


CENTRAL FLORIDA EXPRESSWAY AUTHORITY

MEMORANDUM

TO: CFX Board Members

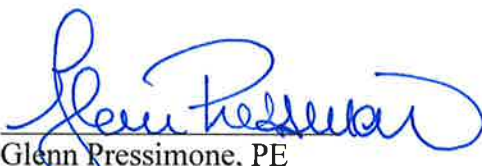
FROM: Aneth O. Williams 
Director of Procurement

DATE: February 21, 2017

SUBJECT: Award of Contract to Inwood Consulting Engineers, Inc., for the Concept, Feasibility & Mobility Study for the Northeast Connector Expressway Project 599-222, Contract No. 001249 - AMENDED

The Board approved on January 12, 2017, the final ranking and authorization to negotiate with firms for the Concept, Feasibility & Mobility Studies of the Osceola County Expressway Authority Master Plan Projects. Negotiations with Inwood Consulting Engineers, Inc. for the study of the Northeast Connector Expressway have been completed. Board award of the contract to Inwood Consulting Engineers, Inc. is requested in the not-to-exceed amount of \$1,438,000.00.

Reviewed by:


Glenn Pressimone, PE
Director of Engineering



AGREEMENT FOR PROFESSIONAL SERVICES

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

AND

INWOOD CONSULTING ENGINEERS, INC.

**CONCEPT, FEASIBILITY AND MOBILITY STUDY FOR
THE NORTHEAST CONNECTOR EXPRESSWAY**

CONTRACT NO. 001249, PROJECT NO. 599-222

CONTRACT DATE: March 9, 2017

CONTRACT AMOUNT: \$1,438,000.00

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

**AGREEMENT, SCOPE OF SERVICES, METHOD OF
COMPENSATION, DETAILS OF COSTS AND FEES,
PROJECT ORGANIZATIONAL CHART, PROJECT
LOCATION MAP, AND SCHEDULE**

TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>
AG	Agreement
A	Exhibit “A”, Scope of Services
B	Exhibit “B”, Method of Compensation
C	Exhibit “C”, Details of Cost and Fees
D	Exhibit “D”, Project Organization Chart
E	Exhibit “E”, Project Location Map
F	Exhibit “F”, Schedule

**CENTRAL FLORIDA EXPRESSWAY AUTHORITY
AGREEMENT FOR PROFESSIONAL SERVICES**

THIS AGREEMENT, made and entered into this 9th day of March, 2017, by and between the CENTRAL FLORIDA EXPRESSWAY AUTHORITY, a corporate body and agency of the State of Florida, created by Chapter 2014-171, Laws of Florida, which is codified in Chapter 348, Part III of the Florida Statutes, hereinafter "CFX," and Inwood Consulting Engineers, Inc., hereinafter called "CONSULTANT," registered and authorized to conduct business in the State of Florida, carrying on professional practice in planning and engineering, with the responsible project office located at 3000 Dovera Drive, Suite 200, Oviedo, Florida 32765.

WITNESSETH:

WHEREAS, CONSULTANT represents that it is fully qualified and authorized to render the professional services contracted herein.

NOW, THEREFORE, in consideration of the mutual understandings and covenants set forth herein, CFX and CONSULTANT agree as follows:

1.0. DEFINITIONS.

Reference herein to the Project Manager shall mean CFX's Director of Engineering or his authorized designee. The Project Manager shall provide the management and technical direction for this Agreement on behalf of CFX. All technical and administrative provisions of this Agreement shall be managed by the Project Manager and the CONSULTANT shall comply with all of the directives of the Project Manager that are within the purview of this Agreement. Decisions concerning Agreement amendments and adjustments, such as time extensions and supplemental agreements shall be made by the Project Manager.

2.0. SCOPE OF SERVICES.

CFX does hereby retain the CONSULTANT to furnish certain professional services in connection with the Concept, Feasibility and Mobility Study for the Northeast Connector Expressway hereinafter "the Project." Further identified as Project No. 599-222 and Contract No. 001249.

The CONSULTANT and CFX mutually agree to furnish, each to the other, the respective services, information and items as described in **Exhibit "A"**, Scope of Services, attached hereto and made a part hereof.

Before rendering any of the services, any additions or deletions to the work described in **Exhibit "A"**, and before undertaking any changes or revisions to such work, the parties shall negotiate any necessary cost changes and shall enter into a Supplemental Amendment covering such modifications and the compensation to be paid therefore.

This Agreement is considered a non-exclusive Agreement between the parties.

3.0 TERM OF AGREEMENT AND RENEWALS

Unless otherwise provided herein or by Supplemental Agreement, the provisions of this Agreement will remain in full force and effect for a five (5) year term from the date of the Notice to Proceed for the required project services as detailed in **Exhibit "A"**. At CFX's sole discretion and election, the Agreement may be renewed with two (2) one-year renewals, or portions thereof. Renewals will be based, in part, on a determination by CFX that the value and level of service provided by the CONSULTANT are satisfactory and adequate for CFX's needs. If a renewal option is exercised, CFX will provide CONSULTANT with written notice of its intent at least thirty (30) days prior to the expiration of the original term and subsequent renewal, if any.

The CONSULTANT agrees to commence the scheduled project services to be rendered within ten (10) calendar days from the date specified in the written Notice to Proceed from the Project Manager, which Notice to Proceed will become part of this Agreement. The CONSULTANT shall complete scheduled project services within the timeframe(s) specified in **Exhibit "A"**, or as may be modified by subsequent Supplemental Agreement.

4.0 PROJECT SCHEDULE

The CONSULTANT agrees to provide Project Schedule progress reports for each Project in a format acceptable to CFX and at intervals established by CFX. CFX will be entitled at all times to be advised, at its request, as to the status of work being done by the CONSULTANT and of the details thereof. Coordination shall be maintained by the CONSULTANT with representatives of CFX, or of other agencies interested in the Project on behalf of CFX. Either party to the Agreement may request and be granted a conference.

In the event there are delays on the part of CFX as to the approval of any of the materials submitted by the CONSULTANT or if there are delays occasioned by circumstances beyond the control of the CONSULTANT, which delay the scheduled Project completion date, CFX may grant to the CONSULTANT by "Letter of Time Extension" an extension of the scheduled Project completion date equal to the aforementioned delays. The letter will be for time only and will not include any additional compensation.

It shall be the responsibility of the CONSULTANT to ensure at all times that sufficient time remains within the Project schedule within which to complete the services on the Project. In the event there have been delays which would affect the scheduled Project completion date, the CONSULTANT shall submit a written request to CFX which identifies the reason(s) for the delay, the amount of time related to each reason and specific indication as to whether or not the delays were concurrent with one

another. CFX will review the request and make a determination as to granting all or part of the requested extension.

In the event the scheduled Project completion date is reached and the CONSULTANT has not requested, or if CFX has denied, an extension of the completion date, partial progress payments will be stopped when the scheduled Project completion date is met. No further payment for the Project will be made until a time extension is granted or all work has been completed and accepted by CFX.

5.0 PROFESSIONAL STAFF

The CONSULTANT shall maintain an adequate and competent professional staff to enable the CONSULTANT to timely perform under this Agreement. The CONSULTANT shall continue to be authorized to do business within the State of Florida. In the performance of these professional services, the CONSULTANT shall use that degree of care and skill ordinarily exercised by other similar professionals in the field under similar conditions in similar localities. The CONSULTANT shall use due care when performing in a design capacity and shall have due regard for acceptable standards of design principles. The CONSULTANT may associate with it such specialists, for the purpose of its services hereunder, without additional cost to CFX, other than those costs negotiated within the limits and terms of this Agreement. Should the CONSULTANT desire to utilize specialists, the CONSULTANT shall be fully responsible for satisfactory completion of all subcontracted work. The CONSULTANT, however, shall not sublet, assign or transfer any work under this Agreement to other than the associate consultants listed below without the written consent of CFX. It is understood and agreed that CFX will not, except for such services so designated herein, permit or authorize the CONSULTANT to perform less than the total contract work with other than its own organization.

3E Consulting Engineers, Inc. (Class 1)	AVCON, Inc. (Class 1)
The Balmoral Group, LLC (Class 1)	Global-5 Communications, Inc. (Class 1)
Kimley-Horn & Associates, Inc. (Class 1)	
WBQ Design & Engineering, Inc. (Class 1), (Survey only Class 2)	
Geotechnical and Environmental Consultants, Inc. (Class 2)	
Archaeological Consultants, Inc. (Class 2)	

CONSULTANT shall not further sublet, sell, transfer, assign, delegate, subcontract, or otherwise dispose of this Contract or any portion thereof, or of the CONSULTANT's right, title, or interest therein without the written consent of CFX, which may be withheld in CFX's sole and absolute discretion. Any attempt by CONSULTANT to dispose of this Contract as described above, in part or in whole, without CFX's written consent shall be null and void and shall, at CFX's option, constitute a default under the Contract.

If, during the term of the Contract, CONSULTANT desires to subcontract any portion(s) of the work to a subconsultant that was not disclosed by the CONSULTANT to CFX at the time that the Contract was originally awarded, and such subcontract would, standing alone or aggregated with prior subcontracts awarded to the proposed subconsultant, equal or exceed twenty five thousand dollars

(\$25,000.00), the CONSULTANT shall first submit a request to CFX's Director of Procurement for authorization to enter into such subcontract. Except in the case of an emergency, as determined by the Executive Director or his/her designee, no such subcontract shall be executed by the CONSULTANT until it has been approved by CFX Board. In the event of a designated emergency, the CONSULTANT may enter into such a subcontract with the prior written approval of the Executive Director or his/her designee, but such subcontract shall contain a provision that provides that it shall be automatically terminated if not approved by CFX Board at its next regularly scheduled meeting.

6.0 SERVICES TO BE PROVIDED

The work covered by this Agreement as described in **Exhibit "A"**.

All documents, reports, studies and other data prepared by the CONSULTANT shall bear the endorsement of a person in the full employ of the CONSULTANT and duly registered by the State of Florida in the appropriate professional category.

After CFX's acceptance of documents for the Project, the original set of CONSULTANT's drawings, tracings, plans, maps and CADD files shall be provided to CFX. The CONSULTANT shall signify, by affixing an endorsement (seal/signature, as appropriate) on every sheet of the record set, that the work shown on the endorsed sheets was produced by the CONSULTANT. With the tracings and the record set of prints, the CONSULTANT shall submit a final set of design computations. The computations shall be bound in an 8-1/2 x 11" format and shall be endorsed (seal/signature, as appropriate) by the CONSULTANT. Refer to **Exhibit "A"** for the computation data required for this Agreement.

The CONSULTANT shall submit a final set of reports and studies which shall be endorsed (seal/signature) by the CONSULTANT.

The CONSULTANT shall not be liable for use by CFX of said documents, reports, studies or other data for any purpose other than intended by the terms of this Agreement.

7.0 COMPENSATION

CFX agrees to pay the CONSULTANT compensation as detailed in **Exhibit "B"**, Method of Compensation, attached hereto and made a part hereof, in the not-to-exceed amount of \$1,438,000.00 for the initial five-year term of this Agreement. Bills for fees or other compensation for services or expenses shall be submitted to CFX in detail sufficient for a proper pre-audit and post audit thereof.

The CONSULTANT may be liable for CFX costs resulting from errors or deficiencies in designs furnished under this Agreement. CFX may enforce such liability and collect the amount due if the recoverable cost will exceed the administrative cost involved or is otherwise in CFX's best interest.

Records of costs incurred by the CONSULTANT under terms of this Agreement shall be maintained and made available upon request to CFX at all times during the period of this Agreement and for five (5) years after final payment is made. Copies of these documents and records shall be furnished to CFX upon request. The CONSULTANT agrees to incorporate the provisions of this paragraph in any subcontract into which it might enter with reference to the work performed. The obligations in this paragraph survive the termination of the Agreement and continue in full force and effect.

Records of costs incurred includes the CONSULTANT's general accounting records and the Project records, together with supporting documents and records, of the CONSULTANT and all subconsultants performing work on the Project, and all other records of the CONSULTANT and subconsultants considered necessary by CFX for a proper audit of Project costs.

The general cost principles and procedures for the negotiation and administration, and the determination or allowance of costs under this Agreement shall be as set forth in the Code of Federal Regulations, Titles 23, 48, 49, and other pertinent Federal and State Regulations, as applicable, with the understanding that there is no conflict between State and Federal regulations in that the more restrictive of the applicable regulations will govern. Whenever travel costs are included in **Exhibit "B"**, the provisions of Section 112.061, Florida Statutes, shall govern as to reimbursable costs.

8.0 DOCUMENT OWNERSHIP AND RECORDS

All plans, documents, reports, studies, and/or other data prepared or obtained under this Agreement shall be considered instruments made for services and shall become the property of CFX without restriction or limitation on their use on this Project; and shall be made available, upon request, to CFX at any time. CFX will have the right to visit the site for inspection of the work and the drawings of the CONSULTANT at any time. Unless changed by written agreement of the parties, said site shall be 3000 Dovera Drive, Suite 200, Oviedo, Florida 32765.

Notwithstanding Section 17, entitled "Communications, Public Relations, and Use of Logos," CONSULTANT acknowledges that CFX is a body politic and corporate, an agency of the State of Florida, and is subject to the Public Records Act codified in Chapter 119, Florida Statutes. To the extent that the CONSULTANT is in the possession of documents that fall within the definition of public records subject to the Public Records Act, which public records have not yet been delivered to CFX, CONSULTANT agrees to comply with Section 119.0701, 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 CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT Phone: 407-690-5000, e-mail:

**publicrecords@cfxway.com, and address: Central Florida
Expressway Authority, 4974 ORL Tower Road, Orlando, FL. 32807.**

An excerpt of Section 119.0701, Florida Statutes is below.

Per Section 119.0701(1), "Contractor" means an individual, partnership, corporation, or business entity that enters into a contract for services with a public agency and is acting on behalf of the public agency as provided under s. 119.011(2).

Per Section 119.0701(b). The contractor shall comply with public records laws, specifically to:

1. Keep and maintain public records required by the public agency to perform the service.
2. 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.
3. 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 contract if the contractor does not transfer the records to the public agency.
4. Upon completion of the contract, 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 contractor transfers all public records to the public agency upon completion of the contract, the contractor shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the contractor keeps and maintains public records upon completion of the contract, the contractor 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.

The obligations in Section 8.0, Document Ownership and Records, shall survive the expiration or termination of this Agreement and continue in full force and effect.

The CONSULTANT shall allow public access to all documents, papers, letters, or other material as approved and authorized by CFX and subject to the provisions of Chapter 119, Florida Statutes, and made or received by the CONSULTANT in conjunction with this Agreement. Failure by the CONSULTANT to grant such public access shall be grounds for immediate unilateral cancellation of this Agreement by CFX.

9.0 COMPLIANCE WITH LAWS

The CONSULTANT shall comply with all federal, state and local laws and ordinances applicable to the work or payment for work thereof, and shall not discriminate on the grounds of race, color, religion, sex, or national origin in the performance of work under this contract.

The CONSULTANT shall keep fully informed regarding and shall fully and timely comply with all current laws and future laws that may affect those engaged or employed in the performance of this Agreement.

10.0 WAGE RATES AND TRUTH-IN-NEGOTIATIONS CERTIFICATE

The CONSULTANT hereby certifies, covenants and warrants that wage rates and other factual unit costs as shown in attached **Exhibit "C"**, Details of Costs and Fees, supporting the compensation provided in Section 7.0 are accurate, complete and current as of the date of this Agreement. It is further agreed that said price provided in Section 7.0 hereof shall be adjusted to exclude any significant sums where CFX shall determine the price was increased due to inaccurate, incomplete or non-current wage rates and other factual unit costs. All such adjustments shall be made within one year following the date of final billing or acceptance of the work by CFX, whichever is later.

11.0 TERMINATION

CFX may terminate this Agreement in whole or in part, for any reason or no reason, at any time the interest of CFX requires such termination.

If CFX determines that the performance of the CONSULTANT is not satisfactory, CFX shall have the option of (a) immediately terminating the Agreement or (b) notifying the CONSULTANT of the deficiency with a requirement that the deficiency be corrected within a specified time, otherwise the Agreement will be terminated at the end of such time.

If CFX requires termination of the Agreement for reasons other than unsatisfactory performance of the CONSULTANT, CFX shall notify the CONSULTANT in writing of such termination, not less than seven (7) calendar days as to the effective date of termination or specify the stage of work at which the Agreement is to be terminated.

If CFX abandons the work or subtracts from the work, suspends, or terminates the Agreement as presently outlined, the CONSULTANT shall be compensated in accordance with **Exhibit "B"** for work properly performed by the CONSULTANT prior to abandonment or termination of the Agreement. The ownership of all engineering documents completed or partially completed at the time of such termination or abandonment, shall be transferred to and retained by CFX.

CFX reserves the right to cancel and terminate this Agreement in the event the CONSULTANT or any employee, servant, or agent of the CONSULTANT is indicted or has a direct information issued against him for any crime arising out of or in conjunction with any work being performed by the CONSULTANT for or on behalf of CFX, without penalty. It is understood and agreed that in the event of such termination, all tracings, plans, specifications, maps, and data prepared or obtained under this Agreement shall immediately be turned over to CFX. The CONSULTANT shall be compensated for work properly performed rendered up to the time of any such termination in accordance with Section 7.0 hereof. CFX also reserves the right to terminate or cancel this Agreement in the event the CONSULTANT shall be placed in either voluntary or involuntary bankruptcy or an assignment be made for the benefit of creditors. CFX further reserves the right to suspend the qualifications of the CONSULTANT to do business with CFX upon any such indictment or direct information. In the event that any such person against whom any such indictment or direct information is brought shall have such indictment or direct information dismissed or be found not guilty, such suspension on account thereof may be lifted by CFX.

12.0 ADJUSTMENTS

All services shall be performed by the CONSULTANT to the reasonable satisfaction of the Project Manager who shall decide all questions, difficulties and dispute of any nature whatsoever that may arise under or by reason of this Agreement, the prosecution and fulfillment of the services hereunder and the character, quality, amount and value thereof. Adjustments of compensation and term of the Agreement, because of any major changes in the work that may become necessary or desirable as the work progresses, shall be left to the absolute discretion of the Executive Director and Supplemental Agreement(s) of such a nature as required may be entered into by the parties in accordance herewith. Disputes between the Project Manager and the CONSULTANT that cannot be resolved shall be referred to the Executive Director whose decision shall be final.

In the event that the CONSULTANT and CFX are not able to reach an agreement as to the amount of compensation to be paid to the CONSULTANT for supplemental work desired by CFX, the CONSULTANT shall be obligated to proceed with the supplemental work in a timely manner for the amount determined by CFX to be reasonable. In such event, the CONSULTANT will have the right to file a claim with CFX for such additional amounts as the CONSULTANT deems reasonable for consideration by the Executive Director; however, in no event will the filing of the claim or the resolution or litigation thereof, through administrative procedures or the courts, relieve the CONSULTANT from the obligation to timely perform the supplemental work.

13.0 CONTRACT LANGUAGE AND INTERPRETATION

All words used herein in the singular form shall extend to and include the plural. All words used in the plural form shall extend to and include the singular. All words used in any gender shall extend to and include all genders.

References to statutes or regulations shall include all statutory or regulatory provisions consolidating, amending, or replacing the statute or regulation referred to. Words not otherwise defined that have well known technical or industry meanings, are used in accordance with such recognized meanings. References to persons include their respective functions and capacities.

If the CONSULTANT discovers any material discrepancy, deficiency, ambiguity, error, or omission in this Agreement, or is otherwise in doubt as to the meaning of any provision of the Agreement, the CONSULTANT shall immediately notify CFX and request clarification of CFX's interpretation of this Agreement.

The Agreement shall not be more strictly construed against either party hereto by reason of the fact that one party may have drafted or prepared any or all of the terms and provisions hereof.

14.0 HOLD HARMLESS AND INDEMNIFICATION

The CONSULTANT shall indemnify, defend, and hold harmless CFX, and its officers, and employees from any claim, liabilities, losses, damages, and costs, including, but not limited to, reasonable attorneys' fees, 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 Agreement. The CONSULTANT shall indemnify and hold harmless CFX and all of its officers and employees from any liabilities, losses, damages, costs, including, but not limited to reasonable attorneys' fee, arising out of any negligent act, error, omission by the CONSULTANT, its agents, employees, or subcontractors during the performance of the Agreement, except that neither the CONSULTANT, its agents, employees nor any of its subconsultants will be liable under this paragraph for any claim, loss, damage, cost, charge or expense arising solely out of any act, error, omission or negligent act by CFX or any of its officers, agents or employees during the performance of the Agreement.

When CFX receives a notice of claim for damages that may have been caused by the CONSULTANT in the performance of services required by the CONSULTANT under this Agreement, CFX will immediately forward the notice of claim to the CONSULTANT. The CONSULTANT and the AUTHORITY will evaluate the notice of claim and report their findings to each other within fourteen (14) calendar days.

In the event a lawsuit is filed against CFX alleging negligence or wrongdoing by the CONSULTANT, CFX and the CONSULTANT will jointly discuss options in defending the lawsuit. After reviewing the lawsuit, CFX will determine whether to request the participation of the

CONSULTANT in the defense of the lawsuit or to request that the CONSULTANT defend CFX in such lawsuit as described in this section. CFX's failure to notify the CONSULTANT of a notice of claim will not release the CONSULTANT from any of the requirements of this section upon subsequent notification by CFX to the CONSULTANT of the notice of claim or filing of a lawsuit. CFX and the CONSULTANT will pay their own cost for the evaluation, settlement negotiations and trial, if any. However, if only one party participates in the defense of the claim at trial, that party is responsible for all of its costs, but if the verdict determines that there is joint responsibility, the costs of defense and liability for damages will be shared in the same percentage as that judicially established, provided that CFX's liability does not exceed the limits and limitations arising from Section 768.28, Florida Statutes, the doctrine of sovereign immunity, and law.

CFX is an agency of the State of Florida whose limits of liability are set forth in Section 768.28, Florida Statutes, and nothing herein shall be construed to extend the limits of liability of CFX beyond that provided in Section 768.28, Florida Statutes. Nothing herein is intended as a waiver of CFX's sovereign immunity under Section 768.28, Florida Statutes, or law. Nothing hereby shall inure to the benefit of any third party for any purpose, which might allow claims otherwise barred by sovereign immunity or operation of law. Furthermore, all of CFX's obligations are limited to the payment of no more than the amount limitation per person and in the aggregate contained in Section 768.28, Florida Statutes, except for payments for work properly performed, even if the sovereign immunity limitations of that statute are not otherwise applicable to the matters as set forth herein.

The CONSULTANT shall pay all royalties and assume all costs arising from the use of any invention, design, process materials, equipment, product or device which is the subject of patent rights or copyrights. The CONSULTANT shall, at its expense, hold harmless and defend CFX against any claim, suit or proceeding brought against CFX which is based upon a claim, whether rightful or otherwise, that the goods or services, or any part thereof, furnished under this Agreement, constitute an infringement of any patent or copyright of the United States. The CONSULTANT shall pay all damages and costs awarded against CFX.

The obligations in Section 14.0, Hold Harmless and Indemnification, shall survive the expiration or termination of this Agreement and continue in full force and effect.

15.0 THIRD PARTY BENEFICIARY

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 the CONSULTANT 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. It is understood and agreed that the term "fee" shall also include brokerage fee, however denoted. For the breach or violation of this paragraph, CFX shall have the right to terminate this Agreement without liability, and, at its discretion, to deduct from the contract price, or otherwise recover, the full amount of such fee, commission percentage, gift or consideration.

16.0 INSURANCE

The CONSULTANT, at its own expense, shall keep in force and at all times maintain during the term of this Agreement all insurance of the types and to the limits specified herein.

The CONSULTANT shall require and ensure that each of its subconsultants providing services hereunder procures and maintains, until the completion of the services, insurance of the requirements, types and to the limits specified herein. Upon request from CFX, the CONSULTANT shall furnish copies of certificates of insurance and endorsements evidencing coverage of each subconsultant.

The CONSULTANT shall require all insurance policies in any way related to the work and secured and maintained by the CONSULTANT to include clauses stating each underwriter shall waive all rights of recovery, under subrogation or otherwise, against CFX. The CONSULTANT shall require of subconsultants, by appropriate written agreements, similar waivers each in favor of all parties enumerated in this section. When required by the insurer, or should a policy condition not permit an endorsement, the CONSULTANT agrees to notify the insurer and request that the policy(ies) be endorsed with a Waiver of Transfer of Rights of Recovery Against Others, or an equivalent endorsement. This Waiver of Subrogation requirement shall not apply to any policy, which includes a condition that specifically prohibits such an endorsement or voids coverage should the CONSULTANT enter into such an agreement on a pre-loss basis. At the CONSULTANT's expense, all limits must be maintained.

16.1 Commercial General Liability coverage shall be on an occurrence form policy for all operations including, but not limited to, Contractual, Products and Completed Operations, and Personal Injury. The limits shall be not less than One Million Dollars (\$1,000,000) per occurrence, Combined Single Limits (CSL) or its equivalent. The general aggregate limit shall apply separately to this Agreement (with the ISO CG 25 01 or insurer's equivalent endorsement provided to CFX) or the general aggregate limit shall be twice the required occurrence limit. CFX shall be listed as an additional insured. The CONSULTANT further agrees coverage shall not contain any endorsement(s) excluding or limiting Product/Completed Operations, Independent Consultants, Broad Form Property Damage, X-C-U Coverage, Contractual Liability, or Severability of Interests. The Additional Insured Endorsement included on all such insurance policies shall state that coverage is afforded the additional insured with respect to claims arising out of operations performed by or on behalf of the insured. If the additional insureds have other insurance which is applicable to the loss, such other insurance shall be excess to any policy of insurance required herein. The amount of the insurer's liability shall not be reduced by the existence of such other insurance.

16.2 Business Automobile Liability coverage shall be on an occurrence form policy for all owned, non-owned and hired vehicles issued on ISO form CA 00 01 or its equivalent. The limits shall

be not less than One Million Dollars (\$1,000,000) per occurrence, Combined Single Limits (CSL) or its equivalent. In the event the CONSULTANT does not own automobiles the CONSULTANT shall maintain coverage for hired and non-owned auto liability, which may be satisfied by way of endorsement to the Commercial General Liability policy or separate Business Auto Liability policy.

Each of the above insurance policies shall include the following provisions: (1) The standard severability of interest clause in the policy and when applicable the cross liability insurance coverage provision which specifies that the inclusion of more than one insured shall not operate to impair the rights of one insured against another insured, and the coverages afforded shall apply as though separate policies had been issued to each insured; (2) The stated limits of liability coverage for Commercial/Comprehensive General Liability, and Business Automobile Liability, assumes that the standard "supplementary payments" clause will pay in addition to the applicable limits of liability and that these supplementary payments are not included as part of the insurance policies limits of liability.

16.3 Workers' Compensation and Employer's Liability Insurance shall be provided as required by law or regulation (statutory requirements). Employer's Liability insurance shall be provided in amounts not less than \$100,000 per accident for bodily injury by accident, \$100,000 per employee for bodily injury by disease, and \$500,000 policy limit by disease. The Workers' Compensation policy shall be endorsed with a waiver of subrogation in favor of CFX for all work performed by the CONSULTANT, its employees, agents and subconsultants.

16.4 Professional Liability Coverage shall have limits of not less than One Million Dollars (\$1,000,000) Combined Single Limit (CSL) or its equivalent, protecting the selected firm or individual against claims of CFX for negligence, errors, mistakes or omissions in the performance of services to be performed and furnished by the CONSULTANT.

The CONSULTANT shall provide CFX with Certificate(s) of Insurance with required endorsements on all the policies of insurance and renewals thereof in a form(s) acceptable to CFX. CFX shall be notified in writing of any reduction, cancellation or substantial change of policy or policies at least thirty (30) days prior to the effective date of said action.

All insurance policies shall be issued by responsible companies who are acceptable to CFX and licensed to do business under the laws of the State of Florida. Each Insurance company shall minimally have an A.M. Best rating of A-:VII. If requested by CFX, CFX shall have the right to examine copies and relevant provisions of the insurance policies required by this Agreement, subject to the appropriate confidentiality provisions to safeguard the proprietary nature of CONSULTANT manuscript policies.

Any deductible or self-insured retention must be declared to and approved by CFX. At the option of CFX, either the insurer shall reduce or eliminate such deductibles or self-insured retentions as requests CFX, or the CONSULTANT shall procure a bond guaranteeing payment of losses and related investigations, claim administration and defense expenses.

All such insurance required by the CONSULTANT shall be primary to, and not contribute with, any insurance or self-insurance maintained by CFX.

Compliance with these insurance requirements shall not relieve or limit the CONSULTANT's liabilities and obligations under this Agreement. Failure of CFX to demand such certificate or evidence of full compliance with these insurance requirements or failure of CFX to identify a deficiency from evidence provided will not be construed as a waiver of the CONSULTANT's obligation to maintain such insurance.

The acceptance of delivery by CFX of any certificate of insurance evidencing the required coverage and limits does not constitute approval or agreement by CFX that the insurance requirements have been met or the insurance policies shown in the certificates of insurance are in compliance with the requirements.

17.0 COMMUNICATIONS, PUBLIC RELATIONS, AND USE OF LOGOS

The CONSULTANT agrees that it shall make no statements, press releases or publicity releases concerning this Agreement or its subject matter or otherwise disclose or permit to be disclosed any of the data or other information obtained or furnished in compliance with this Agreement, or any particulars thereof, during the period of the Agreement, without first notifying CFX and securing its consent in writing, except as required by law. The CONSULTANT also agrees that it shall not publish, copyright or patent any of the data, documents, reports, or other written or electronic materials furnished in compliance with this Agreement, it being understood that, under Section 8.0 hereof, such data or information is the property of CFX.

Regarding the use of logos, printed documents and presentations produced for CFX shall not contain the name or logo of the CONSULTANT unless approved by CFX's Public Affairs Officer or his/her designee. Prior approval by CFX's Public Affairs Officer or his/her designee is required if a copy of the CFX logo or any CFX mark, including trademarks, service marks, or any other mark, collectively referred as "Marks," is to be used in a document or presentation. The Marks shall not be altered in any way. The width and height of the Marks shall be of equal proportions. If a black and white Mark is utilized, the Mark shall be properly screened to insure all layers of the Mark are visible. The proper presentation of CFX Marks is of utmost importance to CFX. Any questions regarding the use of CFX Marks shall be directed to the CFX Public Affairs Officer or his/her designee.

18.0 STANDARD OF CONDUCT

The CONSULTANT covenants and agrees that it and its employees shall be bound by the standards of conduct provided in Florida Statutes 112.313 and the CFX Code of Ethics as it relates to work performed under this Agreement, which standards will by reference be made a part of this Agreement as though set forth in full. The CONSULTANT agrees to complete the Potential Conflict Disclosure Form with contract execution, annually by July 1, and in the event of changed circumstances.

The CONSULTANT agrees to incorporate the provisions of this paragraph in any subcontract into which it might enter with reference to the work performed.

The CONSULTANT acknowledges that it has read CFX's Code of Ethics and the referenced statutes and to the extent applicable to the CONSULTANT, agrees to abide with such policy.

19.0 DOCUMENTED ALIENS

The CONSULTANT warrants that all persons performing work for CFX under this Agreement, regardless of the nature or duration of such work, shall be United States citizens or properly authorized and documented aliens. The CONSULTANT shall comply with all federal, state and local laws and regulations pertaining to the employment of unauthorized or undocumented aliens at all times during the performance of this Agreement and shall indemnify and hold CFX harmless for any violations of the same. Furthermore, if CFX determines that CONSULTANT has knowingly employed any unauthorized alien in the performance of this Agreement, CFX may immediately and unilaterally terminate this Agreement for cause.

20.0 E-VERIFY CLAUSE

CONSULTANT shall utilize the U.S. Department of Homeland Security's E-Verify System to verify the employment eligibility of all new employees hired by the CONSULTANT during the term of the contract. CONSULTANT shall require all of its subconsultants to verify the employment eligibility of all new employees hired by the subconsultants during the term of the Agreement.

21.0 CONFLICT OF INTEREST

The CONSULTANT shall not knowingly enter into any other contract with CFX during the term of this Agreement which would create or involve a conflict of interest with the services provided herein. Likewise, subconsultants shall not knowingly enter into any other contract with CFX during the term of this Agreement which would create or involve a conflict of interest with the service provided herein and as described below. Questions regarding potential conflicts of interest shall be addressed to the Executive Director for resolution.

During the term of this Agreement:

The CONSULTANT is NOT eligible to pursue any advertised construction engineering and inspection projects of CFX as either a prime or subconsultant where the CONSULTANT participated in the oversight of the projects or for any project which the CONSULTANT prepared plans and/or specifications. Subconsultants are also ineligible to pursue construction engineering and inspection projects where they participated in the oversight of the projects or for any project which the subconsultant was involved in the preparation of plans and/or specifications.

22.0 INSPECTOR GENERAL

CONSULTANT agrees to comply with Section 20.055(5), Florida Statutes, and agrees to cooperate with the inspector general in any investigation, audit, inspection, review, or hearing pursuant to this section. CONSULTANT agree to incorporate in all subcontracts the obligation to comply with Section 20.055(5). The obligations in this paragraph shall survive the expiration or termination of this Agreement and continue in full force and effect.

23.0 PUBLIC ENTITY CRIME INFORMATION AND ANTI-DISCRIMINATION STATEMENT

Pursuant to Section 287.133(2)(a), Florida Statutes, “a person or affiliate who has been placed on the [Florida Department of Management Services] convicted vendor list following a conviction for a public entity crime may not submit a bid, proposal, or reply on a contract to provide any goods or services to a public entity; may not submit a bid, proposal, or reply on a contract with a public entity for the construction or repair of a public building or public work; may not submit bids, proposals, or replies on leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity in excess of the threshold amount provided in s. 287.017 for CATEGORY TWO (\$35,000) for a period of 36 months following the date of being placed on the [Florida Department of Management Services] convicted vendor list.”

Pursuant to Section 287.134(2)(a), Florida Statutes, “an entity or affiliate who has been placed on the [Florida Department of Management Services] discriminatory vendor list may not submit a bid, proposal, or reply on a contract to provide any goods or services to a public entity; may not submit a bid, proposal, or reply on a contract with a public entity for the construction or repair of a public building or public work; may not submit bids, proposals, or replies on leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity.”

24.0 INTEGRATION

This Agreement constitutes the entire agreement among the parties pertaining to the subject matter hereof and supersedes all prior and contemporaneous agreements, understandings, negotiations and discussions of the parties, whether oral or written, and there are no other agreements between the parties in connection with the subject matter hereof. No waiver, amendment, or modification of these terms hereof will be valid unless in writing, signed by all parties and only to the extent therein set forth.

25.0 ASSIGNMENT

This Agreement may not be assigned without the written consent of CFX.

26.0 AVAILABILITY OF FUNDS

CFX's performance and obligation to pay under this Agreement are contingent upon an annual budget appropriation by its Board. The parties agree that in the event funds are not appropriated, this Agreement may be terminated, which shall be effective upon CFX giving notice to the CONSULTANT to that effect.

27.0 SEVERABILITY

The invalidity or non-enforceability of any portion or provision of this Agreement shall not affect the validity or enforceability of any other portion or provision. Any invalid or unenforceable portion or provision shall be deemed severed from this Agreement and the balance hereof shall be construed and enforced as if this Agreement did not contain such invalid or unenforceable portion or provision.

28.0 AUDIT AND EXAMINATION OF RECORDS

28.1 Definition of Records:

(i) "Contract Records" shall include, but not be limited to, all information, communications and data, whether in writing or stored on a computer, computer disks, microfilm, writings, working papers, drafts, computer printouts, field notes, charts or any other data compilations, books of account, photographs, videotapes and audiotapes supporting documents, any other papers or preserved data in whatever form, related to the Contract or the CONSULTANT's performance of the Contract determined necessary or desirable by CFX for any purpose. Proposal Records shall include, but not be limited to, all information and data, whether in writing or stored on a computer, writings, working papers, computer printouts, charts or other data compilations that contain or reflect information, data or calculations used by CONSULTANT in determining labor, unit price, or any other component of a bid submitted to CFX.

(ii) "Proposal Records" shall include, but not be limited to, any material relating to the determination or application of equipment rates, home and field overhead rates, related time schedules, labor rates, efficiency or productivity factors, arithmetic extensions, quotations from subcontractors, or material suppliers, profit contingencies and any manuals standard in the industry that may be used by CONSULTANT in determining a price.

28.2 CFX reserves and is granted the right (at any time and from time to time, for any reason whatsoever) to review, audit, copy, examine and investigate in any manner, any Contract Records (as herein defined) or Proposal Records (as hereinafter defined) of the CONSULTANT or any subcontractor. By submitting a response to the Request for Proposal, CONSULTANT or any subcontractor submits to and agree to comply with the provisions of this section.

28.3 If CFX requests access to or review of any Contract Documents or Proposal Records and CONSULTANT refuses such access or review, or delays such access or review for over ten (10) calendar days, CONSULTANT shall be in default under its Contract with CFX, and such refusal shall, without any other or additional actions or omissions, constitute grounds for suspension or disqualification of CONSULTANT. These provisions shall not be limited in any manner by the existence of any CONSULTANT claims or pending litigation relating to the Contract. Disqualification or suspension of the CONSULTANT for failure to comply with this section shall also preclude the CONSULTANT from acting in the future as a subcontractor of another contractor doing work for CFX during the period of disqualification or suspension. Disqualification shall mean the CONSULTANT is not eligible for and shall be precluded from doing future work for CFX until reinstated by CFX.

28.4 Final Audit for Project Closeout: The CONSULTANT shall permit CFX, at CFX's option, to perform or have performed, an audit of the records of the CONSULTANT and any or all subconsultants to support the compensation paid the CONSULTANT. The audit will be performed as soon as practical after completion and acceptance of the contracted services. In the event funds paid to the CONSULTANT under the Contract are subsequently determined to have been inadvertently paid by CFX because of accounting errors or charges not in conformity with the Contract, the CONSULTANT agrees that such amounts are due to CFX upon demand. Final payment to the CONSULTANT shall be adjusted for audit results.

28.5 CONSULTANT shall preserve all Proposal Records and Contract Records for the entire term of the Contract and for a period of five (5) years after the later of: (i) final acceptance of the Project by CFX, (ii) until all claims (if any) regarding the Contract are resolved, or (iii) expiration of the Proposal Records and Contract Records' status as public records, as and if applicable, under Chapter 119, Florida Statutes.

28.6 The obligations in Section 28.0, Audit and Examination of Records, shall survive the expiration or termination of this Agreement and continue in full force and effect.

29.0 NOTICE

All notices required pursuant to the terms hereof shall be sent by First Class United States Mail. Unless prior written notification of an alternate address for notices is sent, all notices shall be sent to the following addresses:

To CFX: Central Florida Expressway Authority
4974 ORL Tower Road
Orlando, FL 32807
Attn: Chief of Infrastructure

Project No. 599-222
Contract No. 001249

Central Florida Expressway Authority
4974 ORL Tower Road
Orlando, FL 32807
Attn: General Counsel

To CONSULTANT: Inwood Consulting Engineers, Inc.
3000 Dovera Drive, Suite 200
Oviedo, Florida 32765
Attn: Alex Hull, P.E.

Attn: _____

30.0 GOVERNING LAW AND VENUE

This Agreement shall be governed by and constructed in accordance with the laws of the State of Florida. The parties consent to the exclusive jurisdiction of the courts located in Orange County, Florida. The obligations in Section 30.0, Governing Law and Venue, shall survive the expiration or termination of this Agreement and continue in full force and effect.

31.00 ATTACHMENTS

Exhibit "A", Scope of Services
Exhibit "B", Method of Compensation
Exhibit "C", Details of Cost and Fees
Exhibit "D", Project Organization Chart
Exhibit "E", Project Location Map
Exhibit "F", Project Schedule

[SIGNATURES TO FOLLOW]

Project No. 599-222
Contract No. 001249

IN WITNESS WHEREOF, the CONSULTANT and CFX have caused this instrument to be signed by their respective duly authorized officials, as of the day and year first above written. This Contract was awarded by CFX's Board of Directors at its meeting on March 9, 2017.

INWOOD CONSULTING ENGINEERS, Inc.

**CENTRAL FLORIDA
EXPRESSWAY AUTHORITY**

BY: _____
Authorized Signature

BY: _____
Director of Procurement

Print Name: _____

Print Name: _____

Title: _____

Effective Date: _____

ATTEST: _____ (Seal)
Secretary or Notary

Approved as to form and execution, only.

General Counsel for CFX

EXHIBIT A

SCOPE OF SERVICES

EXHIBIT A

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SCOPE OF SERVICES

FOR

CONCEPT, FEASIBILITY & MOBILITY STUDIES

FOR THE

NORTHEAST CONNECTOR EXPRESSWAY

CONTRACT 001249

MARCH, 2017

Exhibit A

SCOPE OF SERVICES

TABLE OF CONTENTS

<u>Description</u>	<u>Page No.</u>
1.0 OVERVIEW	A-1
2.0 LOCATION	A-1
3.0 PURPOSE	A-1
4.0 OBJECTIVE	A-1
5.0 GOVERNING REGULATIONS	A-2
6.0 PROJECT MANAGEMENT AND ADMINISTRATION	A-3
6.1 Notice to Proceed Meeting	A-3
6.2 Key Personnel	A-3
6.3 Project Schedule	A-3
6.4 Correspondence	A-3
6.5 Quality Control	A-3
6.6 Project Management, Meetings and Coordination	A-4
7.0 PUBLIC INVOLVEMENT	A-4
7.1 Public Involvement Plan	A-4
7.2 Mailing List	A-4
7.3 Public Meeting	A-5
7.4 Board Meetings	A-6
7.5 Advisory Groups	A-6
7.6 Project Kick-Off Letter	A-6
7.7 Unscheduled Project Meetings	A-7
7.8 Project Information Line/General Public Correspondence	A-7
7.9 Project Newsletters	A-7
7.10 Project Webpage	A-7
8.0 DATA COLLECTION	A-7
8.1 Aerial Photography	A-8
8.2 Traffic Data	A-8
8.3 Transportation Plans	A-8
8.4 Land Use and Development Plans	A-8
8.5 Physical/Natural Environmental Information	A-8

TABLE OF CONTENTS (Cont.)

8.6	Interagency and Stakeholder Coordination	A-9
8.7	Study Area Base Maps	A-9
8.8	Confirm Corridor Limits	A-9
8.9	Data Collection Summary Technical Memorandum (Deliverable)	A-9
9.0	ESTABLISH PURPOSE AND NEED	A-9
10.0	MOBILITY PROGRAM ALTERNATIVES	A-10
10.1	No-Build Alternative	A-10
10.2	Develop Alternative Mobility Programs	A-10
10.3	Evaluate and Refine Mobility Programs	A-11
10.4	Financial Viability Analysis	A-11
10.5	Concept, Feasibility and Mobility Study Report (Deliverable)	A-11
11.0	DELIVERABLES	A-12
12.0	DESIGN CRITERIA	A-12

1.0 Overview

The Central Florida Expressway Authority (CFX) requires the professional services of a qualified CONSULTANT to perform a comprehensive Concept, Feasibility and Mobility Study (Study) of the Northeast Connector Expressway project as identified in the Osceola County Expressway Authority (OCX) Master Plan and the CFX Visioning + 2040 Master Plan.

2.0 Location

The general limits and descriptions of the Northeast Connector Expressway project corridor is provided below. The CONSULTANT will be responsible for refining the corridor limits and defining the logical termini for the project.

Northeast Connector Expressway: The Northeast Connector Expressway extends from the Southport Connector Expressway at Canoe Creek Road, northeast to the vicinity of the Osceola/ Orange County line, for a length of approximately 25 miles. The Northeast Connector Expressway has been known as the Southport Connector East and the SR 417 Southern Extension in previous studies and discussions. The Northeast Connector will allow for a connection to the Osceola Parkway Extension corridor and will also study a possible connection to proposed Corridor I as identified in the CFX 2040 Master Plan. The project includes the interchange with Florida's Turnpike.

The Northeast Connector Expressway corridor is generally depicted on **Exhibit "E"**.

3.0 Purpose

The purpose of this Exhibit is to describe the scope of work for the Study and the responsibilities of the CONSULTANT, CFX, CFX's general engineering consultant (GEC) and CFX's traffic and earnings (T&E) consultant.

4.0 Objective

The Study will include the development and evaluation of alternate mobility programs within the project corridor. The work will include the evaluation and documentation of the physical, natural, social, and cultural environment within the corridors and the potential impacts associated with the various mobility alternatives. This analysis will also address economic and engineering feasibility, mobility capacity and levels of service; conceptual geometry and structures; and potential interchanges and intersection improvement. Public involvement and interagency coordination will be an integral part of the assessment process.

The CONSULTANT, in coordination with CFX and its T&E Consultant will forecast the future transportation demands within each corridor (design year of 2045). The CONSULTANT will then develop a range of transportation mobility options and programs that could adequately meet the future demand. Corridor mobility elements to be considered will include but are not necessarily constrained to limited access tolled expressways, mass transit technologies, and intermodal facilities. The CONSULTANT will be responsible for estimating the overall project costs associated with each mobility alternative, including planning, design, construction, operations, permitting and other project related costs. The GEC will be responsible for estimating the right-of-way acquisition costs based on input from the CONSULTANT.

The general objective of this Study is to provide documented information necessary for CFX to reach a decision on the viability of each mobility option. Viability is defined in the Interlocal Agreement by and among Osceola County, CFX and OCX as follows:

“Viable” or “Viability” shall mean an OCX Segment or any portion thereof that is projected in writing by CFX’s traffic and revenue consultant to generate toll revenues over a period of thirty years equal to at least fifty percent (50%) of the cost of such OCX Segment or applicable portion thereof; provided however, that with respect to an interchange portion of an OCX Segment or a portion of any OCX Segment located outside of the County, such interchange or portion of an OCX Segment outside the County is projected in writing by CFX’s traffic and revenue consultant to generate new CFX System Pledged Revenues over a period of thirty years in excess of the cost to build such interchange or portion of such OCX Segment. The cost of an OCX segment or portion thereof shall be determined by CFX, exercising reasonable judgment, as part of its Concept and Feasibility Study and the components of such cost (e.g., right-of-way, construction costs, financing costs, planning and design costs) shall be consistent with CFX’s past practices for such a determination and shall take into consideration any right-of-way donations and other public or private partnership contributions.

5.0 Governing Regulations

The services performed by the CONSULTANT shall comply with all applicable CFX and FDOT Manuals and Guidelines. The FDOT’s Manuals and Guidelines incorporate by requirement or reference all applicable State and Federal regulations. The current edition, including updates, of the following FDOT Manuals and Guidelines shall be used in the performance of this work. It is understood that AASHTO criteria shall apply as incipient policy. Some standards may not apply to the project, but are listed for reference.

- Florida Statutes
- Florida Administrative Codes
- Applicable federal regulations and technical advisories.
- Project Development and Environment Manual
- Plans Preparation Manual
- Roadway Traffic and Design Standards
- Highway Capacity Manual
- Manual of Uniform Traffic Control Devices (MUTCD)
- Manual of Uniform Minimum Standards for Design, Construction, and Maintenance for Streets and Highways
- Bicycle Facilities Planning and Design Manual
- Right-of-Way Mapping Handbook
- Location Survey Manual
- EFB User Guide
- Drainage Manual and Handbooks
- Outline Specifications - Aerial Surveys/Photogrammetry
- Soils and Foundations Manual
- Structures Design Guidelines
- CADD Manual (No. 625-050-001)

CADD Production Criteria Handbook
Florida's Level of Service Standards and Guidelines Manual for Planning (No. 525-000-005)
Equivalent Single Axle Load Guidelines (No. 525-030-121)
Design Traffic Procedure (No. 525-030-120)
K-Factor Estimation Process
Project Traffic Forecasting Guidelines
Florida Highway Landscape Guide
Basis of Estimates Manual

6.0 Project Management and Administration

CFX's General Engineering Consultant (GEC) will provide contract administration, project management services and technical reviews of all work associated with the development and preparation of the Study reports.

6.1 Notice to Proceed Meeting

The CONSULTANT shall meet with appropriate CFX, GEC and T&E personnel immediately following receipt of the Notice to Proceed. As a minimum, the CONSULTANT's Project Manager and senior project personnel shall attend. At the Notice to Proceed Meeting, CFX will:

- Render all relevant information in its possession
- Establish any ground rules upon which the Study process will be conducted
- Bring to the attention of the CONSULTANT any special or controversial issues to be considered in the Study
- Explain the financial administration of the contract

6.2 Key Personnel

The CONSULTANT'S work shall be performed and directed by the key personnel identified by the CONSULTANT and approved by CFX. Any proposed changes to key personnel shall be subject to review and approval by CFX.

6.3 Project Schedule

The Study is expected to have a twelve (12) month duration. Within ten (10) working days after receipt of the Notice-to-Proceed, the CONSULTANT shall provide a schedule of calendar deadlines to the GEC for review. The CONSULTANT shall update the project schedule on a monthly basis and inform CFX of any substantial potential schedule modifications.

6.4 Correspondence

Copies of all written correspondence between the CONSULTANT and any party pertaining specifically to this Study shall be provided to CFX and the GEC for their records within one (1) week of the receipt of said correspondence.

6.5 Quality Control

The CONSULTANT shall be responsible for ensuring that all work products conform to CFX standards and criteria. This shall be accomplished through an internal Quality Control (QC) process performed by the CONSULTANT. This QC process shall ensure that quality is achieved through checking, reviewing, and surveillance of work activities by objective and qualified

individuals who were not directly responsible for performing the initial work.

The CONSULTANT shall submit a Quality Assurance/Quality Control (QA/QC) Plan to the GEC for review and approval within ten (10) working days following the Notice to Proceed Meeting.

6.6 Project Management, Meetings and Coordination

The CONSULTANT shall meet with CFX staff and the GEC as needed throughout the life of the project. The CONSULTANT should be prepared to meet on a bi-monthly basis for progress meetings; therefore, 24 meetings should be anticipated. The actual frequency of the meetings will vary depending on the project stage and pending activities.

Progress reports shall be delivered to CFX in a format as prescribed by the GEC and no less than 10 days prior to submission of the corresponding invoice. Judgment on whether work of sufficient quality and quantity has been accomplished will be made by the GEC Project Manager by comparing the reported percent complete against actual work accomplished.

7.0 Public involvement

Public involvement includes communicating to and receiving information from all interested persons, groups, and government organizations on topics related to the Study. The CONSULTANT shall coordinate and perform the appropriate level of public involvement for this project as described in the following subsections. All public involvement tasks and activities will be coordinated with CFX's Public Affairs and Communications Department.

7.1 Public Involvement Plan

The CONSULTANT will prepare a comprehensive Public Involvement Plan (PIP) and submit to the GEC within ten (10) business days following the Notice to Proceed meeting.

The purpose of the PIP is to establish and maintain a strategy for early, meaningful, and continuous public and stakeholder involvement throughout the Study process.

The CONSULTANT shall perform all data collection activities necessary to prepare and implement the PIP including but not limited to the following:

- Identification of stakeholders and interested parties,
- Field review of potential meeting sites,
- Preparation and distribution of meeting announcements and notices,
- Preparation of meeting notes.

7.2 Mailing List

The CONSULTANT shall be responsible for developing, maintaining, and updating a project mailing list which will include:

- Public officials and their staffs
- Affected residents, business tenants and property owners within the corridor
- Environmental Advisory Group (EAG)
- Project Advisory Group (PAG)
- Interested parties, including:
 - Residents/property owners within the corridor
 - Other informed parties who notify the CONSULTANT that they desire to be

- added to the mailing list.
- Special interest groups

The CONSULTANT will incorporate the mailing lists received from any recently completed studies. The CONSULTANT will maintain the mailing list in a computer file which is acceptable to CFX. For each mailing, the CONSULTANT will provide CFX a computer file of the mailing list and a hard copy printout, certified by the CONSULTANT as true and correct. Additional groups and/or individuals may be included on the mailing list as requested.

7.3 Public Meeting

The CONSULTANT shall be responsible for conducting one (1) public information meeting. The meeting will be scheduled to coincide with submittal of the Draft Concept, Feasibility and Mobility Study Report. It is anticipated the meeting will be conducted in an open house format, with a brief scripted presentation and question and answer session.

The CONSULTANT shall prepare and/or provide:

- Handouts
- Display graphics and presentation
- Meeting equipment set-up and tear-down
- Legal and/or display advertisements (The CONSULTANT will pay the cost of publishing)
- Letters for notification of elected and appointed officials, affected property owners and other interested parties. (The CONSULTANT will pay the cost of first class postage.)
- News releases.

The CONSULTANT will investigate potential meeting sites and pay all costs for meeting site rents and insurance. The CONSULTANT will attend the meetings with an appropriate number of personnel to assist CFX staff.

Drafts of all notification advertisements and letters shall be submitted to CFX for its approval at least one week prior to mailing. Mailings, legal notices and/or newspaper display advertisements shall be the responsibility of the CONSULTANT. Actual copies of the notices shall be retained in the project files.

Within two (2) weeks after the public meeting, the CONSULTANT will prepare a complete meeting summary that will contain at a minimum:

- Advertisements and legal notices
- Fact Sheets
- Meeting Notes
- Sign-in sheets
- Comment sheets
- Draft responses to comments and inquiries (if appropriate)

The CONSULTANT will also be responsible for attending the Public Meetings of the other three CFX Feasibility Studies related to the OCX Master Plan. The CONSULTANT will provide exhibits and staff to address any questions related to their specific project.

7.4 Board Meetings

The CONSULTANT shall be responsible for conducting two (2) presentations each to the Osceola County Expressway Authority, Central Florida Expressway Authority and the Osceola County Board of County Commissioners. It is anticipated the presentations will be conducted to coincide with a scheduled Board Meeting with a brief scripted presentation and question and answer session.

The CONSULTANT shall prepare and/or provide:

- Handouts
- Display graphics and PowerPoint presentation
- Meeting equipment set-up and tear-down

7.5 Advisory Groups

The GEC shall establish a Project Advisory Group (PAG) and Environmental Advisory Group (EAG), which will include staff from the FDOT, Lynx, Orange County, Osceola County, Polk County, permitting agencies, environmental organizations, special interest groups and other entities as identified by CFX. The CONSULTANT will be available to meet with the PAG and EAG up to three (3) times each during the Study to present information regarding the project, receive input and respond to questions.

Potential meeting milestones will include:

- a) Project Kick-off
- b) Prior to Public Workshop
- c) Project Completion

The CONSULTANT will coordinate with CFX and the GEC to prepare the initial PAG and EAG members list. The GEC will be responsible for contacting the PAG and EAG members and maintaining coordination with them throughout the Study, however, the CONSULTANT will be responsible for preparing all materials, presentations, etc. distributed to the PAG/EAG members.

7.6 Project Kick-Off Letter

Within 30 calendar days after the Notice to Proceed meeting, the CONSULTANT will prepare and distribute a Project Kick-Off Letter to the following organizations: FDOT, METROPLAN ORLANDO, Polk TPO, local government agencies, the East Central Florida Regional Planning

Council, environmental regulatory agencies and any group or individual that expressed an interest in the project. The purpose of this letter will be to introduce the CONSULTANT to the local officials and to acquaint them with the Study, its purpose and objectives. Typical information shall include: Study team, project scope, project limits, schedule, and potential issues and concerns.

7.7 Unscheduled Project Meetings

The CONSULTANT may be required to participate in unscheduled meetings with the public, elected officials, or public agencies. The CONSULTANT shall be available with no more than a five (5) working day notice, to attend these meetings or make presentations at the request of

CFX. Such meetings and presentations may be held at any hour between 7:00 a.m. and 12:00 midnight on any day of the week. The CONSULTANT may be called upon to provide maps, draft news releases, audio-visual displays, and similar material for such meetings. The CONSULTANT shall be prepared to attend up to 24 such unscheduled meetings.

7.8 Project Information Line/General Public Correspondence

The CONSULTANT shall make available knowledgeable staff that interested parties may call with questions concerning the project. The CONSULTANT will be available to answer questions and respond to comments through this "Information Line" during regular business hours.

7.9 Project Newsletters

The CONSULTANT shall prepare and distribute three (3) project newsletters which will be designed to inform interested parties as to the status of the project. Newsletters shall have the quality of desk-top publishing and be comparable to the previous CFX work efforts. Distribution of the newsletters will coincide with key project milestones as follows:

- Project Kick-off
- Public Meeting / Workshop
- Project Completion

The CONSULTANT will distribute Newsletters to all interested parties, public officials, property owners, special interest groups, etc. as identified above. Distribution of the Newsletter may involve direct mail as well as distribution through various media such as public schools, churches, civic organizations, public libraries, etc.

7.10 Project Webpage

The CONSULTANT shall provide information about the Study to CFX for inclusion in their Webpage. After initial posting of the project information, the CONSULTANT shall provide updated information to CFX three (3) times during the Study.

8.0 Data Collection

Immediately following the Notice to Proceed, the CONSULTANT shall begin data collection. The information collected should include all data necessary to adequately identify and evaluate the alternative mobility programs.

The CONSULTANT shall make maximum use of existing information available from state, regional and local resources, along with information developed during the recent previous OCX studies. The data base information shall be compatible for use on base maps used for public presentations, corridor maps, and alternative plans.

The CONSULTANT shall obtain all documents prepared as part of the Northeast Connector Expressway study performed by Kimley-Horn and Associates on behalf of Osceola County. The CONSULTANT will review all previous study documents and will utilize and incorporate all relevant data / analyses / findings / etc. into this Study. The CONSULTANT shall identify any changed conditions, verify adherence to CFX design criteria and perform an in-depth evaluation of the findings, recommendations and commitments. Within 30 days from Notice To Proceed, the CONSULTANT shall prepare a technical memorandum (Study Evaluation Technical

Memorandum) summarizing the results of their evaluation and providing recommendations to be incorporated into the Study.

8.1 Aerial Photography

The CONSULTANT shall use aerial photography as the basis for plotting various data necessary for planning, engineering and environmental analysis, and presentation of the alternative mobility programs. Copies of aerial photography are the prime source of information used to convey project considerations. Existing available aerial photography will be utilized and the digital aerial photography should be compatible with Microstation.

Generally, controlled aerial mapping at a scale of 1" = 200' to 1" = 2000' will be used as the basis for plotting various data necessary to conduct detailed analyses. The CONSULTANT will recommend mapping scales for approval by CFX.

8.2 Traffic Data

The GEC and/or T&E consultant will provide existing traffic data for the expressway system in the Study area. The CONSULTANT shall collect any additional data for the study corridor and surrounding roadway network as needed, but is not expected to conduct machine or other forms of manual field counts.

8.3 Transportation Plans

The CONSULTANT shall collect and summarize at a minimum:

- METROPLAN ORLANDO Long Range Transportation Plan
- Polk TPO Long Range Transportation Plan
- Orange County Comprehensive Plan
- Osceola County Comprehensive Plan
- Polk County Comprehensive Plan
- LYNX System Plans
- Non-motorized modes, including bikeways and pedestrian walkways
- Other applicable transportation plans

8.4 Land Use and Development Plans

The CONSULTANT shall collect all adopted land use plans within and adjacent to the Study corridor. Additionally, the CONSULTANT will, at a minimum, communicate with staff at Orange County, Osceola County, Polk County (and the appropriate city staffs), East Central Florida Regional Planning Council and corridor stakeholders to collect information on planned developments that may influence the analysis and outcome of this Study.

8.5 Physical / Natural Environmental Information

The CONSULTANT will collect information on the existing physical and natural environment from published resources. Information to be collected will include, but is not limited to the following:

- Roadways
- Socioeconomic Characteristics (schools, churches, community centers, etc.)
- Utilities
- Archaeological and Historical Resources

- Recreational
- Wildlife and habitat
- Farmlands
- Major wetland features,
- Surface water bodies,
- Outstanding Florida Waters, Wild and Scenic Rivers and Aquatic preserves, if any,
- Floodplains
- Contamination
- Conservation areas
- Other unique natural features that may influence the analysis and outcome of this Study

8.6 Interagency and Stakeholder Coordination

The CONSULTANT will be required to initiate and maintain coordination with the local governments, FDOT and corridor stakeholders to ensure the Study Team has a firm understanding of the approved and proposed development plans including transportation facilities, land uses, magnitude and timing.

8.7 Study Area Base Maps

The CONSULTANT will prepare base maps for the Study corridor that will be used throughout the Study for public involvement presentations, corridor maps, and alternative plans. All major environmental features should be identified and plotted as well as all current and projected lands uses and development plans collected throughout the coordination process. The CONSULTANT should clearly identify any Study area constraints or fatal flaws. Likewise, the CONSULTANT should identify any opportunities that could have substantive influence on potential alternative mobility programs.

8.8 Confirm Corridor Limits

Upon completion of the data collection efforts and identification of unique corridor characteristics, the CONSULTANT will reaffirm the corridor limits.

8.9 Data Collection Summary Technical Memorandum (Deliverable)

The CONSULTANT will summarize the data collection effort in the Existing Conditions Technical Memorandum (Tech Memo). The Tech Memo will document all of the data collection efforts and will include identification of unique corridor features that will materially influence the development and evaluation of alternative mobility programs. Any “fatal flaws” should be clearly identified in this document. The contents of the Tech Memo will be incorporated in the final Study document.

9.0 Establish Purpose and Need

The Purpose and Need Statement will provide the basis for evaluating the effectiveness of each mobility alternative in meeting the corridor’s transportation needs and shall be developed to meet the requirements of a potential future PD&E study.

The CONSULTANT will evaluate current and future year population, population densities, major employment centers and densities, traffic and truck forecasts, weekend and recreational traffic

and other characteristics of the Study corridor. The evaluation will include a discussion of demographic shifts and emerging population, employment and housing trends. Development and land use patterns will be evaluated to identify major trip generators and/or communities that are currently, or will be in the future, in need of regional mobility improvements.

Under this task the CONSULTANT will identify the corridor mobility needs and document issues sufficiently to guide the development and refinement of mobility alternatives. The CONSULTANT will prepare a formal Purpose and Need statement for review, comment and approval by CFX and the GEC.

10.0 Mobility Program Alternative

In this portion of the Study, the CONSULTANT will develop and evaluate alternative mobility programs that could satisfy the Study's Purpose and Need. The alternative mobility programs could include one or more of the following transportation elements:

- Limited Access Tolle Expressways
- Buses, fixed guideways, bus rapid transit systems, other mass transit technologies
- Intermodal facilities, including park and ride lots

10.1 No-Build Alternative

The CONSULTANT will develop and evaluate a No-Build scenario. This scenario will be based on the assumption that CFX does not implement a mobility program within the corridor above and beyond what the local governments and private entities have in their plans. The evaluation results should definitively relate to the Purpose and Need statement.

10.2 Develop Alternative Mobility Programs

The CONSULTANT will develop up to three (3) alternative mobility programs, consisting of one or more of the listed mobility elements. The level of detail expected for each mobility element proposed is provided below.

- **Limited Access Tolle Expressway (Expressway)** - The CONSULTANT will develop conceptual alignments in accordance with the design criteria provided in Section 12.0 of the Scope. At a minimum, the CONSULTANT will identify logical termini, prepare typical sections, identify potential bridge and interchange locations (including potential feeder road connections), delineate potential right of way requirements, and estimate potential impacts to critical corridor features. Enough detail will be required to enable the preparation of a reasonable cost estimate and impact evaluation, which the CONSULTANT will also provide.
- **Mass Transit Technology** – The CONSULTANT will identify a single or a range of potential mass transit technologies that could reasonably serve the projected mobility need. For each identified technology the CONSULTANT will provide a conceptual alignment and logical termini; and an overview of the operating parameters (headways, service times, etc.), station locations, capital costs and annual operation and maintenance costs.
- **Intermodal Facilities** – The CONSULTANT will identify potential locations for any proposed intermodal facilities. Approximate size and property requirements must also be estimated. Additionally, a description of the potential transportation modes and

their interaction at the facilities will be required.

The CONSULTANT will plot each mobility program alternative on the base map to clearly reflect the limits and scope of the alternative.

The CONSULTANT will provide a conceptual implementation schedule for each mobility program alternative that is based on the anticipated development schedule and mobility needs of the corridor. Phased implementation of the overall Mobility Program is acceptable, however, the schedule must clearly indicate the phasing and the triggers for each phase.

The CONSULTANT will present the three alternative mobility programs to CFX and the GEC for review, comment, refinement and approval.

10.3 Evaluate and Refine Mobility Programs

The CONSULTANT will evaluate the unique elements, benefits and impacts of each mobility alternative and summarize in a matrix. The primary evaluation efforts are described below:

- The CONSULTANT will coordinate with the T&E consultant to develop conceptual traffic and revenue forecasts for each mobility program alternative to determine how effective each is at satisfying the Purpose and Need and estimate its financial viability.
- The CONSULTANT will prepare conceptual costs for each alternative. The costs will address initial capital costs such as design, right of way acquisition and construction, as well as vehicle / technology procurement for each alternative that includes a multimodal element. Costs for annual operations and maintenance of each alternative will also be estimated.
- The CONSULTANT will estimate impacts to the physical and natural environment. This analysis should address not only potential impacts resulting from the proposed alternatives, but also include a discussion of the steps needed to accomplish the environmental approval and possible mitigation.

Upon completion of the evaluation of the alternative mobility programs, the CONSULTANT will present the evaluation results to CFX, the GEC and the T&E consultant for review, comment and refinement.

10.4 Financial Viability Analysis

Using the potential mobility program project costs, the CONSULTANT will support the project Viability assessment performed by the T&E consultant in accordance with the Interlocal Agreement.

10.5 Concept, Feasibility and Mobility Study Report (Deliverable)

The CONSULTANT will document the alternative mobility program development and evaluation effort in the ***Concept, Feasibility and Mobility Study Report (Report)***. In general, the CONSULTANT will provide documentation for all of the major work efforts of the Study, including but not limited to the following:

- Data Collection / Existing Conditions (As documented in the Technical Memorandum)
- Corridor Confirmation (As documented in the Technical Memorandum)
- Purpose and Need (As previously approved)

- Alternative Mobility Program Development
- Alternatives Mobility Program Evaluation
- Viability Evaluation
- Conclusions and Recommendations

The GEC will provide a DRAFT outline to the CONSULTANT prior to initiating the documentation process to help ensure the Report adequately addresses all pertinent aspects of the Study.

11.0 Deliverables

The CONSULTANT will provide the following documents / deliverables.

- Corridor Base Maps
- Public Involvement Plan
- Study Evaluation Technical Memorandum (Tech Memo) – Draft and Final
- Existing Conditions Technical Memorandum (Tech Memo) – Draft and Final
- Purpose and Need Statement – Draft and Final
- Concept, Feasibility and Mobility Study Report (Report) – Draft and Final
- Public Meeting / Workshop Summary – Draft and Final

Five (5) professionally bound copies and a pdf of each draft / final submittal will be required for all deliverables except the Final ***Concept, Feasibility and Mobility Study Report***, of which 20 professionally bound copies and a pdf will be required.

12.0 Design Criteria

See Table depicting Design Criteria below:

Development of this project will be guided by the basic design criteria listed below.

Design Element	Design Standard	Source
<u>Design Year</u>	2045	- Scope of Services
<u>Design Vehicle</u>	WB-62FL/WB-67	- AASHTO 2004, Pg. 18 - FDOT PPM Vol. I, p 1-19
<u>Design Speed</u> Rural Freeway Urban Freeway Urban Arterial Rural Arterial Other Frontage Road Service Road Access Road Ramp Directional Loop	70 mph 60 mph 45 mph ¹ 55 mph 45 mph 50 mph As appropriate 50 mph 30 mph	- FDOT PPM Vol. I, Tbl. 1.9.1, 1.9.2
<u>Lane Widths</u> Freeway Ramp 1-lane 2-lane Turning Roadway Arterial Collector/Service Road Bicycle Rural/Urban	12-ft 15-ft 24-ft Case dependent 12-ft 12-ft 5-ft/4-ft (designated or undesignated)	- FDOT PPM Vol. I, Tbl. 2.1.1, 2.1.2, 2.1.3 & 2.14.1

[illegible]

Design Element	Design Standard		Source
<u>Roadside Slopes</u> Front slope	Fill Height (ft)	Rate	- FDOT PPM Vol. I, Tbl. 2.4.1 <

Design Element	Design Standard		Source
<u>Superelevation Transition</u> Tangent Curve Spirals	80% (50% min.) 20% (50% min.) (Curves < 1°30' 00" do not use spirals) ₁		- FDOT PPM Vol. I, Sect. 2.9 - (CFX Policy) ₃
<u>Superelevation Rates</u> Freeway DS = 70 mph Rural DS = 60 mph Urban Arterial DS = 55 mph Rural DS = 45 mph Urban Collector DS = 45 mph Frontage Road DS = 50 mph Service Road Ramp DS = 50 mph Directional DS = 30 mph Loop	e_{max}	SE Trans. Rate	- FDOT PPM Vol. I, Tbl. 2.9.1, 2.9.2, 2.9.3, 2.9.4 - Design Standards Ind. No. 510,511 - AASHTO Exh. 3-28
	0.10 0.10 0.10 0.05 0.05 0.10 0.10 0.10	1:200 ₅ 1:225 1:225 1:150 1:150 1:200 1:200 1:150	
<u>Vertical Curves</u> Length, $L = KA$	Dsgn. Speed (mph)	K-value Crest Sag	
	70 60 55 50 45 30	401 245 185 136 98 31	181 136 115 96 79 37
<u>Minimum Lengths</u> Freeway DS = 70 mph Rural DS = 60 mph Urban Arterial DS = 55 mph Rural DS = 45 mph Urban Collector DS = 45 mph Frontage Road DS = 50 mph Service Road Ramp DS = 50 mph Directional DS = 30 mph Loop	Crest	Sag	- FDOT PPM Vol. I, Tbl. 2.8.5, 2.8.6 - AASHTO Exh. 3-72 (crest), 3-75 (sag) - CFX Policy ₃ Note: FDOT K-values for "ALL OTHER FACILITIES" are desirable
	500-ft 400-ft 350-ft 135-ft 135-ft 300-ft 300-ft 90-ft	400-ft 300-ft 250-ft 135-ft 135-ft 200-ft 200-ft 90-ft	
<u>Ramps</u> Ramp Terminals Length Taper	<u>Entrance</u> "Parallel-Type" 900 to 1200-ft 300-ft (25:1)	<u>Exit</u> "Taper-Type" 550-ft (2° to 5°, 3° desirable)	- Design Standards Ind. No. 525 - AASHTO Pg. 850-856
Minimum Spacing Entrance to Exit ⁶ Exit to Entrance to Exit Turning Roadways	1,600 to 2,000-ft 500-ft 1,000-ft 1,000-ft 600 to 800-ft		- AASHTO Exh. 10-68, Pg. 844

Design Element	Design Standard	Source
<u>Lane Drop Taper</u>	$L = WS$ (DS = 45 mph) $L = WS^2/60$ (DS \leq 40 mph) 50:1 min, 70:1 desirable (freeways)	- Design Standards Ind. No. 525,526 - AASHTO Pg. 818
<u>Clear Zone</u> Freeway DS = 70 mph Rural DS = 60 mph Urban Arterial DS = 55 mph Rural DS = 45 mph Urban Collector DS = 45 mph Frontage Road DS = 50 mph Service Road Ramp DS = 50 mph Directional 1 to 2-lane DS = 30 mph Loop 1 to 2-lane	36-ft 30-ft 4-ft (Curb & Gutter) As appropriate 4-ft (Curb & Gutter) 24-ft 14-ft to 24-ft 10-ft to 18-ft	- FDOT PPM Vol. I, Tbl. 2.11.11
<u>Vertical Clearance</u> Over Roadway Over Railroad Sign over Roadway Over Water	16'-6" 23'-6" 17'-6" 12'-0" min.	- FDOT PPM Vol. I, Tbl. 2.10.1 to 2.10.4, Sect. 2.10.1
<u>Limited Access Limits</u> Rural Urban Crossroad overpass/no interchange	300-ft min. 100-ft min 200-ft	- FDOT PPM Vol. I, Sect. 2.14.1

Ramp Operations

- Two thousand (2,000) ft. between entrance and exit terminals - full freeways
- Six hundred (600) ft. between exit and entrance terminals
- Entrance Ramp Taper of 900 ft. (1° - convergence)
- Exit Ramp Taper of 550 ft. (3° - divergence)

Right-of-way

- Ten (10) ft. from back of walls or limit of construction.
- Two (2) ft. from back of sidewalk on frontage roads.
- Drainage and construction easements as required.
- Ninety-four (94) ft. from ramp or mainline traveled way desirable for limited access ROW.
- Limited access right-of-way limits per Index 450.

EXHIBIT B

METHOD OF COMPENSATION

EXHIBIT "B"
METHOD OF COMPENSATION

1.00 PURPOSE:

This Exhibit describes and defines the limits of compensation to be made to the CONSULTANT for the services set forth in Exhibit "A" of this Agreement and the method by which payments shall be made.

2.00 AMOUNT OF COMPENSATION:

2.10 CFX agrees to pay the CONSULTANT for the performance of services described in Exhibit "A" an amount not to exceed a Total Maximum Limiting Amount of \$1,438,000.00.

2.11 The Total Maximum Limiting Amount for the project assigned under this Agreement shall include:

- A Limiting Amount for Salary Related Costs consisting of the sum of actual salary and wages and the applicable administrative overhead and payroll burden (fringe benefits) costs;
- A Fixed Fee as the Operating Margin or profit paid for the professional services described in this Agreement;
- A Lump Sum Amount for Expenses;
- A Limiting Amount for Subconsultants (as identified in paragraph 5.0 of the Agreement for Professional Services);
- An Allowance Amount for CFX to utilize as necessary.

2.12 The Total Maximum Limiting Amount for the project assigned under this Agreement shall consist of the following:

INWOOD CONSULTING ENGINEERS, INC.

Total Activity Salary Costs	<u>\$240,601.53</u>
(a) Overhead Additives	
(1) Combined (195.60%)	<u>470,616.59</u>
Subtotal (Salary + Overhead)	<u>711,218.12</u>
(b) Lump Sum for Operating Margin (10.381%)	<u>73,831.55</u>
Subtotal (Salary Related)	<u>785,049.67</u>
(c) Direct Expenses - Lump Sum (Prime)	<u>6,760.76</u>
BASIC FEE	<u>791,810.43</u>
(d) Subcontracts (Limiting Amount)	<u>514,776.66</u>
(e) Allowance	<u>131,412.91</u>
TOTAL MAXIMUM LIMITING AMOUNT	<u>\$1,438,000.00</u>

2.13 It shall be the responsibility of the CONSULTANT to ensure at all times that sufficient funding remains within the Total Maximum Limiting Amount stated above in Section 2.12 to complete the services for the project. Changes in the Total Maximum Limiting Amount for the project shall require execution of a Supplemental Agreement. The CONSULTANT is obligated to complete project services within the Total Maximum Limiting Amount established herein.

3.00 ALLOWABLE COSTS:

CFX shall reimburse the CONSULTANT for all reasonable allocable and allowable costs. The reasonableness, allocability and allowability of reimbursements sought under this Agreement are expressly made subject to the terms of (1) this Agreement (2) Federal Acquisition Regulations sub-part 31-2 (3) Office of Management and Budget (OMB) Circular A-87 (46FR9548, January 28, 1981) and A-102 (45FR55086, August 18, 1980) and (4) other pertinent federal and state regulations. By reference hereto, said sub-part of Federal Acquisition Regulations and OMB circulars are hereby incorporated in and made a part of this Agreement. Allowable Costs and Fees are defined as follows:

3.10 Direct Salaries and Wages: All direct salaries and wages of the CONSULTANT and Subconsultants (as identified in paragraph 5.0 of the Agreement for Professional Services) for time expended by personnel in the performance of the work (exclusive of unit price based work performed by Class 2 Subconsultants); however, this shall specifically exclude salaries and payroll burden of Corporate Officers and Principals when expended in the performance of indirect functions.

Direct Salaries and Wages (salary costs) include both straight time payments and all overtime payments made for an employee's services on a project. Straight time costs shall be the hourly rate paid for an employee based on a forty (40) hour work week. Overtime costs shall be the salary costs paid for an employee for work exceeding a forty (40) hour work week. Overtime costs shall be paid as either Straight Overtime costs or Premium Overtime costs.

- Straight Overtime: Straight overtime shall be the portion of overtime compensation paid for employees at the straight time hourly rate and shall be burdened with overhead and fringe benefits.
- Premium Overtime: Premium overtime costs shall be the portion of overtime compensation paid in excess of the straight time hourly rate and shall not be burdened with overhead and fringe benefits.
- Payment of Overtime: Straight Overtime or Premium Overtime shall be paid in accordance with the CONSULTANT'S overtime policies and practices, provided that such compensation plan or practice is so consistently followed, in effect, to imply an equitable treatment of overtime to all the CONSULTANT'S clients.

Premium Overtime is not authorized unless approved in writing by CFX's Project Manager.

3.11 Indirect Charges: Administrative overhead and payroll burden costs not to exceed a combined maximum rate of 195.60% when applied to the CONSULTANT'S chargeable salaries and wages. Administrative overhead and payroll burden costs for Subconsultants shall be as established in Exhibit "C".

3.12 Expenses: A Lump Sum Amount shall be paid to the CONSULTANT and all Subconsultants for miscellaneous and out-of-pocket expenses as established in Exhibit "C".

3.13 Class 2 Subconsultants: Compensation shall be based on a unit price basis not to exceed the limiting amount established herein. The unit prices acceptable for this agreement shall be at the unit prices established in Exhibit "C".

3.14 Field Survey by subconsultant: Compensation shall be based on a unit price basis not to exceed the limiting amount established herein. The unit prices acceptable for this agreement shall be at the unit prices established in Exhibit "C".

3.15 Fixed Fee: Fixed Fee is the operating margin paid to the CONSULTANT and the Subconsultants for the professional services described in this Agreement (exclusive of unit price based work performed by Class 2 Subconsultants). The fixed fee shall remain fixed regardless of the relation of the actual salary related costs to the estimated salary related costs and regardless of any extension of contract time granted pursuant to paragraph 4.0 of the Agreement for Professional Services. Salary related costs are defined as the sum of direct salaries and wages and the applicable administrative overhead and payroll burden costs.

4.00 METHOD OF PAYMENT:

Unless increased, no more than the Total Maximum Limiting Amount provided for in Section 2.00 shall be paid by CFX to the CONSULTANT as follows, subject to the provisions of Section 3.00 above:

4.10 The CONSULTANT shall be reimbursed monthly for authorized services performed. Payment to the CONSULTANT shall be in an amount to cover costs incurred during the preceding month for actual direct salary and wages, a provisional allowance for the administrative overhead and payroll burden, a portion of Lump Sum expenses and Subconsultant Costs, plus an allowance for Fixed Fee (Operating Margin), less retainage.

The basis for all CONSULTANT and Class 1 Subconsultant (as defined in Section 5.0 in the Agreement for Professional Services) invoices shall be the actual employee salary and wages at the time work was performed on the project by such employee. Staff classification maximum rates have been established in Exhibit "C" for the CONSULTANT and all Class 1 Subconsultants. It is understood that the staff classification maximum rates shall not be exceeded without prior written approval from CFX. It is further understood that the staff classification average rates used to generate the Total Maximum Limiting Amount in Exhibit "C" will not be revised throughout the term of the Agreement. All future Supplemental Agreements executed as part of this Agreement shall be based on the negotiated staff classification average rates detailed in Exhibit "C". Class 2 Subconsultants shall prepare their invoices in accordance with the provisions of Section 3.13.

4.11 The combined provisional allowance for administrative overhead and payroll burden, expressed as a percentage of salary related costs, for the CONSULTANT is 195.60 percent.

The provisional allowance for administrative overhead and fringe benefits established herein will be adjusted, as necessary, upon completion of an interim audit during the term of the project, or a post audit following project completion, subject to the following limitations:

- The combined allowance for administrative overhead and fringe benefits shall not exceed 195.60%; and
- Adjustments to the combined allowance for administrative overhead and fringe benefits shall not increase the compensation to the CONSULTANT beyond the Total Maximum Limiting Amount.

4.12 The Fixed Fee (Operating Margin) approved by CFX to be paid to the CONSULTANT for the services set forth in this Agreement is established as shown in Section 2.12 of this Exhibit "B".

The CONSULTANT shall earn monthly a portion of its approved fixed fee at 10.381 percent of actual approved salary related costs. Accumulated fixed fee earnings are subject to the aforementioned fixed fee amount. When project services have been satisfactorily completed, the difference between the approved and previously earned fixed fee shall be due and payable to the CONSULTANT and Subconsultants (exclusive of unit price based work performed by Class 2 Subconsultants).

4.13 The CONSULTANT shall earn a portion of its established Lump Sum expense cost in the amount equal to such Lump Sum equally distributed over the project's anticipated duration. Any balance due the CONSULTANT upon completion of a project shall be paid in the final invoice.

4.14 The CONSULTANT shall be compensated for Subconsultant Services in accordance with Section 3.00 of this Exhibit "B" for actual work performed.

4.15 Payments to the CONSULTANT shall be subject to retainage. Retainage shall be calculated as a percent of the sum of salary costs, administrative overhead and payroll burden, and operating margin. No retainage shall be withheld on expenses or Subconsultant Services.

CFX shall withhold from monthly payments a retainage of ten percent (10%) until fifty percent (50%) of the work is completed, and five percent (5%) thereafter until all work is completed. Retainage withheld at project completion shall be released to the CONSULTANT upon satisfactory completion of all services and acceptance of all deliverables by CFX.

4.16 The CONSULTANT shall be responsible for the consolidation and submittal of one (1) original monthly invoice, in the form and detail established or approved by CFX. All payments on such invoices are conditional and subject to adjustment as a result of a final audit as to the allowability of costs in accordance with this Agreement. Invoices shall

include an itemization and substantiation of costs incurred. The itemization must include the amount budgeted, current amount billed, total billed to date and amount to complete.

4.17 The CONSULTANT shall promptly pay all subconsultants their proportionate share of payments received from CFX.

4.18 CFX reserves the right to withhold payment or payments in whole or in part, and to continue to withhold any such payments for work not completed, completed unsatisfactorily, work that is behind schedule or work that is otherwise performed in an inadequate or untimely fashion as determined by CFX. Any and all such payment previously withheld shall be released and paid to CONSULTANT promptly when the work is subsequently satisfactorily performed notwithstanding paragraph 4.0 of the Agreement for Professional Services.

5.00 PROJECT CLOSEOUT:

5.10 Final Audit: The CONSULTANT shall permit CFX to perform or have performed an audit of the records of the CONSULTANT and any or all subconsultants to support the compensation paid the CONSULTANT. The audit will be performed as soon as practical after completion and acceptance of the contracted services. In the event funds paid to the CONSULTANT under this Agreement are subsequently properly disallowed by CFX because of accounting errors or charges not in conformity with this Agreement, the CONSULTANT agrees that such disallowed amounts are due to CFX upon demand. Further, CFX shall have the right to deduct from any payment due the CONSULTANT under any other contract between CFX and the CONSULTANT an amount sufficient to satisfy any amount due and owing CFX by the CONSULTANT under this Agreement. Final payment to the CONSULTANT shall be adjusted for audit results.

5.11 Certificate of Completion: Subsequent to the completion of the final audit, a Certificate of Completion will be prepared for execution by both parties stating the total compensation due the CONSULTANT, the amount previously paid, and the difference.

Upon execution of the Certificate of Completion, the CONSULTANT shall either submit a termination invoice for an amount due or refund to CFX for the overpayment, provided the net difference is not zero.

EXHIBIT C

DETAILS OF COST AND FEES

**Concept, Feasibility & Mobility Studies for the
Northeast Connector Expressway**

Effective dates for Additional Personnel forms

Contract # 001249

<u>Consultant (Class I only)</u>	<u>Effective Date</u>
Inwood Consulting Engineers, Inc.	1/20/2017
3E Consultants, Inc.	1/27/2017
AVCON, Inc.	1/12/2017
The Balmoral Group, LLC	1/13/2017
Global-5, Inc.	1/24/2017
Kimley-Horn & Associates, Inc.	1/31/2017
WBQ Design & Engineering, Inc.	1/4/2017

**Concept, Feasibility & Mobility Studies for the
Northeast Connector Expressway**

Contract Multiplier Worksheet

Contract # 001249

Consultant Name	Audited Overhead	Fixed Fee	Multiplier
Inwood Consulting Engineers, Inc.	195.60%	10.3810%	3.26
3E Consultants, Inc.	169.21%	12.0000%	3.02
Archaeological Consultants, Inc.	169.21%	12.0000%	3.02
AVCON, Inc.	171.13%	11.8654%	3.03
The Balmoral Group, LLC	135.52%	12.0000%	2.64
Geotechnical and Environmental Consultants, Inc.	230.64%	8.8039%	3.60
Global-5 Communications, Inc.	147.07%	12.0000%	2.77
Kimley-Horn & Associates, Inc.	194.83%	10.4220%	3.26
WBQ Design & Engineering, Inc.	195.62%	10.3799%	3.26

**Inwood Consulting Engineers, Inc.
Northeast Connector Expressway
Contract # 001249**

Class I	Max Salary (based on category high)
Project Manager	\$75.50
Assistant Project Manager	\$41.50
QA/QC Officer	\$59.00
Chief Engineer	\$75.50
Principal Engineer	\$62.65
Senior Engineer	\$75.50
Senior Project Engineer	\$53.00
Project Engineer	\$46.00
Engineer	\$39.00
Engineering Intern	\$25.25
Chief Scientist	\$51.50
Senior Scientist	\$38.25
Senior Environmental Specialist	\$35.50
Environmental Specialist	\$28.00
Planner	\$24.50
Public Information Officer	\$24.75
Chief Designer	\$44.50
Senior Designer	\$31.00
Designer	\$26.00
Contract Coordinator	\$30.50

**3E Consultants, Inc.
Northeast Connector Expressway
Contract # 001249**

Class I	Max Salary (based on category high)
Project Manager	\$79.33
Project Engineer	\$46.15
Engineering Intern	\$25.57
Senior Scientist/Geologist	\$62.50
Scientist	\$27.00
CADD/Computer Technician	\$22.00
Secretary/Clerical	\$16.00

**Archaeological Consultants, Inc.
Northeast Connector Expressway
Contract # 001249**

Class II	Unit Prices
Project Manager	\$193.52
Principal Investigator	\$193.52
Architectural Historian	\$72.60
Project Archaeologist	\$92.53
Design Technician	\$108.90
Technician	\$49.47
Secretary/Clerical	\$75.50

AVCON, Inc.
Northeast Connector Expressway
Contract # 001249

Class I	Max Salary (based on category high)
Project Manager	\$71.20
Chief Engineer	\$62.50
Senior Engineer	\$75.00
Engineer	\$40.87
Engineer Intern	\$13.50
CADD Designer	\$33.65
Clerical/Administrative	\$28.61

**The Balmoral Group, LLC
Northeast Connector Expressway
Contract # 001249**

Class I	Max Salary (based on category high)
Project Manager	\$57.69
Chief Engineer	\$68.75
Senior Project Engineer	\$54.74
Project Engineer	\$45.00
Engineer	\$38.00
Engineering Intern	\$28.84
Engineering Technician	\$14.00
Senior Designer	\$34.05
Research Economist/GIS Specialist	\$28.98

Geotechnical & Environmental Consultants, Inc.
Northeast Connector Expressway
Contract # 001249

Class II	Unit Prices
Chief Engineer	\$273.46
Senior Engineer	\$243.18
Project Engineer	\$192.13
Engineering Intern	\$106.99
Geotechnical Technician	\$85.90
CADD/GIS Technician	\$126.54
Senior Scientist	\$148.86
Scientist	\$93.46
Senior Engineering Technician	\$117.61
Engineering Technician	\$76.86
Secretary/Clerical	\$96.98



2017 Geotechnical Fee Schedule Central Florida

Field Services

<u>Item</u>	<u>Unit</u>	<u>Cost</u>	<u>Item</u>	<u>Unit</u>	<u>Cost</u>
Local Mobilization					
Truck Rig	each	\$500.00	Soil Survey/Coring Crew (2 person)	hour	\$150.00
Mud Bug	each	600.00	Soil Survey/Coring Crew (3 person)	hour	210.00
Track Rig	each	4,000.00	Ground Penetrating Radar Crew (2 person)	hour	250.00
Barge/Amphibious	each	10,000.00	Drill Rig and Crew – Truck/Mud Bug (2 person)	hour	220.00
Soil Survey/Coring/GPR Crew	each	250.00	Drill Rig and Crew – Truck/Mud Bug (3 person)	hour	300.00
Support Boat	each	250.00	Drill Rig and Crew – Track/Barge (3 person)	hour	450.00
Support Truck	day	100.00	Field Permeability (0 – 10 ft.) – Truck	each	350.00
Support Water Truck	day	200.00	Field Permeability (10 – 25 ft.) – Truck	each	400.00
Support Boat	day	200.00	Double Ring Infiltrometer	each	600.00
Support Airboat	day	400.00	Field Vane Shear Strength	each	425.00
Coring Machine	day	150.00	Pavement Cores (no MOT w/base check)	each	150.00
GPS Unit*	day	100.00	Pavement Cores (no MOT w/o base check)	each	100.00
Maintenance of Traffic (MOT)			Pavement Cores – Concrete (no MOT)	each	150.00
Portable Safety Signs	day	50.00	Roadway Pavement Cores (day with MOT)	each	350.00
Channelization Cones	day	100.00	Roadway Pavement Cores (night with MOT)	each	400.00
Crash Truck	day	2,500.00	Surcharge for Night/Weekend Work		35%
Flashing Arrow Board	day	150.00	Surcharge for Mud Bug Rig		25%
Law Officer and Vehicle	day	600.00	Surcharge for Track/Barge Rig		50%
Light Tower	day	100.00	Surcharge for OSHA-Certified Drill Crew		10%

*Equipment Only

Truck Rig Unit Rates*

<u>Item</u>	<u>Unit</u>	<u>Cost</u>					
		<u>0 - 50</u>	<u>50 - 100</u>	<u>100 - 150</u>	<u>150 - 200</u>	<u>200 - 250</u>	<u>250 - 300</u>
SPT Borings	foot	\$15.00	\$19.00	\$25.00	\$32.00	\$42.00	\$54.00
Rotary Wash Borings	foot	11.50	15.00	18.00	24.00	29.00	35.00
CPT Soundings	foot	14.00	14.00	15.00	15.00	17.00	19.00
Auger Borings	foot	11.50	---	---	---	---	---
HW Rock Coring	foot	38.00	42.00	46.00	52.00	58.00	65.00
Casing – 3 inch	foot	10.00	11.00	13.00	15.00	17.00	20.00
Casing – 4 inch	foot	11.00	13.00	15.00	17.00	23.00	30.00
Casing – 6 inch	foot	15.00	19.00	21.00	25.00	29.00	35.00
Additional Split Spoon Samples	each	40.00	55.00	80.00	100.00	120.00	150.00
Undisturbed Samples	each	160.00	200.00	260.00	320.00	380.00	450.00
Borehole Grouting	foot	5.00	6.00	8.00	10.00	12.00	14.00
Temporary Piezometer	foot	25.00	---	---	---	---	---

*Multiply Truck Unit Rates by 1.25 for Mud Bug and 1.5 for Track/Barge Unit Rates

Laboratory Services

<u>Item</u>	<u>Unit</u>	<u>Cost</u>	<u>Item</u>	<u>Unit</u>	<u>Cost</u>
Unit Weight	each	\$50.00	Unconfined Compression – Soil	each	\$225.00
Natural Moisture Content	each	15.00	Unconfined Compression – Rock	each	150.00
Grain Size Analysis	each	60.00	Splitting Tensile – Rock	each	175.00
Percent Fines	each	40.00	Permeability	each	300.00
Hydrometer Analysis	each	120.00	Permeability with Backpressure Saturation	each	400.00
Organic Content	each	50.00	Corrosion Series	each	160.00
Atterberg Limits (Plastic & Liquid Limits)	each	95.00	Bitumen Extraction	each	100.00
Specific Gravity	each	75.00	Aggregate Gradation	each	60.00
Limerock Bearing Ratio	each	350.00	Direct Shear Strength	each	280.00
Consolidation with Rebound	each	600.00	Shrinkage Factor	each	70.00
UU Triaxial Shear Strength (Q)	each	500.00	Swell Potential	each	100.00
CU Triaxial Shear Strength (R)	each	550.00	Pocket Penetrometer	each	10.00
CD Triaxial Shear Strength (S)	each	650.00	Torvane Shear Strength	each	10.00



2017 Environmental Fee Schedule Central Florida

Drilling Equipment/Rates

<u>Item</u>	<u>Unit</u>	<u>Cost</u>	<u>Item</u>	<u>Unit</u>	<u>Cost</u>
Direct Push Rig Local Mobilization	each	\$500.00	Well Completion (flush mount)	each	\$250.00
Conventional Drill Rig Local Mobilization (truck)	each	500.00	Well Completion (aboveground)	each	350.00
Conventional Drill Rig Local Mobilization (mud bug)	each	600.00	Well Development	hour	80.00
Conventional Drill Rig Local Mobilization (track)	each	4,000.00	Drill Rig and Crew (2 person)	hour	220.00
Direct Push Rig	day	1,500.00	Equipment Decontamination	hour	80.00
Temporary Piezometer - conventional rig	foot	25.00	Drum Management	hour	80.00
Two-inch Monitoring Well (0-50 ft)	foot	35.00	Steam Cleaner	day	150.00
Two-inch Monitoring Well (50-100 ft)	foot	45.00	Concrete Saw	day	75.00
Direct Push Well Materials	foot	25.00	Concrete Coring Machine	day	150.00
Expendable Sampling Equipment	day	50.00	Ground Penetrating Radar Survey Crew	hour	250.00
Expendable Point	day	15.00			

Air Sampling/Monitoring/Health and Safety

<u>Item</u>	<u>Unit</u>	<u>Cost</u>	<u>Item</u>	<u>Unit</u>	<u>Cost</u>
Organic Vapor Analyzer (OVA)	day	\$160.00	Drager Hand Pump	day	\$20.00
Multigas Monitor (LEL/CO ₂ /CO/H ₂ S)	day	80.00	Drager Tubes	each	60.00
Explosimeter	day	80.00	Tedlar Air Collection Bags	each	10.00
Landfill Gas Monitor (methane/O ₂ /CO ₂)	day	125.00	Mercury Vapor Analyzer	day	175.00
Portable Gas Chromatograph	day	500.00	Air Velocity Meter	day	75.00
Personal Dust Aerosol Monitor	day	85.00			

Soil/Sediment/Surface Water/Groundwater Sampling Equipment

<u>Item</u>	<u>Unit</u>	<u>Cost</u>	<u>Item</u>	<u>Unit</u>	<u>Cost</u>
Hand Auger	day	\$10.00	Datalogger w/2 Transducers	day	\$175.00
Core Sampler	day	10.00	Extra Transducers	each	50.00
Dredge, Sediment Sampler	day	30.00	Multi-Parameter Water Quality	day	125.00
Decontamination Station (hand sampling)	day	20.00	Turbidity Meter	day	50.00
Support Truck	day	100.00	Dissolved Oxygen Meter	day	50.00
Support Boat	day	200.00	Photoionization Detector	day	125.00
Peristaltic Pump	day	50.00	Organic Vapor Analyzer	day	160.00
Submersible Pump w/Variable Speed Controller	day	200.00	pH meter w/Calibration Kit	day	50.00
Bladder Pump w/Controller	day	100.00	Poly Sample Tubing	foot	1.50
Centrifugal (trash) Pump	day	75.00	Silicon Pump Tubing (Peristaltic)	foot	3.50
100 ft Water Level Meter	day	40.00	Flow-through Filtration	each	25.00
100 ft Oil/Water Interface Probe	day	100.00	Miscellaneous Supplies	day	50.00

Miscellaneous Field Equipment

<u>Item</u>	<u>Unit</u>	<u>Cost</u>	<u>Item</u>	<u>Unit</u>	<u>Cost</u>
Survey Equipment (Level and Rod)	day	\$50.00	Rubber Boot Covers	each	\$10.00
GPS Unit (Equipment Only)	day	100.00	Tyvek Suit	each	15.00
Nitrile Gloves	box	25.00	Portable Compressor	day	150.00
			Pressure Washer	day	100.00

Laboratory Services

<u>Item</u>	<u>Unit</u>	<u>Cost</u>	<u>Item</u>	<u>Unit</u>	<u>Cost</u>
RCRA 8 Metals (Water)	each	\$125.00	RCRA 8 Metals (Soil)	each	\$125.00
Herbicide/Pesticide Group (Water)	each	450.00	Herbicide/Pesticide Group (Soil)	each	450.00
Gasoline/Kerosene Group (Water)	each	400.00	Gasoline/Kerosene Group (Soil)	each	350.00
Used Oil Group (Water)	each	815.00	Used Oil Group (Soil)	each	755.00

**Global-5 Communications, Inc.
Northeast Connector Expressway
Contract # 001249**

Class I	Max Salary (based on category high)
Principal in Charge	\$40.86
Program Director	\$36.06
Program Manager	\$25.48
Public Information Officer	\$25.48
Communication Information	\$19.23
Senior Creative Director	\$31.38
Public Information Specialist	\$18.99
Graphic Support	\$15.94

**Kimley-Horn & Associates, Inc.
Northeast Connector Expressway
Contract # 001249**

Class I	Max Salary (based on category high)
Project Manager	\$76.94
Chief Engineer	\$95.20
Principal Engineer	\$73.08
Senior Engineer	\$65.88
Project Engineer	\$47.12
Engineering Intern	\$36.54
Project Planner	\$46.88
Planner	\$31.98
Chief Scientist	\$69.72
Senior Scientist	\$52.18
Environmental Specialist	\$30.06
Chief Designer	\$44.24
Specialist	\$47.36
Secretary/Clerical	\$31.26

**WBQ Design & Engineering, Inc.
Northeast Connector Expressway
Contract # 001249**

Class I	Max Salary (based on category high)
Project Manager	\$74.42
Chief Engineer	\$63.49
Sr. Utility Coordinator	\$53.06
Project Engineer	\$48.64
Engineer	\$28.54
Contract Coordinator	\$22.12
Senior Surveyor & Mapper	\$55.49
Surveyor & Mapper	\$37.02
Survey Technician	\$26.64

**WBQ Design & Engineering, Inc.
Northeast Connector Expressway
Contract # 001249**

Class II	Unit Prices
2-person Survey Crew	\$1,220.40
3-person Survey Crew	\$1,533.68
4-person Survey Crew	\$1,846.88

PROJECT DEVELOPMENT & ENVIRONMENT
PROJECT DATA

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Name of Project: Concept, Feasibility & Mobility Study for the Northeast Connector Expressway
County: Ocoee/Orange
Contract #: 001249

Consult Name: Inwood Consulting Engineers, Inc.
Consult No: CFX-001-01
Date: 2/22/2017
Estimator: Alex Hall, P.E.

Staff Classification	Total Staff Hours (10/04/2017 - 02/22/2017)	Project Manager	Assistant Project Manager	QA/QC Officer	Chief Engineer	Principal Engineer	Senior Engineer	Senior Project Engineer	Project Engineer	Engineer	Engineering Intern	Chief Scientist	Senior Scientist	Senior Environ. Specialist	Environ. Specialist	Planner	Public Information Officer	Chief Designer	Senior Designer	Estimator	Estimate		SH By Activity	Salary Cost By Activity	Average Rate Per Task
																					Designer	Contract Coordinator			
Public Involvement	785	190	236	0	39	0	39	0	0	0	0	79	0	0	0	0	39	118	0	39	0	0	705	\$41,535.49	\$52.86
	3,270	323	164	164	164	327	491	164	491	164	327	0	0	0	0	0	0	0	164	0	327	0	3,270	\$10,659.79	\$32.44
	369	20	0	0	0	0	0	0	0	0	0	129	55	55	55	37	0	0	0	0	0	0	369	\$15,124.25	\$40.99
	392	157	137	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	392	\$22,291.00	\$56.84
Total Staff Hours	4,845	666	537	164	203	164	469	591	164	491	327	208	164	110	110	37	39	118	164	164	324	0	4,845	\$246,061.53	\$50.78
Total Staff Cost		\$37,204.50	\$37,204.50	\$3,876.00	\$13,326.00	\$10,145.00	\$18,117.00	\$24,027.00	\$7,230.00	\$14,421.33	\$5,264.43	\$10,972.00	\$5,193.28	\$1,492.00	\$1,492.00	\$608.50	\$955.25	\$1,616.74	\$3,954.00	\$1,792.50	\$2,042.40	\$1,792.50		\$246,061.53	\$50.78

SALARY-RELATED COSTS:

OVERHEAD: \$240,691.53

SUBTOTAL: \$470,616.59

PROFIT MARGIN (15%): \$711,218.12

SALARY-RELATED SUBTOTAL: \$785,049.67

EXPENSES (1.5%): \$6,760.76

SUBTOTAL - PRIME: \$791,810.43

Subconsultant: KHA

Subconsultant: WBQ

Subconsultant: GEC

Subconsultant: AVCON

Subconsultant: 3E Consultants

Subconsultant: ACI

Subconsultant: Global-5

Subconsultant: National

SUBTOTAL - SUBCONSULTANTS: \$74,141.50

Optional Services: \$51,477.66

GRAND TOTAL ESTIMATED FEE: \$1,396,587.09

- Notes:
- This sheet to be used by Prime Consultant to calculate the Grand Total fee.
 - Manually enter fee from each subconsultant. Unused subconsultant rows may be hidden.

**PROJECT DEVELOPMENT & ENVIRONMENT
PROJECT DATA**

Name of Consultant: Inwood consulting Engineers, Inc.

Concept, Feasibility & Mobility Study for the Northeast Connector
Expressway

001249

Activity No.	Activity	Project Staff Hours									
		Inwood	KHA	WBQ	GEC	AVCON	SE Consultants	ACI	Global-5	Balmoral	Total Hours
1	Public Involvement	765	60	0	0	0	0	0	571	4	1420
2	Engineering Analysis & Report	3270	1013	509	192	391	0	0	0	587	5962
3	Environmental Analysis & Reports	369	10	0	0	0	241	93	0	0	713
4	Miscellaneous	392	48	0	0	4	0	0	12	4	460
Project Total		4,816	1,131	509	192	395	241	93	583	596	8,555

- Notes:
1. Staff hours for consultant come directly from each discipline's worksheet.
 2. Staff hours for subconsultants are to be entered manually into columns D through O.
 3. For workbooks prepared by subconsultants, their project hours will be totaled in column C.

1.0 PUBLIC INVOLVEMENT

Estimator: Concept, Feasibility & Mobility Study for the Northeast Connector Expressway 001249

[illegible]

1.0 PUBLIC INVOLVEMENT

Task No.	Task	Units	# of Units	Hours / Unit	Total Team Hours	Inwood	KHA	WBQ	GEC	AVCON	3E Consultants	ACI	Global-\$	Baltimore	Total	Comments
Advisory Group Meetings																
	Set Up															Total for Advisory Group Meetings = 162 hours
	Project Handouts *	LS	1	0	18	18									18	
	Exhibits *	LS	1	0	34	34									34	
	Site Selection *	LS	1	0	4	4									4	
	Notification Letters *	LS	1	0	4	4									4	
	Press Release/Meeting Announcements *	LS	1	0	2	2									2	
	Staff Briefing *	LS	1	0	4	4									4	
	Participation and Notes															
	Participation	LS	1	0	90	90									90	
	Notes	LS	1	0	6	6									6	
Corridor or Informational Meeting																
	Set Up/Scoping Package															Total for Corridor Meeting = 405 hours
	Project Handouts *	LS	1	0	58	10							48		58	
	Exhibits *	LS	1	0	171	147							24	0	171	Inwood: Consists of preparing and mounting roll plot display graphics and boards public display. CAD production of concepts is under 2. Eng Analysis Reports Assume corridor length from Iuripia to County Line is 19 miles. 8 board plus 2 typical sections, 1 matrix board, and two sets. 171 hours
	Site Selection *	LS	1	0	4	4							36		4	
	Notification Letters *	LS	1	0	40	4							6		40	
	Press Release/Meeting Announcements *	LS	1	0	8	2							6		8	
	Staff Briefing *	LS	1	0	12	6							6		12	Inwood: Review project video and graphics. Discuss PI issues. 4 ppl x 3 hrs = 12 hrs
	Participation and Notes															
	Participation	LS	1	0	88	42	6						36	4	88	Inwood: 4 ppl x 6 hrs = 30 hrs. Attend 3 additional corridor workshops 2x6 hours = 12. Inwood Total = 42. KHA: 8 hours Global-\$ 6 ppl x 6 hrs = 36 hrs. Baltimore: 1 person - 4 hours
	Notes	LS	1	0	24	4							20		24	
Alternatives Public Meeting																
	Set Up/Scoping Package															
	Project Handouts *	LS	1	0	0	0									0	
	Exhibits *	LS	1	0	0	0									0	
	Site Selection *	LS	1	0	0	0									0	
	Notification Letters *	LS	1	0	0	0									0	
	Press Release/Meeting Announcements *	LS	1	0	0	0									0	
	Staff Briefing *	LS	1	0	0	0									0	
	Participation and Notes															
	Participation	LS	1	0	0	0									0	
	Notes	LS	1	0	0	0									0	
1.5 Scheduled Public Meetings Total																
					595	381	6	0	0	0	0	0	204	4	595	
1.6 Other (Unscheduled) Public and Agency Meetings																
		LS	1	0	264	210	54								264	Unscheduled Project Meetings - 24 mths x 2 people x 4 hrs per meeting = 192 + 3 hrs prep x 24 meetings = 72 hours. 192 + 72 = 264 hours.

1.0 PUBLIC INVOLVEMENT

Task No.	Task	Units	# of Units	Hours / Unit	Total Team Hours	Inwood	KHA	WBQ	GEC	AVCON	3E Consultants	ACI	Global-S	Balmoral	Total	Comments
1.7	Public Hearing															
	Invitation / Notification / Set up / Follow-up															
	Project Handouts *	LS	1	0	0											0
	Exhibits *	LS	1	0	0											0
	Site Selection *	LS	1	0	0											0
	Notification Letters *	LS	1	0	0											0
	Press Release/Media Advertisement *	LS	1	0	0											0
	Arrange for Court Reporter *	LS	1	0	0											0
	Staff Briefing *	LS	1	0	0											0
	Written Responses to Comments *	LS	1	0	0											0
	Transcript, errata sheet and certification *	LS	1	0	0											0
	Participation and Notes															
	Participation	LS	1	0	0											0
	Notes	LS	1	0	0											0
	1.7 Public Hearing Total															
					0	0	0	0	0	0	0	0	0	0	0	0
1.8	Location and Design Concept Acceptance Notice/Notification of Approved Environmental Document from FHWA *	LS	1	0	0											0
1.9	Special Public Involvement Requirements															
	General Public Correspondence *	LS	1	0	126	48							78		126	Inwood: 4 hrs per month x 12 months = 48 hrs. Global-S: 4 hrs per month x 12 months = 48 hrs x 30 hrs for comments and coordination package. 126 hours
	News Letters, Preparation / Distribution *	LS	1	0	104	16							88		104	Inwood: 8 hours for 1st newsletter. 4 hours for 2nd and 3rd each. Global-S: 3 newsletters. 40 hours first letter+24 hours each additional letter=60 hours
	Web Site Development *	LS	1	0	0	0									0	
	Web Site Maintenance *	LS	1	0	48	12							36		48	Inwood: 12 hours. Global-S: 3 hrs per month x 12 months = 36 hrs
	Videos, Renderings, etc. *	LS	1	0	80	80									80	Inwood: Prepare PPT presentation for corridor workshop and script and convert to video = 80 hours. Includes revision based on review meeting
	1.9 Special Public Involvement Requirements Total															
					358	156	0	0	0	0	0	0	202	0	358	
	Public Involvement Subtotal															
					1379	765	60	0	0	0	0	0	550	4	1379	
	Hours Subject to GC															
					811	401	0	0	0	0	0	0	410	0	811	
				5%	41	20	0	0	0	0	0	0	21	0	41	
1.10	Quality Assurance / Quality Control	LS														
PUBLIC INVOLVEMENT TOTAL HOURS																
					1420	785	60	0	0	0	0	0	571	4	1420	

2.0 ENGINEERING ANALYSIS AND REPORTS

Estimator: Concept, Feasibility & Mobility Study for the Northeast Connector Expressway C01249

Task No.	Task	Units	# of Units	Hours / Unit	Total Team Hours	Inwood	KHA	WBO	GEC	AVCON	3E Consultants	ACI	Global-5	Balfour	Total	Comments
NOTE: * subject to QC																
2.1	Field Review	LS	1	0	72	72		0							72	Inwood: 3 reviews x 3 ppl x 8 hrs = 72 hrs
2.2	Survey Coordination	LS	1	0	40	40									40	Inwood: Prepare composite aerial base map from existing and files. 40 hours
	Aerial Photography	LS	1	0	0	0									0	N/A
	Survey Coordination	LS	1	0	0	0									0	
	2.2 Survey Coordination Total				40	40	0	0	0	0	0	0	0	0	40	
2.3	Geotechnical	LS	1	0	192	192									192	GEC: Gather and evaluate existing geotechnical data to identify critical locations. Conduct field reviews to verify geotechnical conditions
	Geotechnical Coordination	LS	1	0	8	8									8	Inwood: 8 hours coordination and review
	2.3 Geotechnical Total				200	200	8	0	192	0	0	0	0	0	200	
2.4	Traffic	LS	1	0	0	0									0	
	Traffic Data	LS	1	0	0	0									0	
	Traffic Analysis	LS	1	0	280	280	280								280	KHA: Final Corridor * No build. Includes coordination with T&E consultant on land use, alternatives, design traffic, T&E traffic, lane calls, interchange concepts, operating conditions, developing DOHV, Turning Movements, evaluating appropriate designs at interchanges. (15200 * 1580)
	- Design Traffic *	LS	1	0	0	0									0	
	- Traffic Operational Analysis *	LS	1	0	0	0									0	
	- Design Traffic Documentation *	LS	1	0	24	24									24	Inwood: Coordination with KHA = 24 hours
	Traffic Data for Noise Analysis *	LS	1	0	0	0									0	N/A
	2.4 Traffic Total				304	24	280	0	0	0	0	0	0	0	304	
2.5	Safety	LS	1	0	12	12									12	KHA: Collect crash history for existing alternative routes for NEC. 12 hours
	Crash Data	LS	1	0	40	40	40								40	KHA: Evaluate crash/historic existing alternative routes for NEC and projected routes for traffic on NEC. 40 hours
	Safety Analysis *	LS	1	0	52	52	52	0	0	0	0	0	0	0	52	
	2.5 Safety Total				52	0	52	0	0	0	0	0	0	0	52	
2.6	Utilities and Railroads	EA	0	0	36			36							36	WBO: 12 utilities x 3 hrs = 36 hrs 1. AT&T Corporation, 2. City of St. Cloud Utilities, 3. Charter Communications, 4. Florida Gas Transmission, 5. Duke Energy, 6. Toho Water Authority, 7. Level 3 Communications, 8. Orlando Utilities Commission, 9. AT&T Florida, 10. Transcore, 11. Comcast Communications, and 12. Century Link Winter
	Data Collection	EA	0	0	0										0	Standard Utility Assessment Package - 12 hours for 5 Alignments
	Analysis and Report *	LS	1	0	168	12		156							168	Inwood: Coordination with WBO = 12 hours. WBO: 12 Utilities x 8 hrs per Utility = 96 hrs 5 x 12 hrs = 60 hrs Utility Assessment Package - 12 hours for 5 Alignments Total = 12 + 96 + 60 = 168 hrs
	2.6 Utilities and Railroads Total				204	12	0	192	0	0	0	0	0	0	204	

2.0 ENGINEERING ANALYSIS AND REPORTS

Task No.	Task	Units	# of Units	Hours / Unit	Total Team Hours	Inwood	KHA	WBQ	GEC	AVCON	SE Consultants	ACI	Global-5	Baltimore	Total	Comments
2.7	Needs															
	Transportation Plans	LS	1	0	28	4	24									Inwood: 4 hours. KHA: MPO, Ocoella, Orange, Lynx, FDOT, CFX (8 hrs x 4 = 24 hrs)
	Planning Consultancy Firm *	LS	1	0	0											0
	Analysis of Existing Conditions *	LS	1	0	0											0
	Purpose and Need *	LS	1	0	72	12										12
			2.7 Needs Total	40		16	24	0	0	0	0	0	0	0	0	40
2.8	Corridor Analysis * the hours for this task are covered under Tab 2.A Corridor Evaluation and brought forward to this tab.	LS	1	0	1620	1592	38	0	0	0	0	0	0	0	0	1620
2.9	Roadway															
	Existing Roadway Characteristics	LS	1	0	240	160	80									240
	Typical Section Analysis *	EA	0	0	32	32										32
	Corridor Analysis *	LS	1	0	75			75								75
	Roadway Design Alternatives *	LS	1	0	0											0
	Access Management *	LS	1	0	0											0
	Identify Construction Segments *	LS	1	0	24	24										24
			2.9 Roadway Total	371		216	80	75	0	0	0	0	0	0	0	371
2.10	Structures															
	Existing Structure Characteristics	EA	0	0	0											0
	Structures Typical Section Analysis *	EA	0	0	120					120						120
	Structures Design Alternatives *	EA	0	0	276	24				252						276
			2.10 Structures Total	396		24	0	0	0	372	0	0	0	0	0	396
2.11	Drainage															
	Floodplain and Environmental Permit Data Collection *	LS	1	0	60										60	60
	Floodplain Compensation Analysis *	LS	1	0	114	12									102	114
	Pond Siting Analysis and Report *	LS	1	0	244	12								232		244
	Pond Siting Meetings	LS	1	0	0											0
	Location Hydraulic Report *	LS	1	0	177	12								165		177
	Environmental Load Assure (ELA) Meeting	LS	1	0	0											0
			2.11 Drainage Total	595		36	0	0	0	0	0	0	0	559		595
2.12	Concept Plans															
	Base Map *	Sheet	0	0	80	80										80
	Alternative Concept Plan *	Sheet	0	0	740	340	400									740
	Preferred Alternative *	Sheet	0	0	78	78										78
			2.12 Concept Plans Total	898		498	400	0	0	0	0	0	0	0	0	898

Inwood: Prepare initial aerial plot base map with base information 80 hours

Inwood: Assume corridor length is 10 miles. Assume 200 scale and 11x17 sheets (10 miles x 5280 feet/mile/200 feet/mile = 264 sheets). 34 sheets x 10 hrs per sheet = 340 hrs

KHA KHA Interchanges = 400 hrs:

Turnpike interchange = 80

Deer Run/History Trce = 40

Future Corridor Interchange = 80

NED Interchange 1 = 40

NED Interchange 2 = 40

CPE Interchange = 80

Inwood: 34 sheets x 2 hrs = 68 hrs plus 10 hrs for interchanges

2.0 ENGINEERING ANALYSIS AND REPORTS

Task No.	Task	Units	# of Units	Hours / Unit	Total Team Hours	Inwood	KHA	WBQ	GEC	AVCON	SE Consultants	ACI	Global-5	Balmoral	Total	Comments
2.13	Typical Section Package *	LS	1	0	0										0	NA
2.14	Design Exception and Variations															
	Identify Design Exceptions and Variations	LS	1	0	0										0	NA
	Prepare Design Exception and Variation Package(s) *	EA	0	0	0										0	NA
	2.14 Design Exception and Variation Total					0	0	0	0	0	0	0	0	0		
2.15	Multimodal Accommodations *	EA	0	0	100	40	60								100	Following the methodology emailed to Kevin Knudsen on 1/28/17
2.16	Park and Ride Lots	EA	0	0	56	16	40								56	
2.17	Maintenance of Traffic*	LS	1	0	0	0									0	
2.18	Comparative Analysis and Evaluation Matrix *	LS	1	0	60	60									60	
2.19	Selection of Preferred Alternative(s) *	LS	1	0	8	8									8	
2.20	Value Engineering Study	EA	0	0	0										0	NA
2.21	Risk Management	LS	1	0	0										0	NA
2.22	Construction Cost Estimates *	LS	1	0	120	120									120	
2.23	Right of Way Cost Estimates															
	Notes and Maps for Estimate *	LS	1	0	235	12		223							235	Inwood: Coordination with WBQ = 12 hours WBQ: 0.25 hours per parcel x 334 parcels for 5 alignments = 83.5 + 138.5 for preferred = 223
	Preparation Cost Estimate *	LS	1	0	0										0	
	2.23 Right of Way Cost Estimates Total				235	12	0	223	0	0	0	0	0	0	235	
2.24	Corridor Feasibility Report															
	Draw *	LS	1	0	260	260									260	
	Final *	LS	1	0	140	140									140	
	2.24 Preliminary Engineering Report (PER) Total				420	420	0	0	0	0	0	0	0	0	420	
2.25	Other Engineering Services															
	JURSIS Reports *	LS	1	0	0										0	
	Intelligent Transportation Systems *	LS	1	0	0										0	
	Roundabout Evaluation *	EA	1	0	0										0	
	Existing Signal Inventory *	LS	1	0	0										0	
	2.25 Other Engineering Services Total				0	0	0	0	0	0	0	0	0	0	0	
	Engineering Analysis and Report Subtotal				5791	3304	974	460	192	372	0	0	0	559	5791	
	Hours Subject to QC				3412	1322	780	379	0	372	0	0	0	549	3412	Inwood: Removed Task 2.8 from calculation above the QC hours for this task are included in Tab 2.A WBQ: Removed Task 2.9 from calculation above the 75 hours for this task are for QC
2.26	Quality Assurance / Quality Control	LS	%	5%	171	66	39	19	0	19	0	0	0	28	171	
	ENGINEERING ANALYSIS AND REPORT TOTAL HOURS				5962	3270	1013	509	192	391	0	0	0	567	5962	

Estimator:

[illegible]

3.0 ENVIRONMENTAL ANALYSIS AND REPORTS

Estimator:

Concept, Feasibility & Mobility Study for the Northeast Connector Expressway
001249

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Inwood	KHA	WBQ	GEC	AVCON	3E Consultants	ACI	Global-5	Baltimore	Total	Comments
NOTE: * subject to QC																
SOCIOCULTURAL EFFECTS																
3.1 Social Resources																
	Land Use Changes *	LS	1	0	24	24									24	
	Social *	LS	1	0	24	24									24	
	Economic *	LS	1	0	18	18									18	
	Mobility *	LS	1	0	12	12									12	
	Aesthetics *	LS	1	0	4	4									4	
			3.1 Social Resources Total		62	62	0	0	0	0	0	0	0	0	62	
3.2	Sociocultural Effects Evaluation Report	LS	1	0	32	32									32	
3.3 Relocation Potential																
	Review and Impact Determination *	LS	1	0	0	0									0	NA
	Conceptual Stage Relocation Plan *	LS	1	0	0	0									0	NA
			3.3 Relocation Potential Total		0	0	0	0	0	0	0	0	0	0	0	
CULTURAL RESOURCES																
3.4 Archaeological and Historical Resources																
	Research Design Methodology As Required	LS	1	0	93	93						93			93	ACI: Prepare a Desktop Analysis utilizing data from the Florida Master Site File (FMSF), the National Register of Historic Places (NRHP), County History Records, and previous cultural resource assessment survey reports for the area. The purpose will be to determine the location of previously recorded archaeological sites and historical resources. In addition, the Consultant will review these data to develop areas of archaeological potential so as to identify areas which may contain unrecorded archaeological sites. The Consultant will also conduct a visual reconnaissance of the project area to verify the data obtained by research and to determine if there are resources 50 years of age along the project area. The Consultant will submit the data in a draft and final Technical Memorandum complying with county and state standards and include appropriate photographs, tables, figures and maps. 93 hours
	Cultural Resource Assessment Survey (CRAS) *	LS	1	0	8	8									8	Inwood: Coordination with ACI = 8 hours
	CRAS Addendum or Technical Memorandum for Pond Sites	LS	1	0	0	0									0	
	Determination of Eligibility (DOE) As Required	LS	1	0	0	0									0	
	Case Study Report *	LS	1	0	0	0									0	
	Memorandum of Agreement (MOA) *	LS	1	0	0	0									0	
	Historic Resources Section 4(f) Evaluation	LS	1	0	0	0									0	
	Section 105 Consultation Meetings	LS	1	0	0	0									0	
	Native American Coordination Meeting	LS	1	0	0	0									0	
	Section 106 Public Involvement	LS	1	0	0	0									0	
	Cultural Resource Committee Meetings	LS	1	0	0	0									0	
			3.4 Archaeological and Historical Resources Total		101	8	0	0	0	0	0	93	0	0	101	

3.0 ENVIRONMENTAL ANALYSIS AND REPORTS

[illegible]

3.0 ENVIRONMENTAL ANALYSIS AND REPORTS

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Inwood	KHA	WBQ	GEC	A/CON	3E Consultants	ACI	Global-LS	Balmoral	Total	Comments
3.15	Contamination															
	Field Data	LS	1	0	20						20				20	MSE: Site visit only for inspection. No samples collected. 20 hours
	Analysis/Report *	LS	1	0	216	6					210				216	Inwood: Coordination with MSE = 6 hours; MSE: Complete a desktop analysis of known contamination sites, historical aerial review for large sites (old landfills and areas of clearing), and historical records review (phone record survey for major roads. Submittal of a draft final Technical Memorandum and up to 2 meetings. 210 hours)
					236	6	0	0	0	0	230	0	0	0	236	
	ENVIRONMENTAL REPORTS															
3.16	Class of Action Determination *	LS	1	0	0										0	NA
3.17	CATEX Type II * (if not part of 3.19 - Class of Action Determination)	LS	1	0	0										0	NA
3.18	SEIR * (if not part of 3.19 - Class of Action Determination)	LS	1	0	0										0	NA
3.19	Environmental Assessment *	LS	1	0	0										0	NA
3.20	FONSI *	LS	1	0	0										0	NA
3.21	Draft EIS *	LS	1	0	0										0	NA
3.22	Final EIS *	LS	1	0	0										0	NA
	Environmental Analysis and Report Subtotal				689	366	10	0	0	0	230	93	0	0	689	
	Hours Subject to QC				470	252	8	0	0	0	210	0	0	0	470	
3.23	Quality Assurance / Quality Control	LS	%	5%	24	13	0	0	0	0	11	0	0	0	24	
	ENVIRONMENTAL ANALYSIS AND REPORT TOTAL HOURS				713	369	10	0	0	0	241	93	0	0	713	

4.0 MISCELLANEOUS SERVICES

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Inwood	KHA	WBQ	GEC	AVCON	3E Consultants	ACI	Global-S	Balmoral	Total	Comments
4.1	Contract and Project Files	LS	1	0	140	116	24								140	Inwood: includes project management efforts for complete setup and maintenance of files, developing monthly progress reports, schedule updates, work effort to develop and execute sub-consultant agreements etc. (Initial set-up estimated at 20 hours plus 8 hours per month (12) for update/maintenance), 20 hrs + (8 hrs x 12 months) = 116 hrs; KHA: 24 hours
4.2	Project Management Meetings and Coordination	LS	1	0	320	276	24			4			12	4	320	Inwood: NTP Meeting 2 hrs x 3 ppl + 2 hrs prep = 8 hrs 14 bi-weekly progress meetings 2 hrs x 2 ppl + 2 hrs prep = 96 + 24 = 144 hrs Global Meetings: 6 meetings x 1 ppl x 10 hrs per meeting + 24 hrs prep = 84 hrs Interagency meetings: 6 meetings x 10 hrs per meeting + 24 hrs prep = 84 hrs KHA: 12 skype Meetings x 5 hours per meeting x 2 ppl = 12 hours, progress meetings: 8 meetings x 2 hrs per meeting x 1 ppl = 12 hrs AVCON: 8 skype Meetings x 5 hours per meeting = 12 hours Global-S: 12 skype Meetings x 1 hours per meeting = 12 hours Balmoral: 8 skype Meetings x .5 hours per meeting = 4 hours
4.3	Additional Services															
	4. Roadway Analysis	LS	1	0	0										0	
	5. Roadway Plans	LS	1	0	0										0	
	6a. Drainage Analysis	LS	1	0	0										0	
	6b. Drainage Plans	LS	1	0	0										0	
	8. Environmental Permits	LS	1	0	0										0	
	27. Survey	LS	1	0	0										0	
	28. Photogrammetry	LS	1	0	0										0	
	29. Mapping	LS	1	0	0										0	
	32. Noise Update	LS	1	0	0										0	
	35. Geotechnical	LS	1	0	0										0	
	4.3 Additional Services Total				0	0	0	0	0	4	0	0	0	0	0	
	MISCELLANEOUS TOTAL HOURS				460	392	48	0	0	4	0	0	12	4	460	

EXPENSES									
Prepared by:		Alex Hull, PE - Inwood							
Project Identification No.:		001249							
Project Description:		Concept, Feasibility & Mobility Study for the Northeast Connector Expressway							
REPRODUCTION		8½"x11"	8½"x11"	8½"x14"	11" X 17"	11" X 17"			
		COLOR	BW	BW	COLOR	BW			
Printing		520	11160		1800	1200			
Laminated Covers & Backs									
30%, 60% & Final Submittals									
Signed & Sealed Originals									
SUBTOTAL		520	11160	0	1800	1200			
UNIT COST		\$0.45	\$0.08	\$0.10	\$0.57	\$0.11			
TOTALS COST		\$234.00	\$892.80	\$0.00	\$1,026.00	\$132.00			
							Sub Total	\$2,284.80	
TRAVEL EXPENSES									
TRAVEL (From Oviedo Office)									
		To Project :	8	Trips @	150	Round Trip Miles @	\$0.445	Per Mile =	\$534.00
		Tolls:	8	Trips @	\$10.00	/round trip		=	\$80.00
TRAVEL (From Oviedo Office)									
		To CFX Office:	24	Trips @	28	Miles @	\$0.445	Per Mile =	\$299.04
		Tolls:	24	Trips @	\$8.00	/round trip		=	\$192.00
							Sub Total	\$1,105.04	
SHIPPING									
		12	Months @	\$36.26	Per Month	=	\$435.12		
SHIPPING (Regular Mail)		24	Letters	@	\$0.49	/letter	=	\$11.76	
SHIPPING (FEDEX)		2	Overnight Letters	@	\$12.25	/letter	=	\$24.50	
							Monthly Total =	\$36.26	

PROJECT DEVELOPMENT & ENVIRONMENT
PROJECT DATA

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: Concept, Feasibility & Mobility Study for the Northeast Connector Expressway
County: Osceola/Orange
Contract: 001249

Consult. Name: Kimley-Horn & Associates, Inc.
Consult. No.
Date: 2/21/2017
Estimator

Staff Classification	Total Staff Hours From Summary	Project Manager	Chief Engineer	Principal Engineer	Senior Engineer	Project Engineer	Engineering Intern	Project Planner	Planner	Chief Scientist	Senior Scientist	Environ. Specialist	Chief Designer	Specialist	Secretary /Clerical	SH By Activity	Salary Cost By Activity	Average Rate Per Task
Public Involvement	60	6	1	3	6	6	6	6	0	6	6	3	0	3	8	60	\$2,963	\$49.39
Engineering Analysis & Report	1,013	101	30	111	203	132	132	51	101	0	0	0	101	0	11	1,013	\$52,063	\$51.39
Environmental Analysis & Reports	10	1	0	0	0	0	0	0	0	5	2	2	0	0	0	10	\$558	\$55.81
Miscellaneous	48	24	0	0	0	0	0	0	0	0	0	0	0	0	24	48	\$2,407	\$50.22
Total Staff Hours	1,131	132	31	114	209	158	158	57	101	11	8	5	101	3	43	1,131	\$58,090.68	\$51.36

Check = \$58,090.68

SALARY-RELATED COSTS:

OVERHEAD: 194.83%

SUBTOTAL

PROFIT MARGIN (L-S): 10.4220%

SALARY RELATED SUBTOTAL:

EXPENSES (L-S):

Survey (Field - if by Sub)

SUBTOTAL - SUBCONSULTANT

Optional Services

SUBCONSULTANT TOTAL ESTIMATED FEE:

Note:

1. This sheet to be used by Subconsultant to calculate its fee.

Survey (Field - if by Sub) 0.00 4-man crew day \$ / day

SUBTOTAL - SUBCONSULTANT \$191,238.75

Optional Services \$0.00

SUBCONSULTANT TOTAL ESTIMATED FEE: \$191,238.75

Prepared by: **KHA**
 Project Identification No.: **001249**
 Project Description: **Concept, Feasibility & Mobility Study for the Northeast Connector Expressway**

Expenses		Number	Units	Rate	Cost
6.6 Progress Meetings	Mileage	12	8 miles	0.445	\$42.72
Public Meetings		2	45 miles	0.445	\$40.05
7.7 Meetings	Mileage	24	50 miles	0.445	\$534.00
8 Data Collection	Mileage	4	120 miles	0.445	\$213.60
Reports	BW Sheets	100	5 reports	0.04	\$20.00
	Color Sheets	30	5 reports	0.6	\$90.00
Misc.	BW Sheets	1000	1	0.04	\$40.00
	Color Sheets	500	1	0.6	\$300.00
	Plots	100	1	8.4	\$840.00
Total					\$2,120.37

**PROJECT DEVELOPMENT & ENVIRONMENT
PROJECT DATA**

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: Concept, Feasibility & Mobility Study for the Northeast Connector Expressway
 County: Osceola/Orange
 Contract: 001249

Consult Name: WBQ Design & Engineering, Inc.
 Consult No. _____
 Date: 2/20/2017

Staff Classification	Total Staff* (Hours From SH Summary - Firm)	Project Manager	Chief Engineer	Sr. Utility Coordinator	Project Engineer	Engineer	Contract Coordinator							SH By Activity	Salary Cost By Activity	Average Rate Per Task
Public Involvement	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Engineering Analysis & Report	509	50	102	127	102	92	36	0	0	0	0	0	0	509	\$25,319	\$49,74
Environmental Analysis & Reports	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Total Staff Hours	509	50	102	127	102	92	36	0	0	0	0	0	0	509	\$25,318.88	\$49,74
Total Staff Cost		\$3,721.00	\$6,475.98	\$6,738.62	\$4,961.28	\$2,625.68	\$796.32	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			

Estimator: _____

Check: \$25,318.88

SALARY-RELATED COSTS:

OVERHEAD: 195.62%

SUBTOTAL

PROFIT MARGIN (LS): 10.3799%

SALARY RELATED SUBTOTAL:

EXPENSES (LS):

Survey (Field - if by Sub)

SUBTOTAL - SUBCONSULTANT 0.00 4-man crew day: \$ / day

Optional Services

SUBCONSULTANT TOTAL ESTIMATED FEE:

\$25,318.88
 \$49,528.79
 \$74,847.67
 \$7,769.11
 \$82,616.78
 \$0.00
 \$0.00
 \$0.00
 \$82,616.78
 \$0.00
 \$82,616.78

Note:

1. This sheet to be used by Subconsultant to calculate its fee.

**PROJECT DEVELOPMENT & ENVIRONMENT
PROJECT DATA**

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project:
County:
Contract:

Concept, Feasibility & Mobility Study for the Northeast Connector Expressway
Osceola/Orange
001249

Consult Name: Geotechnical & Environmental Consultants, Inc.
Consult No. P8903G
Date: 2/21/2017

Staff Classification	Total Staff Hours From "Staff Summary" Firm"	Chief Engineer	Senior Engineer	Project Engineer	Engineer Intern	Geotechnical Technician	CADD/GIS Technician	Senior Scientist	Scientist	Senior Engineering Technician	Engineering Technician	Secretary/Clerical	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		\$273.46	\$243.18	\$192.13	\$106.99	\$85.90	\$126.54	\$148.86	\$93.46	\$117.61	\$76.86	\$96.98	\$0.00	\$0	#DIV/0!
Public Involvement	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Engineering Analysis & Report	192	29	0	0	72	0	29	0	0	24	24	14	0	\$25,328	\$131.92
Environmental Analysis & Reports	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Total Staff Hours	192	29	0	0	72	0	29	0	0	24	24	14	0	\$0	#DIV/0!
Total Staff Cost		\$7,980.34	\$0.00	\$0.00	\$7,703.28	\$0.00	\$3,669.66	\$0.00	\$0.00	\$2,832.64	\$1,844.64	\$1,357.72	\$0.00	\$25,328.28	\$131.92

Check = \$25,328.28

SALARY-RELATED COSTS:

OVERHEAD: 0.00% \$25,328.28
 SUBTOTAL \$0.00
 PROFIT MARGIN: 0.00% \$25,328.28
 SALARY RELATED SUBTOTAL: \$25,328.28
 EXPENSES: \$0.00
 Survey (Field - if by Sub) 0.00 4-man crew day \$ / day
 SUBTOTAL - SUBCONSULTANT \$25,328.28
 Optional Services \$0.00
 SUBCONSULTANT TOTAL ESTIMATED FEE: \$25,328.28

Note:

1. This sheet to be used by Subconsultant to calculate its fee.

**PROJECT DEVELOPMENT & ENVIRONMENT
PROJECT DATA**

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: Concept, Feasibility & Mobility Study for the Northeast Connector Expressway
 County: Oscola/Orange
 Contract: 001249

Consult Name: AVCON, Inc.
 Consult No.: 201706901
 Date: 2/21/2017

Staff Classification	Total Staff Hours From "SH" Summary	Project Manager	Chief Engineer	Senior Engineer	Engineer	Engineer Intern	CADD Designer	Clerical/ Admin	*	*	-	-	-	SH By Activity	Salary Cost By Activity	Average Rate Per Task
Public Involvement	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Engineering Analysis & Report	391	38	39	59	98	59	98	0	0	0	0	0	391	\$14,370	\$36.75	#DIV/0!
Environmental Analysis & Reports	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0	#DIV/0!
Miscellaneous	4	0	2	2	0	0	0	0	0	0	0	0	4	\$198	\$49.45	
Total Staff Hours	395	38	41	61	98	59	98	0	0	0	0	0	395			
Total Staff Cost		\$2,705.60	\$2,105.76	\$2,899.33	\$3,334.94	\$758.97	\$2,765.56	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$14,568.16	\$36.88	

Check = \$14,568.16

SALARY-RELATED COSTS:
 OVERHEAD: 171.13%
 SUBTOTAL \$14,568.16
 PROFIT MARGIN (LS):
 SALARY RELATED SUBTOTAL: \$24,930.49
 EXPENSES (LS): \$39,498.65
 Survey (Field - if by Sub) 0.00 4-man crew day: \$ / day
 SUBTOTAL - SUBCONSULTANT \$4,686.67
 Optional Services \$0.00
 SUBCONSULTANT TOTAL ESTIMATED FEE: \$44,185.32

Note:
 1. This sheet to be used by Subconsultant to calculate its fee.

**PROJECT DEVELOPMENT & ENVIRONMENT
PROJECT DATA**

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: Concept, Feasibility & Mobility Study for the Northeast Connector Expressway
 County: Oscoda/Orange
 Contract: 001249

Consult Name: 3E Consultants, Inc.
 Consult No. 1285 XXXX
 Date: 2/21/2017
 Estimator: E. Eveland

Staff Classification	Total Staff Hours From "Staff Summary - Firm"	Project Manager	Project Engineer	Engineering Intern	Sr. Scientist/Geologist	Scientist	CADD/Comp. Tech	Secretary/Clerical				SH By Activity	Salary Cost By Activity	Average Rate Per Task
Public Involvement	0	0	0	0	0	0	0	0	\$0.00	\$0.00	0	0	\$0	#DIV/0!
Engineering Analysis & Report	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Environmental Analysis & Reports	241	38	24	0	116	29	29	5	0	0	0	241	\$11,762	\$48.80
Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Total Staff Hours	241	38	24	0	116	29	29	5	0	0	0	241		
Total Staff Cost		\$2,347.80	\$1,107.60	\$0.00	\$6,888.08	\$650.47	\$638.00	\$80.00	\$0.00	\$0.00	\$0.00		\$11,761.95	\$48.80

Check: \$11,761.95

SALARY-RELATED COSTS:
 OVERALL MULTIPLIER 169.21%
 SUBTOTAL \$11,761.95
 PROFIT MARGIN (LS) \$19,902.40
 SUBTOTAL \$31,664.35
 SALARY RELATED \$3,799.72
 SUBTOTAL: EXPENSES (LS) \$35,464.07
 Survey (Field - if by Sub) 0.00 4-man crew day \$ / day
 SUBTOTAL - SUBCONSULTANT \$0.00
 Optional Services \$0.00
 SUBCONSULTANT TOTAL ESTIMATED FEE: \$35,464.07

Note:
 1. This sheet to be used by Subconsultant to calculate its fee.

**PROJECT DEVELOPMENT & ENVIRONMENT
PROJECT DATA**

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: Concept, Feasibility & Mobility Study for the Northeast Connector Expressway
 County: Osceola/Orange
 Contract: 001249

Consult Name: Archaeological Consultants, Inc.
 Consult No. B16225
 Date: 2/21/2017

Staff Classification	Total Staff Hours From "SH" Summary	Project Manager	Principal Investigator	Architectural Historian	Project Archaeologist	Design Technician	Technician	Secretary/Clerical	*	-	-	-	SH By Activity	Salary Cost By Activity	Average Rate Per Task
Public Involvement	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Engineering Analysis & Report	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Environmental Analysis & Reports	93	3	16	24	31	11	0	8	0	0	0	93	\$10,090	\$108.49	
Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	\$0		#DIV/0!
Total Staff Hours	93	3	16	24	31	11	0	8	0	0	0	93	\$10,089.61		\$108.49
Total Staff Cost		\$580.56	\$3,096.32	\$1,742.40	\$2,868.43	\$1,197.90	\$0.00	\$694.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10,089.61		

Check = \$10,089.61

SALARY-RELATED COSTS:

OVERHEAD:

SUBTOTAL 0.00%

PROFIT MARGIN:

SUBTOTAL 0.00%

SALARY RELATED SUBTOTAL:

EXPENSES (LS):

Survey (Field - if by Sub) 0.00 4-man crew day: \$ / day

SUBTOTAL - SUBCONSULTANT

Optional Services

SUBCONSULTANT TOTAL ESTIMATED FEE:

\$10,243.36

Note:

1. This sheet to be used by Subconsultant to calculate its fee.

EXPENSES

Prepared by: **Marion Almy, President - ACI**
 Project Identification No.: **001249**
 Project Description: **Concept, Feasibility & Mobility Study for the Northeast Connector Expressway**

REPRODUCTION	8½"x11"	8½"x11"	8½"x14"	11" X 17"	11" X 17"	11" X 17"	Drill & Post	24" X 36"	24" X 36"
	COLOR	XEROX	XEROX	COLOR	XEROX	Laminate	Binding	Bond Paper Plots	Mylar Plots
Printing	30	0	0	0	0				
Laminated Covers & Backs						0			
30%, 60% & Final Submittals							0		
Signed & Sealed Originals								0	0
SUBTOTAL	30	0	0	0	0	0	0	0	0
UNIT COST	\$0.60	\$0.04	\$0.06	\$1.10	\$0.070	\$1.70	\$2.25	\$0.60	\$8.40
TOTALS COST	\$18.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Sub Total **\$18.00**

TRAVEL EXPENSES

TRAVEL (From Orlando Office)				Round Trip					
To Project :	1	Trips @	250	Miles @	\$0.445	Per Mile =	\$111.25		
Tolls:	1	Trips @	\$0.00	/round trip		=	\$0.00		
Meals	0	Trips with	\$0.00	per diem x	0	People =	\$0.00		
TRAVEL (From Orlando Office)									
To CFX Office:	0	Trips @	0	Miles @	\$0.445	Per Mile =	\$0.00		
Tolls:	0	Trips @	\$0.00	/round trip		=	\$0.00		
TRAVEL (From Orlando Office)									
	0	Trips @		Miles @	\$0.445	Per Mile =	\$0.00		
TRAVEL (From Orlando Office)									
To Other Office:	0	Trips @		Miles @	\$0.445	Per Mile =	\$0.00		

Sub Total **\$111.25**

SHIPPING	1	Months @	\$24.50	Per Month	=	\$24.50
SHIPPING (Regular Mail)	0	Letters/Mo	@	\$0.47	/letter	= \$0.00
SHIPPING (FEDEX)	2	Overnight Letters	@	\$12.25	/letter	= \$24.50
(Includes Utilities Submittals)	0	Overnight Boxes	@	\$16.25	/Box	= \$0.00
				Monthly Total =		\$24.50

Sub Total **\$24.50**

TOTAL EXPENSES **\$153.75**

**PROJECT DEVELOPMENT & ENVIRONMENT
PROJECT DATA**

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: Concept, Feasibility & Mobility Study for the Northeast Connector Expressway
 County: Oscola/Orange
 Contract: 001249

Consult, Name: Global-5, Inc.
 Consult, No.
 Date: 2/21/2017
 Estimator: Mary Hamill

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Principal in Charge	Program Director	Program Manager	Public Info. Officer	Communication Info. Analyst	Senior Creative Director	Public Info. Specialist	Graphic Support	*	-	-	-	SH By Activity	Salary Cost By Activity	Average Rate Per Task
Public Involvement	571	26	0	190	78	99	39	89	50	0	0	0	0	571	\$13,491	\$23.63
Engineering Analysis & Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Environmental Analysis & Reports	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Miscellaneous	12	12	0	0	0	0	0	0	0	0	0	0	0	12	\$490	\$40.86
Total Staff Hours	583	38	0	190	78	99	39	89	50	0	0	0	0	583		
Total Staff Cost		\$1,552.68		\$4,841.20	\$1,987.44	\$1,503.77	\$1,223.82	\$1,674.98	\$797.00	\$0.00	\$0.00	\$0.00	\$0.00		\$13,980.89	\$23.98

Check: \$13,980.89

SALARY-RELATED COSTS:
 OVERHEAD: 147.07%
 SUBTOTAL
 PROFIT MARGIN (LS): 12.00%
SALARY RELATED SUBTOTAL:
 EXPENSES (LS):
 Survey (Field - if by Sub) 0.00 4-man crew day: \$ / day
 SUBTOTAL - SUBCONSULTANT
 Optional Services
SUBCONSULTANT TOTAL ESTIMATED FEE:

SALARY-RELATED COSTS:
 OVERHEAD:
 SUBTOTAL
 PROFIT MARGIN (LS):
SALARY RELATED SUBTOTAL:
 EXPENSES (LS):
 Survey (Field - if by Sub)
 SUBTOTAL - SUBCONSULTANT
 Optional Services
SUBCONSULTANT TOTAL ESTIMATED FEE:

Note:
 1. This sheet to be used by Subconsultant to calculate its fee.

EXPENSES									
Prepared by:	Global-5								
Project Identification No.:	001249								
Project Description:	Concept, Feasibility & Mobility Study for the Northeast Connector Expressway								
REPRODUCTION	8½"x11"	8½"x11"	8½"x14"	11" X 17"	11" X 17"	11" X 17"	Drill & Post	24" X 36"	24" X 36"
	COLOR	XEROX	XEROX	COLOR	XEROX	Laminate	Binding	Bond Paper Plots	Mylar Plots
Printing	635	0							
Laminated Covers & Backs									
30%, 60% & Final Submittals									
Signed & Sealed Originals								0	0
SUBTOTAL	635	0	0	0	0	0	0	0	0
UNIT COST	\$0.55	\$0.04	\$0.06	\$1.10	\$0.070	\$1.70	\$2.25	\$0.60	\$8.40
TOTALS COST	\$349.25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Sub Total								\$349.25	
TRAVEL EXPENSES									
TRAVEL (From Longwood Office)				Round Trip					
To Project :	8	Trips @	100	Miles @	\$0.445	Per Mile =	\$356.00		
Tolls:	8	Trips @	\$4.00	/round trip		=	\$32.00		
Meals	0	Trips with	\$0.00	per diem x	0	People =	\$0.00		
TRAVEL (From Longwood Office)									
To CFX Office:	4	Trips @	34	Miles @	\$0.445	Per Mile =	\$60.52		
Tolls:	4	Trips @	\$2.00	/round trip		=	\$8.00		
TRAVEL (From Longwood Office)									
	0	Trips @		Miles @	\$0.445	Per Mile =	\$0.00		
TRAVEL (From Orlando Office)									
To Other Office:	0	Trips @		Miles @	\$0.445	Per Mile =	\$0.00		
Sub Total								\$456.52	
SHIPPING	1	Months @	\$11.50	Per Month	=	\$11.50			
SHIPPING (Regular Mail)	25	Letters/Mo	@	\$0.46	/letter	=	\$11.50	Public officials Notification Letters	
SHIPPING (FEDEX)	0	Overnight Letters @	\$12.25	/letter	=	\$0.00			
(Includes Utilities Submittals)	0	Overnight Boxes @	\$16.25	/Box	=	\$0.00			
Monthly Total =						\$11.50			
COURIER SHIPPING	0	Trips @	\$32.85	per Trip	=	\$0.00	Final & Final Mylar Plots		
PUBLIC MEETINGS								\$11,903.64	
Public Meeting No. 1									
Postcard notification	5000								
- 5.5 x 8.5 16pt C2S Gloss									
- 4/4 Full color									
- Printing & Postage included			\$ 2,695.64						
Presentation Boards:									
20x40 Print mounted on Gator board									
w/ matte lamination			\$ 595.00	5 each @ \$119					
Newsletter:									
11x17 100# gloss text Colors: 4/4 double sided									
Coating: Satin AQ matte both sides									
Including folding Qty: 3000 - first class mailing									
3 Mailings	2871	3	\$8,613.00						
								\$11,903.64	
MISCELLANEOUS								\$150.00	
Property Appraiser Lists			\$150.00	6 @ \$25.00 each					
								\$150.00	
Sub Total								\$12,065.14	
TOTAL EXPENSES									\$12,870.91

**PROJECT DEVELOPMENT & ENVIRONMENT
PROJECT DATA**

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: Concept, Feasibility & Mobility Study for the Northeast Connector Expressway
 County: Osceola/Orange
 Contract: 001249

Consult, Name: The Balmoral Group, LLC
 Consult, No.
 Date: 2/21/2017

Staff Classification	Total Staff Hours From "SH Summary" Firm *	Project Manager	Chief Engineer	Senior Project Engineer	Project Engineer	Engineer	Engineering Intern	Engineering Technician	Senior Designer	Research Economist/GIS Specialist	Estimator		SH By Activity	Salary Cost By Activity	Average Rate Per Task
Public Involvement	4	\$57,69	\$68,75	\$48,61	\$42,12	\$38,00	\$28,27	\$14,06	\$34,03	\$28,98	\$0,00	\$0,00	4	\$231	\$57,69
Engineering Analysis & Report	587	118	56	120	176	29	29	0	0	59	0	0	587	\$27,535	\$46,91
Environmental Analysis & Reports	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
Miscellaneous	4	1	1	0	1	1	0	0	0	0	0	0	4	\$207	\$51,64
Total Staff Hours	595	123	57	120	177	30	29	0	0	59	0	0	595		
Total Staff Cost		\$7,095.87	\$3,918.75	\$5,833.20	\$7,455.24	\$11,400.00	\$819.83	\$0.00	\$0.00	\$1,709.82	\$0.00	\$0.00		\$27,972.71	\$47.01

Check # 527,972.71

SALARY-RELATED COSTS:
OVERHEAD: 135.52%
SUBTOTAL
PROFIT MARGIN (LS): 12.00%
SALARY RELATED SUBTOTAL:
EXPENSES (LS):
 Survey (Field - if by Sub) 0.00 4-man crew day: \$ / day
SUBTOTAL - SUBCONSULTANT
 Optional Services
SUBCONSULTANT TOTAL ESTIMATED FEE:

Note:

1. This sheet to be used by Subconsultant to calculate its fee.

\$27,972.71
\$37,908.62
\$65,881.33
\$7,905.76
\$73,787.09
\$354.41
\$0.00
\$74,141.50
\$0.00
\$74,141.50

MISCELLANEOUS & DIRECT EXPENSES

Central Florida Expressway Authority
001249

Consultant: The Balmoral Group, LLC

Name of Job: **Concept, Feasibility & Mobility Study for the Northeast Connector Expressway**

Aerial Photography: Sheets Cost Amount
Right-of-Way Maps

Drafting Medium (Mylar):	0	\$0.00	\$0	\$0.00	\$0.00
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	BlueLine	Vellum	11X17	8.5X11		
Study Review (Draft & Final)			20	50	Sheets	5 copies of each
Existing Conditions Report (Draft & Final)			100	150	Sheets	5 copies of each
Concept Study Report (Draft & Final)			500	750	Sheets	5 copies draft + 20 copies
100% Plans				0	Sheets	
Final Plans				0	Sheets	
Misc. Prints			64	100	Sheets	QC of ea. Report
Total	0	0	684	1050	Sheets	

Costs:	Blue Line	0	Sheets @	0.00	\$0.00	
	Vellum	0	Sheets @	0.00	\$0.00	
	Photocopy - 11X17	684	Sheets @	0.19	\$129.96	
	Photocopy - 8.5X11	1050	Sheets @	0.11	\$115.50	\$245.46

Travel From: **165 Lincoln Avenue Winter Park, FL**

To Project: Trips						
(Overnight)	x	people x	days @\$50	\$0.00		
(Per Diem)	x	people x	days @\$6	\$0.00		
Transport. - (Comm.)	x	people x	0.00	per trip	\$0.00	
- (POV)	0 x	0 miles x	0.445	per mile	\$0.00	
- (Rental)	0 x	(days x \$	0.00	Day Rate)		
	+	(miles x \$	0.00	Mi. Rate)	\$0.00	
To District: Trips						
(Per Diem)	0 x	0 people x	0.00	days @\$6	\$0.00	
Transport. - (Comm.)	0 x	0 people x	0.00	per trip	\$0.00	
- (POV)	5 x	22 miles x	0.445	per mile	\$48.95	
- (Rental)	0 x	(days x \$	0.00	Day Rate)		
		(miles x \$	0.00	Mi. Rate)	\$0.00	
					\$48.95	

Shipping & Telephone	12 months @ \$	\$5.00	/Month)	\$60.00
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TOTAL EXPENSES	LUMP SUM	\$354.41
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Date: 02/20/17

EXHIBIT D

PROJECT ORGANIZATIONAL CHART



Organization Chart

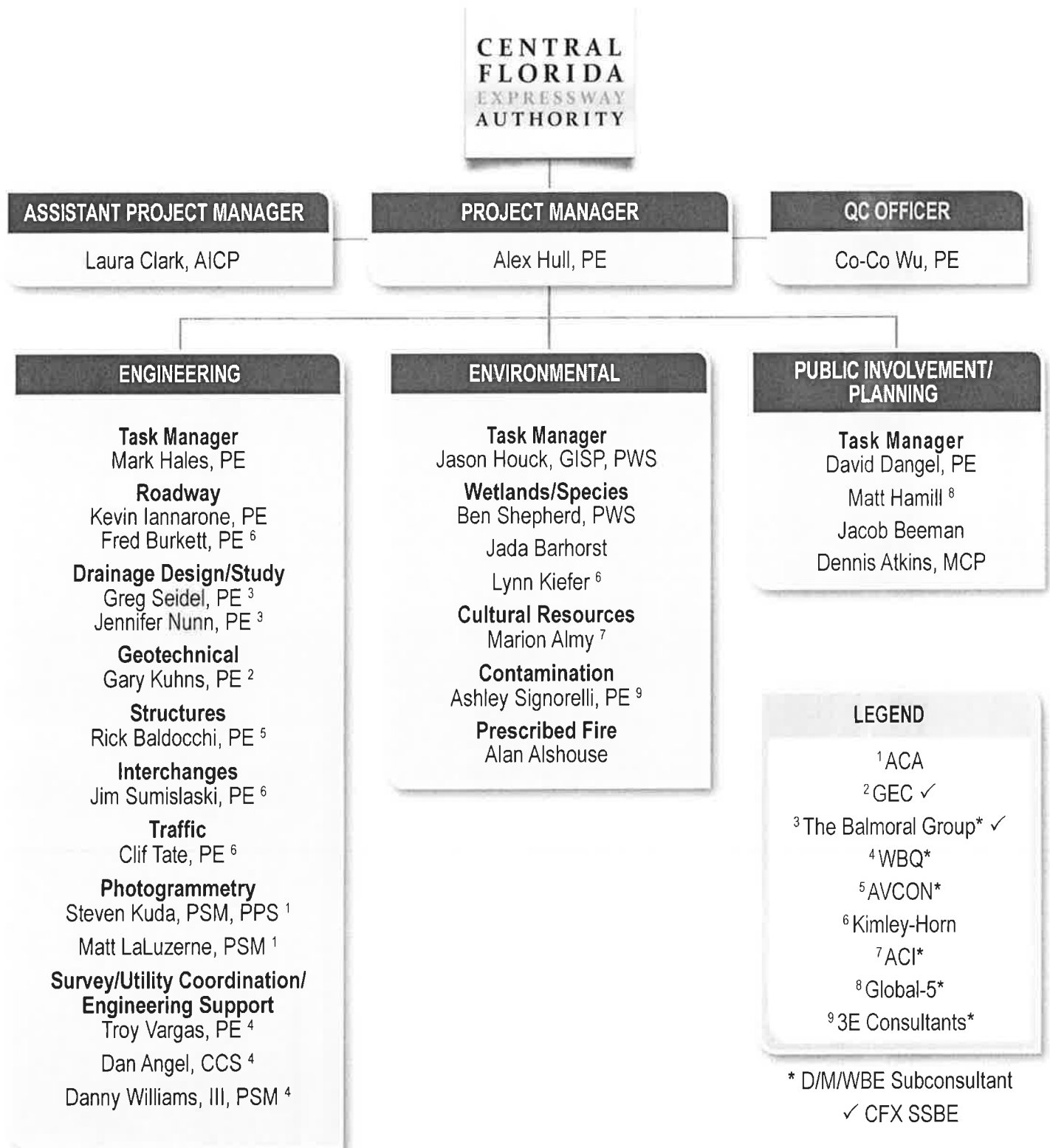
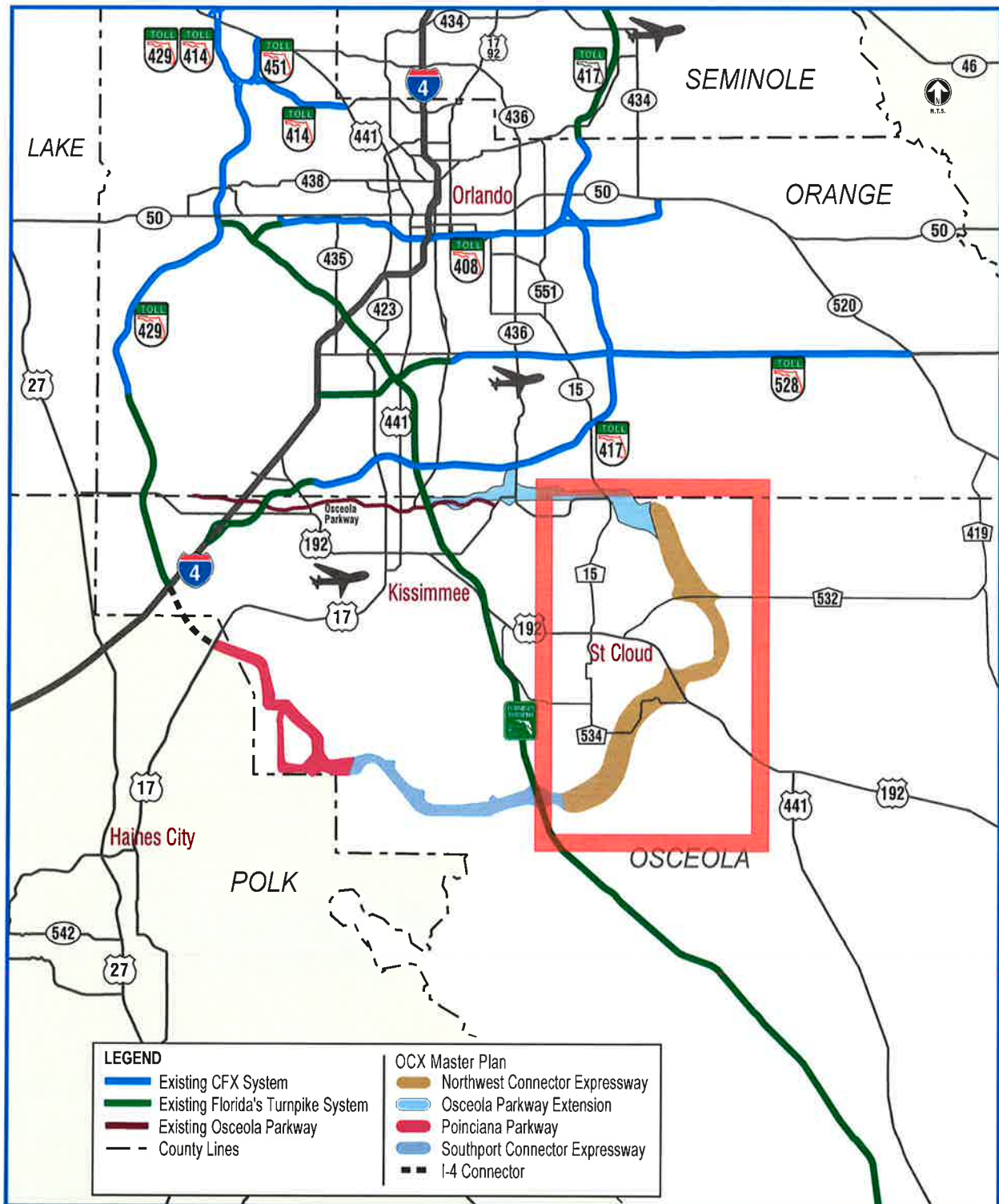


EXHIBIT E

PROJECT LOCATION MAP



**CENTRAL
FLORIDA
EXPRESSWAY
AUTHORITY**

Project Location Map for Northeast Connector Expressway (599-222)

EXHIBIT F

SCHEDULE

**PROPOSED SCHEDULE - CONCEPT, FEASIBILITY, & MOBILITY STUDIES
OF THE OSCEOLA COUNTY EXPRESSWAY AUTHORITY MASTER PLAN PROJECTS**

[illegible]