analysis documentation must be written in plain language and in a format that can be easily followed. The CONSULTANT must submit all traffic analysis files for assumptions, inputs, outputs, network data, calculations, and results to the COUNTY.

1.2 Traffic Counts

The CONSULTANT will collect 24-48 traffic counts on:

- US 17
- William Burgess Blvd.
- Miner Road

Additionally, the CONSULTANT will collect turning movements during AM and PM peak hours at the following intersection:

- US 17 and William Burgess
- SRA1A and Miner Road
- Yulee High School and Miner Road

1.3 Future Demand Forecasting

- **No-Build Model Forecast Daily Traffic:** The CONSULTANT will develop a 2040 No-Build Forecast Traffic Model for use in developing Average Annual Daily Traffic (AADT) forecast volumes for the No Build Alternative. This model will be based on the adopted 2040 LRTP Cost Feasible model.



- **Build Model Forecast Daily Traffic:** The CONSULTANT will develop 2040 Build alternative model that extends William Burgess Blvd from US 17 to Miner Road. The CONSULTANT will document any changes to the socio-economic data, highway and transit network or any other parameters in the North East Regional Planning Model.

1.4 Design Traffic Forecast

The CONSULTANT will develop opening and design year Directional Design Hour Volumes for the No-Build and Build Alternative. The DDHV will be developed in accordance with the FDOT project Traffic Forecasting Handbook. The CONSULTANT will develop turning movement projections for AM and PM peak hour using COUNTY approved methodology.

1.5 Operational Analysis

The CONSULTANT will analyze the operational performance of the No Build Alternative for the analysis years to identify deficiencies related to the purpose and need for the project. The CONSULTANT will evaluate the operational effectiveness of the No Build Alternative using agreed upon performance measures of effectiveness (MOEs). The CONSULTANT will use Highway Capacity Software or Synchro to obtain intersection delay at signalized and unsignalized intersections.

The CONSULTANT will analyze the operational performance of the Build Alternative for the analysis years using the agreed upon measures of effectiveness (MOEs).

1.6 Project Traffic Analysis Report

The CONSULTANT shall document the traffic data collection, existing conditions, travel demand forecasting analysis, future traffic projections and operational analysis in a Project Traffic Analysis Report.



November 14, 2019

Mr. Ronald Hoogland, P.E.
GAI Consultants, Inc.
1301 Riverplace Boulevard., Suite 900
Jacksonville, FL 32207

**RE: Proposal for a Phase I Environmental Site Assessment
Yulee Right-of-Way Corridor Parcels
Yulee, Nassau County, Florida**

Dear Mr. Hoogland:

The NDN Companies, Inc. (NDN) is pleased to provide this proposal and cost estimate to perform a Phase I Environmental Site Assessment (ESA) on three parcels along the referenced corridor. A figure showing the corridor is included as Appendix A. The sites consist of two approximate, 1-acre ponds (Ponds A & B) and an approximate ½-mile section of the corridor right-of-way beginning at the intersection of Flounder Gig Drive and U.S. Highway 17, extending easterly along the southern perimeter of Flounder Gig Drive, then generally southeasterly along Jamnik Street, and transecting a portion of Parcel 42-2N-27-0000-0001-0120, then extending along an unnamed roadway south adjoining of Yulee High School, and terminating at Miner Road.

The following scope of work outlines the activities necessary to complete a Phase I ESA in general accordance with ASTM Standard E 1527-13. Based on the length of the site corridor area, NDN's site inspection will include a windshield survey of the site corridor from the existing roadways/rights-of-ways, a walkthrough of the undeveloped areas, and individual perimetral inspections of Ponds A & B.

SCOPE OF WORK

Task 1: Site Reconnaissance

An environmental specialist will conduct a windshield survey of the accessible portions of the site corridor from the existing roadways/rights-of-ways, a walkthrough of the undeveloped areas, and individual perimetral inspections of Ponds A & B.

Task 2: Regulatory Review (including database search)

NDN will review site background information and preliminary data provided by the client and/or other sources prior to conducting site inspection. An environmental regulatory database search report will also be reviewed. A search of the following databases will be conducted, as appropriate for the property, to help determine if hazardous sites or serious local environmental problems may exist on or immediately adjacent (see radius specifications) to the property:

- * Federal National Priorities List (1 mile radius);

- * Federal Delisted National Priorities List (0.5 mile radius);
- * Federal Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) list (0.5 mile radius);
- * Federal CERCLIS NFRAP list (0.5 mile radius);
- * Federal RCRA CORRACTS list (1 mile radius);
- * Federal RCRA non-CORRACTS TSD list (0.5 mile radius);
- * Federal RCRA Generators list (property and adjoining properties only);
- * Federal institutional control/engineering control registries (property only);
- * Federal ERNS list (property only);
- * State and tribal equivalent NPL (1 mile radius);
- * State and tribal equivalent CERCLIS (0.5 mile radius);
- * State and tribal landfill and/or solid waste disposal site lists (0.5 mile radius);
- * State and tribal equivalent Leaking Underground Storage Tank (LUST) list (0.5 mile radius);
- * State and tribal registered storage tank lists (property and adjoining properties only);
- * State and tribal institutional control/engineering control registries (property only);
- * State and tribal voluntary cleanup sites (0.5 mile radius); and,
- * State or tribal Brownfield sites (0.5 mile radius).

Task 3: Review of Site History

A review of site history will be conducted to help establish what types of activities were previously conducted on the property. Standard historical sources that are reasonably ascertainable, such as fire insurance maps, USGS topographic maps, historical aerial photographs, city directories, and building department records, will be reviewed. This proposal does not include an environmental lien search. The environmental lien search is required by AAI. This proposal does not include a 50-year chain-of-title search. The 50-year chain-of-title search is not a requirement of AAI, but it is listed as an appropriate historical record source. The NDN Companies can provide these services if requested.

Task 4: Interviews

Interviews will be conducted with available knowledgeable persons regarding site history and current uses of the site corridor. This may include, but is not limited to, JEA employees (if allowable), state and local agency officials, or knowledgeable residents of the area.

Task 5: Report Preparation

A report will be prepared documenting our research, on-site inspection, and other findings. The report will provide an overall assessment of recognized environmental conditions and make recommendations.

COST ESTIMATE

Phase I ESA \$ 2,400.00

The NDN Companies anticipates completing the project within 10 business days of receipt of authorization to proceed.

NDN appreciates the opportunity to provide this cost estimate. If you have any questions or require additional information, please feel free to contact me at (904) 800-2671.

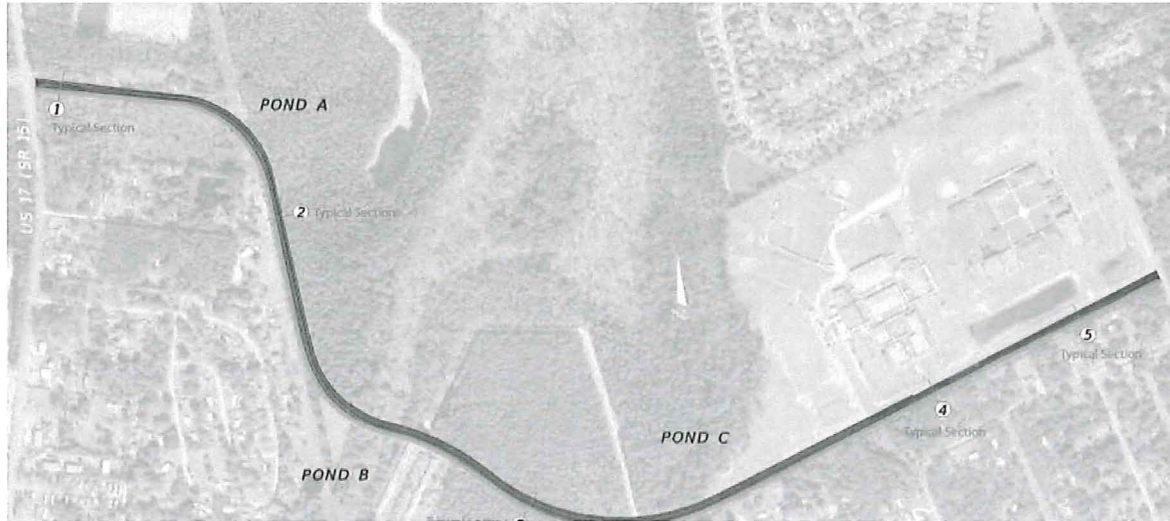
Sincerely,

The NDN Companies, Inc



Geoff Reichold, P.G.
Principal

APPENDIX A





GEOTECHNICAL SCOPE OF WORK

**William Burgess Extension
from US Highway 17 to Miner Road
NC19-016
Nassau County, Florida**

SCOPE OF PROPOSED GEOTECHNICAL SERVICES

The geotechnical exploration will consist of field exploratory borings, laboratory testing, and a geotechnical analysis of the collected data. All geotechnical work will be in general accordance with FDOT Standards, the Soils and Foundations Handbook, related directives, Federal Highway Administration Checklist and Guidelines for review of Geotechnical Reports and Preliminary Plans and Specifications, F.H.W.A. Work Zone Traffic Control Practices Manual.

PROPOSED GEOTECHNICAL EXPLORATION

General - The project will create a new two (2) lane extension of William Burgess Boulevard from US Highway 17 to Miner Road, and includes:

- Signalization and improvements at the intersection of US Highway 17.
- Intersection improvements at the intersection of Miner Road.
- Construction of roadway drainage facilities.
- Construction of a new 8'-10' wide multi-use path.

Field Exploration

The proposed exploration will consist of geotechnical studies and the collection of subsurface data as follows:

Roadway – Auger borings will be performed to a depth of 5 feet at 100 feet spacing with 20 foot deep auger borings every 500 feet. In areas which have significant organic materials (i.e., muck); these areas will be delineated with additional auger borings. Soil samples for laboratory soil testing will be obtained on a frequency of three samples per stratum per mile. Soil samples for pipe corrosion testing will be obtained on a frequency of one sample per 1,500 feet of alignment. Additionally, samples will be collected from the existing subgrade soils at a frequency of one sample for every 2,500 feet of alignment and tested for the design LBR value. Work will also include review of the encountered ground water levels and estimation of the seasonal high ground water levels as well as delineation of limits of unsuitable material(s).

Ponds - The proposed stormwater management ponds will be explored by means of Standard Penetration Test (SPT) borings with continuous sampling which will extend to a depth of 20 feet at a frequency of three borings per one acre of stormwater pond. In addition, the ponds will be tested for environmental classification testing. Sufficient testing will be performed on soils recovered from the ponds.

Traffic Signal Foundations - These areas will be explored by means of one Standard Penetration Test (SPT) boring at each proposed foundation location. The borings will be extended to a depth of 25 feet each below the ground surface. One soil sample from each location will also be tested for environmental classification testing.

Soil samples will be classified, containerized, and marked in the field and returned to the laboratory for visual inspection and classification by the geotechnical engineer using the AASHTO and the Unified Soil Classification System.

Usage of Special Equipment – Usage of truck mounted and All-Terrain Vehicle (ATV) mounted drill rigs has been accounted for in the preparation of the Geotechnical Cost Estimate. Type of equipment used for boring and sampling is a function of the site conditions actually encountered. Please note that usage of special equipment such as track mounted rigs, or amphibious rigs has not been accounted for, since usage of such equipment is not believed to be needed at this stage based on the available information. However, if site conditions are found to require the usage of special equipment, the associated cost will need to be negotiated separately and added to the contract amount. Compensation for the exploration outlined above, or any additional services you request, will be based upon the actual type of equipment used, actual time spent, and tests performed in accordance with the enclosed Geotechnical Cost Estimate. We will not exceed our cost estimate without an extension of the scope of services by your office.

Laboratory Testing - Routine laboratory testing will be conducted on representative soil samples to determine classification, and aggressiveness. Laboratory classification and index soil tests will be performed as necessary on selected soil samples obtained from the exploration. Specific tests to be performed are Organic Content, Moisture Content, Percent Fines, Grain Size Analysis, Atterberg Limits, and Environmental/Corrosion Testing.

Engineering/Support Services - A geotechnical engineer, registered in the State of Florida, will direct the geotechnical exploration and provide a presentation of the site and subsurface conditions with respect to the planned construction. The results of the exploration will be presented in reports containing the following:

- A brief discussion of the planned construction.
- A graphical representation of the subsurface conditions encountered as well as the existing on-site conditions, such as topography, surface vegetation, encountered and seasonal high water tables, etc., as they relate to the planned construction.
- Copies of U.S.G.S. and S.C.S. maps with project limits shown.
- A report of tests sheet that summarizes the laboratory test results, the soil stratification (i.e. soils grouped into layers of similar materials) and construction recommendations relative to Standards.
- An appendix that contains stratified soil boring profiles, laboratory test data sheets, and other pertinent calculations.
- Written discussion of the subsurface conditions encountered.
- Evaluation of the subsurface soils and recommendations concerning the suitability of the subsurface soils for support of the planned roadway.
- Evaluation of pond material and the existing subgrade soils for roadway construction.
- Soil properties for design of traffic signal foundations.
- Recommendations for the required site preparation and earthwork construction.



Geotechnical Cost Estimate
William Burgess Extension
from US Highway 17 to Miner Road
NC19-016
Nassau County, Florida

2394 St. Johns Bluff Road, Ste 200
Jacksonville, Florida 32246
tel (904) 641-1993
fax (904) 645-0057

Geotechnical Item	Unit	Number of Units	Cost / Unit	Estimated Cost
<u>Field Investigation</u>				
Crew & Equipment Mobilization / Demobilization:				
Mobilization - Truck Rig	ea.	2	\$550.00 /ea.	\$1,100.00
Mobilization - ATV Rig	ea.	2	\$550.00 /ea.	\$1,100.00
Roadway:				
103 Auger Borings @ 5' ea.	lin. ft.	515	\$10.50 /lin. ft.	\$5,407.50
26 Auger Borings @ 20' ea.	lin. ft.	520	\$10.50 /lin. ft.	\$5,460.00
10 Pavement Cores with Base Depth Check	ea.	10.0	\$125.00 /ea.	\$1,250.00
LBR Sample Pickup	ea.	7	\$90.00 /ea.	\$630.00
Clearing	hr.	24	\$225.00 /hr.	\$5,400.00
Standby Time /Difficult Access	hr.	7	\$225.00 /hr.	\$1,575.00
MOT	day	2	\$1,150.00 /day	\$2,300.00
Ponds (2 @ 3 acres ea., 3 SPT Borings per acre @ 20' ea.)				
18 Standard Penetration Test (SPT) @ 20' ea.:	lin. ft.	360	\$13.50 /lin. ft.	\$4,860.00
Extra Split Spoon Sample 0-50' SPT	ea.	54	\$34.00 /ea.	\$1,836.00
Clearing	hr.	32	\$225.00 /hr.	\$7,200.00
Standby Time /Difficult Access	hr.	9	\$225.00 /hr.	\$2,025.00
Traffic Signals (4)				
4 SPTs @ 25' ea.:	lin. ft.	100	\$13.50 /lin. ft.	\$1,350.00
MOT	day	1	\$1,150.00 /day	\$1,150.00
Subtotal:				\$42,643.50
<u>Laboratory Testing</u>				
Moisture Content of Soils	ea.	36	\$21.00 /ea.	\$756.00
Organic Content in Soils	ea.	36	\$37.00 /ea.	\$1,332.00
Material Finer Than No. 200 Sieve	ea.	36	\$38.85 /ea.	\$1,398.60
Grain Size Analysis	ea.	16	\$67.00 /ea.	\$1,072.00
Plastic limit of soil	ea.	11	\$49.00 /ea.	\$539.00
Liquid limit of soil	ea.	11	\$50.00 /ea.	\$550.00
Corrosion Series Test - (Environmental Corrosion)	ea.	16	\$225.00 /ea.	\$3,600.00
LBR	ea.	7	\$335.00 /ea.	\$2,345.00
Subtotal:				\$11,592.60
<u>Engineering/Support Services</u>				
Project Manager	hr.	15	\$221.86 /hr.	\$3,327.90
Project Engineer	hr.	31	\$153.09 /hr.	\$4,745.79
Staff Engineer	hr.	61	\$150.22 /hr.	\$9,163.42
CADD/Computer Technician	hr.	98	\$112.10 /hr.	\$10,985.80
Geotechnical Technician	hr.	80	\$92.40 /hr.	\$7,392.00
Secretary/Clerical	hr.	22	\$56.10 /hr.	\$1,234.20
Subtotal:				\$36,849.11
GRAND TOTAL ESTIMATED FEE:				\$91,085.21

Initials MB



November 13, 2019

GAI CONSULTANTS

ATTN: Ron Hoogland
1301 Riverplace Blvd., Suite 900,
Jacksonville, FL 32207
r.hoogland@gaiconsultants.com

Reference: Price Proposal for Subsurface Utility Locating Services
Design Services William Burgess Extension
Board of County Commissioners, Nassau County: NC19-016
FRA Project No.: 3231

Dear Mr. Hoogland:

Per your request, F.R. Aleman & Associates, Inc. (FRA) is pleased to submit our proposal to provide subsurface utility locating services to your organization.

Fee Proposal

3 Days for Designating Services @ \$2,000 per Day	\$ 6,000.00
15 Utility Test Hole @ \$375 per Test Hole (Soft surface) - (US-17)	\$ 5,625.00
5 Utility Test Hole @ \$400 per Test Hole (Hard surface) - (US-17)	\$ 2,000.00
10 Utility Test Hole @ \$375 per Test Hole (Soft surface) - (Minor Rd.)	\$ 3,750.00
10 Utility Test Hole @ \$400 per Test Hole (Hard surface) - (Minor Rd.)	\$ 4,000.00
FDOT General Permit	\$ 350.00
Nassau County Permit	\$ 350.00
2 Day Standard MOT @ \$500 per Day	\$ 1,000.00
10 Hours of Project Manager @ \$175 per Hour	<u>\$ 1,750.00</u>
Total Lump Sum	\$ 24,825.00

Note: It should be noted obtaining a FDOT permit for lane closure (if required) could take up to 4 weeks upon receiving the signed contract.

Description of Services & Deliverables

General Notes

FRA will provide subsurface utilities engineering (SUE) personnel, tools, and specialized equipment to locate apparent underground public utilities. FRA is aware that utility test holes are being requested on an as needed basis and exact locations have not yet been established. Utility test holes shall be performed per ASCE/CI 38-02 (Quality Level A) Standards. This proposal is based on public agencies allowing standard maintenance of traffic (MOT) (limited to Index 613) and typical working hours (Monday through Friday, 8:00 AM – 5:00 PM). Should additional permitting and/or MOT be required, this proposal may need to be revised. Restoration shall be limited to standard SUE practices. Should additional restoration become necessary, this proposal may need to be revised. Survey is not included in this proposal.

Designation Services

- Designate the horizontal location of existing utilities for this project using Ground Penetrating Radar (GPR) with paint and flags.
- Hand dig holes in all situations when excavating within 24" of FRA's markings.
- Conduct appropriate records research.
- Program and calibrate electromagnetic utility locating equipment.
- Perform horizontal locations of existing conductive utilities using electromagnetic techniques.
- Mark selected targets on the ground surface, as necessary.
- Interpret field data and perform on-site designating field sketches.

Utility Test Holes

- Provide 40 test holes at sites specified by GAI.
- Test holes will be used to locate utilities and minimize the likelihood of damage during construction or other forms of excavation.
- The techniques listed above are not guaranteed to identify all utilities. Therefore, FRA by no means guarantees or warrants these markings to be exact for any utility and accepts no responsibility for any utility damages, down-time, delays, etc.
- Obtain all necessary permits from the involved entities and coordinate with utility agency owners to perform the required work.
- Cut and remove existing pavement or ground surface (not to exceed 225-sq. in. per cut).
- Excavate the cut in a manner as to prevent any damage to wrappings, coatings, or other protective coverings (i.e., vacuum/pressure excavations and hand digging).
- Furnish and install color-coded permanent, above ground markers (i.e., pk, nails, and steel rods) directly above the centerline of the utility structure and record the elevation of the marker.
- Provide restoration of the test hole area by backfilling to its prior condition using pavement or other materials that were removed.
- Provide a complete clean-up of the work site to equal or better condition than before restoration.

Conditions & Exclusions

- FRA is not responsible for moved, altered, obliterated, or maintaining marks. If marks are destroyed, FRA may impose additional fees to relocate/remark facilities.
- If underground facilities are damaged, whether marked by FRA or not, it is WASD's obligation to inform FRA within 24 hours of the damage.
- Use of the above techniques does not guarantee the identification of all utilities.
- FRA by no means guarantees or warrants these markings to be exact for any utility and accepts no responsibility for any utility damages, down-time, delays, etc.
- Additional fees may be applicable, depending on unforeseen site conditions.
- Prior to excavation for test holes, FRA will be responsible for securing locations of public utilities through Sunshine 811, (800-432-4770).
- This proposal assumes access to the project site is available and work can be performed between the hours of 8:00 am to 5:00 pm, Monday through Friday.
- This proposal does not include fees for any security/police escort that may be needed.
- Requests outside the scope of this proposal will be discussed and agreed upon prior to starting additional work.

- This proposal is valid for acceptance for 30 days from November 13, 2019, after which time it shall be subject to review and adjustment by FRA.

FRA has estimated approximately **3 days for designating services and 40 utility test holes** for apparent underground public utilities. Should significantly more utilities be found, or if utilities cannot be located, more test holes may be required. If needed, any additional test holes will be at the same rate as above and only done at your direction.

FRA appreciates the opportunity to submit this proposal and looks forward to partnering on this project. If you find this proposal acceptable, please sign the agreement in the spaces provided below and return the executed copy for our files, which will serve as your formal authorization for our services. We are prepared to commence work upon your authorization. Please do not hesitate to contact me if you have a question.

Sincerely,



Lis R. Tolstoy, PSM - Survey Director
FR Aleman & Associates
Date: November 13, 2019

ACCEPTED AND AGREED:	
Client:	GAI Consultants
Approved By:	
Title:	
Date:	
Client Project No.	

Exhibit "1"

GENERAL INFORMATION AND MINIMUM INSURANCE REQUIREMENTS

COMMERCIAL GENERAL LIABILITY INSURANCE

The Contractor/Vendor shall purchase and maintain at the Contractor/Vendor's expense Commercial General Liability insurance coverage (ISO or comparable Occurrence Form) for the life of this Contract. Modified Occurrence or Claims Made forms are not acceptable.

The Limits of this insurance shall not be less than the following limits:

Each Occurrence Limit	\$1,000,000
Personal & Advertising Injury Limit	\$1,000,000
Fire Damage Limit (any one fire)	\$ 50,000
Medical Expense Limit (any one person)	\$ 5,000
Products & Completed Operations Aggregate Limit	\$2,000,000
General Aggregate Limit (other than Products & Completed Operations) Applies Per Project	\$2,000,000

General liability coverage shall continue to apply to "bodily injury" and to "property damage" occurring after all work on the Site of the covered operations to be performed by or on behalf of the additional insureds has been completed and shall continue after that portion of "your work" out of which the injury or damage arises has been put to its intended use.

WORKERS' COMPENSATION AND EMPLOYER'S LIABILITY INSURANCE

The Contractor/Vendor shall purchase and maintain at the Contractor/Vendor's expense Workers' Compensation and Employer's Liability insurance coverage for the life of this Contract.

The Limits of this insurance shall not be less than the following limits:

<u>Part One</u> – Workers' Compensation Insurance – Unlimited Statutory Benefits as provided in the Florida Statutes and	
<u>Part Two</u> – Employer's Liability Insurance	
Bodily Injury By Accident	\$500,000 Each Accident
Bodily Injury By Disease	\$500,000 Policy Limit
Bodily Injury By Disease	\$500,000 Each Employee

*If leased employees are used, policy must include an Alternate Employer's Endorsement

AUTOMOBILE LIABILITY INSURANCE

The Contractor/Vendor shall purchase and maintain at the Contractor/Vendor's expense Automobile Liability insurance coverage for the life of this Contract.

The Limits of this insurance shall not be less than the following limits:

Combined Single Limit – Each Accident	\$1,000,000
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Covered Automobiles shall include any auto owned or operated by the insured Contractor/Vendor, insured Sub-Contractor/Vendor including autos which are leased, hired, rented or borrowed, including autos owned by their employees which are used in connection with the business of the respective Contractor/Vendor or Sub-Contractor/Vendor.

UMBRELLA LIABILITY INSURANCE

The Contractor/Vendor shall purchase and maintain at the Contractor/Vendor's expense Umbrella/Excess Liability (Umbrella Form) insurance coverage for the life of this Contract.

The Limits of this insurance shall not be less than the following limits:

Initials 

Each Occurrence Limit	\$1,000,000
Aggregate Limit	\$1,000,000

PROFESSIONAL LIABILITY (ERRORS & OMISSIONS)

This additional coverage will be required for all projects involving consultants, engineering services, architectural or design/build projects, independent testing firms and similar exposures.

The Contractor/Vendor shall purchase and maintain at the Contractor/Vendor's expense Professional Liability insurance coverage for the life of this Contract.

If the contract includes a requirement for Professional Liability or Errors and Omissions insurance, the minimum amount of such insurance shall be as follows:

Each Occurrence/Annual Aggregate – Project Specific Form	\$1,000,000
OR	
Each Occurrence/Annual Aggregate – Non Project Specific Form	\$3,000,000

Design Professional Liability coverage will be provided on an Occurrence Form or a Claims Made Form with a retroactive date to at least the first date of this Agreement. If provided on a Claims Made Form, the coverages must respond to all claims reported within three years following the period for which coverage is required and which would have been covered had the coverage been on an occurrence basis.



Contractor/Vendor shall require each of his Sub-Contractor/Vendors to likewise purchase and maintain at their expense Commercial General Liability insurance, Workers' Compensation and Employer's Liability coverage, Automobile Liability insurance and Umbrella Liability insurance, Professional Liability, Environmental Liability, insurance coverage (as applicable) meeting the same limit and requirements as the Contractor/Vendors insurance.

Certificates of Insurance acceptable to Nassau County Board of County Commissioners for the Contractor/Vendor's insurance must be received within ten (10) days of Notification of Selection and at time of signing Agreement.

Certificates of Insurance and the insurance policies required for this Agreement shall contain an endorsement that coverage afforded under the policies will not be cancelled or allowed to expire until at least thirty (30) days prior written notice has been given to Nassau County Board of County Commissioners.

Certificates of Insurance and the insurance policies required for this Agreement will include a provision that policies, except Workers' Compensation and Professional Liability, are primary and noncontributory to any insurance maintained by the Contractor/Vendor.

Nassau County Board of County Commissioners must be named as an Additional Insured and endorsed onto the Commercial General Liability (CGL), Auto Liability, Umbrella Liability and Environmental Liability policy (ies). A copy of the endorsement(s) must be supplied to Nassau County Board of County Commissioners ten (10) days following the execution of the agreement or prior to the first date of services, whichever comes first.

CGL policy Additional Insured Endorsement must include Ongoing and Completed Operations (Form CG2010 11 84 **OR** Form CG2010 04 13 and GC2037 04 13 edition or equivalent). Other Additional Insured forms might be acceptable but only if modified to delete the word "ongoing" and insert the sentence "Operations include ongoing and completed operations".

CGL policy shall not be endorsed with Exclusion - Damage to Work performed by SubContractor/Vendors on Your Behalf (CG2294 or CG2295)

CGL policy shall not be endorsed with Contractual Liability Limitation Endorsement (CG2139) or Amendment of Insured Contract Definition (CG 2426)

CGL policy shall not be endorsed with Exclusion - Damage to Premises Rented to you (CG 2145)

Initials 

CGL policy shall include broad form contractual liability coverage for the Contractor/Vendors covenants to and indemnification of the Authority under this Contract

Certificates of Insurance and the insurance policies required for this Agreement shall contain a provision under General Liability, Auto Liability, Environmental Liability and Workers' Compensation to include a Waiver of Subrogation clause in favor of Nassau County Board of County Commissioners.

All Certificates of Insurance shall be dated and shall show the name of the insured Contractor/Vendor, the specific job by name and job number, the name of the insurer, the policy number assigned its effective date and its termination date and a list of any exclusionary endorsements.

All Insurers must be authorized to transact insurance business in the State of Florida as provided by Florida Statute 624.09(1) and the most recent Rating Classification/Financial Category of the insurer as published in the latest edition of "Best's Key Rating Guide" (Property-Casualty) must be at least A- or above.

All of the above referenced Insurance coverage is required to remain in force for the duration of this Agreement and for the duration of the warranty period. Accordingly, at the time of submission of final application for payment, Contractor/Vendor shall submit an additional Certificate of Insurance evidencing continuation of such coverage.

If the Contractor/Vendor fails to procure, maintain or pay for the required insurance, Nassau County Board of County Commissioners shall have the right (but not the obligation) to secure same in the name of and for the account of Contractor/Vendor, in which event, Contractor/Vendor shall pay the cost thereof and shall furnish upon demand, all information that may be required to procure such insurance. Nassau County Board of County Commissioners shall have the right to back-charge Contractor/Vendor for the cost of procuring such insurance. The failure of Nassau County Board of County Commissioners to demand certificates of insurance and endorsements evidencing the required insurance or to identify any deficiency in Contractor/Vendors coverage based on the evidence of insurance provided by the Contractor/Vendor shall not be construed as a waiver by Nassau County Board of County Commissioners of Contractor/Vendor's obligation to procure, maintain and pay for required insurance.

The insurance requirements set forth herein shall in no way limit Contractor/Vendors liability arising out of the work performed under the Agreement or related activities. The inclusions, coverage and limits set forth herein are minimum inclusion, coverage and limits. The required minimum policy limits set forth shall not be construed as a limitation of Contractor/Vendor's right under any policy with higher limits, and no policy maintained by the Contractor/Vendor shall be construed as limiting the type, quality or quantity of insurance coverage that Contractor/Vendor should maintain. Contractor/Vendor shall be responsible for determining appropriate inclusions, coverage and limits, which may be in excess of the minimum requirements set forth herein.

If the insurance of any Contractor/Vendor or any Sub-Contractor/Vendor contains deductible(s), penalty(ies) or self-insured retention(s), the Contractor/Vendor or Sub-Contractor/Vendor whose insurance contains such provision(s) shall be solely responsible for payment of such deductible(s), penalty(ies) or self-insured retention(s).

The failure of Contractor/Vendor to fully and strictly comply at all times with the insurance requirements set forth herein shall be deemed a material breach of the Agreement.